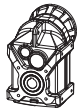


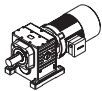
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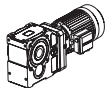
HIP
Shaft mounted gear units



FG
Shaft mounted gear units



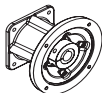
ZG
Helical gear units



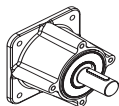
KG
Helical bevel gear units



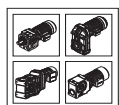
SG
Helical worm gear units



Dimensions - IEC adapter



Dimensions - Input shaft



Operating and maintenance manual

Exclusion of liability:

Manufacturer and distributors do not assume any responsibility for the accuracy, correctness of content.

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STROJNA[®]

is a company with tradition. The company's beginnings go back into the year of 1906, when manufacturer Eylert established a workshop to repair textile machines. At that time, the company has already been producing gears and worm pairs.

During the World War II the company moved from Melje to 11 Linhartova street, where it is still located today. Until 1959, the company officiated under the name Remont, and later under the name Strojna.

Under the new name, it has begun a new period for the company. In 1962, Strojna started its own production program has begun with serial production of helical and later with worm gear units.

During the years we developed a complete program of drive technique, which includes: helical gear units, worm gear units, helical worm gear units, planetary gear units, variable speed drives, Screw Jack, TA-STA gear units, modified gear units, flexible couplings and other elements of drive technique.

Our production capacities include modern high productive machines, which enable us to achieve high quality production with large series. Highly qualified staff, constant equipment updating, technology and quality improvement by using up to date technology, achievements and modern materials, make us recognizable and competitive in drive technique market.

Our research and development department is constantly working on new products of drive technique, closely cooperating with institutes, foreign partners and faculties. We are constantly looking in the future in order to offer modern and efficient gear units to our customers, in order to ensure us a leading position along with the biggest world manufacturers of drive technique.

Regardless of whether we mass-produce for you, deliver popular models on short-term notice, or manufacture individualized single components according to your specifications - we are consistently working on optimizing our customer-oriented service.





STROJNA[®] ist eine Firma mit Tradition. Der Anfang der Firma reicht ins Jahr 1906 zurück, als der Fabrikant Eylert eine Werkstatt zur Reparatur von Textilmaschinen gründete. Schon damals hat die Firma Zahnräder und Schneckenpaare hergestellt.

Im zweiten Weltkrieg zog die Firma von Melje zum neuen Standort Linhartova 11, wo sie sich noch heute befindet. Nach 1959 arbeitete die Firma unter dem Namen Remont und später unter dem Namen Strojna. Mit dem Wechsel des Namens begann für unsere Firma eine neue Ära. Im Jahre 1962 begann unsere eigene Produktion, die Herstellung von Stirnradgetrieben und später auch Schneckengetrieben.

Durch die Jahre haben wir ein komplettes Programm für Antriebstechnik entwickelt, das Stirnradgetriebe, Schneckengetriebe, Stirnschneckenradgetriebe, Planetengetriebe, Variatoren, Hubspindelgetriebe, TA-STA Getriebe, modifizierte Getriebe, elastische Kupplungen und Elemente für die Antriebstechnik beinhaltet.

Unsere Produktionskapazitäten enthalten moderne, hochproduktive Einheiten, die uns sowohl eine hochqualitative Produktion als auch Massenproduktion erlauben. Durch die ständigen Erneuerungen des Maschinenparks und dem Gebrauch von allerneuester Technologie in der Produktion und der Kontrolle von Stirn-, Schneckenradgetrieben, sowie der Gehäusebearbeitung, können wir auf dem Weltmarkt und der Konkurrenz mithalten. In unserer Entwicklungsabteilung entwickeln wir, im Bereich Antriebstechnik, in Zusammenarbeit mit der Marburger Fakultät für Maschinenbau und verschiedenen ausländischen Partnern, ständig neue Produkte. Wir wollen unseren Kunden einen Service anbieten, der auf dem letzten Stand der Technik ist und uns so neben anderen Herstellern einen ebenbürtigen Platz auf dem Markt sichert.

Unser Auftrag ist, den Kunden mit unserer Qualität, die kundenorientiert ist und dessen hohen Erwartungen entspricht, zu überzeugen. Der moderne Maschinenpark, die Qualitätskontrolle durch den ganzen Fertigungsprozess und die optimale Technologie machen es möglich, schnell, präzise und billig zu produzieren.

Wir bearbeiten nur hochwertige Materialien, setzen modernste Technologie ein, haben hochqualifizierten Mitarbeiter, Kontrollen und Testläufe, Dies Alles bedeutet Qualität, für die die Firma Strojna bekannt.

Was auch immer wir für sie herstellen, sei es reguläre Produktion oder Teile nach ihrer Anfrage, bemühen wir uns die Arbeit ständig zu optimieren und kundenorientiert zu sein.



(1) **EG – Konformitätsbescheinigung**

(2) Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen – **Richtlinie 94/9/EG**

(3) EG-Konformitätsbescheinigungsnummer
TPS 12 ATEX 2 573 X

(4) **Gerät:** Explosionsgeschützte Getriebemotoren Typ SG-EX

(5) **Hersteller:** Stroina Transmissions d.o.o.

(6) **Anschrift:** Berglesova ul. 11
SI-2000 Maribor

(7) Die Bauart dieses Gerätes sowie die verschiedenen zulässigen Ausführungen sind in der Anlage zu dieser Konformitätsbescheinigung festgelegt.

(8) TÜV SÜD Product Service GmbH bescheinigt als benannte Stelle Nr. 0123 nach Artikel 9 der Richtlinie des Rates der Europäischen Gemeinschaft vom 23. März 1994 (94/9/EG) aufgrund einer freiwilligen Prüfung die Erfüllung der grundlegenden Sicherheits- und Gesundheitsanforderungen für die Konzeption und den Bau von Geräten und Schutzsystemen zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen gemäß Anhang II der Richtlinie. Die Ergebnisse der Prüfung sind im vertraulichen Prüfbericht 71397713_T festgelegt.

(9) Die grundlegenden Sicherheits- und Gesundheitsanforderungen werden erfüllt durch Übereinstimmung mit:

EN 1127-1:2011 EN 13463-1:2009
EN 13463-5:2011 EN 13463-8:2003

(10) Falls das Zeichen „X“ hinter der Bescheinigungsnummer steht, wird auf besondere Bedingungen für die sichere Anwendung des Gerätes in der Anlage zu dieser Bescheinigung hingewiesen.

(11) Diese EG-Konformitätsbescheinigung bezieht sich nur auf Konzeption und Bau des festgelegten Gerätes gemäß Richtlinie 94/9/EG. Weitere Anforderungen dieser Richtlinie gelten für die Herstellung und das in Verkehrbringen dieses Gerätes.

(12) Die Kennzeichnung des Gerätes muss die folgenden Angaben enthalten:


 **II 2 G/D ck T4/T130°C**

Zertifizierungsstelle Explosionsschutz München, 18.09.2012

Seite 1 / 2

EG-Konformitätsbescheinigungen ohne Unterschrift und ohne Siegel haben keine Gültigkeit.
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TÜV SÜD Product Service GmbH - Zertifizierungsstelle - Ridlerstraße 65 - 80339 München - Germany 

(1) **EG – Konformitätsbescheinigung**

(2) Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen – **Richtlinie 94/9/EG**

(3) EG-Konformitätsbescheinigungsnummer
TPS 12 ATEX 2 573 X

(4) **Gerät:** Explosionsgeschützte Getriebemotoren Typ ZG-EX

(5) **Hersteller:** Stroina Transmissions d.o.o.

(6) **Anschrift:** Berglesova ul. 11
SI-2000 Maribor

(7) Die Bauart dieses Gerätes sowie die verschiedenen zulässigen Ausführungen sind in der Anlage zu dieser Konformitätsbescheinigung festgelegt.

(8) TÜV SÜD Product Service GmbH bescheinigt als benannte Stelle Nr. 0123 nach Artikel 9 der Richtlinie des Rates der Europäischen Gemeinschaft vom 23. März 1994 (94/9/EG) aufgrund einer freiwilligen Prüfung die Erfüllung der grundlegenden Sicherheits- und Gesundheitsanforderungen für die Konzeption und den Bau von Geräten und Schutzsystemen in explosionsgefährdeten Bereichen gemäß Anhang II der Richtlinie. Die Ergebnisse der Prüfung sind im vertraulichen Prüfbericht 71397713_T festgelegt. Sicherheitsanforderungen werden erfüllt durch:

EN 13463-1:2009
EN 13463-8:2003



Die Bescheinigungsnummer steht, wird auf besondere Bedingungen für die sichere Anwendung des Gerätes in der Anlage zu dieser Bescheinigung hingewiesen.

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II 2 G/D ck T4/T130°C

München, 18.09.2012

Seite 1 / 2

0123 nach Artikel 9 der Richtlinie des Rates der Europäischen Gemeinschaft vom 23. März 1994 (94/9/EG) aufgrund einer freiwilligen Prüfung die Erfüllung der grundlegenden Sicherheits- und Gesundheitsanforderungen für die Konzeption und den Bau von Geräten und Schutzsystemen in explosionsgefährdeten Bereichen gemäß Anhang II der Richtlinie. Die Ergebnisse der Prüfung sind im vertraulichen Prüfbericht 71397713_T festgelegt. Sicherheitsanforderungen werden erfüllt durch:

EN 13463-1:2009
EN 13463-8:2003

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II 2 G/D ck T4/T130°C

München, 18.09.2012

Seite 1 / 2

(1) **EG – Konformitätsbescheinigung**

(2) Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen – **Richtlinie 94/9/EG**



(3) EG-Konformitätsbescheinigungsnummer
TPS 12 ATEX 2 573 X

(4) **Gerät:** Explosionsgeschützte Getriebemotoren Typ FG-EX

(5) **Hersteller:** Stroina Transmissions d.o.o.

(6) **Anschrift:** Berglesova ul. 32
SI-2000 Maribor

(7) Die Bauart dieses Gerätes sowie die verschiedenen zulässigen Ausführungen sind in der Anlage zu dieser Konformitätsbescheinigung festgelegt.

Seite 1 / 2

0123 nach Artikel 9 der Richtlinie des Rates der Europäischen Gemeinschaft vom 23. März 1994 (94/9/EG) aufgrund einer freiwilligen Prüfung die Erfüllung der grundlegenden Sicherheits- und Gesundheitsanforderungen für die Konzeption und den Bau von Geräten und Schutzsystemen in explosionsgefährdeten Bereichen gemäß Anhang II der Richtlinie. Die Ergebnisse der Prüfung sind im vertraulichen Prüfbericht 71397713_T festgelegt. Sicherheitsanforderungen werden erfüllt durch:

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München, 18.09.2012

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TÜV SÜD Product Service GmbH - Ridlerstraße 65 - 80339 München - Germany 



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The International Bureau of the World Intellectual Property Organization (WIPO) hereby certifies that the particulars given below correspond to the recording made in the International Register of Industrial Designs, at the date of the international registration, under the Hague Agreement Concerning the International Registration of Industrial Designs.

Patrick CARTANT
Head, Examination Section
International Designs Registry
Sector of Trademarks, Industrial Designs
and Geographical Indications

Geneva, November 4, 2009

DM/072 414

16.09.2009

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SI-2000 Maribor
(Slovenia).

Filing date: 16.09.2009
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Number of designs: 1
Locarno Classification: C
Indication of product: 1:
Contracting Parties desig
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Macedonia
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- 22 SL - EN
- 23 21/09/2009
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- 73 Nanotehnologija d.o.o.
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0001.1



Certificate
Awarded to
STROJNA MARIBOR d.o.o.
LINHARTOVA ULICA 11, 2000 MARIBOR, SLOVENIJA

Bureau Veritas Certification certify that the Management System of the above organization has been audited and found to be in accordance with the requirements of the management system standard detailed below

STANDARD

ISO 9001:2008

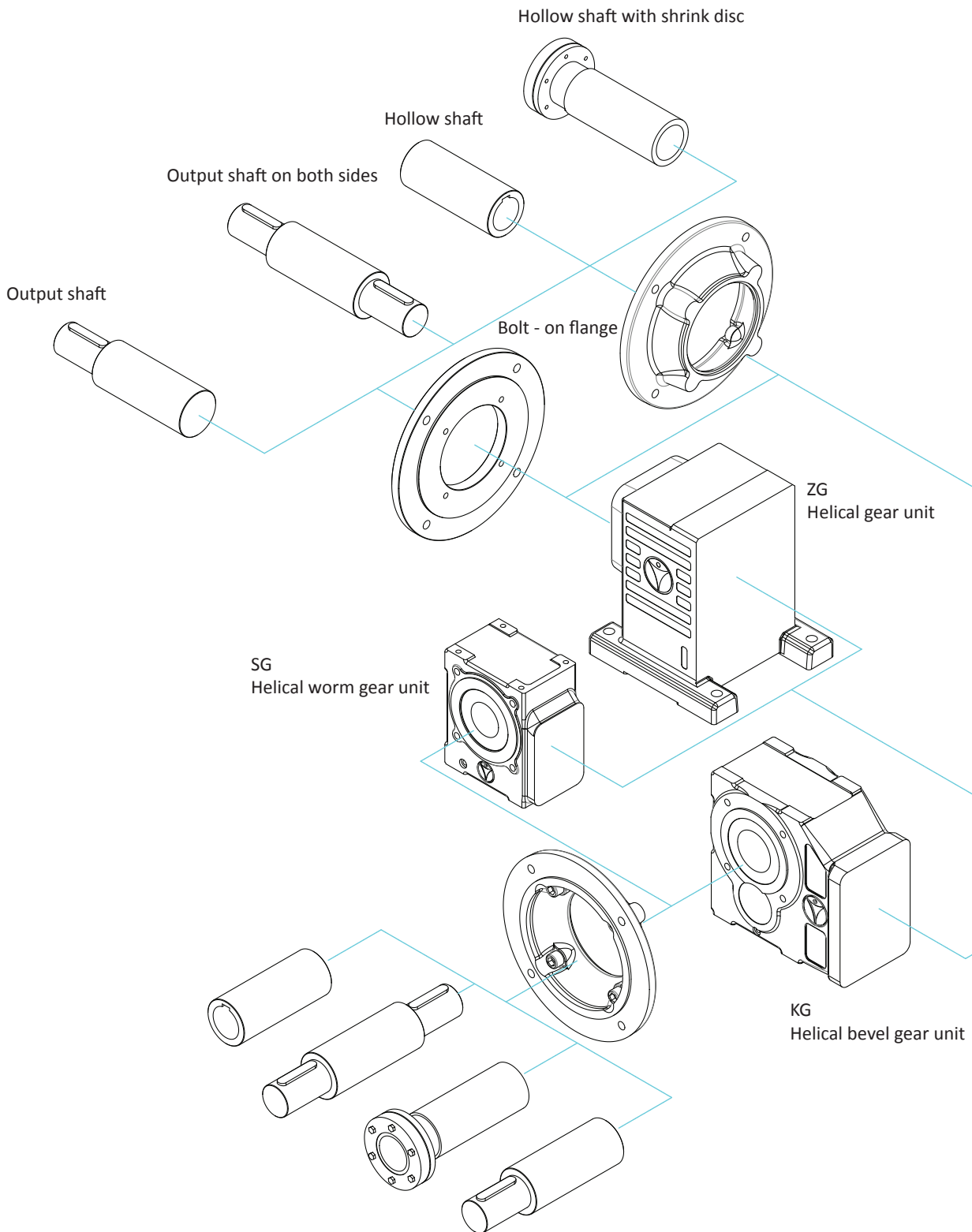
SCOPE OF CERTIFICATION

RESEARCH, DEVELOPMENT, TRADING AND PRODUCTION OF HELICAL SHAFT MOUNTED, HELICAL BEVEL, HELICAL WORM, PLANETARY GEARBOXES AND OTHER PARTS OF DRIVING TECHNOLOGY

Certification cycle start date: **25/07/2013**
Subject to the continued satisfactory operation of the organisation's Management System, this certificate expires on: **25/07/2016**
Original certification date: **11/09/2007**
Certificate number: **SL20174Q** Version number: **02** Revision date: **11/07/2014**

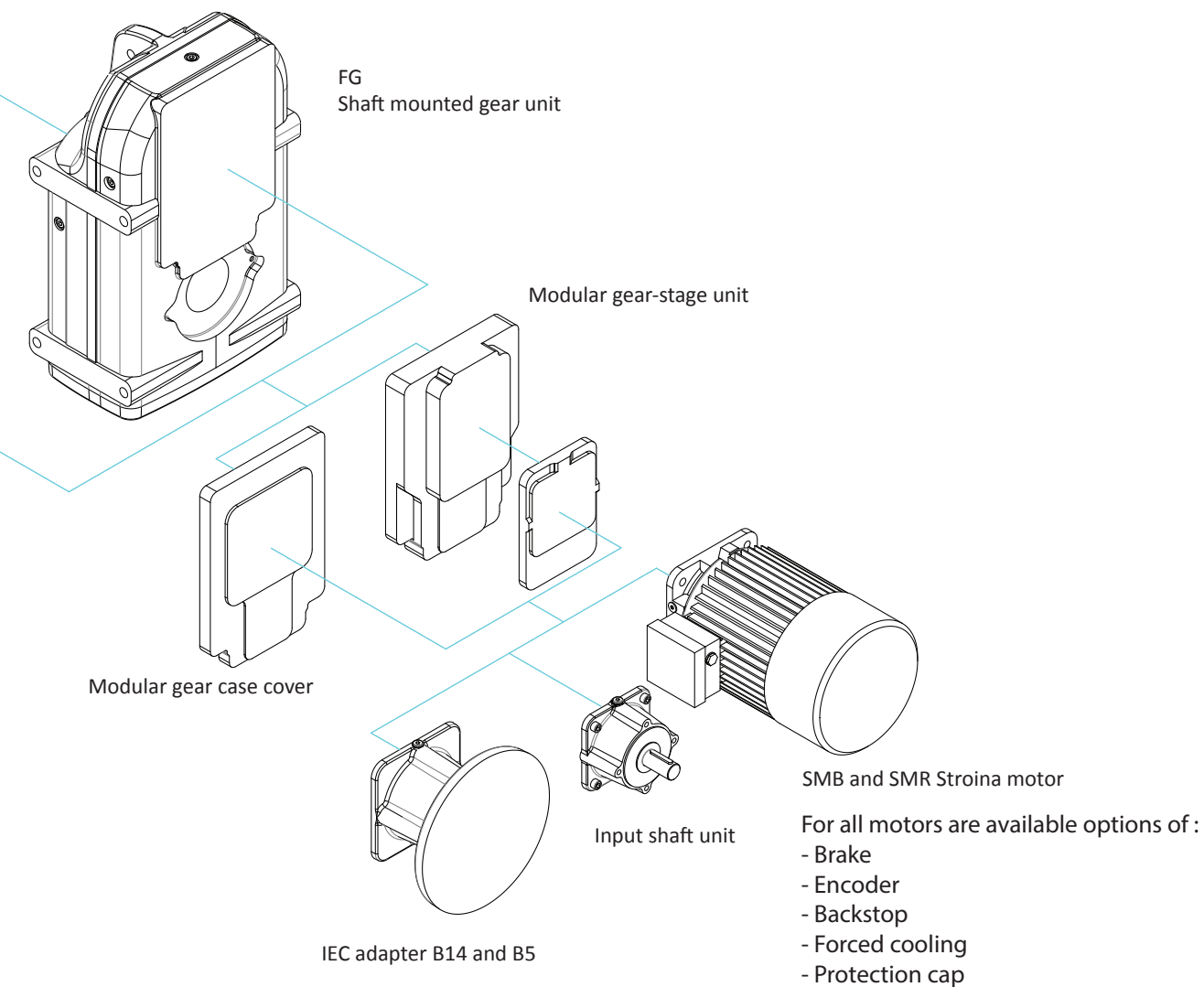


Certificate Authority
Certification body address: Brecon House, 180 Borough High Street, London SE17 1JX, United Kingdom
Largest office: Tottenham Court Road, 55000 London, United Kingdom
Further information regarding the scope of this certificate and the applicability of the management system requirements may be obtained by contacting the organization.
To check this certificate validity please visit: www.bv.com





Modular assembly is logically optimized and allows fast delivery times.
Also it is designed for adaption and modification.



1. Data for drive selection

When gear unit is going to work in:

- dusty atmosphere,
- chemically aggressive atmosphere,
- at increased temperatures,
- at extremely low temperatures,
- and the specific requirements for upgrading and changing at the input or output,
- other... ,

the following information in this questionnaire is important, for selecting the right gear unit:

Required information	simbol	units / dimension	value / description
Type designation			
Geometric shape			
Mounting position			
Output speed (min max)	n_2	min^{-1}	
Gear ratio	i		
Output torque (min max)	Mt_2	Nm	
Braking torque	Tk	Nm	
Minimal operating coefficient of machine	f_{BR}		
Radial loads at output shaft	F_{rr}	N	
Axial loads at output shaft	F_{ar}	N	
Rated power of motor	P	kW	
Motor rated voltage	U	V	
Brake rated voltage	U_k	V	
Frequency	f	Hz	
Type of motor , EN 60034	S1, S2,.		
Ambient temperature			
Altitude of installation location	H	m	
*Type of load	I, II, III		
*Relative cyclic duration factor	ED	%	
*Duration of work	T	h/dan	
*Number of starts per hour	Z	1/h	
*Shaft execution			

The gear units are made in according to the valid DIN, ISO and AGMA standards. The technical data and details about allowed working conditions are written on a name plate and accompanying documents.

When ordering gear units it is necessary to indicate the form of mounting (the position of terminal box of the motor) that is chosen from appropriate scheme. All later changes of mounting are possible only with consultation and written binding confirmation.

2. Type designation geared units

FG	4	2	-	50	VS	SMB	71B4	K1	N3	0	0		
1	2	3	4	4a	5	6	7	8	9	10	11	12	13
FG	1	2	-	L / D	50	GO	SMB	B14	63A	K2	B3	0	0
ZG	2	3	V		50	VS	SMR	B5	...	EN	...	1	1
KG	3	4	Z		50	ZP	B1		250M	PH	N3	2	2
SG	4		D			ZD	3	3
	5		P		300/50		...				V1		
	6		P/V		300/50		B7				...		
	7		P/D		300		A63						
	8		P/Z		300/50		...						
	...		M				...						
	13		S				A250						

LEGEND:

1. Gear unit type
2. Size of gear unit
3. Gear stages code
4. Shaft execution
 - hollow shaft
 - V output shaft
 - FV output shaft
 - D hollow shaft with shrink disc
 - Z with outputshaft on both sides
 - P hollow shaft with bolt-on flange
 - P/V output shaft with bolt-on flange
 - P/D hollow shaft with bolt-on flange and shrink disc
 - P/Z with output shaft on both sides and with flange
 - FP/V outfut shaft whit bolt-on flange
 - M mixer
 - S separator
- 4a. Shaft position
 - L left side from electric motor point of view
 - D right side from electric motor point of view
5. Dimensions output shafts, see dimensioned drawing
 - Whitout mark, hole diameter in hollow shaft in mm
 - Variant V, diameter of output shaft in mm
 - Variant Z, diameter of shaft in mm
 - Variant P, diameter of flange in mm / hole diameter in hollow shaft in mm
 - Variant P/V, diameter of flange in mm / diameter of shaft in mm
 - Variant P/D, diameter of flange in mm
 - Variant P/Z, diameter of flange in mm / diameter of shaft in mm
6. Additional elements
 - MR -torque arm
 - VS -link circuit
 - ZP -protective lid
 - ZD -protective lid for shrink disc
7. Input connector
 - SMB STROJNA motor type B
 - SMR STROJNA motor type R
 - B with input shaft from size 1 - 7
 - A IEC adapter for motors with axle height 63 - 250 mm
8. Motor flange according to IEC
9. Motor size and number of poles
10. Additional marking motor
 - K1 brake without arm
 - K2 brake with arm
 - EN encoder
 - PH forced cooling
11. Basic mounting position
12. Position of the terminal box
13. Position of the cable entry

General tehcnical data:

- Case**
- Material Cast iron
- Solid shaft**
- Shaft diameter to D = 50 mm in ISO k6 (DIN 748 Page1)
as of D = 50 mm in ISO m6 (DIN 748 Page 1)
- Keyway ISO P9 (DIN 6885 Page 1)
- Key, height ISO h9 (DIN 6885 Page 1 and DIN 6880)
- Bore - customer ISO H7
- Cirucal error of the shaft ends DIN EN 50347
- Material 42CrMo4 or C45E
- Hollow shaft with keyway**
- Bore diameter ISO H7 (DIN 748)
- Keyway ISO JS9 (DIN 6885 Page 1)
- Key, height ISO h9 (DIN 6885 Page 1 and DIN 6880)
- Customer shaft ISO h6
- Material 42CrMo4 or C45E
- Hollow shaft for shrink-on disc coupling**
- Outside diameter ISO f7
- Inside diameter ISO H7
- Customer shaft ISO h6
- Flanges**
- Outside diameter to D = 230 mm ISO j6 as of D = 230 mm ISO h6
- Coaxial error and axial run out of the fixing flanges DIN 42955-N
- Gears**
- Material 16MnCr5, 20MnCr5 or 18CrNiMo7-6
- Shaft seals**
- Type with dust lip according to DIN3760 AS
- Material NBR/FPM
- Bearing**
- Type ball bearings or tapered roller bearings

3. Drive selection

The gear units are made in according to the valid DIN, ISO and AGMA standards. The technical data and details about allowed working conditions are written on a name plate and accompanying documents.

When ordering gear units it is necessary to indicate the form of mounting (the position of terminal box of the motor) that is chosen from appropriate scheme. All later changes of mounting are possible only with consultation and written binding confirmation.

The efficiency of gear units is mainly determined by the gearing and bearing friction. Keep in mind that the starting efficiency of a gear unit is always less than its efficiency at operating speed. This factor is especially pronounced in the case of helical-worm gear units.

In order to choose correct gearbox and driving electric motor it is necessary to know the following data:

- required output torque Mt_2 ,
- gearbox output speed n_2 ,
- way of gearbox load and corresponding operational factor f_b .

Based on these input values, it is possible to determine the size, box power output and gear ratio i as well.

Determination of service factor

The gear unit reliable performs its function by required working conditions. The value of service factor f_b in table of gear units is given for the way of load I – continuous, smooth running without rocking up to 8 hours/daily.

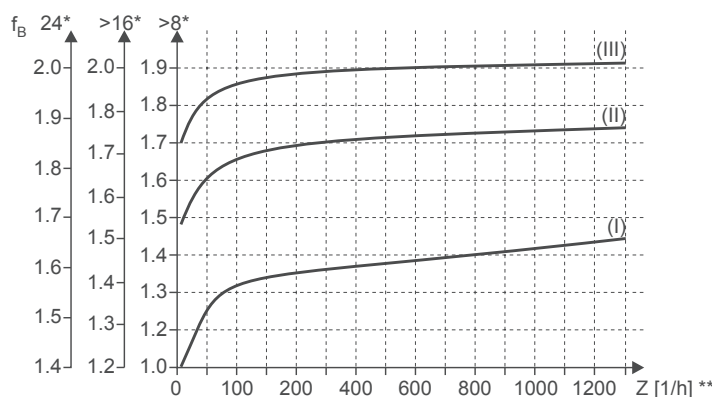
The way of determining the service factor f_b is not standardized. The gear units with electro motor's SMR or SMB have got $f_b=1.0$, and it is satisfied then, when by long-term load with output torque does not come to permanent damage of the gear (or / and pitting).

The chosen service factor must be multiply with:

- At least 1.2, when the gear is running with internal combustion engine, hydraulic motor,... , the way of rotation is changing and hard start - if occasionally comes to torque fluctuations at the input of the gear unit,
- At least 1.5, when for driving the gear is used electro-break motor,
- At least 1.6, when for driving the gear is used servomotor,
- At least 1.7, when using frequency regulator.

It is recommended to determine the service factor f_b of the gear, because the influence of the provided environment temperature is important. The service factor is $f_{bmin} \geq 0.8$, according to AGMA standards. The gear unit made by ATEX requirements has to have the service factor $f_{bmin} \geq 1.25$.

The factor of the driven machine on the gear unit is taken into account to a sufficient level of accuracy using the service factor f_b . The service factor is determined according to the daily operating time and the starting frequency. Three load classifications are considered depending on load factor. You can read off the service factor applicable to your application in graph. The service factor determined using this diagram must be less than or equal to the service factor as given in the selection tables.



* Operating hours

** Starts per hour

Load factor

Class I:

A gearmotor can operate with steady loads not exceeding the normal rating and 8 - 10 hours of running time per day.

As for instance : fans, gear pumps, mounting belts, conveyer worms, liquid mixers, filling and packing machines.

Class II:

A gearmotor can operate with steady loads not exceeding the normal rating and 24 hours of running time per day.

or

A gearmotor can operate with moderate shock loads not exceeding 1.25 x rated load torque and 8 - 10 hours of running time per day.

As for instance: conveyer belts, lifts, winches, masticating mills, textile and printing machines, wood-working machines.

Class III:

A gearmotor can operate with moderate shock loads which are a maximum 1.25 x rated load torque and 24 hours of running time per day.

or

A gearmotor can operate with heavy shock loads in excess 1.25 x rated load torque and 8 - 10 hours of running time per day.

As for instance: concrete mixing machine, suction pumps, compressors, power hammers, roll stand, conveyers of heavy goods, bending and pressing machines, machines with alternating movement.

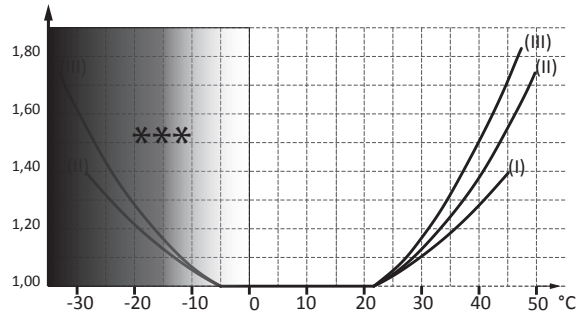
The method for determining the maximum permitted continuous torque M_a max and using this value to derive the service factor $f_b = M_a \text{ max}/M$ is not defined in a standard and varies greatly from manufacturer to manufacturer. Under certain circumstances, the service factor may not be comparable with the information given by other gear unit manufacturers. If in doubt, please contact Strojna to find out more detailed information for your specific drive.

Operating time h/day	4 h			8 h			16 h			24 h		
	<10	10...200	>200	<10	10...200	>200	>10	10...200	>200	<10	10...200	>200
Load type I	0,9	1,15	1,2	1,0	1,30	1,35	1,2	1,35	1,4	1,4	1,55	1,6
Load type II	1,4	1,55	1,6	1,45	1,65	1,7	1,55	1,70	1,75	1,7	1,8	1,85
Load type III	1,6	1,75	1,8	1,7	1,85	1,9	1,75	1,85	2,0	1,85	1,95	2,0

In case that gear unit is not operating in enclosed environment 20°C, additional service factor will have to be taken into consideration besides service factor f_B derived:

- f_{B1} = Service factor from the ambient temperature

The additional service factor f_{B1} can be determined by referring to the diagram. The load classification is taken into consideration in f_{B1} in the same way as in f_B .



Total service factor is calculated : $f_{BT} = f_B \times f_{B1}$

For special requests, demands or if you are in doubt please contact us with completed questionnaire.

*****Contact Strojna / Stroina Transmissions in case of temperatures below -20°C.**

Output torque Mt_2

Torque Mt_2 is given by required load of gearbox. It can be expressed as a force of F_2 , which acts at certain distance on arm r_2 .

$$Mt_2 \text{ [Nm]} = F_2 \text{ [N]} \times r_2 \text{ [m]}$$

Radial and axial loads

-acting on the shaft center, should always be less than or equal to the available loads for the chosen type of gear unit.

$$F_r \geq F_{rr} \text{ and } F_a \geq F_{ar}$$

Actual radial force depends on the transmission element mounted.

$$F_{rr} = ((2000 \times Mt_2) / d_0) \times f_z \text{ [N]}$$

- Mt_2 (Nm) - output torque
- d_0 (mm) - middle diameter of transmission element

Transmission element	f_z	Note
Gear wheel	1,15	$Z \leq 17$
Sprocket	1,25	$Z > 13$
Sprocket	1,4	$Z \geq 13$
V- belt	1,8	Influence of tensile force
Flat belt	2,5	Influence of tensile force

Thermal power limit

Thermal power limit represents maximal permissible power of gear unit surface temperature 80°C

Data in tables are valid for:

- standard gear unit with STROJNA motor
- mounting position B7, B6, B3, N1, N2, N3, N4, N5, V1, V2
- input speed $\leq 1700 \text{ min}^{-1}$
- operating mode: S1

FG	Thermal power limit P_t [kW]								
	Ambient temperature Θ [°C]								
	-20	-10	0	10	20	30	40	50	60
12	8,2	7,2	6,3	4,1	4,3	3,5	1,9	1,4	0,9
22	12	10,2	8,8	5,9	6,2	4,0	3,0	1,9	1,1
23	7,3	6,4	5,4	3,7	3,7	2,9	1,8	1,0	0,7
32	23,0	19,8	17,0	13,8	12,5	8,9	6,5	4,1	2,6
33	13,8	11,7	11,5	8,0	7,9	5,0	3,9	2,3	1,6
42	39,0	36,0	28,0	23,5	21	15,0	10,8	7,4	4,5
43	23,0	22,0	16,9	13,9	13,0	9,0	6,6	4,1	2,7
44	15,2	13,0	11,9	9,0	8,8	6,0	4,1	2,9	1,8
52	60,0	51,0	44,0	35,2	29	23,0	16,7	11,1	6,7
53	35,8	29,0	25,8	20,8	17	13,8	9,8	6,7	4,0
54	24,3	19,0	17,9	14,1	11,8	9,1	6,7	4,5	2,3
62	108	93,0	79,0	63,8	54,0	42,0	30,2	20,2	12,2
63	64,0	56,0	47,8	38,2	32,0	25,0	18,2	12,2	7,4
64	43,5	37,0	32,0	25,5	21,0	16,8	12,0	8,1	4,9
72	135	124	101	82,4	73	54,0	40,0	26,1	15,8
73	82	75	59,0	49,6	44,0	32,5	23,4	15,7	9,5
74	53	47	41,0	32,8	30,0	21,6	15,5	10,4	6,3
83	127	114	93,0	75,3	67,0	49,0	35,6	23,8	14,4
84	79,0	69,1	58,3	46,1	42,0	30,4	21,8	14,6	8,8
85	39	34,0	28,7	22,6	20,0	15,0	10,7	7,2	4,3

KG	Thermal power limit P_t [kW]								
	Ambient temperature Θ [°C]								
	-20	-10	0	10	20	30	40	50	60
12	7,7	6,4	5,3	4,5	3,6	2,8	2,3	1,9	1,2
22	12,1	10,5	9,1	7,6	6,3	5,0	3,7	2,5	1,6
23	6,1	5,2	4,4	3,7	3,2	2,9	2,1	1,6	1,2
32	20,5	17,8	14,8	12,6	10,7	9,0	7,0	5,5	3,0
33	9,6	8,0	7,1	6,4	5,4	4,7	3,8	2,5	1,5
42	31,5	26,3	26,9	22,3	18,7	15,0	9,0	6,7	4,1
43	19,0	16,0	13,3	11,3	9,4	8,1	6,2	5,2	3,2
44	12,8	10,9	9,1	7,7	6,5	5,4	4,5	3,2	2,2
53	25,3	21,5	18,2	15,6	13	9,7	8,1	5,5	3,5
54	15,5	12,7	10,8	9	7,8	6,5	4,8	3,2	1,7
55	10,7	8,7	7,4	6,2	5,2	3,8	2,8	2,0	1,4
63	37,2	32,4	27,3	22,0	19,2	15,3	11,3	7,2	4,8
64	22,8	18,9	16,0	13,5	11,5	9,1	5,9	4,5	2,8
65	16,0	13,2	11,0	9,3	7,7	5,2	4,0	3,4	2,0
73	60,0	52,9	44,6	37,8	32	25,2	18,3	12,1	7,2
74	39,0	33,0	28,0	23,0	19,2	16,0	12,3	8,3	5,2
75	30,0	26	21,9	16,0	12,8	11,3	8,5	5,8	3,6
83	82,6	70,0	58,0	48,0	41,5	33,0	25,5	15,2	9,6
84	50,0	42,0	35,5	30,0	24,9	21	17,3	10,5	7,2
85	38,0	31,5	26,2	21,0	16,6	14,2	11,5	8,2	5,3
93	135,0	114,0	91,0	77,0	62,3	51,0	42,0	30,0	15,5
94	72,0	61,0	52,0	44,0	37,3	31,5	25,9	18,0	9,8
95	51,0	41,0	34,7	29,4	24,9	21,0	15,8	10,9	7,2

ZG	Thermal power limit P_t [kW]								
	Ambient temperature						Θ [°C]		
	-20	-10	0	10	20	30	40	50	60
12	3,4	2,6	2,2	1,8	1,6	1,4	1	0,8	0,6
22	5,6	4,9	4,2	3,6	3,2	2,8	2,4	1,9	1,1
23	5	4,3	3,5	3,1	2,8	2,5	2,2	1,3	0,8
32	7,7	6,8	5,9	5,3	4,6	3,6	3,1	2,4	1,6
33	6,6	5,9	5,1	4,2	3,9	3,1	2,8	1,9	1,4
42	10,2	8,9	8,2	6,8	5,8	5,1	4,3	3,6	2,5
43	8,9	7,3	6,8	5,7	5	4,6	3,8	2,9	1,8
52	14,7	12,2	10,3	9,3	7,9	7,1	6,3	5,4	4,3
53	12,4	11,3	9,2	8,6	7,1	6,5	5,3	4,7	3,1
62	18,2	16,3	14,5	13	12	11,2	10,3	9,2	8,4
63	16,5	14,2	13,2	12,3	10	8,9	7,2	6,5	5,6
64	14,2	13,2	11,8	9,3	8,3	8	6,8	5,6	4,7
72	26,6	24	22,3	20,8	19,3	18,6	17,4	16,1	14,2
73	25	23	20,1	18,5	17,4	16,8	15,2	14,3	11,8
74	22,6	19,2	17,5	16,2	15,3	13,1	12,2	10,6	9,1
82	36,7	32,4	28	26	24	22,2	20,4	18,3	16,3
83	32	29	25	23	19	17,5	16,2	15,3	14
84	29	26	19,8	18,3	17	16	14,2	13,2	12,7
92	51,5	47	42,8	38	35	33,5	30,6	28,2	24,3
93	48	43	39	31	29	27	25	23,1	20,7
94	45	39	31	29	26	23,8	20,2	18,4	17,5
102	58	54	47	44	42	39	34	28	22
103	53	49	44	41	39	36	31,5	24,8	18,5
104	50	46	39,1	35,5	34	32,5	28,4	23,1	16,8
112	92	86	78	67	62	55	51	47	38
113	85	79	68	61	57	51,5	48	43	36
114	80	76	63	57	51	48	44	39	34
122	110,5	106,6	98,8	94,9	91	84,5	79,3	74,1	68,9
123	106,6	97,5	91	88,4	84,5	78	71,5	65	58,5
124	96,2	91	88,4	83,2	78	71,5	65	58,5	52
132	193,8	182,4	174,8	167,2	161,5	153,9	140,6	131,1	121,6
133	186,2	178,6	171	163,4	157,7	148,2	140,6	133	123,5
134	180,5	172,9	169,1	159,6	152	138,7	127,3	114	102,6

SG	Permissible thermal power loss, P_g [kW]								
	Ambient temperature, Θ [°C]								
	-20	-10	0	10	20	30	40	50	60
1	0,25	0,23	0,20	0,18	0,15	0,12	0,09	0,06	0,04
2	0,40	0,35	0,32	0,28	0,23	0,18	0,15	0,11	0,07
3	0,61	0,56	0,50	0,42	0,35	0,30	0,22	0,17	0,11
4	0,76	0,70	0,60	0,53	0,43	0,38	0,30	0,22	0,13
5	0,95	0,87	0,77	0,68	0,57	0,48	0,36	0,25	0,15
6	1,21	1,10	0,96	0,80	0,70	0,60	0,40	0,32	0,21

For SG gear units we have to include additional formula for calculation. Shown in example:

The table above shows that P_g for the ambient temperature of 30 °C is 0,18kW; ($P_g=0,18kW$).

If we include this in formula P_t we get:

$$P_t = \frac{P_g}{1 - \frac{\eta}{100}} \text{ [kW]} \qquad P_t = \frac{0,18}{1 - \frac{62}{100}} = 0,47 \text{ [kW]}$$

The value P_{td} according to the following formula represents maximum permissible input power of the gear unit:

$$P_{td} = P_1 \times k_1 \times k_2 \times k_3 \times k_4 \times k_5$$

IEC adapter or input shaft	k1	0,70
Mounting position: N4, N5, N6	k2	0,75
Input speed > 1700 min ⁻¹	k3	0,70
Duty on intermittent load S3...S6	40 min	1,25
	25 min	1,50
	15 min	1,80
	10 min	2,00
Synthetic lubricant + FPM	k5	1,60

Thermal power limit represents maximal permissible power of gear unit surface temperature 80°C

Data in tables are valid for:

- standard gear unit with STROINA motor
- mounting position B7, B6, B3, N1, N2, N3, N4, N5, V1, V2
- input speed ≤ 1700 min⁻¹
- operating mode: S1

4. Gear unit Mounting positions

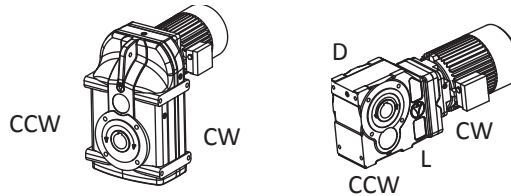
Stroina differentiates between six mounting positions for gear units and gearmotors.

Output direction of rotation with backstop.

If the drive has a backstop, you also have to indicate the direction of rotation of the output for the drive. The following definition applies:

As viewed at the output shaft:

- Clockwise (CW)
- Counterclockwise (CCW)



In the right-angle gear units, you also have to indicate whether the direction of rotation is given looking into the L or D end.

Position of the output shaft and output flange:

In right-angle gear units, you also have to indicate the position of the output shaft and the output flange:




- L or D or L+D (L is for Left-side, D is for Right-side)

The position of the output shaft will be determined from the motor side


Changing the mounting position:

It is important that you read the following information when you operate the gearmotor in a mounting position other than indicated in the order:

- Adjust the lubricant fill quantity to match new mounting position
- Adjust the position of the breather valve
- For helical-bevel gearmotors: contact Stroina customer service prior to changing to mounting position V1 to V2 or vice versa
- For helical-worm gearmotors: contact Stroina customer service when changing to mounting position N5 or N4

INFORMATION	
	Notes on the shafts illustrated on the mounting position sheets: -For gear units with solid shaft: The displayed shaft is always on the L end. -For shaft-mounted gear units: The shaft with dashed lines represents the customer shaft. the output end (shaft position) is always shown on the L end.
INFORMATION	
	Notes on the depicted motors. Motors are only represented symbolically on the mounting position sheets.
INFORMATION	
	When the terminal box is in the 3 position, check to see if the gearmotor has to be supported. Not all cable entry positions (0,1,2,3) and terminal box positions (0,1,2,3) can be selected. Some additional features for the motor require a connection inside the terminal box, which means this terminal box is larger than the standard terminal box due to the normative air gaps. The dimension sheets only depict the standard terminal box.

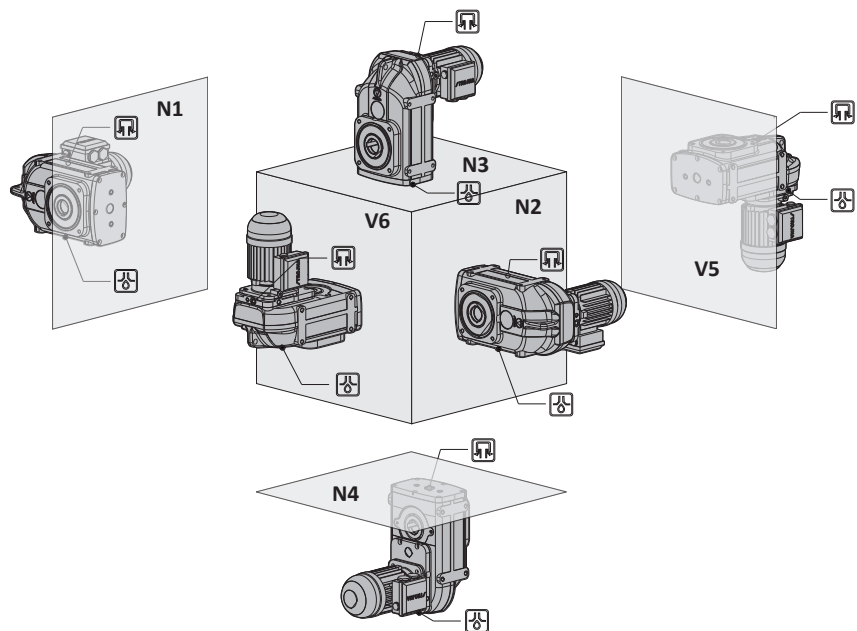
5. Oil type and quantity

Type	Ambient °C	DIN (ISO)	ISO VG	ARAL	CASTROL	*SHELL	MOBIL
FG 	-10°C ... +60°C	CLP	220	Degol BG 220	Alpha SP 220	Omala 220	Mobilgear 600 XP 220
	-20°C ... +80°C	CLP PG	460	Degol GS 460	Alphasyn PG 460	Tivela S 460	Glygoyle 460
ZG 	-25°C ... +60°C	CLP PG	220	Degol GS 220	Alphasyn PG 220	Tivela S 220	Glygoyle 220
	-40°C ... +60°C	CLP HC	220	Degol PAS 220	Alphasyn T 220	Omala S4 GX 220	SHC 630
KG 	-20°C ... +40°C	HCE	220	Eural gear 220	Optileb GT 220	Cassida GL 220	SHC Cibus 220
	-20°C ... +80°C	CLP PG	460	Degol GS 460	Alphasyn PG 460	Tivela S 460	Glygoyle 460
SG 	-25°C ... +60°C	CLP PG	220	Degol GS 220	Alphasyn PG 220	Tivela S 220	Glygoyle 220
	-40°C ... +20°C	CLP-HC	220	Degol PAS 220	Alphasyn T 220	Omala 220 HD	SHC 630
	-20°C ... +40°C	HCE	460	-	-	-	Glygoyle 460

- CLP -Mineral oil 1) Standard lubrication according DIN 51517 - CLP ISO 220
 CLP PG -Polyglycol oil 2) Standard lubrication according DIN 51517 - CLP ISO VG 460
 CLP HC -Polyalphaolefin oil 3) Special starting procedure
 HCE -Lubricants for food processing industry Special lubricants on inquiry

*Standard

FG	Mounting position					
	N1	N2	N3	N4	V5	V6
12	1,1	1,1	1,5	1,6	1,7	1,9
22	1,2	1,2	1,7	1,8	1,9	2,3
23	1,4	1,4	2,0	2,2	2,4	2,9
32	1,9	1,9	3,0	3,1	3,4	4,0
33	2,3	2,3	3,8	4,0	4,3	5,0
42	3,1	3,1	4,2	4,8	4,8	7,0
43	3,5	3,5	5,8	6,2	6,8	7,7
44	3,7	3,7	7,0	7,5	8,0	9,0
52	6,2	6,2	9	9,2	10	12
53	6,5	6,5	9,7	10	12	15
54	6,8	6,8	10	12	13	16
62	10	10	12	13	14	17
63	9,3	9,3	13	14	16	19
64	10	10	14	15	18	22
72	14	14	16	17	19	24
73	15	15	21	24	25	27
74	15,5	15,5	23,5	26	27	33
83	28	28	40	43	46	50
84	29,5	29,5	48	54	56	60
85	31	31	50	58	61	66



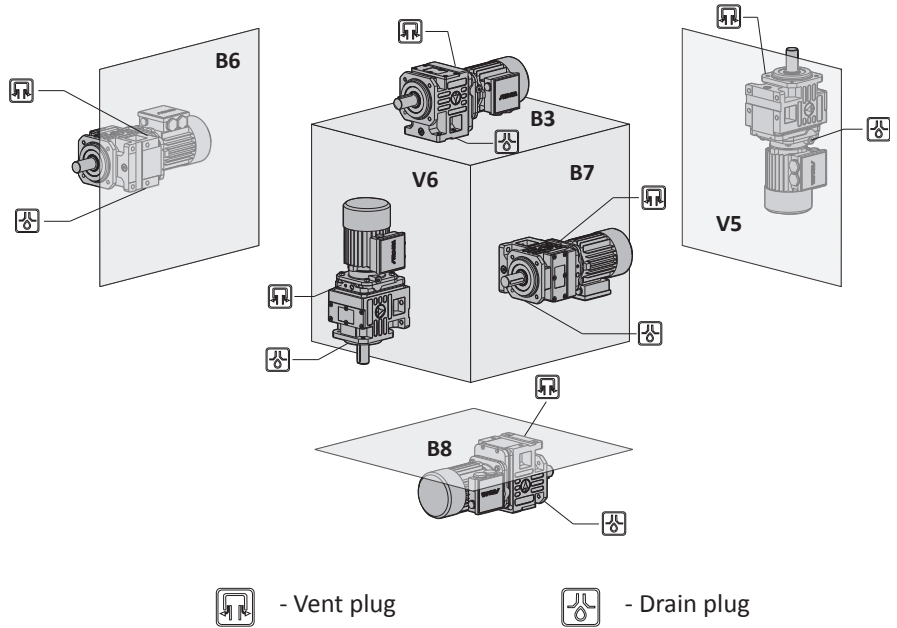
- Vent plug



- Drain plug

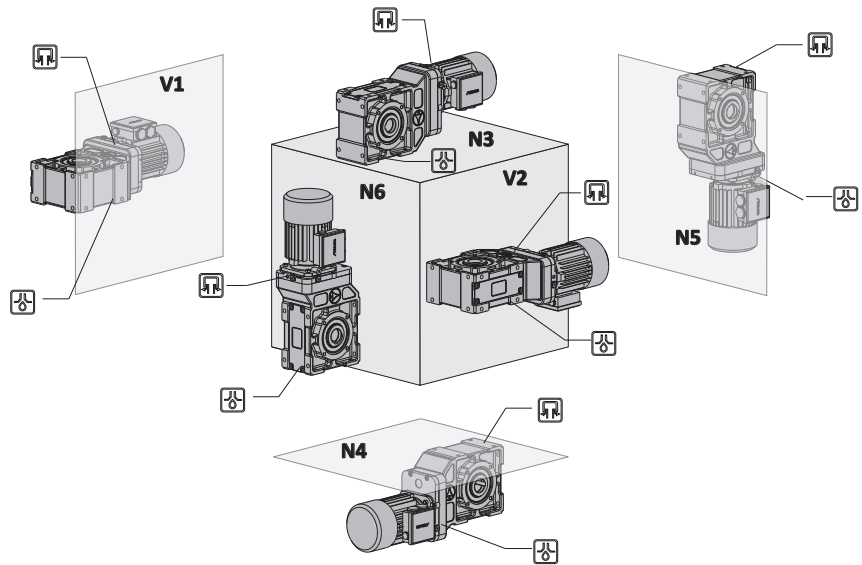
Gear units and geared motors are supplied ready for operation. Gear units sizes FG1, FG2, FG3 are filled with synthetic gear oil labeling according to DIN51502 CLP PG ISO VG220 (according to ISO viscosity grade VG 220 from DIN51519). Sizes from FG4 to FG8 have standard filling with mineral gear oil labeling according to DIN51502 CLP ISO VG220 (according to ISO viscosity grade VG 220 from DIN51519) for ambient temperature -10 °C (14 °F) to +40 °C (104 °F).

ZG	Mounting position					
	B7	B6	B3	B8	V6	V5
12	0,4	0,4	0,2	0,4	0,3	0,4
22	0,8	0,8	0,7	1,4	1,3	1,5
23	0,9	0,9	0,8	1,6	1,5	1,7
32	0,9	0,9	0,7	1,4	1,4	1,6
33	1	1	0,9	1,9	1,8	2
42	1,2	1,2	1	2,1	2	2,2
43	1,4	1,4	1,3	2,7	2,6	2,8
44	1,9	1,9	1,8	3,5	3,4	3,7
52	1,2	1,2	0,9	1,9	1,8	2,2
53	1,6	1,6	1,5	3,2	3,1	3,5
54	2,2	4,4	4,6	5,6	3,7	3,7
62	1,5	1,5	1,2	2,5	2,6	2,7
63	2,1	2,1	1,8	3,5	3,7	3,7
64	2,7	2,7	2,3	4,5	4,6	4,8
72	2,9	2,9	2,1	4,3	4,5	4,5
73	3,6	3,6	3,2	6,4	6,5	6,8
74	4,2	4,2	3,7	7,5	7,5	7,8
82	3,3	3,3	2,7	5,5	5,7	5,9
83	3,9	3,9	3,5	7,2	7,4	7,8
84	5,2	5	4,6	9,3	9,5	10,5
92	8,1	8,1	7	14,4	14,3	15
93	9,3	9,3	8,5	17,5	17,2	18,5
94	10,5	10,5	8,5	18,5	18,5	20
102	11	11,8	10,2	20,6	20,3	22
103	13,8	13,8	12,5	25,6	25,2	27
104	15,7	15,7	14,3	28,5	28,9	31
112	17	17	15,9	32	32,5	33
113	18,4	18,4	17,5	36	37	39
114	24	24	22	45	46	48
122	24	24	22	45	46	46
123	28	28	26	54	56	59
124	36	36	34	68	69	72
132	33	33	31	63	64	65
133	41	41	39	81	83	88
134	55	55	50	101	104	108



Gear units and geared motors are supplied ready for operation. Gear units sizes from ZG1 to ZG6 are filled with synthetic gear oil labeling according to DIN51502 CLP PG ISO VG220 (according to ISO viscosity grade VG 220 from DIN51519). Sizes from ZG7 to ZG13 have standard filling with mineral gear oil labeling according to DIN51502 CLP ISO VG220 (according to ISO viscosity grade VG 220 from DIN51519) for ambient temperature -10 °C (14 °F) to +40 °C (104 °F). Gear units and geared motors are supplied ready for operation. Gear units sizes from ZG1 to ZG6 are filled with synthetic gear oil labeling according to DIN51502 CLP PG ISO VG220 (according to ISO viscosity grade VG 220 from DIN51519). Sizes from ZG7 to ZG13 have standard filling with mineral gear oil labeling according to DIN51502 CLP ISO VG220 (according to ISO viscosity grade VG 220 from DIN51519) for ambient temperature -10 °C (14 °F) to +40 °C (104 °F).

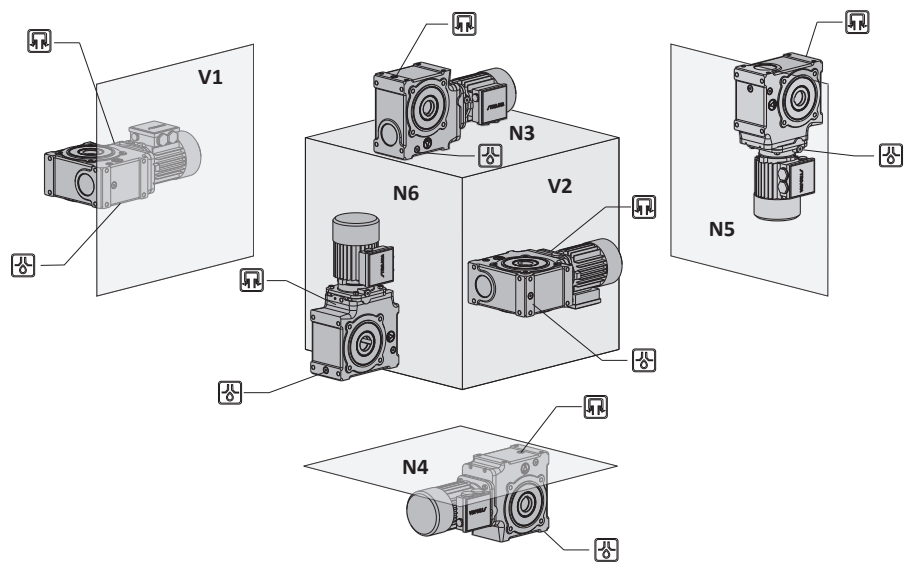
KG	Mounting position					
	N3	N4	N5	N6	V1	V2
12	0,8	0,9	1,2	1,5	1,3	1,4
22	1	1	1,45	1,6	1,5	1,6
23	1	1,1	1,45	1,8	1,7	1,8
32	1,6	1,6	2,2	2,1	2,2	2,2
33	1,7	1,8	2,6	2,8	2,6	2,7
42	2,5	2,6	3,0	4,5	4,5	4,0
43	2,6	2,7	3,3	4,7	4,3	4,4
44	2,8	3,2	3,5	5,0	4,8	4,8
53	3,0	3,8	4,2	5,3	3,2	3,3
54	3,5	4,1	4,7	5,7	3,8	4
55	4,2	4,8	5,3	6,2	5,6	6,0
63	5,0	6,8	7,0	9,2	5,2	5,4
64	5,8	7,5	7,5	9,8	6,0	6,5
65	6,7	8,2	7,9	10,5	7,5	8,0
73	7,8	11	14	16	8	8,2
74	8,5	12	15	17	15	15
75	9,6	12,8	16,5	18,5	17	17
83	17	20	22	28	18	19
84	17	18,5	25	32	20	21
85	20	21,5	26,5	36	23	25
93	35	48	45	67	40	42
94	38	52	48	72	45	47
95	42	56	53	77	52	56



- Vent plug - Drain plug

Gear units and geared motors are supplied ready for operation. Gear units sizes KG1 to KG4 are filled with synthetic gear oil labeling according to DIN51502 CLP PG ISO VG220 (according to ISO viscosity grade VG 220 from DIN51519). Sizes from KG5 to KG9 have standard filling with mineral gear oil labeling according to DIN51502 CLP ISO VG220 (according to ISO viscosity grade VG 220 from DIN51519) for ambient temperature -10 °C (14 °F) to +40 °C (104 °F).

SG	Mounting position					
	N1	N2	N3	N4	N5	N6
12	0,9	0,9	0,9	1,1	1,1	0,9
22	0,9	1,2	1,2	1,2	1,2	1,2
32	1,1	1,6	1,6	1,6	1,6	1,6
33	1,7	1,7	2,5	2,5	2,5	2,9
42	2	2	3,4	3,4	3,4	3,4
43	3,1	3	4,5	4,5	4,5	5,1
52	3,2	3,2	5,5	5,5	5,5	5,5
53	3,5	3,5	6,3	6,3	6,3	6,3
62	5,6	5,6	9	9	9	9,6
63	5,9	5,9	10,3	10,3	10,3	10,3
55	4,4	4,4	4,6	5,6	3,7	3,7
63	6,2	6,2	6,8	8,2	4,8	4,8



- Vent plug - Drain plug

Gear units and geared motors are supplied ready for operation. SG gear units are filled with synthetic gear oil labeling according to DIN51502 CLP PG ISO VG460 (according to ISO viscosity grade VG 460 from DIN51519) for ambient temperature -10 °C (14 °F) to +40 °C (104 °F).

HIP

HELICAL SHAFT MOUNTED GEAR UNITS

Power: 0,25 kW - 22 kW
Torque: 350 - 6.000 Nm
Ratio: 25 - 210





HIP 13

Ratio	63A4	63B4	71A4	71B4	80A4	80B4	90S4	90L4
213,37								
195,82								
180,62								
167,31								
155,58								
135,80								
119,80								
106,58								
95,47								
86,01								
77,85								
70,75								
61,66								
56,44								
51,78								
47,57								
43,77								
38,70								
35,68								
32,91								

Mt max = 390 Nm



HIP 35

Ratio	71A4	71B4	80A4	80B4	90S4	90L4	100L4	100Ld4	112M4
210,91									
181,28									
158,23									
139,80									
124,62									
106,26									
90,69									
77,02									
68,44									
55,53									
47,42									
40,07									
34,05									
29,03									
27,54									

Mt max = 1250 Nm



HIP 57

Ratio	80B4	90S4	90L4	100L4A	100L4B	112M4	132S4	132M4	160M4	160L4	180M4	180L4
209,04												
191,85												
176,95												
163,92												
152,42												
133,05												
117,37												
104,41												
93,53												
84,26												
76,27												
69,31												
60,41												
55,3												
50,72												
46,61												
42,88												
37,92												
34,96												
32,24												

Mt max = 5100 Nm

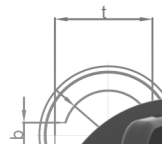
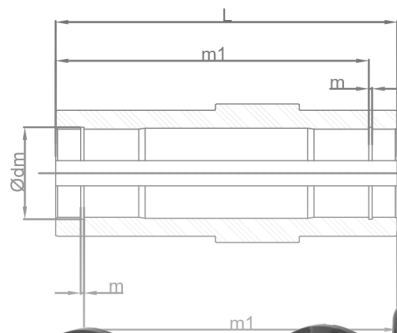
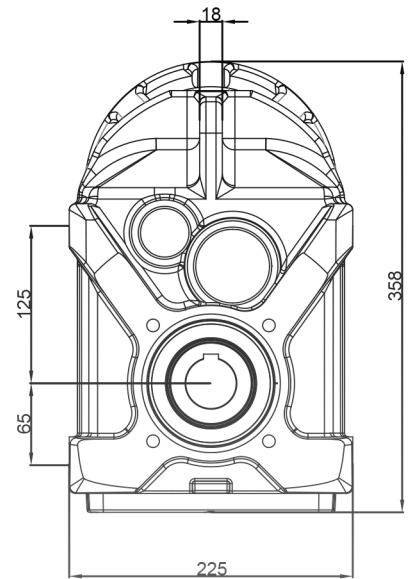
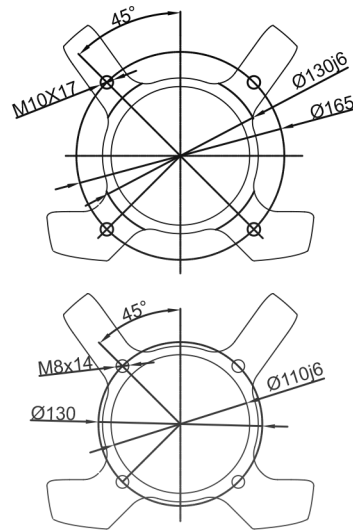
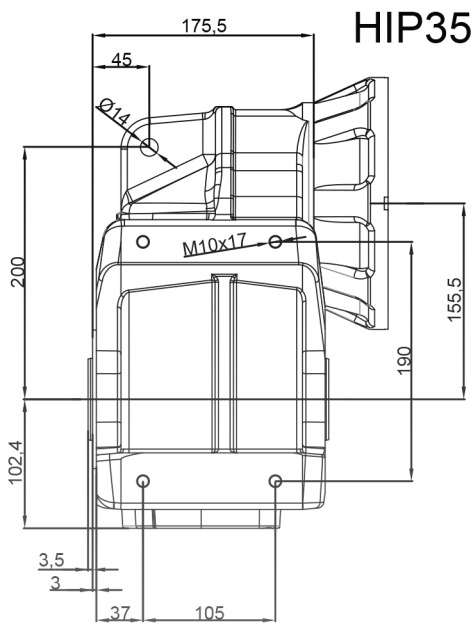




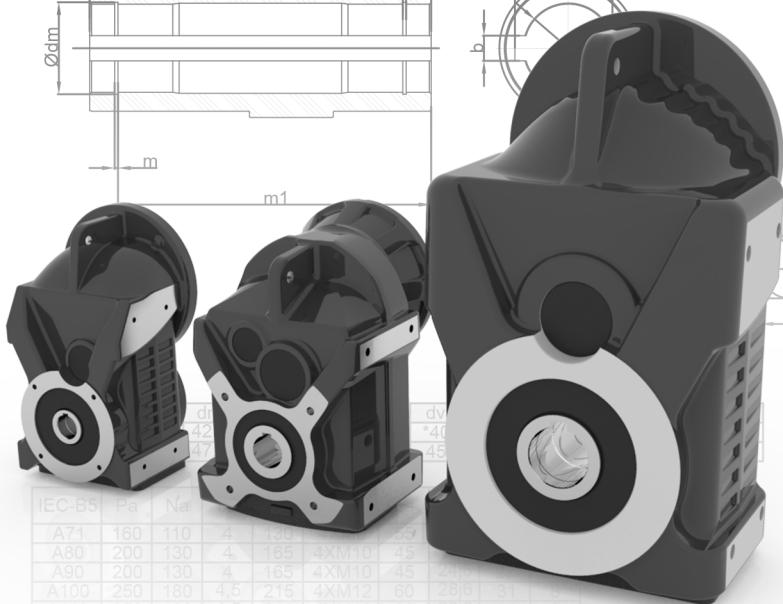
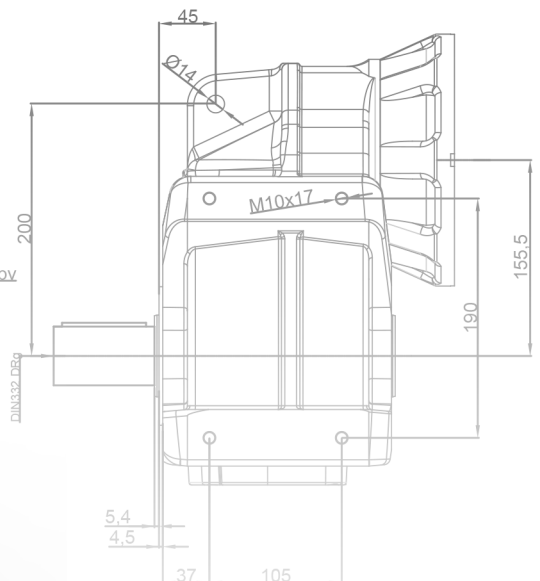
HIP

HELICAL SHAFT MOUNTED GEAR UNITS

Dimension sheets -IEC B5



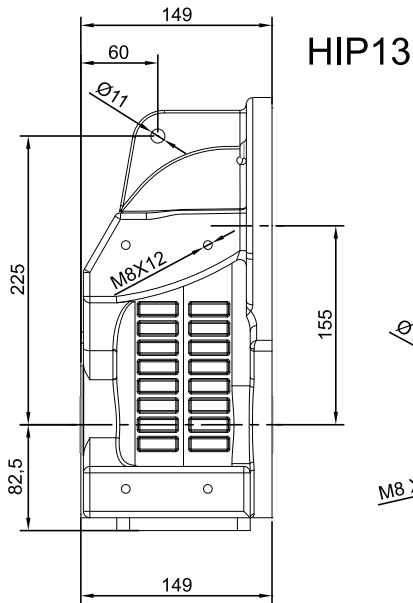
HIP35V



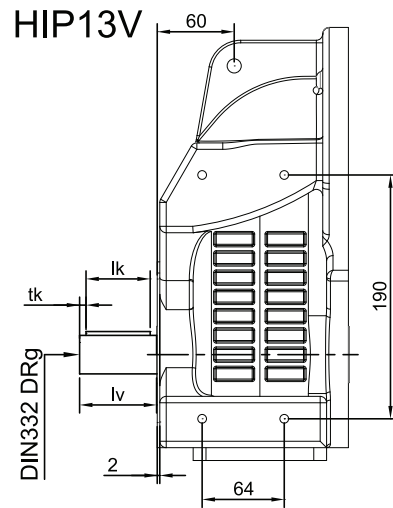
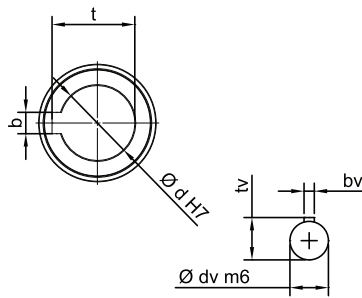
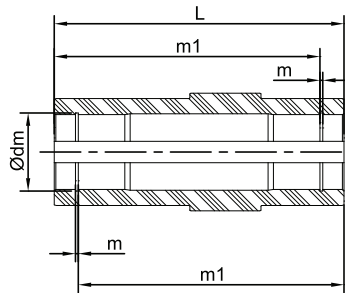
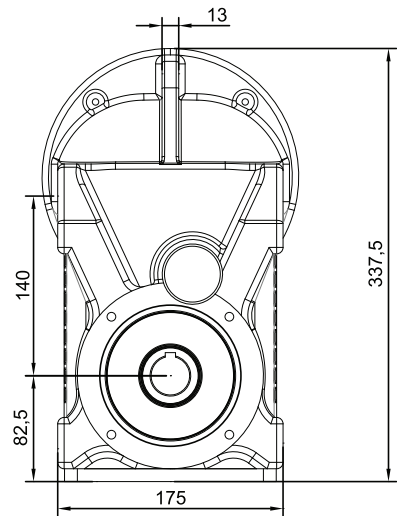
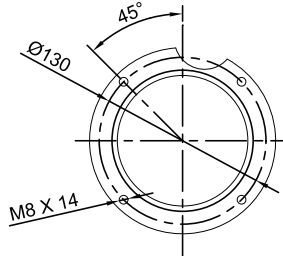
IEC-B5	Pa	Na	d	d _v	b	4	5	6
A71	160	110	4	130	45	4	4	4
A80	200	130	4	165	4XM10	45	4	4
A90	200	130	4	165	4XM10	45	4	4
A100	250	180	4.5	215	4XM12	60	28j6	31
A112	250	180	4.5	215	4XM12	60	28j6	31

Drawings are for reference dimensions only and subject to change.

We reserve the right to change technical data or dimensions due to modifications.



HIP13

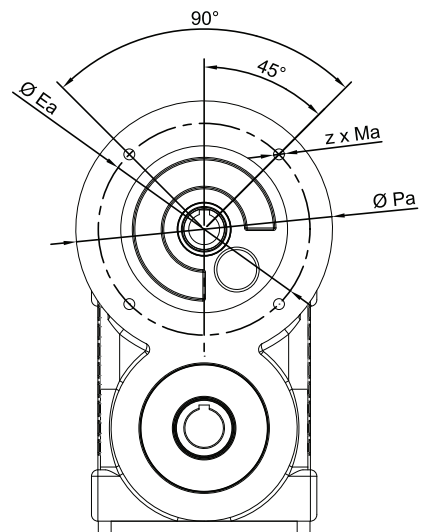
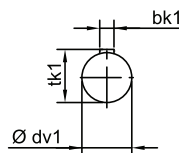
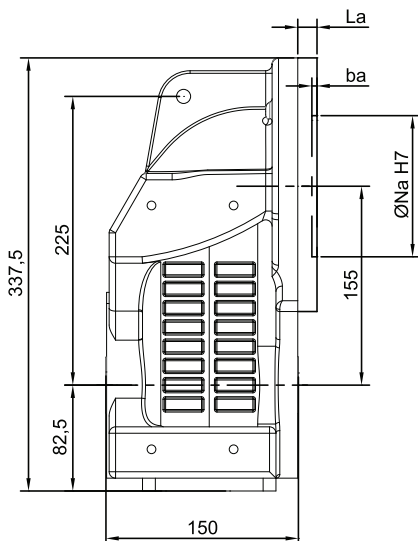


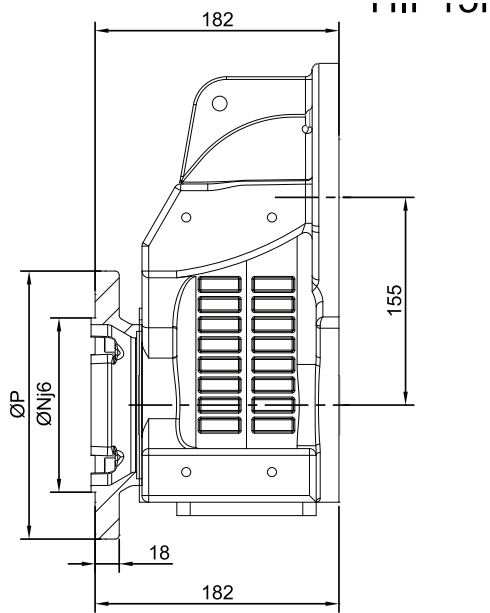
HIP13V

d	L	m1	dm	m	t	b
30	150	134	31,4	1,3	33,3	8
35	150	134	37	1,6	38,3	10

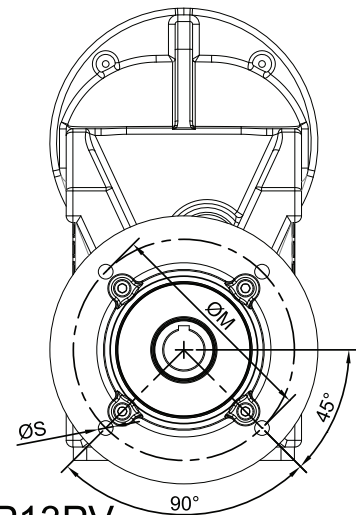
dv	tv	bv	lv	lk	tk	g
30	33	8	60	50	5	M10
35	38	10	70	50	5	M12

IEC-B5	Pa	Na	ba	Ea	zxMa	La	dv1	tk1	bk1
A63	140	95	3,5	115	4XM8	15	11/6	12,5	4
A71	160	110	4	130	4XM8	15	14/6	16	5
A80	200	130	4	165	4XM10	0	19/6	21,5	6
A90	200	130	4	165	4XM10	0	24/6	27	8

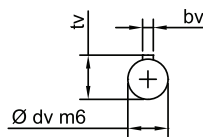
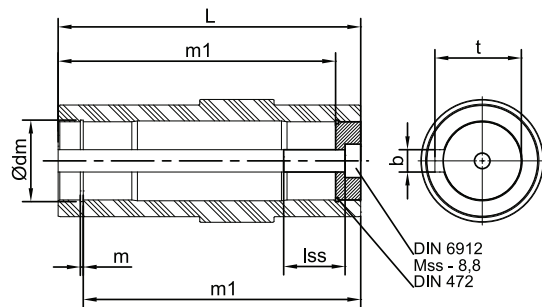




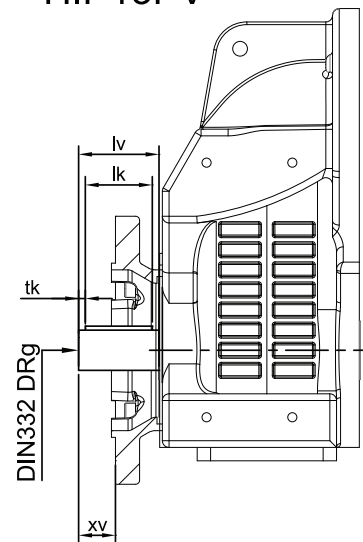
DIN42948	P	N	M	T	B	S
*A200	200	130	165	3	30	11
A250	250	180	215	4	30	14



HIP13PV



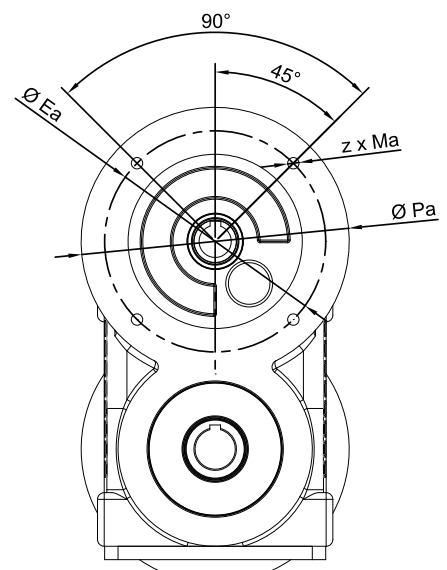
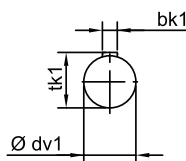
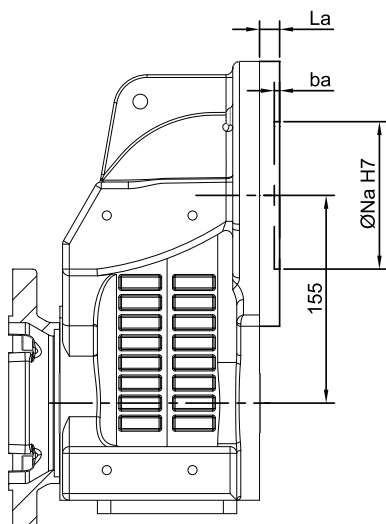
DIN 6912
Mss - 8,8
DIN 472

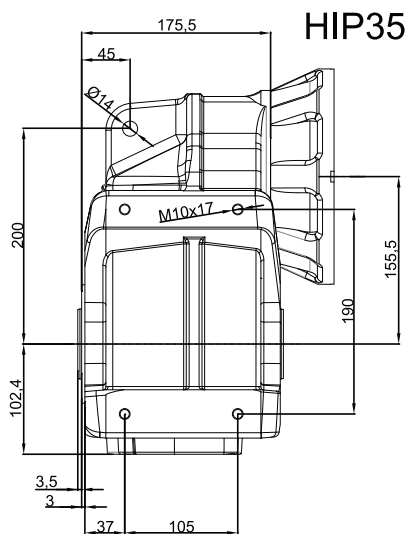


d	L	m1	lss	Mss	t	b
30	150	134	25	M10	33,3	8
35	150	134	30	M12	38,3	10

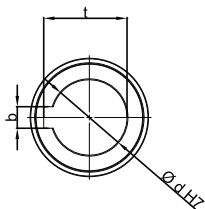
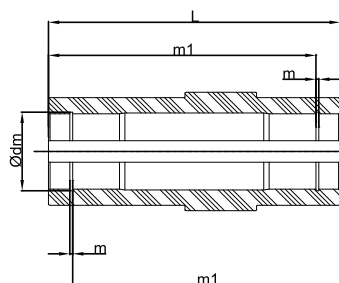
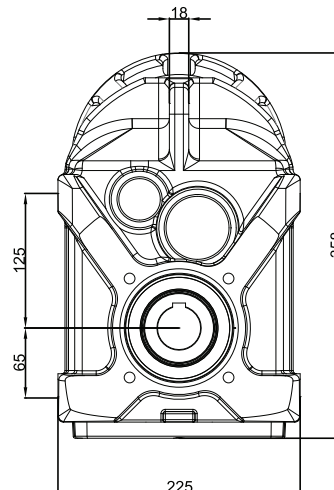
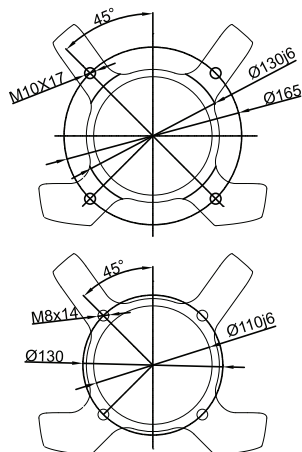
dv	tv	bv	lv	lk	tk	g	xv
30	33	8	60	50	5	M10	27,5
*35	38	10	70	50	5	M12	37,5

IEC-B5	Pa	Na	ba	Ea	zxMa	La	dv1	tk1	bk1
A63	140	95	3,5	115	4XM8	15	11j6	12,5	4
A71	160	110	4	130	4XM8	15	14j6	16	5
A80	200	130	4	165	4XM10	0	19j6	21,5	6
A90	200	130	4	165	4XM10	0	24j6	27	8

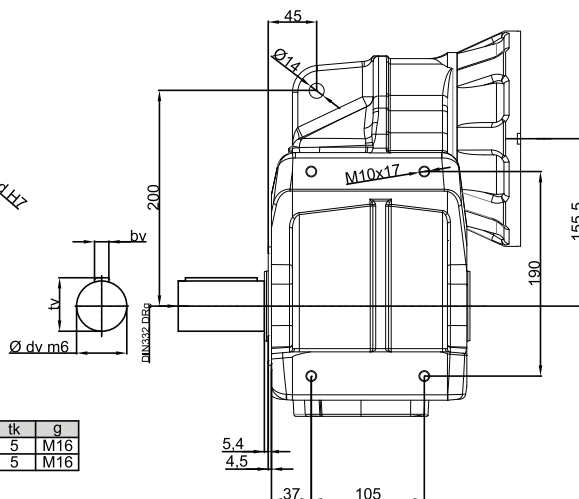




HIP35



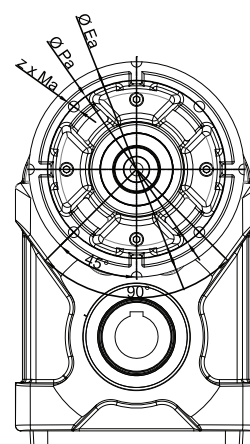
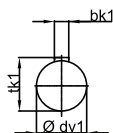
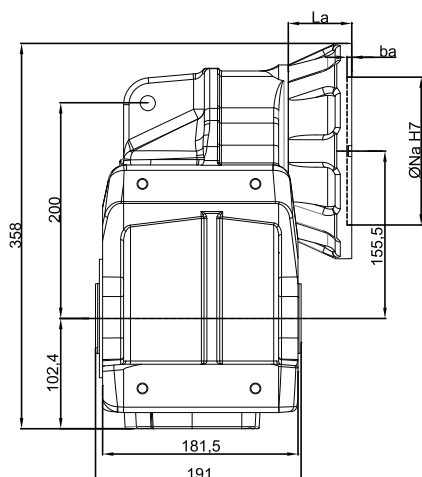
HIP35V



d	L	m1	dm	m	t	b
*40	191	179	42,5	1,85	43,3	12
45	191	179	47,5	1,85	48,8	14

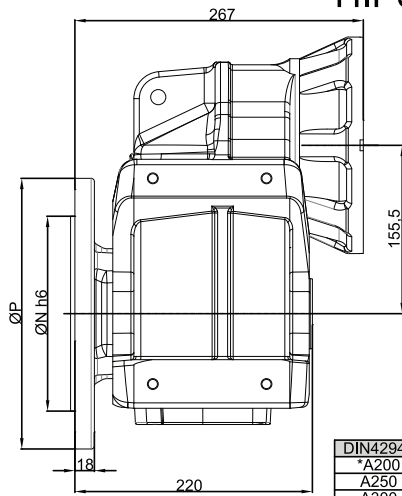
dv	tv	bv	lv	lk	tk	g
*40	43	12	80	70	5	M16
45	48,5	14	90	80	5	M16

IEC-B5	Pa	Na	ba	Ea	zxMa	La	dv1	tk1	bk1
A71	160	110	4	130	4XM8	55	14j6	16	5
A80	200	130	4	165	4XM10	45	19j6	21,5	6
A90	200	130	4	165	4XM10	45	24j6	27	8
A100	250	180	4,5	215	4XM12	60	28j6	31	8
A112	250	180	4,5	215	4XM12	60	28j6	31	8

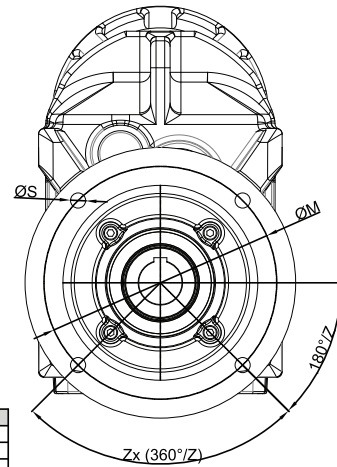




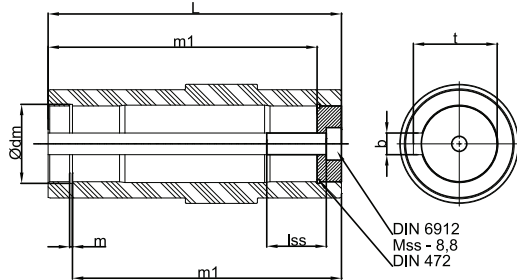
HIP35P



DIN42948	P	N	M	T	B	Z	S
*A200	200	130	165	3	30	4	11
A250	250	180	215	4	30	4	14
A300	300	230	265	4	50	4	14



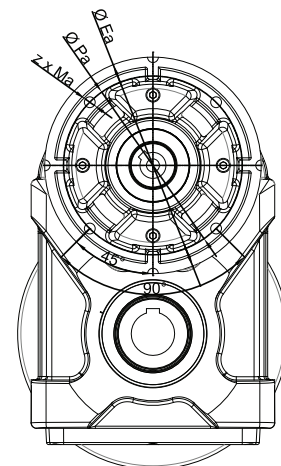
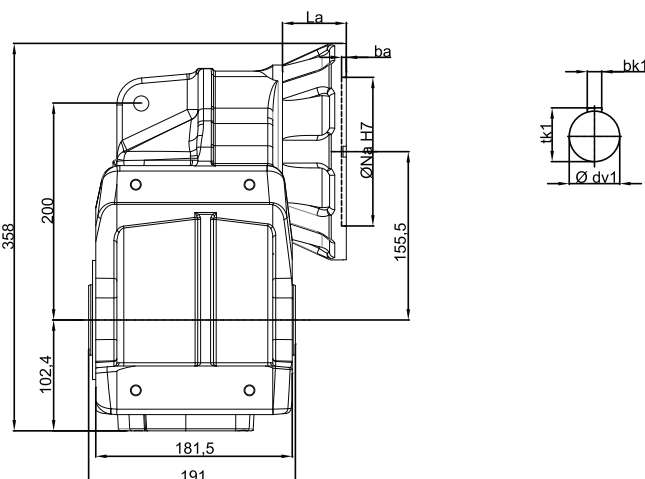
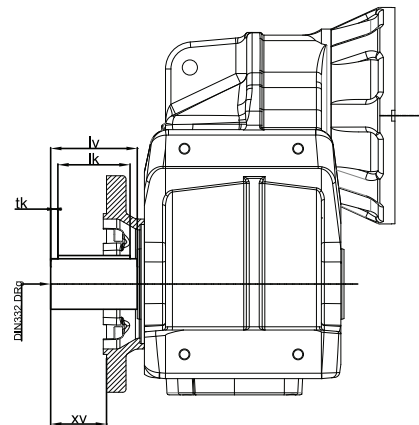
HIP35PV

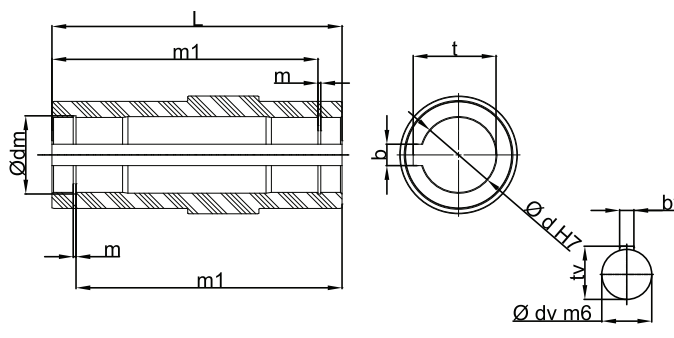
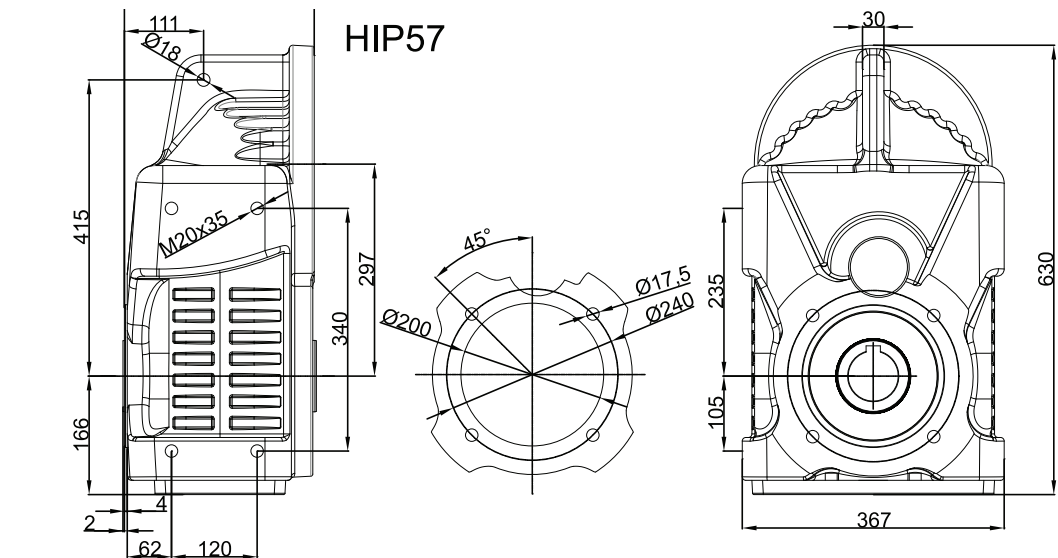


DIN 6912
Mss - 8,8
DIN 472

d	L	m1	lss	Mss	t	b	dv	tv	bv	lv	lk	tk	g	xv
*40	191	179	40	M16	43,3	12	*40	43	12	80	70	5	M16	30
45	150	179	40	M16	48,8	14	45	48,5	14	90	80	5	M16	40

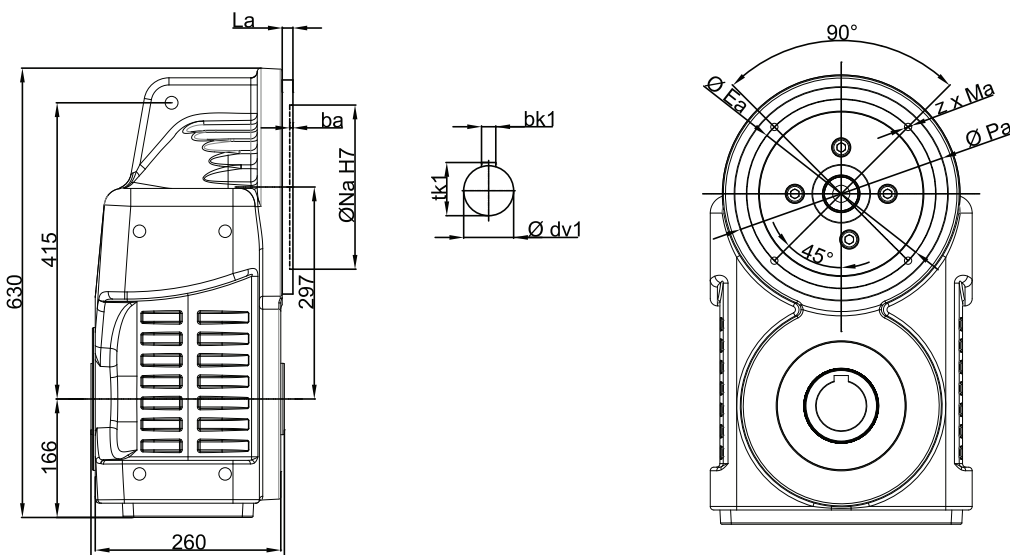
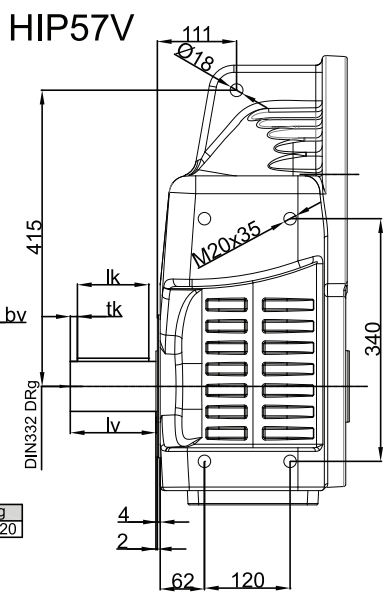
IEC-B5	Pa	Na	ba	Ea	zxMa	La	dv1	tk1	bk1
A71	160	110	4	130	4XM8	55	14/6	16	5
A80	200	130	4	165	4XM10	45	19/6	21,5	6
A90	200	130	4	165	4XM10	45	24/6	27	8
A100	250	180	4,5	215	4XM12	60	28/6	31	8
A112	250	180	4,5	215	4XM12	60	28/6	31	8

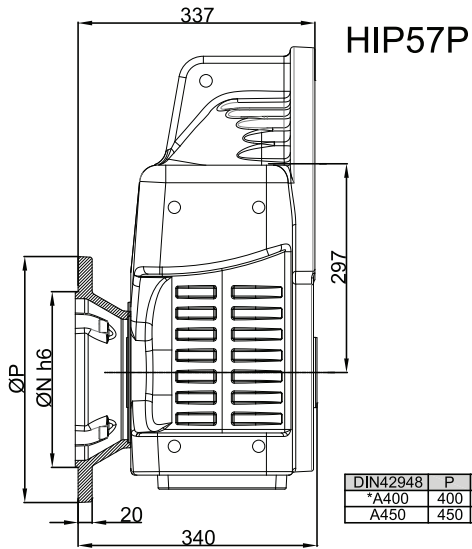




d	L	m1	dm	m	t	b	dv	tv	bv	lv	lk	tk	g
*70	270	248,5	73	2,65	74,9	20	*70	74,5	20	120	100	10	M20

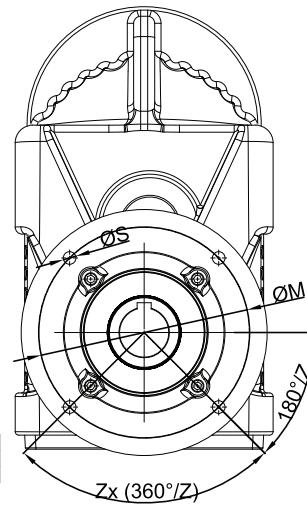
IEC-B5	Pa	Na	ba	Ea	zxMa	La	dv1	tk1	bk1
A80	200	130	4	165	4XM10	8,5	19/6	21,5	6
A90	200	130	4	165	4XM10	8,5	24/6	27	8
A100	250	180	4,5	215	4XM12	16	28/6	31	8
A112	250	180	4,5	215	4XM12	16	28/6	31	8
A132	300	230	4,5	265	4XM12	20	38k6	41	10
A160	350	250	4,5	300	4XM16	45	42k6	45	12
A180	350	250	5,5	300	4XM16	45	48k6	51,5	14



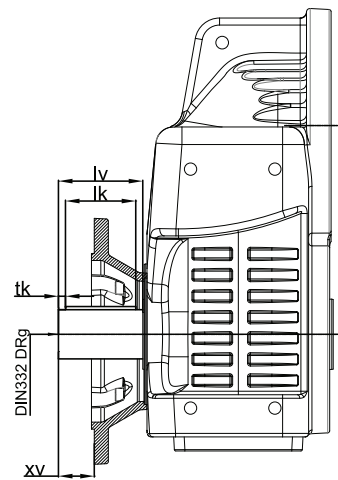
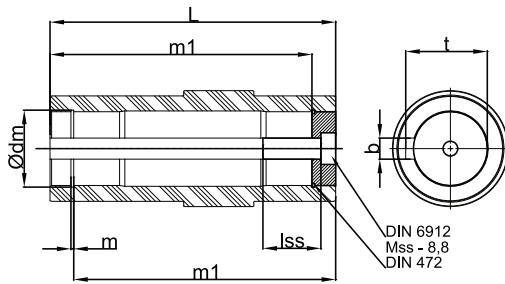


HIP57P

DIN42948	P	N	M	T	B	Z	S
*A400	400	300	350	5	74	4	18
A450	450	350	400	5	74	8	18

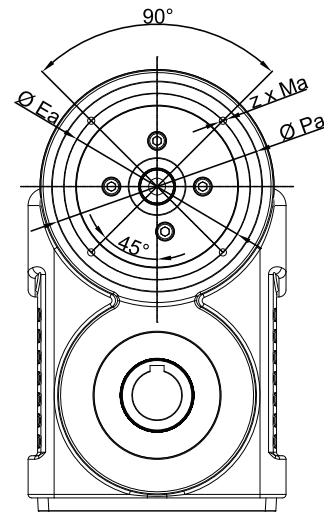
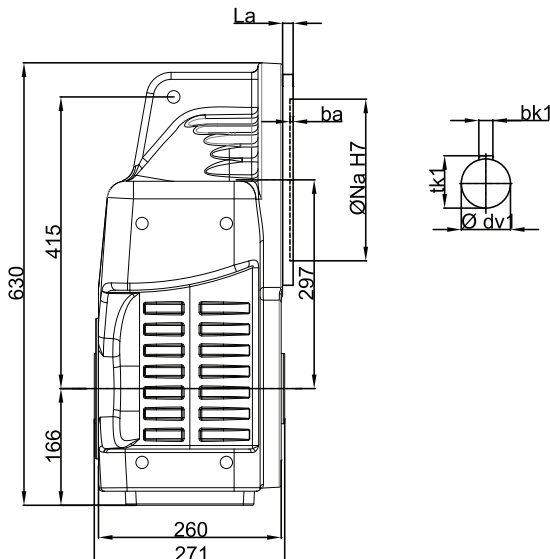


HIP57PV



d	L	m1	lss	Mss	t	b	dv	lv	bv	lv	lk	tk	g	xv
*70	270	248,5	55	M20	74,9	20	*70	74,5	20	120	100	10	M20	51

IEC-B5	Pa	Na	ba	Ea	zxMa	La	dv1	tk1	bk1
A80	200	130	4	165	4XM10	8,5	19j6	21,5	6
A90	200	130	4	165	4XM10	8,5	24j6	27	8
A100	250	180	4,5	215	4XM12	16	28j6	31	8
A112	250	180	4,5	215	4XM12	16	28j6	31	8
A132	300	230	4,5	265	4XM12	20	38k6	41	10
A160	350	250	4,5	300	4XM16	45	42k6	45	12
A180	350	250	5,5	300	4XM16	45	48k6	51,5	14

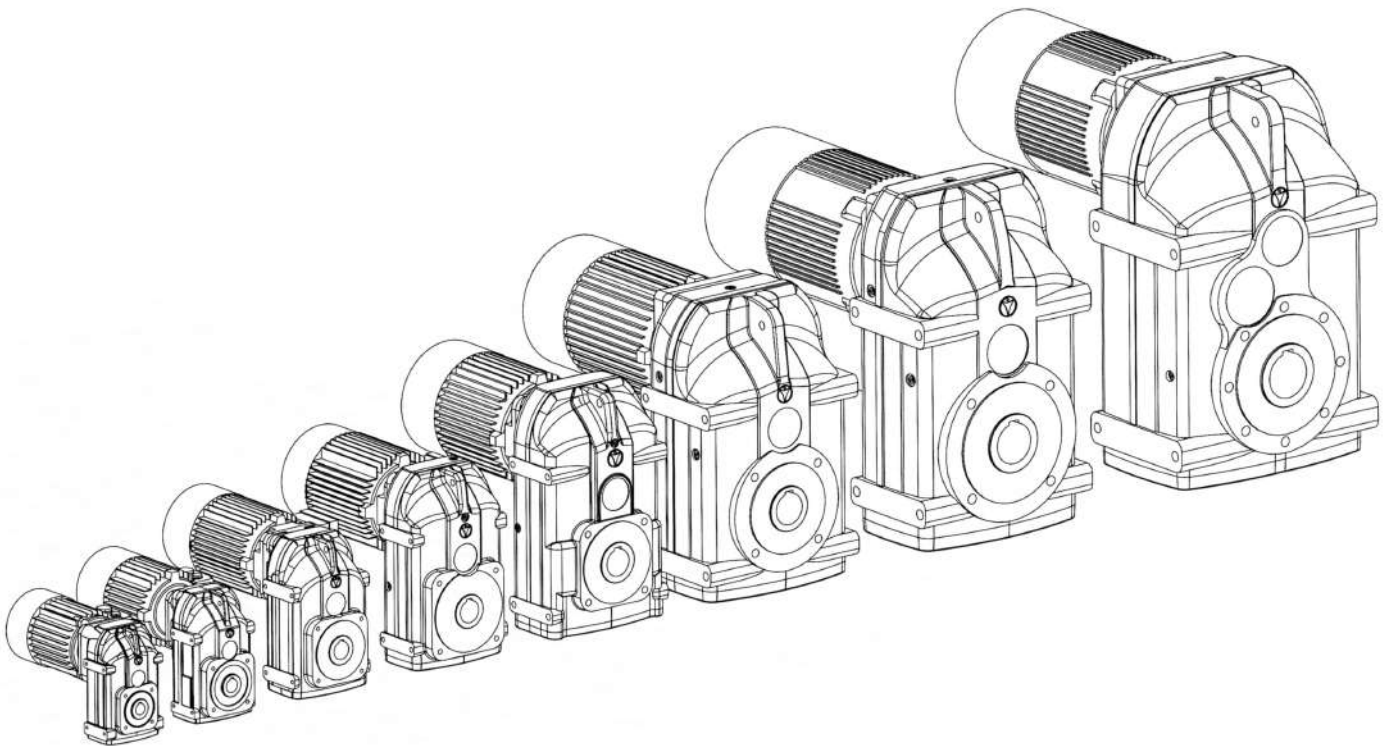




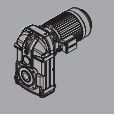
FG

HELICAL SHAFT MOUNTED GEAR UNITS

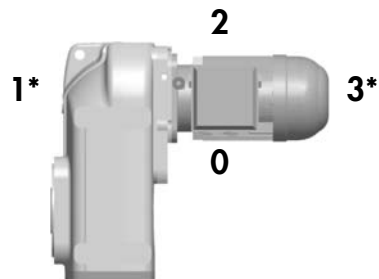
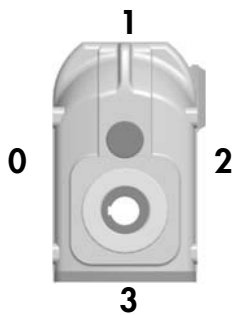
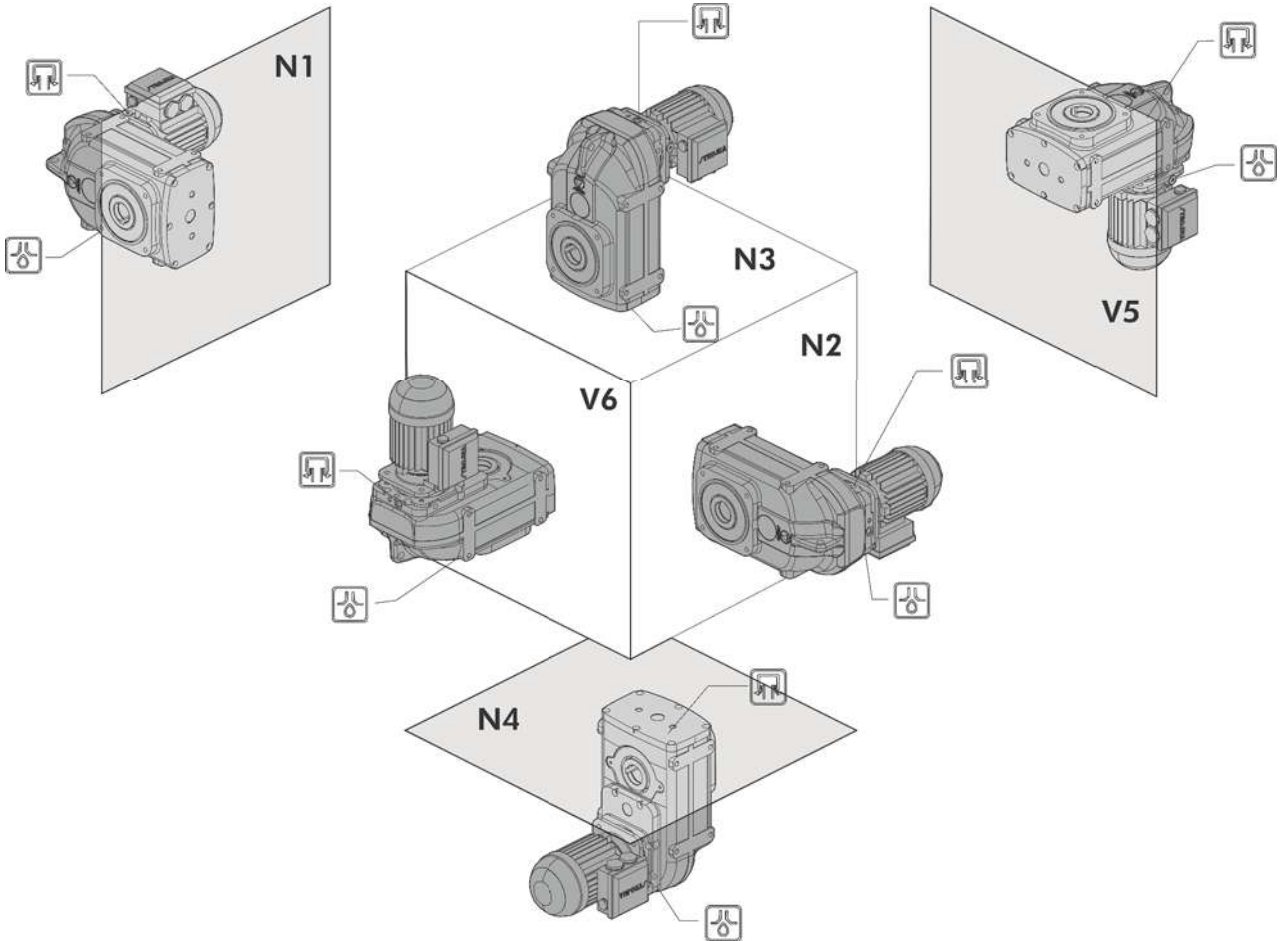
Power: 0,12 kW - 55 kW
Torque: 210 - 13.500 Nm
Ratio: 3,6 - 8158



Mounting position FG

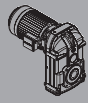


-  Vent plug
-  Drain plug



*Check for availability

Gear unit design



FG...SMB/SMR



FG...P...



FG...D...



FG...PD...



FG...V...



FG...PV...

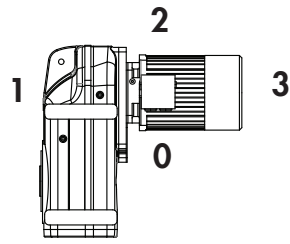
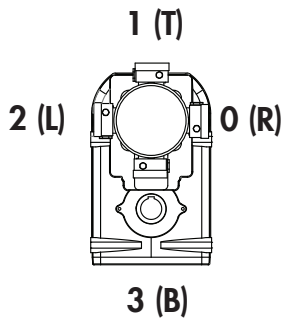
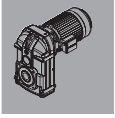


FG...Z...

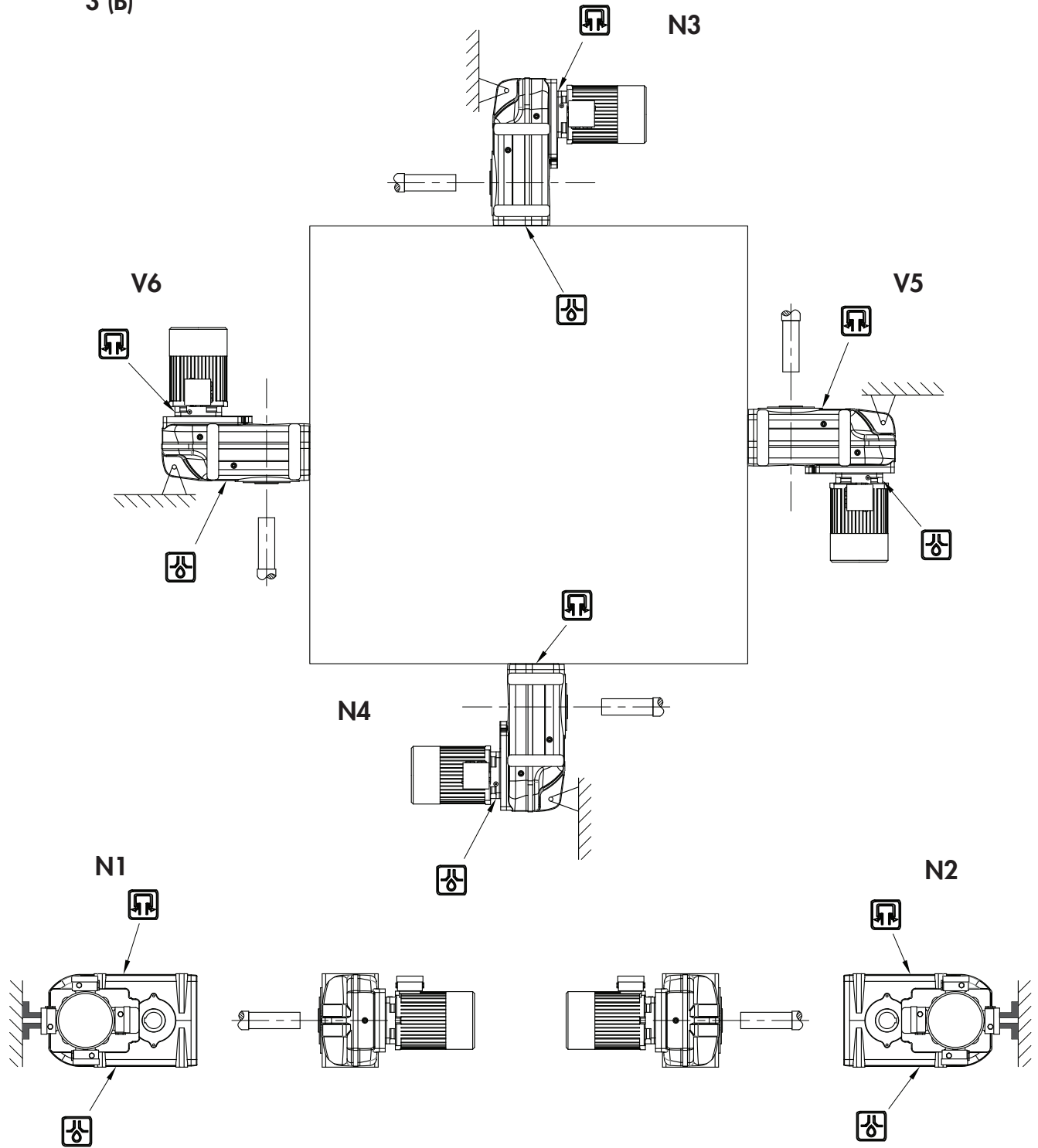


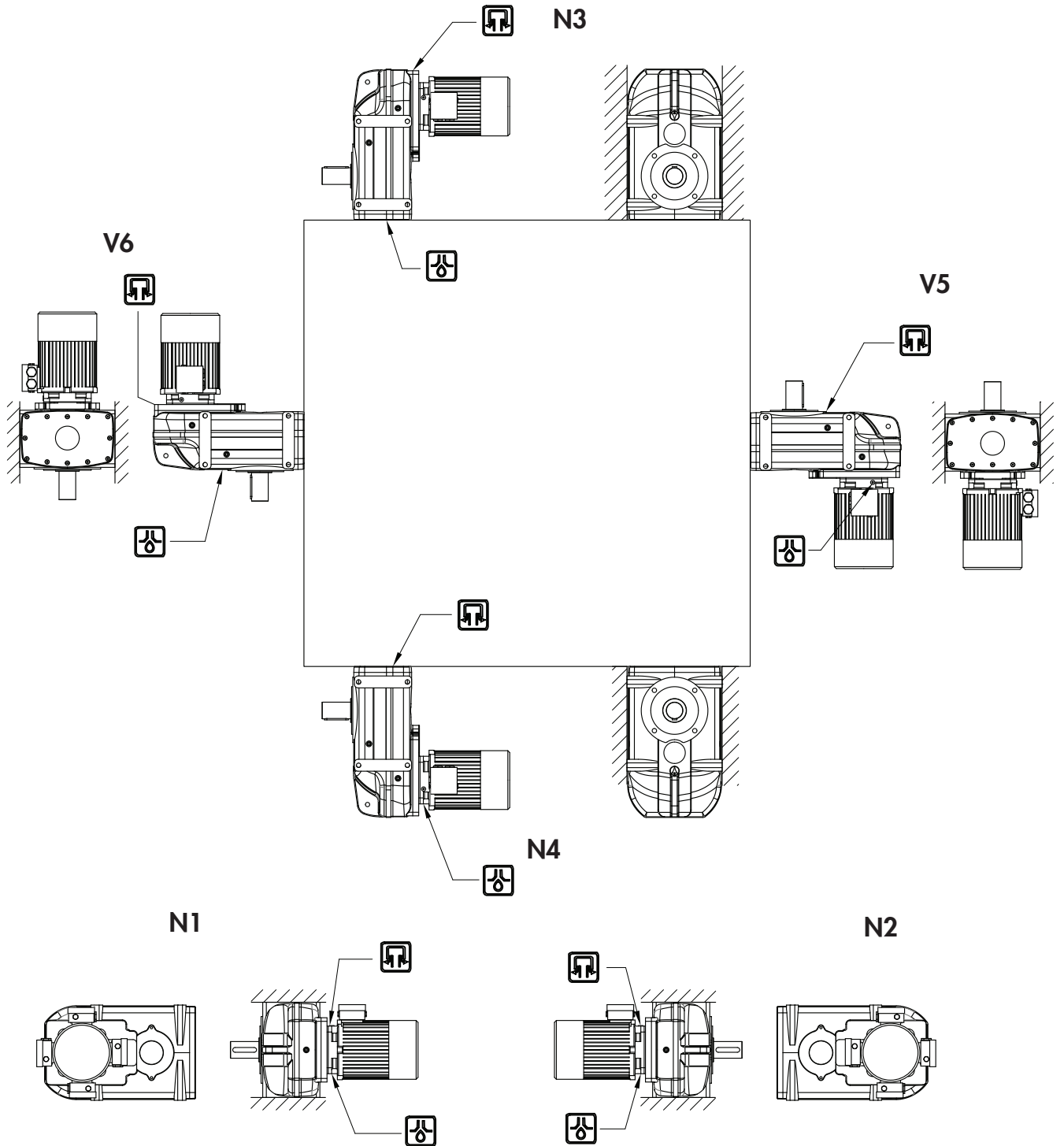
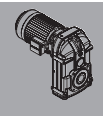
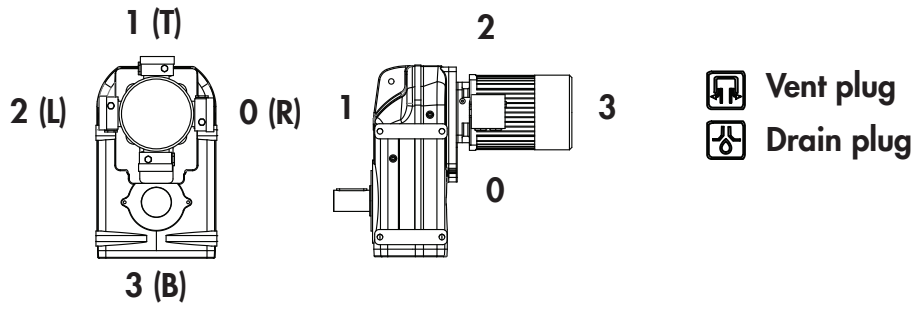
FG...PZ...

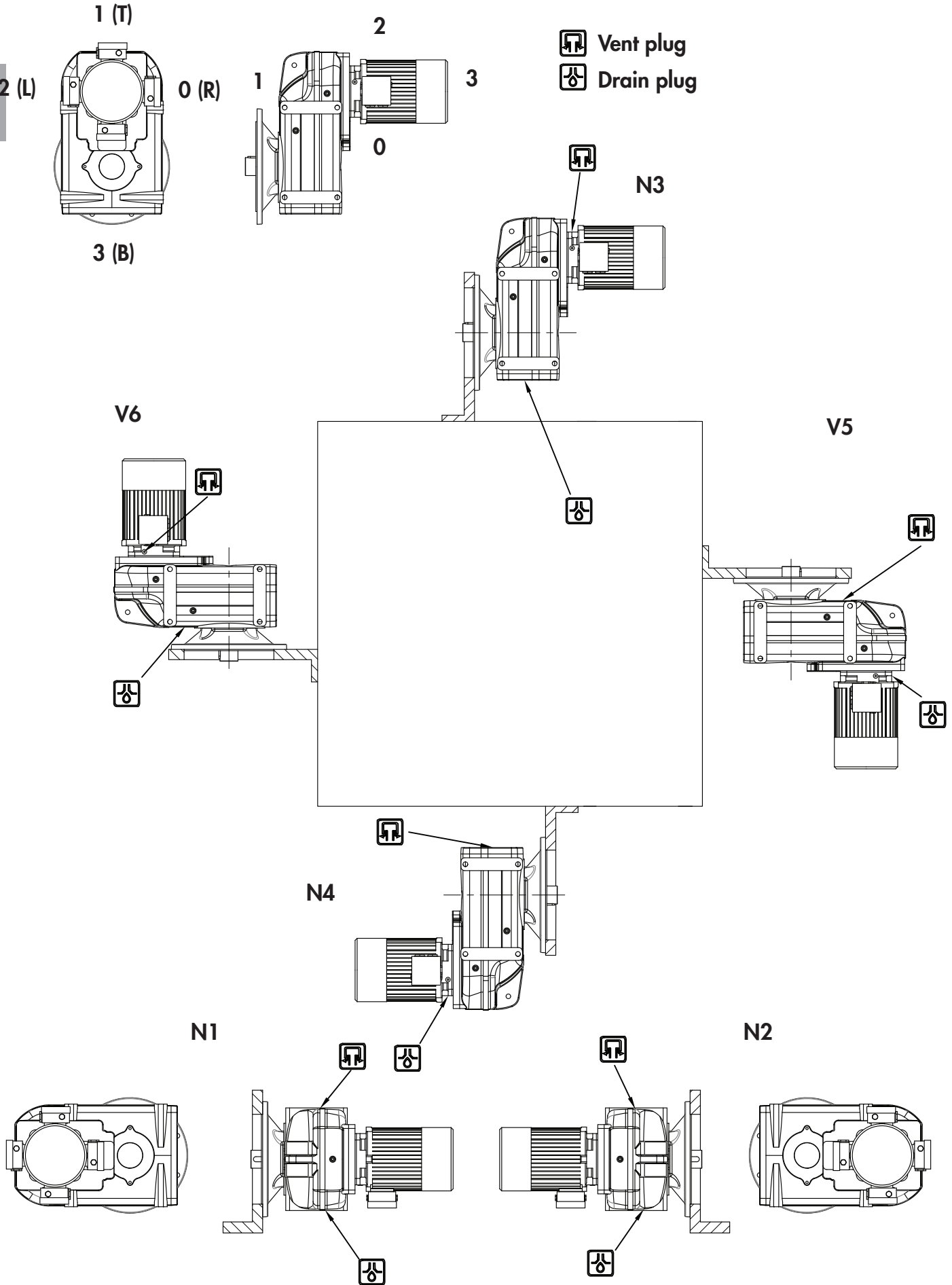
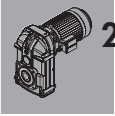


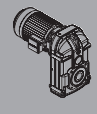


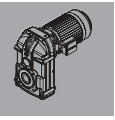
 Vent plug
 Drain plug



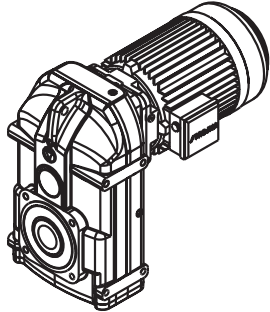
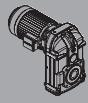








Structure of selection tables



FG

HELICAL SHAFT MOUNTED GEAR UNITS

Gear unit type
Motor frame size

FG12																
Mt _{2max} [Nm]	(F _r =0)	(F _r =0)	j _t [']	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
210	7,1	7,3	8,9	94,16												

Total ratio
Backlash
Permissible radial load
Permissible axial load
Permissible output torque



FG12																
Mt _{zmax} [Nm]	(F _r =0) Fa [kN]	(F _r =0) Fr [kN]	j _t [']	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
210	7,1	7,3	8,9	94,16												
210	7,3	7,3	8,9	83,67												
210	6,5	7,3	8,9	77,04												
210	6,6	7,3	8,9	69,73												
210	6,4	7,3	8,9	61,89												
210	5,9	7,3	9,6	53,64												
210	5,8	7,3	9,6	48,27												
210	5,7	7,3	9,6	43,73												
210	5,5	7,3	9,6	39,84												
210	5,1	7,3	9,6	35,76												
210	5	7,3	9,6	33,83												
210	4,8	7,3	9,6	29,50												
210	4,7	7,3	9,6	25,48												
210	4,6	7,3	9,8	22,72												
210	4,6	7,3	9,9	20,26												
210	4,5	7,3	10,2	18,24												
210	4,3	7,3	10,2	16,92												
210	4,2	7,3	10,2	14,56												
210	3,7	7,3	10,2	12,11												
210	3,7	7,3	10,4	10,73												
83	5	7,3	14,1	31,98												
103	4,8	7,3	14,1	28,41												
106	4,7	7,3	14,1	26,16												
106	4,7	7,3	14,1	23,68												
105	4,6	7,3	14,1	21,02												
104	4,5	7,3	14,3	18,21												
103	4,4	7,3	14,5	16,39												
103	4,2	7,3	14,7	14,85												
102	4,1	7,1	14,7	13,53												
101	4	7	14,7	12,14												
101	3,7	6,7	14,7	11,49												
100	3,7	6,4	15,2	10,02												
99	3,6	6,1	15,2	8,65												
97	3,5	6	15,5	7,71												
95	3,4	5,8	15,8	6,88												
92	3,2	5,6	16,2	6,19												
89	3,1	5,5	16,2	5,74												
84	3	5,3	16,2	4,94												
76	2,9	5	16,2	4,11												
70	2,6	4,5	16,6	3,64												

FG23																
Mt _{zmax} [Nm]	(F _r =0)	(F _r =0)	j _t [']	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
420	7,9	11,6	9,6	456,76												
420	8	11,6	9,6	405,88												
420	8,5	11,6	9,6	373,72												
420	9,4	11,6	9,6	338,24												
420	9,9	11,6	9,6	300,21												
420	10	11,6	9,6	260,18												
420	10	11,6	9,6	234,16												
420	10,1	11,6	9,6	212,15												
420	10,4	11,6	9,6	193,28												
420	10,5	11,6	9,6	173,45												
420	10,5	11,6	9,6	164,11												
420	11	11,6	9,6	143,10												
420	11	11,6	9,6	123,59												
420	11,1	11,6	9,6	110,19												
420	11,1	11,6	9,6	98,29												
420	11,1	11,6	9,8	88,46												
420	11,1	11,6	9,8	82,06												
420	11,1	11,6	9,8	70,62												
420	11,1	11,6	9,8	58,75												
420	11,1	11,6	9,8	52,04												





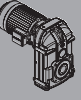
FG22																
Mt _{zmax} [Nm]	(F _r =0) Fa [kN]	(F _r =0) Fr [kN]	j _t [°]	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
279	10,2	11,6	9	108,00												
383	10,2	11,6	9	96,22												
420	10,2	11,6	9	86,58												
420	10,1	11,6	9	80,18												
420	10,1	11,6	9	73,26												
420	10	11,6	9	62,48												
420	10	11,6	9	56,45												
420	9,9	11,6	9,2	51,36												
420	9,7	11,6	9,2	46,99												
420	9,5	11,6	9,3	44,18												
420	9,3	11,6	9,3	40,03												
420	8,3	11,6	9,3	35,18												
420	7,5	11,6	9,3	30,68												
420	7,4	11,6	9,3	28,30												
420	7,3	11,6	9,3	26,18												
420	7,2	11,6	9,3	22,58												
420	7	11,6	9,4	21,52												
420	6,8	11,6	9,5	19,29												
420	6,6	11,6	9,5	16,47												
420	6,5	11,6	9,5	14,15												
420	6,4	11,6	9,6	12,21												
420	6	11,6	9,8	10,06												
150	10,3	11,6	10,1	57,89												
251	9,9	11,6	10,3	51,58												
264	9,6	11,6	10,3	46,41												
317	9,3	11,6	10,3	42,98												
317	8,9	11,6	10,3	39,27												
316	8,5	11,6	10,3	33,49												
316	8,3	11,6	10,3	30,26												
316	7,9	11,6	10,3	27,53												
315	7,7	11,6	10,4	25,19												
315	7,5	11,6	10,5	23,68												
314	7,2	11,6	10,5	21,46												
313	7	11,6	10,5	18,86												
311	7	11,6	10,5	16,45												
310	6,9	11,6	10,5	15,17												
309	6,9	11,6	10,5	14,04												
306	6,8	11,2	11,3	12,11												
304	6,7	10,9	11,3	11,54												
303	6,5	10,7	11,3	10,34												
300	6,1	10,2	11,3	8,83												
296	5,9	9,7	11,3	7,59												
292	5,6	9,3	11,6	6,54												
276	5,3	8,7	12	5,39												

FG33																
Mt _{zmax} [Nm]	(F _r =0) Fa [kN]	(F _r =0) Fr [kN]	j _t [']	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
820	12,1	20,3	7,4	715,02												
820	12,5	20,3	7,4	635,38												
820	12,8	20,3	7,4	585,02												
820	13	20,3	7,4	529,48												
820	13,1	20,3	7,4	469,95												
820	13,2	20,3	7,4	407,29												
820	13,3	20,3	7,4	366,56												
820	13,4	20,3	7,4	332,10												
820	13,5	20,3	7,4	302,56												
820	13,6	20,3	7,4	271,53												
820	13,7	20,3	7,4	256,91												
820	13,8	20,3	7,4	224,01												
820	13,9	20,3	7,4	193,46												
820	13,9	20,3	7,4	172,50												
820	13,8	20,3	7,4	153,87												
820	13,7	20,3	7,4	138,48												
820	13,6	20,3	7,4	128,45												
820	13,6	20,3	7,4	110,55												
820	13,6	20,3	7,4	91,97												
820	13,5	20,3	7,6	81,46												





FG32																
Mt _{zmax} [Nm]	(F _r =0) Fa [kN]	(F _r =0) Fr [kN]	j _t [°]	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
590	9,9	20,3	7,2	111,52												
786	10,1	20,3	7,2	101,42												
820	10,6	20,3	7,2	94,36												
820	10,8	20,3	7,2	81,02												
820	11	20,3	7,2	73,47												
820	11,6	20,3	7,2	68,56												
820	12	20,3	7,2	62,29												
820	12,6	20,3	7,2	56,70												
820	12,9	20,3	7,2	51,60												
820	13,3	20,3	7,2	45,52												
820	13,1	20,3	7,2	41,33												
820	12,9	20,3	7,3	37,77												
820	12,8	20,3	7,4	35,67												
820	12,7	20,3	7,4	31,15												
820	12,5	20,3	7,4	27,69												
820	12,3	20,3	7,4	25,22												
820	11,7	17,8	7,4	21,90												
820	11,5	17,4	7,4	19,17												
820	11,3	16,7	7,4	15,85												
820	11	16,7	7,4	13,22												
820	10,4	14,4	8	11,08												
820	9,9	14,4	8	9,86												
330	13,5	20,3	8,2	62,25												
439	13,4	20,3	8,2	56,62												
486	13,2	20,3	8,2	52,68												
540	13	20,3	8,2	45,23												
591	12,8	20,3	8,2	41,02												
647	12,6	20,3	8,2	38,27												
652	12,5	20,3	8,2	34,78												
662	12,4	20,3	8,2	31,65												
661	12,4	20,2	8,2	28,81												
657	12,2	20,2	8,4	25,41												
650	12	18,9	8,4	23,07												
648	12	18,2	8,4	21,09												
646	11,9	17,4	8,4	19,91												
644	11,8	17,4	8,4	17,39												
643	11,7	17,4	8,4	15,46												
642	11,6	17,4	8,4	14,08												
638	11,4	16,7	8,4	12,23												
633	11	16,1	9,2	10,70												
624	10,4	15,2	9,2	8,85												
613	9,9	14,4	9,6	7,38												
608	9,5	13,9	9,6	6,19												
605	9,5	13,9	9,6	5,50												



FG44																
Mt _{zmax} [Nm]	(F _r =0) Fa [kN]	(F _r =0) Fr [kN]	j _t [']	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
1550	*	*	6,5	1946,55												
1550	*	*	6,5	1751,89												
1550	*	*	6,5	1587,18												
1550	*	*	6,5	1446,01												
1550	*	*	6,5	1297,70												
1550	9	24,5	6,5	1227,82												
1550	12,6	24,5	6,5	1070,60												
1550	14,7	24,5	6,5	924,61												
1550	16,2	24,5	6,5	824,42												
1550	17,1	24,5	6,5	735,36												
1550	17,1	24,5	6,5	661,83												
1550	17,1	24,5	6,5	613,91												
1550	17,1	24,5	6,5	528,35												
1550	17,1	24,5	6,5	439,54												
1550	17,1	24,5	6,5	389,31												

FG43																
Mt _{zmax} [Nm]	(F _r =0) Fa [kN]	(F _r =0) Fr [kN]	j _t [']	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
1550	17,9	24,5	6,4	808,00												
1550	17,7	24,5	6,4	719,85												
1550	17,5	24,5	6,4	647,74												
1550	17,3	24,5	6,4	599,88												
1550	17,1	24,5	6,4	548,08												
1550	17	24,5	6,4	467,44												
1550	16,8	24,5	6,4	422,36												
1550	16,6	24,5	6,4	384,22												
1550	16,4	24,5	6,4	351,53												
1550	16,3	24,5	6,4	330,55												
1550	16,1	24,5	6,4	299,47												
1550	16	24,5	6,4	263,21												
1550	15,9	24,5	6,4	229,55												
1550	15,9	24,5	6,4	211,72												
1550	15,8	24,5	6,4	195,88												
1550	15,7	24,5	6,4	168,95												
1550	15,7	24,5	6,4	161,03												
1550	15,6	24,5	6,4	144,29												
1550	15,5	24,5	6,4	123,21												
1550	15,5	24,5	6,4	105,86												
1550	15,4	24,5	6,4	91,32												
1550	15,3	24,5	6,5	75,25												



FG42																
Mt _{zmax} [Nm]	(F _r =0) Fa [kN]	(F _r =0) Fr [kN]	j _t [°]	i	IEC/SMB/SMR											
	80	90			100	112	132	160	180	200	225	250	280	315		
1362	12,1	24,5	6,2	98,50												
1550	13,2	24,5	6,2	89,52												
1550	14,6	24,5	6,2	81,93												
1550	15	24,5	6,2	75,42												
1550	15,3	24,5	6,2	68,86												
1550	16,6	24,5	6,2	62,86												
1550	17,5	24,5	6,2	56,62												
1550	17,9	24,5	6,4	49,35												
1550	17,6	24,5	6,4	46,45												
1550	17,3	24,5	6,4	42,85												
1550	16,8	24,5	6,4	38,56												
1550	16,4	23	6,4	34,69												
1550	16	23,5	6,5	32,38												
1550	15,5	22,7	6,5	28,42												
1550	15	21,9	6,6	25,15												
1550	13,9	20,3	6,6	21,19												
1550	13,3	19,4	6,6	18,05												
1550	12,3	18	6,6	15,49												
1550	10,5	15,3	6,6	13,38												
1550	10,2	14,9	6,6	11,60												
1550	9,9	14,5	6,9	9,62												
774	17,5	24,5	7,2	56,02												
909	17,9	24,5	7,2	50,92												
988	17,3	24,5	7,2	46,60												
1038	17	24,5	7,2	42,90												
1088	16,8	24,5	7,2	39,17												
1171	16,1	23,4	7,2	35,75												
1227	15,4	22,5	7,2	32,20												
1238	14,9	21,8	7,2	28,07												
1231	14,7	21,5	7,3	26,42												
1221	14,5	21,2	7,5	24,37												
1218	13,9	20,3	7,5	21,93												
1214	13,6	19,8	7,6	19,73												
1210	13,3	19,4	7,7	18,42												
1205	12,7	18,6	7,8	16,16												
1199	12,4	18,2	7,8	14,30												
1190	11,5	16,8	7,8	12,05												
1179	11	16,1	8	10,26												
1167	10,2	14,9	8	8,81												
1155	10,1	14,8	8,2	7,61												
1139	9,7	14,2	8,7	6,60												
1088	8,8	12,9	8,8	5,47												

FG54																
Mt _{2max} [Nm]	(F _r =0)	(F _r =0)	j _t [']	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
2900	*	*	5,1	3551,48												
2900	*	*	5,1	3270,01												
2900	*	*	5,1	2959,57												
2900	*	*	5,1	2626,84												
2900	*	*	5,1	2276,59												
2900	*	*	5,1	2048,93												
2900	*	*	5,1	1856,30												
2901	*	*	5,1	1691,18												
2902	*	*	5,1	1517,73												
2903	32,2	36,8	5,1	1436,00												
2904	32,3	36,8	5,1	1252,13												
2905	32,2	36,8	5,1	1081,38												
2906	32	36,8	5,1	964,20												
2907	31,9	36,8	5,1	860,05												
2908	31,8	36,8	5,1	774,04												
2909	31,7	36,8	5,1	718,00												
2910	31,5	36,8	5,1	617,93												
2911	31,2	36,8	5,1	514,07												
2900	31	36,8	5,1	455,32												

FG53																
Mt _{2max} [Nm]	(F _r =0)	(F _r =0)	j _t [']	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
2395	23,5	36,8	5	945,00												
2900	27,5	36,8	5	841,91												
2900	30	36,8	5	757,56												
2900	31,8	36,8	5	701,59												
2900	33,1	36,8	5	641,01												
2900	34,6	36,8	5	546,69												
2900	34,8	36,8	5	493,98												
2900	35	36,8	5	449,37												
2900	35,2	36,8	5	411,14												
2900	35,3	36,8	5	386,59												
2900	35,4	36,8	5	350,24												
2900	35,7	36,8	5	307,84												
2900	36	36,8	5	268,47												
2900	36,1	36,8	5	247,62												
2900	36,2	36,8	5	229,09												
2900	36,1	36,8	5	197,59												
2900	36	36,8	5	188,34												
2900	35,8	36,8	5	168,75												
2900	35,5	36,8	5	144,11												
2900	35	36,8	5	123,81												
2900	33,3	36,8	5	106,81												
2900	30,4	36,8	5	88,00												





FG52																
Mt _{zmax} [Nm]	(F _r =0) Fa [kN]	(F _r =0) Fr [kN]	j _t [°]	i	IEC/SMB/SMR											
	90	100			112	132	160	180	200	225	250	280	315	355		
2418	28,8	36,8	5	98,39												
2900	29,3	36,8	5	84,32												
2900	29,6	36,8	5	77,10												
2900	28,6	36,8	5	68,41												
2900	27	36,8	5	60,85												
2900	26,5	36,8	5	57,27												
2900	25	36,6	5	52,13												
2900	24,5	35,6	5	46,77												
2900	24	34,9	5	42,42												
2900	23,4	34,2	5	39,19												
2900	21,8	32	5	34,55												
2900	21,2	31	5	30,71												
2900	20,6	30,6	5,1	27,33												
2900	20,3	29,8	5,1	26,07												
2900	19,5	28,6	5,2	22,38												
2900	18,8	27,5	5,2	19,39												
2900	18,1	26,5	5,3	17,45												
2900	17,4	25,5	5,3	14,82												
2900	16,1	23,6	5,5	12,50												
2900	15	20,2	5,5	11,00												
2900	13,6	19,9	5,5	9,74												
1475	26,5	36,8	5,7	60,03												
1843	23,8	34,9	5,7	51,44												
2014	21,7	32	5,7	47,04												
2356	20,1	29,7	5,7	41,74												
2456	19,9	29,4	5,7	37,13												
2497	19,7	29,1	5,7	34,94												
2492	19,3	28,5	5,7	31,81												
2456	18,6	27,2	5,7	28,54												
2434	18,3	26,8	5,8	25,88												
2421	18	26,5	5,8	23,91												
2412	17,5	25,7	5,9	21,08												
2401	17	25	5,9	18,74												
2391	16,8	24,7	5,9	16,68												
2383	16,6	24,3	5,9	15,90												
2365	16,1	23,6	5,9	13,66												
2301	15	20,6	5,9	11,83												
2251	14,6	20	6,3	10,65												
2168	13,6	19,9	6,3	9,04												
2031	13	19,2	6,3	7,63												
1969	13	19	6,5	6,71												
1811	12	17	6,6	5,94												

FG64																
Mt _{2max} [Nm]	(F _r =0)	(F _s =0)	j _t [']	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
4900	*	*	4,5	4391,10												
4900	*	*	4,53	3912,07												
4900	*	*	4,53	3520,13												
4900	*	*	4,53	3260,06												
4900	*	*	4,53	2978,58												
4900	*	*	4,53	2540,30												
4900	*	*	4,53	2295,35												
4900	*	*	4,53	2088,07												
4900	*	*	4,53	1910,41												
4900	*	*	4,53	1796,36												
4900	*	*	4,53	1627,47												
4900	42,1	46,5	4,53	1430,43												
4900	42,8	46,5	4,53	1247,47												
4900	42,5	46,5	4,53	1150,61												
4900	42,4	46,5	4,53	1064,51												
4900	42	46,5	4,53	918,14												
4900	41,8	46,5	4,53	875,15												
4900	41,5	46,5	4,53	784,12												
4900	41,3	46,5	4,53	669,61												
4900	41,1	46,5	4,53	575,30												
4900	40,8	46,5	4,53	496,29												
4900	40,3	46,5	4,53	408,93												

FG63																
Mt _{2max} [Nm]	(F _r =0)	(F _s =0)	j _t [']	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
4900	30,5	46,5	4,5	535,28												
4900	31	46,5	4,5	486,51												
4900	32,5	46,5	4,5	445,25												
4900	33	46,5	4,5	409,88												
4900	34	46,5	4,5	374,24												
4900	36,8	46,5	4,5	341,61												
4900	41,2	46,5	4,5	307,71												
4900	43,9	46,5	4,5	268,21												
4900	44,5	46,5	4,5	252,43												
4900	46,4	46,5	4,5	232,86												
4900	48,1	46,5	4,5	209,58												
4900	48,9	46,5	4,5	188,51												
4900	49,7	46,5	4,5	175,96												
4900	47,2	46,5	4,5	154,45												
4900	46,2	46,5	4,5	136,68												
4900	44	46,5	4,5	115,15												
4900	41	46,5	4,5	98,08												
4900	38	46,5	4,5	84,20												
4900	36	46,5	4,5	72,71												
4900	33,7	44,9	4,5	63,03												
4900	32,8	43,7	4,5	52,27												





FG62																
Mt _{zmax} [Nm]	(F _r =0) Fa [kN]	(F _r =0) Fr [kN]	j _t [°]	i	IEC/SMB/SMR											
	90	100			112	132	160	180	200	225	250	280	315	355		
4024	40,2	46,5	4,8	99,71												
4900	39,1	46,5	4,8	89,08												
4900	37	46,5	4,8	75,05												
4900	34,7	46,1	4,8	68,63												
4900	33,7	44,9	4,8	61,44												
4900	32,8	43,7	4,8	55,09												
4900	30	42	4,8	49,80												
4900	29	40	4,8	45,32												
4900	28,3	39	4,8	41,48												
4900	27,5	37,6	4,8	35,24												
4900	27	36,3	4,8	32,68												
4900	26,6	35,3	4,9	30,39												
4900	25	33,2	4,9	26,51												
4900	24,1	32,2	4,9	23,34												
4900	23,6	31,5	4,9	20,69												
4900	22,6	30,1	4,9	18,45												
4900	21,4	28,4	4,9	16,53												
4900	21	28	5	14,87												
4900	20,8	27,8	5,1	14,12												
4900	20,1	26,8	5,2	12,13												
4900	19,4	25,9	5,2	10,46												
4900	18,2	24,3	5,2	9,05												
1793	32	42,6	4,8	44,42												
2238	30	37,9	4,8	39,69												
2725	28,2	36,7	4,8	33,44												
2911	26,6	35,3	4,8	30,58												
3133	25,8	34,3	4,8	27,38												
3521	25	33,2	4,8	24,55												
3849	23	30,6	4,8	22,19												
4125	22,5	30	4,8	20,19												
4338	21,9	29,1	4,9	18,48												
4527	21,4	28,4	4,9	15,70												
4511	21	28	5	14,56												
4494	20,8	27,8	5,1	13,54												
4431	20,1	26,8	5,2	11,81												
4350	19,4	25,9	5,2	10,40												
4227	18,2	24,3	5,4	9,22												
4142	17,2	23	5,4	8,22												
4022	16,8	22,4	5,4	7,37												
3920	16,4	22	5,4	6,63												
3843	16,1	21,5	5,4	6,29												
3513	15,5	20,6	5,4	5,40												
3030	14,8	19,8	5,4	4,66												
2620	13,5	18,1	5,4	4,03												

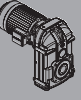


FG74																
Mt _{2max} [Nm]	(F _r =0)	(F _s =0)	j _t [°]	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
8200	*	*	4	4176,00												
8200	*	*	4	3720,44												
8200	*	*	4	3347,70												
8200	*	*	4	3100,36												
8200	*	*	4	2832,67												
8200	*	*	4	2415,87												
8200	*	*	4	2182,91												
8200	*	*	4	1985,79												
8200	*	*	4	1816,83												
8200	*	*	4	1708,36												
8200	*	*	4	1547,75												
8200	68,6	66	4	1360,36												
8200	69,5	66	4	1186,36												
8200	69,9	66	4	1094,25												
8200	70,3	66	4	1012,36												
8200	69	66	4	873,16												
8200	68,6	66	4	832,28												
8200	68	66	4	745,71												
8200	67	66	4	636,81												
8200	66	66	4	547,12												
8200	65,4	66	4	471,98												
8200	64,1	66	4	388,90												

FG73																
Mt _{2max} [Nm]	(F _r =0)	(F _s =0)	j _t [°]	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
8200	64,1	66	4	434,80												
8200	63,7	66	4	372,61												
8200	62,4	66	4	340,70												
8200	60,5	66	4	302,30												
8200	59	66	4	268,91												
8200	57,8	66	4	253,09												
8200	56,4	66	4	230,38												
8200	54,9	66	4	206,69												
8200	52,5	66	4	187,47												
8200	51	66	4	173,17												
8200	49,4	66	4	152,66												
8200	47,9	66	4	135,72												
8200	45	66	4	120,79												
8200	44	63	4	115,19												
8200	40,9	60,8	4	98,91												
8200	39,5	58,8	4	85,68												
8200	38,2	56,8	4	77,13												
8200	35,5	52,9	4	65,49												
8200	34,6	51,5	4	55,24												
8200	31,5	46,9	4	48,60												
8200	29,5	43,9	4	43,06												



FG72																
Mt _{zmax} [Nm]	(F _r =0) Fa [kN]	(F _r =0) Fr [kN]	j _t [°]	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
7646	35,3	53	4	83,70												
8200	34,8	52,2	4	76,66												
8200	34,1	51	4	68,81												
8200	33,5	49,9	4	61,83												
8200	32,8	48,9	4	56,02												
8200	32,3	47,5	4	51,10												
8200	31,5	46,3	4	46,89												
8200	29,5	43,9	4	40,04												
8200	27,6	42	4	37,22												
8200	26,9	41,3	4	34,71												
8200	26,3	39,2	4	30,45												
8200	25,3	38,1	4	26,96												
8200	24,9	37,3	4	24,06												
8200	24	35,9	4,2	21,60												
8200	22,2	33,5	4,2	19,49												
8200	21	32	4,2	17,66												
8200	20,3	31,2	4,2	16,84												
8200	19,2	29,2	4,2	14,66												
8200	17,5	26,9	4,2	12,83												
7556	16	24,7	4,2	11,27												
6388	14,4	22,5	4,2	9,53												
5413	14,4	22	4,2	8,07												
3545	29,5	43,9	4,1	38,81												
4213	26,9	40,3	4,1	35,54												
4561	25,5	38,3	4,1	31,90												
5299	25	37,5	4,1	28,67												
5886	24,5	36,7	4,1	25,97												
6423	24,2	36,5	4,2	23,69												
6806	23,8	36,1	4,2	21,74												
7095	22,3	33,8	4,3	18,56												
7112	21	32	4,3	17,25												
7132	20	30,5	4,3	16,09												
7116	18,9	28,9	4,3	14,12												
7053	18	28	4,3	12,50												
6921	17,4	26,5	4,3	11,15												
6713	16,3	24,5	4,3	10,01												
6058	14,8	23	4,3	9,04												
5550	14,6	22,4	4,3	8,19												
5233	14,4	22	4,3	7,81												
4555	14,2	21,7	4,3	6,79												
3986	14	21,2	4,3	5,95												
3503	13,8	20,8	4,3	5,23												
2961	13,4	20,2	4,3	4,42												
2509	13	19,5	4,3	3,74												

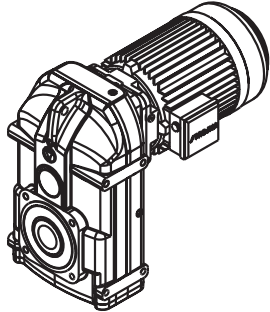


FG85																
Mt _{zmax} [Nm]	(F _r =0)	(F _t =0)	j _t [°]	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
13500	*	*	4	8517,82												
13500	*	*	4	7588,60												
13500	*	*	4	6828,33												
13500	*	*	4	6323,83												
13500	*	*	4	5777,82												
13500	*	*	4	4927,66												
13500	*	*	4	4452,50												
13500	*	*	4	4050,43												
13500	*	*	4	3705,80												
13500	*	*	4	3484,56												
13500	*	*	4	3156,95												
13500	*	*	4	2774,74												
13500	*	*	4	2419,83												
13500	*	*	4	2231,94												
13500	*	*	4	2064,93												
13500	*	*	4	1781,00												
13500	*	*	4	1697,61												
13500	*	*	4	1521,04												
13500	81,9	352,7	4	1298,90												
13500	94,9	333,5	4	1115,97												
13500	96,8	324	4	962,70												
13500	95,7	297,1	4	793,23												

FG84																
Mt _{zmax} [Nm]	(F _r =0)	(F _t =0)	j _t [°]	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
13500	85,9	307,4	4	886,86												
13500	94,1	297,1	4	760,01												
13500	95,7	291,2	4	694,93												
13500	96,4	283,1	4	616,61												
13500	96,6	273	4	548,50												
13500	96,9	263,3	4	516,23												
13500	97,5	257,9	4	469,90												
13500	98,2	251,8	4	421,59												
13500	98,8	247,2	4	382,39												
13500	99,6	242,9	4	353,21												
13500	100,4	235,7	4	311,38												
13500	101	229	4	276,82												
13500	100,8	220,2	4	246,38												
13500	100,6	214,5	4	234,95												
13500	100,4	205,3	4	201,75												
13500	100,2	194,7	4	174,77												
13500	100	188,6	4	157,33												
13500	99,8	177	4	133,59												
13500	99,5	170,4	4	112,67												
13500	99	160,2	4	99,13												
13500	99,2	157,1	4	87,83												

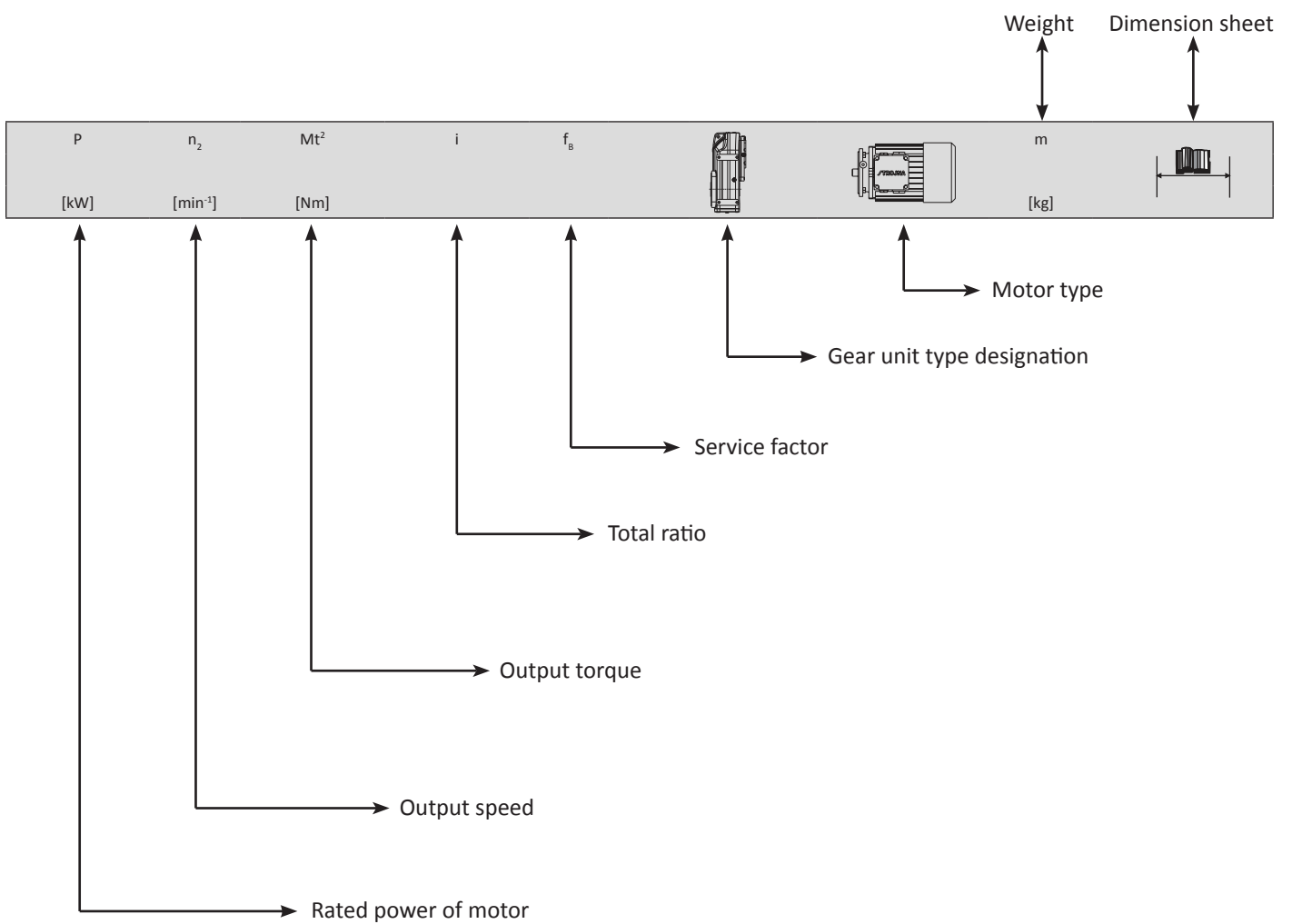



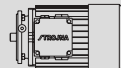

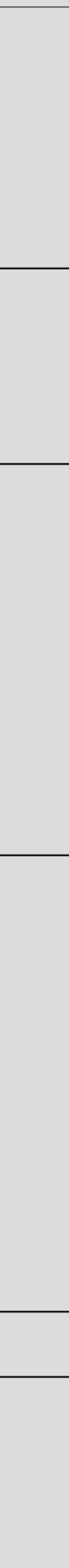
FG83																
Mt _{zmax} [Nm]	(F _r =0) Fa [kN]	(F _r =0) Fr [kN]	j _t [']	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
13500	101,1	195,1	4	170,73												
13500	98,8	174,7	4	156,36												
13500	96,6	170,2	4	140,35												
13500	96	164,9	4	126,12												
13500	95,7	160,2	4	114,27												
13500	95,4	151,2	4	104,24												
13500	95,2	145,8	4	95,64												
13500	94	136,2	4,1	81,67												
13500	92,4	134,2	4,1	75,92												
13500	91,7	128,5	4,1	70,80												
13500	90,1	126	4,1	62,11												
13500	88,5	123,6	4,1	55,00												
13500	86,9	121,2	4,1	49,07												
13500	85,3	118,8	4,1	44,05												
13500	83,7	116,5	4,1	39,75												
13500	82	114,6	4,1	36,03												
13500	81,3	113,1	4,1	34,35												
13500	77,1	107,6	4,1	29,89												
13500	75,3	105	4,1	26,16												
13500	73,5	102,4	4,3	22,99												
12631	69,2	96,4	4,3	19,43												
10704	64,8	90,4	4,3	16,47												




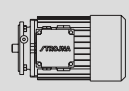

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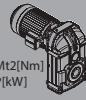
HELICAL SHAFT MOUNTED GEAR UNITS


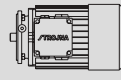




P	n ₂	Mt ₂	i	f _b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
0,12	0,15	6906	8517,82	1,95		FG85	SMB	63A4	513	158
	0,17	6093	7588,60	2,22		FG85	SMB	63A4		
	0,19	5452	6828,33	2,48		FG85	SMB	63A4		
	0,21	4933	6323,83	2,74		FG85	SMB	63A4		
	0,23	4504	5777,82	3,00		FG85	SMB	63A4		
	0,27	3837	4927,66	3,52		FG85	SMB	63A4		
	0,29	3572	4452,50	3,78		FG85	SMB	63A4		
	0,32	3237	4050,43	4,17		FG85	SMB	63A4		
	0,31	3410	4176,00	2,40		FG74	SMB	63A4	327	152
	0,35	3020	3720,44	2,72		FG74	SMB	63A4		
	0,39	2710	3347,70	3,03		FG74	SMB	63A4		
	0,42	2517	3100,36	3,26		FG74	SMB	63A4		
	0,46	2298	2832,67	3,57		FG74	SMB	63A4		
	0,54	1957	2415,87	4,19		FG74	SMB	63A4		
	0,30	3523	4391,10	1,39		FG64	SMB	63A4	215	146
	0,33	3203	3912,07	1,53		FG64	SMB	63A4		
0,37	2857	3520,13	1,72	FG64	SMB	63A4				
0,40	2643	3260,06	1,85	FG64	SMB	63A4				
0,44	2402	2978,58	2,04	FG64	SMB	63A4				
0,52	2033	2540,30	2,41	FG64	SMB	63A4				
0,57	1854	2295,35	2,64	FG64	SMB	63A4				
0,63	1678	2088,07	2,92	FG64	SMB	63A4				
0,69	1532	1910,41	3,20	FG64	SMB	63A4				
0,73	1448	1796,36	3,38	FG64	SMB	63A4				
0,80	1321	1627,47	3,71	FG64	SMB	63A4				
0,92	1149	1430,43	4,26	FG64	SMB	63A4				
0,37	2857	3551,48	1,02	FG54	SMB	63A4	108	140		
0,40	2643	3270,01	1,10	FG54	SMB	63A4				
0,44	2402	2959,57	1,21	FG54	SMB	63A4				
0,50	2114	2626,84	1,37	FG54	SMB	63A4				
0,58	1822	2276,59	1,59	FG54	SMB	63A4				
0,64	1652	2048,93	1,76	FG54	SMB	63A4				
0,71	1489	1856,30	1,95	FG54	SMB	63A4				
0,77	1373	1691,18	2,11	FG54	SMB	63A4				
0,86	1229	1517,73	2,36	FG54	SMB	63A4				
0,91	1162	1436,00	2,50	FG54	SMB	63A4				
1,00	1057	1252,13	2,74	FG54	SMB	63A4				
1,20	881	1081,38	3,29	FG54	SMR	63A4				
1,40	755	964,20	3,84	FG54	SMR	63A4				
1,50	705	860,05	4,12	FG54	SMR	63A4				
1,40	770	945,00	3,11	FG53	SMB	63A4	106	138		
1,60	674	841,91	4,30	FG53	SMB	63A4				
0,67	1578	1946,55	0,98	FG44	SMB	63A4	66	134		
0,75	1409	1751,89	1,10	FG44	SMB	63A4				
0,83	1274	1587,18	1,22	FG44	SMB	63A4				
0,91	1162	1446,01	1,33	FG44	SMB	63A4				
1,00	1057	1297,70	1,47	FG44	SMB	63A4				
1,10	961	1227,82	1,61	FG44	SMB	63A4				


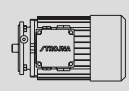





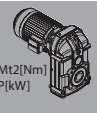
P	n ₂	Mt ₂	i	f _b			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
0,12	1,20	881	1070,60	1,76	FG44	SMB	66	134			
	1,40	755	924,61	2,05		SMR					
	1,60	661	824,42	2,35		SMR					
	1,80	587	735,36	2,64		SMR					
	2,00	529	661,83	2,93		SMR					
	2,10	503	613,91	3,08		SMR					
	2,50	423	528,35	3,67		SMR					
	3,00	352	439,54	4,40		SMR					
	1,60	674	808,00	2,30		FG43			SMB	63	132
	1,80	599	719,85	2,59		FG43			SMB		
2,00	539	647,74	2,87	FG43	SMB						
2,20	490	599,88	3,16	FG43	SMB						
2,40	449	548,08	3,45	FG43	SMB						
2,80	385	467,44	4,02	FG43	SMB						
3,10	348	422,36	4,45	FG43	SMB						
1,80	599	715,02	1,37	FG33	SMB	40	128				
2,10	514	635,38	1,60		SMB						
2,20	490	585,02	1,67		SMB						
2,50	431	529,48	1,90		SMB						
2,80	385	469,95	2,13		SMB						
3,20	337	407,29	2,43		SMB						
3,60	300	366,56	2,74		SMB						
3,90	277	332,10	2,96		SMB						
4,30	251	302,56	3,27		SMB						
4,80	225	271,53	3,65		SMB						
5,10	211	256,91	3,88	SMB							
5,80	186	224,01	4,41	SMB							
2,90	372	456,76	1,13	FG23	SMB	24	124				
3,20	337	405,88	1,25		SMB						
3,50	308	373,72	1,36		SMB						
3,90	277	338,24	1,52		SMB						
4,40	245	300,21	1,71		SMB						
5,00	216	260,18	1,95		SMB						
5,60	193	234,16	2,18		SMB						
6,20	174	212,15	2,41		SMB						
6,80	159	193,28	2,65		SMB						
7,60	142	173,45	2,96		SMB						
8,00	135	164,11	3,12		SMB						
9,20	117	143,10	3,58		SMB						
11,00	98	123,59	4,28		SMR						
12,00	90	110,19	4,67		SMR						
13,00	83	98,29	5,06		SMR						
15,00	72	88,46	5,84		SMR						
16,00	67	82,06	6,23		SMR						
19,00	57	70,62	7,40		SMR						
22,00	49	58,75	8,57		SMR						
25,00	43	52,04	9,73		SMR						
12,00	92	108,00	3,04	FG22	SMB	22	122				


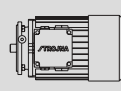




P	n ₂	Mt ₂	i	f _B			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
0,12	14,00	79	96,22	4,87		FG22	SMB	63A4			
	15,00	73	86,58	5,72		FG22	SMB	63A4			
	16,00	69	80,18	6,11		FG22	SMB	63A4			
	18,00	61	73,26	6,87		FG22	SMB	63A4			
	21,00	52	62,48	8,01		FG22	SMB	63A4			
	23,00	48	56,45	8,78		FG22	SMB	63A4			
	26,00	42	51,36	9,92		FG22	SMB	63A4			
	28,00	39	46,99	10,68		FG22	SMB	63A4		22	122
	30,00	37	44,18	11,45		FG22	SMB	63A4			
	33,00	33	40,03	12,59		FG22	SMB	63A4			
	37,00	30	35,18	14,12		FG22	SMB	63A4			
	25,00	44	51,58	5,70		FG22	SMB	63A4			
	39,00	28	33,49	11,20		FG22	SMB	63A4			
	43,00	26	30,26	12,35		FG22	SMB	63A4			
	48,00	23	27,53	13,78		FG22	SMB	63A4			
	52,00	21	25,19	14,88		FG22	SMB	63A4			
	14,00	79	94,16	2,67		FG12	SMB	63A4		17	120
	16,00	69	83,67	3,05		FG12	SMB	63A4			
	17,00	65	77,04	3,24		FG12	SMB	63A4			
	19,00	58	69,73	3,63		FG12	SMB	63A4			
21,00	52	61,89	4,01	FG12	SMB	63A4					
24,00	46	53,64	4,58	FG12	SMB	63A4					
27,00	41	48,27	5,15	FG12	SMB	63A4					
30,00	37	43,73	5,72	FG12	SMB	63A4					
33,00	33	39,84	6,30	FG12	SMB	63A4					
37,00	30	35,76	7,06	FG12	SMB	63A4					
39,00	28	33,83	7,44	FG12	SMB	63A4					
44,00	25	29,50	8,40	FG12	SMB	63A4					
51,00	22	25,48	9,73	FG12	SMR	63A4					
58,00	19	22,72	11,07	FG12	SMR	63A4					
65,00	17	20,26	12,40	FG12	SMR	63A4					
72,00	15	18,24	13,74	FG12	SMR	63A4					
77,00	14	16,92	14,69	FG12	SMR	63A4					
41,00	27	31,98	3,09	FG12	SMB	63A4					
46,00	24	28,41	4,30	FG12	SMB	63A4					
50,00	22	26,16	4,82	FG12	SMB	63A4					
55,00	20	23,68	5,30	FG12	SMB	63A4					
62,00	18	21,02	5,91	FG12	SMB	63A4					
80,00	14	16,39	7,49	FG12	SMB	63A4					
88,00	13	14,85	8,24	FG12	SMB	63A4					
97,00	11	13,53	8,99	FG12	SMB	63A4					
108,00	10	12,14	9,91	FG12	SMB	63A4					
114,00	10	11,49	10,46	FG12	SMB	63A4					
131,00	8	10,02	11,90	FG12	SMB	63A4					
151,00	7	8,65	13,58	FG12	SMR	63A4					
170,00	6	7,71	14,98	FG12	SMR	63A4					
0,18	0,16	9711	8517,82	1,39	FG85	SMB	63B4	514	158		
	0,18	8632	7588,60	1,56	FG85	SMB	63B4				


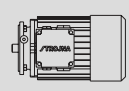

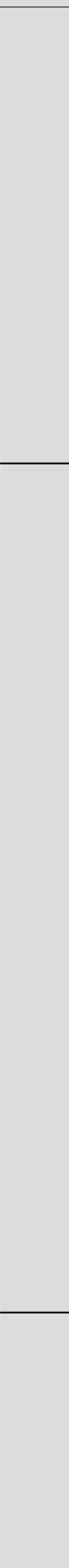


P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
0,18	0,19	8178	6828,33	1,65		FG85	SMB	63B4	
	0,21	7399	6323,83	1,82		FG85	SMB	63B4	
	0,23	6756	5777,82	2,00		FG85	SMB	63B4	
	0,27	5755	4927,66	2,35		FG85	SMB	63B4	
	0,3	5179	4452,50	2,61		FG85	SMB	63B4	
	0,33	4709	4050,43	2,87		FG85	SMB	63B4	
	0,36	4316	3705,80	3,13		FG85	SMB	63B4	
	0,38	4089	3484,56	3,30		FG85	SMB	63B4	
	0,42	3700	3156,95	3,65		FG85	SMB	63B4	
	0,48	3237	2774,74	4,17		FG85	SMB	63B4	
	0,32	4955	4176,00	1,65		FG74	SMB	63B4	
	0,36	4404	3720,44	1,86		FG74	SMB	63B4	
	0,4	3964	3347,70	2,07		FG74	SMB	63B4	
	0,43	3687	3100,36	2,22		FG74	SMB	63B4	
	0,47	3374	2832,67	2,43		FG74	SMB	63B4	
	0,55	2883	2415,87	2,84		FG74	SMB	63B4	
	0,61	2599	2182,91	3,15		FG74	SMB	63B4	
	0,67	2366	1985,79	3,47		FG74	SMB	63B4	
	0,73	2172	1816,83	3,78		FG74	SMB	63B4	
0,78	2033	1708,36	4,03	FG74	SMB	63B4			
0,86	1844	1547,75	4,45	FG74	SMB	63B4			
0,34	4663	3912,07	1,05	FG64	SMB	63B4			
0,38	4173	3520,13	1,17	FG64	SMB	63B4			
0,41	3867	3260,06	1,27	FG64	SMB	63B4			
0,45	3523	2978,58	1,39	FG64	SMB	63B4			
0,52	3049	2540,30	1,61	FG64	SMB	63B4			
0,58	2734	2295,35	1,79	FG64	SMB	63B4			
0,64	2477	2088,07	1,98	FG64	SMB	63B4			
0,7	2265	1910,41	2,16	FG64	SMB	63B4			
0,74	2143	1796,36	2,29	FG64	SMB	63B4			
0,82	1934	1627,47	2,53	FG64	SMB	63B4			
0,93	1705	1430,43	2,87	FG64	SMB	63B4			
1,1	1441	1247,47	3,40	FG64	SMR	63B4			
1,2	1321	1150,61	3,71	FG64	SMR	63B4			
1,4	1133	918,14	4,33	FG64	SMR	63B4			
0,58	2734	2276,59	1,06	FG54	SMB	63B4			
0,65	2439	2048,93	1,19	FG54	SMB	63B4			
0,72	2202	1856,30	1,32	FG54	SMB	63B4			
0,79	2007	1691,18	1,44	FG54	SMB	63B4			
0,88	1802	1517,73	1,61	FG54	SMB	63B4			
0,93	1705	1436,00	1,70	FG54	SMB	63B4			
1,1	1441	1252,13	2,01	FG54	SMB	63B4			
1,2	1321	1081,38	2,19	FG54	SMR	63B4			
1,4	1133	964,20	2,56	FG54	SMR	63B4			
1,5	1057	860,05	2,74	FG54	SMR	63B4			
1,7	933	774,04	3,11	FG54	SMR	63B4			
1,9	835	718,00	3,48	FG54	SMR	63B4			
2,2	721	617,93	4,02	FG54	SMR	63B4			


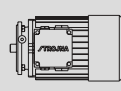



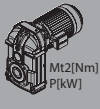
P	n ₂	Mt ₂	i	f _b			m					
[kW]	[min ⁻¹]	[Nm]					[kg]					
0,18	1,4	1156	945,00	2,07		FG53	SMB	63B4	107	138		
	1,6	1011	841,91	2,87		FG53	SMB	63B4				
	1,8	899	757,56	3,23		FG53	SMB	63B4				
	1,9	852	701,59	3,41		FG53	SMB	63B4				
	2,1	770	641,01	3,76		FG53	SMB	63B4				
	2,4	674	546,69	4,30		FG53	SMB	63B4				
	1	1586	1297,70	0,98		FG44	SMB	63B4			67	134
	1,1	1441	1227,82	1,08		FG44	SMB	63B4				
	1,2	1321	1070,60	1,17		FG44	SMB	63B4				
	1,4	1133	924,61	1,37		FG44	SMR	63B4				
	1,6	991	824,42	1,56		FG44	SMR	63B4				
	1,8	881	735,36	1,76		FG44	SMR	63B4				
	2	793	661,83	1,96		FG44	SMR	63B4				
	2,2	721	613,91	2,15		FG44	SMR	63B4				
	2,5	634	528,35	2,44		FG44	SMR	63B4				
	3	529	439,54	2,93		FG44	SMR	63B4				
	3,4	466	389,31	3,32		FG44	SMR	63B4				
	1,6	1011	808,00	1,53		FG43	SMB	63B4	64	132		
	1,8	899	719,85	1,72		FG43	SMB	63B4				
	2,1	770	647,74	2,01		FG43	SMB	63B4				
2,2	735	599,88	2,11	FG43	SMB	63B4						
2,4	674	548,08	2,30	FG43	SMB	63B4						
2,8	578	467,44	2,68	FG43	SMB	63B4						
3,1	522	422,36	2,97	FG43	SMB	63B4						
3,5	462	384,22	3,35	FG43	SMB	63B4						
3,8	426	351,53	3,64	FG43	SMB	63B4						
4	404	330,55	3,83	FG43	SMB	63B4						
4,4	368	299,47	4,22	FG43	SMB	63B4						
1,9	852	715,02	0,96	FG33	SMB	63B4	41	128				
2,1	770	635,38	1,06	FG33	SMB	63B4						
2,3	703	585,02	1,17	FG33	SMB	63B4						
2,5	647	529,48	1,27	FG33	SMB	63B4						
2,8	578	469,95	1,42	FG33	SMB	63B4						
3,3	490	407,29	1,67	FG33	SMB	63B4						
3,6	449	366,56	1,82	FG33	SMB	63B4						
4	404	332,10	2,03	FG33	SMB	63B4						
4,4	368	302,56	2,23	FG33	SMB	63B4						
4,9	330	271,53	2,48	FG33	SMB	63B4						
5,2	311	256,91	2,64	FG33	SMB	63B4						
5,9	274	224,01	2,99	FG33	SMB	63B4						
6,9	234	193,46	3,50	FG33	SMR	63B4						
7,7	210	172,50	3,90	FG33	SMR	63B4						
8,6	188	153,87	4,36	FG33	SMR	63B4						
12	138	111,52	4,29	FG32	SMB	63B4	38	126				
21	79	62,25	4,20	FG32	SMB	63B4						
3,9	415	338,24	1,01	FG23	SMB	63B4	25	124				
4,4	368	300,21	1,14	FG23	SMB	63B4						
5,1	317	260,18	1,32	FG23	SMB	63B4						


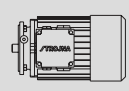

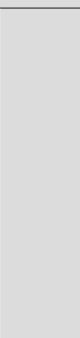
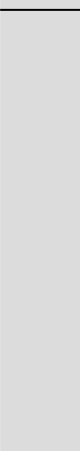
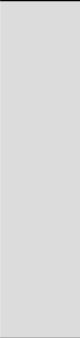
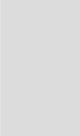


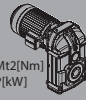
P	n ₂	Mt ₂	i	f _b			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
0,18	5,7	284	234,16	1,48		FG23	SMB	63B4			
	6,3	257	212,15	1,64		FG23	SMB	63B4			
	6,9	234	193,28	1,79		FG23	SMB	63B4			
	7,7	210	173,45	2,00		FG23	SMB	63B4			
	8,1	200	164,11	2,10		FG23	SMB	63B4			
	9,3	174	143,10	2,41		FG23	SMB	63B4			
	11	147	123,59	2,86		FG23	SMR	63B4			
	12	135	110,19	3,12		FG23	SMR	63B4		25	124
	14	116	98,29	3,63		FG23	SMR	63B4			
	15	108	88,46	3,89		FG23	SMR	63B4			
	16	101	82,06	4,15		FG23	SMR	63B4			
	19	85	70,62	4,93		FG23	SMR	63B4			
	23	70	58,75	5,97		FG23	SMR	63B4			
	26	62	52,04	6,75		FG23	SMR	63B4			
	12	138	108,00	2,03		FG22	SMB	63B4			
	14	118	96,22	3,25		FG22	SMB	63B4			
15	110	86,58	3,82	FG22	SMB	63B4					
17	97	80,18	4,32	FG22	SMB	63B4					
18	92	73,26	4,58	FG22	SMB	63B4					
21	79	62,48	5,34	FG22	SMB	63B4					
24	69	56,45	6,11	FG22	SMB	63B4					
26	63	51,36	6,61	FG22	SMB	63B4					
28	59	46,99	7,12	FG22	SMB	63B4					
30	55	44,18	7,63	FG22	SMB	63B4					
33	50	40,03	8,40	FG22	SMB	63B4					
38	43	35,18	9,67	FG22	SMB	63B4					
43	38	30,68	10,94	FG22	SMR	63B4	23	122			
47	35	28,30	11,96	FG22	SMR	63B4					
51	32	26,18	12,97	FG22	SMR	63B4					
23	72	57,89	2,09	FG22	SMB	63B4					
29	57	46,41	4,64	FG22	SMB	63B4					
31	53	42,98	5,95	FG22	SMB	63B4					
34	49	39,27	6,53	FG22	SMB	63B4					
40	41	33,49	7,66	FG22	SMB	63B4					
44	38	30,26	8,42	FG22	SMB	63B4					
48	34	27,53	9,19	FG22	SMB	63B4					
53	31	25,19	10,11	FG22	SMB	63B4					
56	29	23,68	10,68	FG22	SMB	63B4					
62	27	21,46	11,79	FG22	SMB	63B4					
71	23	18,86	13,46	FG22	SMB	63B4					
14	118	94,16	1,78	FG12	SMB	63B4					
16	103	83,67	2,04	FG12	SMB	63B4					
17	97	77,04	2,16	FG12	SMB	63B4					
19	87	69,73	2,42	FG12	SMB	63B4					
21	79	61,89	2,67	FG12	SMB	63B4	18	120			
25	66	53,64	3,18	FG12	SMB	63B4					
28	59	48,27	3,56	FG12	SMB	63B4					
30	55	43,73	3,82	FG12	SMB	63B4					


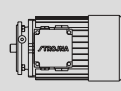



P	n ₂	Mt ₂	i	f _b			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
0,18	33	50	39,84	4,20		FG12	SMB	63B4			
	37	45	35,76	4,71		FG12	SMB	63B4			
	39	42	33,83	4,96		FG12	SMB	63B4			
	45	37	29,50	5,72		FG12	SMB	63B4			
	52	32	25,48	6,61		FG12	SMR	63B4			
	59	28	22,72	7,50		FG12	SMR	63B4			
	66	25	20,26	8,40		FG12	SMR	63B4			
	73	23	18,24	9,29		FG12	SMR	63B4			
	79	21	16,92	10,05		FG12	SMR	63B4			
	91	18	14,56	11,58		FG12	SMR	63B4			
	110	15	12,11	13,99		FG12	SMR	63B4			
	42	39	31,98	2,11		FG12	SMB	63B4			
	47	35	28,41	2,93		FG12	SMB	63B4			
	51	32	26,16	3,27		FG12	SMB	63B4			
	56	29	23,68	3,60		FG12	SMB	63B4		18	120
	63	26	21,02	4,01		FG12	SMB	63B4			
	81	20	16,39	5,05		FG12	SMB	63B4			
	90	18	14,85	5,62		FG12	SMB	63B4			
	98	17	13,53	6,05		FG12	SMB	63B4			
	116	14	11,49	7,10		FG12	SMB	63B4			
	133	12	10,02	8,06		FG12	SMB	63B4			
	154	11	8,65	9,23		FG12	SMR	63B4			
	172	10	7,71	10,11		FG12	SMR	63B4			
	193	9	6,88	11,11		FG12	SMR	63B4			
	215	8	6,19	11,98		FG12	SMR	63B4			
	232	7	5,74	12,51		FG12	SMR	63B4			
	269	6	4,94	13,69		FG12	SMR	63B4			
	323	5	4,11	14,87		FG12	SMR	63B4			
	0,25	0,16	13488	8517,82		1,00	FG85	SMB		71A4	
		0,18	11990	7588,60		1,13	FG85	SMB		71A4	
		0,2	10791	6828,33		1,25	FG85	SMB		71A4	
		0,21	10277	6323,83		1,31	FG85	SMB		71A4	
0,23		9383	5777,82	1,44	FG85	SMB	71A4				
0,27		7993	4927,66	1,69	FG85	SMB	71A4				
0,3		7194	4452,50	1,88	FG85	SMB	71A4				
0,33		6540	4050,43	2,06	FG85	SMB	71A4	514	158		
0,36		5995	3705,80	2,25	FG85	SMB	71A4				
0,38		5679	3484,56	2,38	FG85	SMB	71A4				
0,42		5138	3156,95	2,63	FG85	SMB	71A4				
0,48		4496	2774,74	3,00	FG85	SMB	71A4				
0,55		3924	2419,83	3,44	FG85	SMR	71A4				
0,6		3597	2231,94	3,75	FG85	SMR	71A4				
0,65		3320	2064,93	4,07	FG85	SMR	71A4				
0,32		6882	4176,00	1,19	FG74	SMB	71A4				
0,36		6117	3720,44	1,34	FG74	SMB	71A4				
0,4		5505	3347,70	1,49	FG74	SMB	71A4	328	152		
0,43		5121	3100,36	1,60	FG74	SMB	71A4				
0,47		4685	2832,67	1,75	FG74	SMB	71A4				


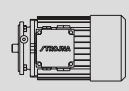



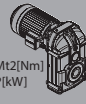
P	n ₂	Mt ₂	i	f _b			m					
[kW]	[min ⁻¹]	[Nm]					[kg]					
0,25	0,55	4004	2415,87	2,05		FG74	SMB	71A4	328	152		
	0,61	3610	2182,91	2,27		FG74	SMB	71A4				
	0,67	3287	1985,79	2,49		FG74	SMB	71A4				
	0,74	2976	1816,83	2,76		FG74	SMB	71A4				
	0,78	2823	1708,36	2,90		FG74	SMB	71A4				
	0,87	2531	1547,75	3,24		FG74	SMB	71A4				
	0,99	2224	1360,36	3,69		FG74	SMB	71A4				
	1,1	2002	1186,36	4,10		FG74	SMR	71A4				
	1,2	1835	1094,25	4,47		FG74	SMR	71A4				
	0,45	4894	2978,58	1,00		FG64	SMB	71A4			216	146
	0,53	4155	2540,30	1,18		FG64	SMB	71A4				
	0,58	3797	2295,35	1,29		FG64	SMB	71A4				
	0,64	3441	2088,07	1,42		FG64	SMB	71A4				
	0,7	3146	1910,41	1,56		FG64	SMB	71A4				
	0,75	2936	1796,36	1,67		FG64	SMB	71A4				
	0,82	2686	1627,47	1,82		FG64	SMB	71A4				
0,94	2343	1430,43	2,09	FG64	SMB	71A4						
1,1	2002	1247,47	2,45	FG64	SMR	71A4						
1,2	1835	1150,61	2,67	FG64	SMR	71A4						
1,3	1694	1064,51	2,89	FG64	SMR	71A4						
1,5	1468	918,14	3,34	FG64	SMR	71A4						
1,7	1295	784,12	3,78	FG64	SMR	71A4						
2	1101	669,61	4,45	FG64	SMR	71A4						
0,79	2788	1691,18	1,04		FG54	SMB	71A4	109	140			
0,88	2502	1517,73	1,16		FG54	SMB	71A4					
0,93	2368	1436,00	1,22		FG54	SMB	71A4					
1,1	2002	1252,13	1,45		FG54	SMB	71A4					
1,2	1835	1081,38	1,58		FG54	SMR	71A4					
1,4	1573	964,20	1,84		FG54	SMR	71A4					
1,6	1376	860,05	2,11		FG54	SMR	71A4					
1,7	1295	774,04	2,24		FG54	SMR	71A4					
1,9	1159	718,00	2,50		FG54	SMR	71A4					
2,2	1001	617,93	2,90		FG54	SMR	71A4					
2,6	847	514,07	3,42		FG54	SMR	71A4					
2,9	759	455,32	3,82		FG54	SMR	71A4					
1,4	1605	945,00	1,49			FG53	SMB			71A4	107	138
1,6	1404	841,91	2,06			FG53	SMB			71A4		
1,8	1248	757,56	2,32			FG53	SMB			71A4		
1,9	1183	701,59	2,45			FG53	SMB			71A4		
2,1	1070	641,01	2,71	FG53		SMB	71A4					
2,5	899	546,69	3,23	FG53		SMB	71A4					
2,7	832	493,98	3,48	FG53		SMB	71A4					
3	749	449,37	3,87	FG53		SMB	71A4					
3,3	681	411,14	4,26	FG53		SMB	71A4					
1,4	1573	924,61	0,99			FG44	SMR	71A4	67	134		
1,6	1376	824,42	1,13		FG44	SMR	71A4					
1,8	1223	735,36	1,27		FG44	SMR	71A4					
2	1101	661,83	1,41		FG44	SMR	71A4					


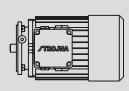






P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
0,25	2,2	1001	613,91	1,55	FG44	SMR	71A4	67	134
	2,5	881	528,35	1,76		SMR	71A4		
	3	734	439,54	2,11		SMR	71A4		
	3,4	648	389,31	2,39		SMR	71A4		
	1,7	1322	808,00	1,17	FG43	SMB	71A4	64	132
	1,9	1183	719,85	1,31		SMB	71A4		
	2,1	1070	647,74	1,45		SMB	71A4		
	2,2	1021	599,88	1,52		SMB	71A4		
	2,4	936	548,08	1,66		SMB	71A4		
	2,9	775	467,44	2,00		SMB	71A4		
	3,2	702	422,36	2,21		SMB	71A4		
	3,5	642	384,22	2,41		SMB	71A4		
	3,8	591	351,53	2,62		SMB	71A4		
	4,1	548	330,55	2,83		SMB	71A4		
	4,5	499	299,47	3,10		SMB	71A4		
	5,1	441	263,21	3,52		SMB	71A4		
	5,8	387	229,55	4,00		SMR	71A4		
	6,3	357	211,72	4,35		SMR	71A4		
	2,9	775	469,95	1,06	FG33	SMB	71A4	41	128
	3,3	681	407,29	1,20		SMB	71A4		
	3,7	607	366,56	1,35		SMB	71A4		
	4	562	332,10	1,46		SMB	71A4		
	4,4	511	302,56	1,61		SMB	71A4		
	4,9	459	271,53	1,79		SMB	71A4		
	5,2	432	256,91	1,90		SMB	71A4		
	6	375	224,01	2,19		SMB	71A4		
	6,9	326	193,46	2,52		SMR	71A4		
	7,8	288	172,50	2,85		SMR	71A4		
	8,7	258	153,87	3,17		SMR	71A4		
	9,7	232	138,48	3,54		SMR	71A4		
	10	225	128,45	3,65	SMR	71A4			
	12	187	110,55	4,38	SMR	71A4			
	12	191	111,52	3,09	FG32	SMB	71A4	38	126
	13	176	101,42	4,46		SMB	71A4		
	22	104	62,25	3,17		SMB	71A4		
	5,2	432	260,18	0,97	FG23	SMB	71A4	25	124
	5,7	394	234,16	1,07		SMB	71A4		
	6,3	357	212,15	1,18		SMB	71A4		
	6,9	326	193,28	1,29		SMB	71A4		
	7,7	292	173,45	1,44		SMB	71A4		
	8,2	274	164,11	1,53		SMB	71A4		
	9,4	239	143,10	1,76		SMB	71A4		
	11	204	123,59	2,06		SMR	71A4		
	12	187	110,19	2,24		SMR	71A4		
	14	161	98,29	2,62		SMR	71A4		
	15	150	88,46	2,80		SMR	71A4		
	16	140	82,06	2,99		SMR	71A4		
	19	118	70,62	3,55		SMR	71A4		


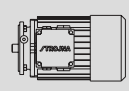



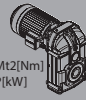
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,25	23	98	58,75	4,30	FG23	SMR 71A4	25	124
	26	86	52,04	4,86	FG23	SMR 71A4		
	12	191	108,00	1,46	FG22	SMB 71A4	23	122
	14	164	96,22	2,34	FG22	SMB 71A4		
	15	153	86,58	2,75	FG22	SMB 71A4		
	17	135	80,18	3,11	FG22	SMB 71A4		
	18	127	73,26	3,30	FG22	SMB 71A4		
	21	109	62,48	3,85	FG22	SMB 71A4		
	24	96	56,45	4,40	FG22	SMB 71A4		
	26	88	51,36	4,76	FG22	SMB 71A4		
	29	79	46,99	5,31	FG22	SMB 71A4		
	30	76	44,18	5,50	FG22	SMB 71A4		
	33	69	40,03	6,04	FG22	SMB 71A4		
	38	60	35,18	6,96	FG22	SMB 71A4		
	44	52	30,68	8,06	FG22	SMR 71A4		
	47	49	28,30	8,61	FG22	SMR 71A4		
	51	45	26,18	9,34	FG22	SMR 71A4		
	59	39	22,58	10,81	FG22	SMR 71A4		
	62	37	21,52	11,36	FG22	SMR 71A4		
	69	33	19,29	12,64	FG22	SMR 71A4		
	81	28	16,47	14,84	FG22	SMR 71A4		
	23	100	57,89	1,50	FG22	SMB 71A4		
	31	74	42,98	4,29	FG22	SMB 71A4		
	34	67	39,27	4,70	FG22	SMB 71A4		
	40	57	33,49	5,51	FG22	SMB 71A4		
	49	47	27,53	6,75	FG22	SMB 71A4		
	53	43	25,19	7,28	FG22	SMB 71A4		
	57	40	23,68	7,83	FG22	SMB 71A4		
	71	32	18,86	9,69	FG22	SMB 71A4		
	88	26	15,17	11,90	FG22	SMR 71A4		
	95	24	14,04	12,80	FG22	SMR 71A4		
	111	21	12,11	14,81	FG22	SMR 71A4		
	14	164	94,16	1,28	FG12	SMB 71A4	18	120
	16	143	83,67	1,47	FG12	SMB 71A4		
	17	135	77,04	1,56	FG12	SMB 71A4		
	19	121	69,73	1,74	FG12	SMB 71A4		
	22	104	61,89	2,01	FG12	SMB 71A4		
	25	92	53,64	2,29	FG12	SMB 71A4		
	28	82	48,27	2,56	FG12	SMB 71A4		
	31	74	43,73	2,84	FG12	SMB 71A4		
	34	67	39,84	3,11	FG12	SMB 71A4		
	37	62	35,76	3,39	FG12	SMB 71A4		
	40	57	33,83	3,66	FG12	SMB 71A4		
	45	51	29,50	4,12	FG12	SMB 71A4		
	53	43	25,48	4,85	FG12	SMR 71A4		
	59	39	22,72	5,40	FG12	SMR 71A4		
	66	35	20,26	6,04	FG12	SMR 71A4		
	73	31	18,24	6,69	FG12	SMR 71A4		


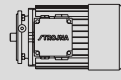



P	n ₂	Mt ₂	i	f _b			m						
[kW]	[min ⁻¹]	[Nm]					[kg]						
0,25	79	29	16,92	7,24		FG12	SMR	71A4	18	120			
	92	25	14,56	8,43		FG12	SMR	71A4					
	111	21	12,11	10,17		FG12	SMR	71A4					
	125	18	10,73	11,45		FG12	SMR	71A4					
	42	55	31,98	1,52		FG12	SMB	71A4					
	47	49	28,41	2,11		FG12	SMB	71A4					
	51	45	26,16	2,36		FG12	SMB	71A4					
	57	40	23,68	2,64		FG12	SMB	71A4					
	64	36	21,02	2,93		FG12	SMB	71A4					
	74	31	18,21	3,36		FG12	SMB	71A4					
	82	28	16,39	3,68		FG12	SMB	71A4					
	90	25	14,85	4,04		FG12	SMB	71A4					
	99	23	13,53	4,40		FG12	SMB	71A4					
	110	21	12,14	4,85		FG12	SMB	71A4					
	117	20	11,49	5,15		FG12	SMB	71A4					
	134	17	10,02	5,84		FG12	SMB	71A4					
	155	15	8,65	6,69		FG12	SMR	71A4					
	174	13	7,71	7,36		FG12	SMR	71A4					
	195	12	6,88	8,08		FG12	SMR	71A4					
	216	11	6,19	8,67		FG12	SMR	71A4					
233	10	5,74	9,04	FG12	SMR	71A4							
271	8	4,94	9,93	FG12	SMR	71A4							
326	7	4,11	10,81	FG12	SMR	71A4							
368	6	3,64	11,23	FG12	SMR	71A4							
0,37	0,23	13887	5777,82	0,97		FG85	SMB	71B4	515	158			
	0,27	11830	4927,66	1,14		FG85	SMB	71B4					
	0,3	10647	4452,50	1,27		FG85	SMB	71B4					
	0,33	9679	4050,43	1,39		FG85	SMB	71B4					
	0,36	8872	3705,80	1,52		FG85	SMB	71B4					
	0,38	8405	3484,56	1,61		FG85	SMB	71B4					
	0,42	7605	3156,95	1,78		FG85	SMB	71B4					
	0,48	6654	2774,74	2,03		FG85	SMB	71B4					
	0,55	5807	2419,83	2,32		FG85	SMR	71B4					
	0,6	5323	2231,94	2,54		FG85	SMR	71B4					
	0,65	4914	2064,93	2,75		FG85	SMR	71B4					
	0,75	4259	1781,00	3,17		FG85	SMR	71B4					
	0,79	4043	1697,61	3,34		FG85	SMR	71B4					
	0,88	3630	1521,04	3,72		FG85	SMR	71B4					
	1	3194	1298,90	4,23		FG85	SMR	71B4					
	0,4	8148	3347,70	1,01			FG74	SMB			71B4	329	152
	0,43	7580	3100,36	1,08			FG74	SMB			71B4		
	0,47	6934	2832,67	1,18			FG74	SMB			71B4		
	0,55	5926	2415,87	1,38			FG74	SMB			71B4		
	0,61	5343	2182,91	1,53			FG74	SMB			71B4		
0,67	4864	1985,79	1,69	FG74	SMB		71B4						
0,74	4404	1816,83	1,86	FG74	SMB		71B4						
0,78	4178	1708,36	1,96	FG74	SMB		71B4						
0,87	3746	1547,75	2,19	FG74	SMB		71B4						


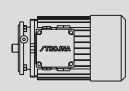



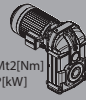
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,37	0,99	3292	1360,36	2,49	FG74	SMB	71B4	
	1,1	2963	1186,36	2,77	FG74	SMR	71B4	
	1,2	2716	1094,25	3,02	FG74	SMR	71B4	
	1,3	2507	1012,36	3,27	FG74	SMR	71B4	329
	1,5	2173	873,16	3,77	FG74	SMR	71B4	152
	1,6	2037	832,28	4,03	FG74	SMR	71B4	
	0,64	5092	2088,07	0,96	FG64	SMB	71B4	
	0,7	4656	1910,41	1,05	FG64	SMB	71B4	
	0,75	4346	1796,36	1,13	FG64	SMB	71B4	
	0,82	3975	1627,47	1,23	FG64	SMB	71B4	
	0,94	3467	1430,43	1,41	FG64	SMB	71B4	
	1,1	2963	1247,47	1,65	FG64	SMR	71B4	
	1,2	2716	1150,61	1,80	FG64	SMR	71B4	217
	1,3	2507	1064,51	1,95	FG64	SMR	71B4	146
	1,5	2173	918,14	2,26	FG64	SMR	71B4	
	1,7	1917	784,12	2,56	FG64	SMR	71B4	
	2	1630	669,61	3,01	FG64	SMR	71B4	
	2,3	1417	575,30	3,46	FG64	SMR	71B4	
	2,7	1207	496,29	4,06	FG64	SMR	71B4	
	2,5	1330	535,28	3,68	FG63	SMB	71B4	
	2,8	1188	486,51	4,13	FG63	SMB	71B4	212
	3	1109	445,25	4,42	FG63	SMB	71B4	144
	1,1	2963	1252,13	0,98	FG54	SMB	71B4	
	1,2	2716	1081,38	1,07	FG54	SMR	71B4	
	1,4	2328	964,20	1,25	FG54	SMR	71B4	
	1,6	2037	860,05	1,42	FG54	SMR	71B4	
	1,7	1917	774,04	1,51	FG54	SMR	71B4	110
	1,9	1715	718,00	1,69	FG54	SMR	71B4	140
	2,2	1481	617,93	1,96	FG54	SMR	71B4	
	2,6	1254	514,07	2,31	FG54	SMR	71B4	
	2,9	1124	455,32	2,58	FG54	SMR	71B4	
	1,4	2376	945,00	1,01	FG53	SMB	71B4	
	1,6	2079	841,91	1,40	FG53	SMB	71B4	
	1,8	1848	757,56	1,57	FG53	SMB	71B4	
	1,9	1750	701,59	1,66	FG53	SMB	71B4	
	2,1	1584	641,01	1,83	FG53	SMB	71B4	
	2,5	1330	546,69	2,18	FG53	SMB	71B4	
	2,7	1232	493,98	2,35	FG53	SMB	71B4	108
	3	1109	449,37	2,62	FG53	SMB	71B4	138
	3,3	1008	411,14	2,88	FG53	SMB	71B4	
	3,5	950	386,59	3,05	FG53	SMB	71B4	
	3,8	875	350,24	3,31	FG53	SMB	71B4	
	4,4	756	307,84	3,84	FG53	SMB	71B4	
	5	665	268,47	4,36	FG53	SMR	71B4	
	2	1630	661,83	0,95	FG44	SMR	71B4	
	2,2	1481	613,91	1,05	FG44	SMR	71B4	68
	2,5	1304	528,35	1,19	FG44	SMR	71B4	134
	3	1086	439,54	1,43	FG44	SMR	71B4	


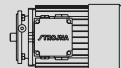




P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,37	3,4	959	389,31	1,62	FG44	SMR 71B4	68	134
	2,1	1584	647,74	0,98	FG43	SMB 71B4		
	2,2	1512	599,88	1,03	FG43	SMB 71B4		
	2,4	1386	548,08	1,12	FG43	SMB 71B4		
	2,9	1147	467,44	1,35	FG43	SMB 71B4		
	3,2	1039	422,36	1,49	FG43	SMB 71B4		
	3,5	950	384,22	1,63	FG43	SMB 71B4		
	3,8	875	351,53	1,77	FG43	SMB 71B4		
	4,1	811	330,55	1,91	FG43	SMB 71B4	65	132
	4,5	739	299,47	2,10	FG43	SMB 71B4		
	5,1	652	263,21	2,38	FG43	SMB 71B4		
	5,8	573	229,55	2,70	FG43	SMR 71B4		
	6,3	528	211,72	2,94	FG43	SMR 71B4		
	6,8	489	195,88	3,17	FG43	SMR 71B4		
	7,9	421	168,95	3,68	FG43	SMR 71B4		
	8,3	401	161,03	3,87	FG43	SMR 71B4		
	9,3	358	144,29	4,33	FG43	SMR 71B4		
	4	831	332,10	0,99	FG33	SMB 71B4		
	4,4	756	302,56	1,08	FG33	SMB 71B4		
	4,9	679	271,53	1,21	FG33	SMB 71B4		
	5,2	640	256,91	1,28	FG33	SMB 71B4		
	6	554	224,01	1,48	FG33	SMB 71B4		
	6,9	482	193,46	1,70	FG33	SMR 71B4		
	7,8	426	172,50	1,92	FG33	SMR 71B4	42	128
	8,7	382	153,87	2,15	FG33	SMR 71B4		
	9,7	343	138,48	2,39	FG33	SMR 71B4		
	10	333	128,45	2,47	FG33	SMR 71B4		
	12	277	110,55	2,96	FG33	SMR 71B4		
	15	222	91,97	3,70	FG33	SMR 71B4		
	16	208	81,46	3,95	FG33	SMR 71B4		
	12	283	111,52	2,09	FG32	SMB 71B4		
	13	261	101,42	3,01	FG32	SMB 71B4		
	14	242	94,36	3,38	FG32	SMB 71B4		
	17	200	81,02	4,11	FG32	SMB 71B4	39	126
	18	189	73,47	4,35	FG32	SMB 71B4		
	22	154	62,25	2,14	FG32	SMB 71B4		
	24	141	56,62	3,10	FG32	SMB 71B4		
	25	136	52,68	3,58	FG32	SMB 71B4		
	7,7	432	173,45	0,97	FG23	SMB 71B4		
	8,2	406	164,11	1,04	FG23	SMB 71B4		
	9,4	354	143,10	1,19	FG23	SMB 71B4		
	11	302	123,59	1,39	FG23	SMR 71B4		
	12	277	110,19	1,52	FG23	SMR 71B4	26	124
	14	238	98,29	1,77	FG23	SMR 71B4		
	15	222	88,46	1,89	FG23	SMR 71B4		
	16	208	82,06	2,02	FG23	SMR 71B4		
	19	175	70,62	2,40	FG23	SMR 71B4		
	23	145	58,75	2,90	FG23	SMR 71B4		


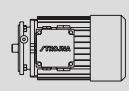

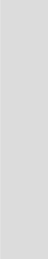



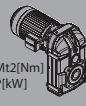
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,37	26	128	52,04	3,28	FG23	SMR 71B4	26	124
	12	283	108,00	0,99	FG22	SMB 71B4		
	14	242	96,22	1,58	FG22	SMB 71B4		
	15	226	86,58	1,86	FG22	SMB 71B4		
	17	200	80,18	2,10	FG22	SMB 71B4		
	18	189	73,26	2,23	FG22	SMB 71B4		
	21	162	62,48	2,60	FG22	SMB 71B4		
	24	141	56,45	2,97	FG22	SMB 71B4		
	26	131	51,36	3,22	FG22	SMB 71B4		
	29	117	46,99	3,59	FG22	SMB 71B4		
	30	113	44,18	3,71	FG22	SMB 71B4		
	33	103	40,03	4,08	FG22	SMB 71B4		
	38	89	35,18	4,70	FG22	SMB 71B4		
	44	77	30,68	5,45	FG22	SMR 71B4		
	47	72	28,30	5,82	FG22	SMR 71B4		
	51	67	26,18	6,31	FG22	SMR 71B4		
	59	58	22,58	7,30	FG22	SMR 71B4		
	62	55	21,52	7,67	FG22	SMR 71B4		
	69	49	19,29	8,54	FG22	SMR 71B4	24	122
	81	42	16,47	10,02	FG22	SMR 71B4		
	95	36	14,15	11,76	FG22	SMR 71B4		
	110	31	12,21	13,61	FG22	SMR 71B4		
	23	148	57,89	1,02	FG22	SMB 71B4		
	31	109	42,98	2,90	FG22	SMB 71B4		
	34	100	39,27	3,18	FG22	SMB 71B4		
	40	85	33,49	3,72	FG22	SMB 71B4		
	49	69	27,53	4,56	FG22	SMB 71B4		
	53	64	25,19	4,92	FG22	SMB 71B4		
	57	60	23,68	5,29	FG22	SMB 71B4		
	71	48	18,86	6,55	FG22	SMB 71B4		
	88	39	15,17	8,04	FG22	SMR 71B4		
	111	31	12,11	10,01	FG22	SMR 71B4		
	116	29	11,54	10,39	FG22	SMR 71B4		
	130	26	10,34	11,61	FG22	SMR 71B4		
	152	22	8,83	13,44	FG22	SMR 71B4		
	16	212	83,67	0,99	FG12	SMB 71B4		
	17	200	77,04	1,05	FG12	SMB 71B4		
	19	179	69,73	1,18	FG12	SMB 71B4		
	22	154	61,89	1,36	FG12	SMB 71B4		
	25	136	53,64	1,55	FG12	SMB 71B4		
	28	121	48,27	1,73	FG12	SMB 71B4		
	31	109	43,73	1,92	FG12	SMB 71B4	19	120
	34	100	39,84	2,10	FG12	SMB 71B4		
	37	92	35,76	2,29	FG12	SMB 71B4		
	40	85	33,83	2,48	FG12	SMB 71B4		
	45	75	29,50	2,78	FG12	SMB 71B4		
	53	64	25,48	3,28	FG12	SMR 71B4		
	59	58	22,72	3,65	FG12	SMR 71B4		


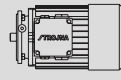








P	n ₂	Mt ₂	i	f _B			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
0,37	66	51	20,26	4,08		FG12	SMR	71B4	19	120	
	73	46	18,24	4,52		FG12	SMR	71B4			
	79	43	16,92	4,89		FG12	SMR	71B4			
	92	37	14,56	5,69		FG12	SMR	71B4			
	111	31	12,11	6,87		FG12	SMR	71B4			
	125	27	10,73	7,74		FG12	SMR	71B4			
	42	81	31,98	1,03		FG12	SMB	71B4			
	47	72	28,41	1,43		FG12	SMB	71B4			
	51	67	26,16	1,59		FG12	SMB	71B4			
	57	60	23,68	1,78		FG12	SMB	71B4			
	64	53	21,02	1,98		FG12	SMB	71B4			
	74	46	18,21	2,27		FG12	SMB	71B4			
	82	41	16,39	2,49		FG12	SMB	71B4			
	90	38	14,85	2,73		FG12	SMB	71B4			
	99	34	13,53	2,98		FG12	SMB	71B4			
	110	31	12,14	3,27		FG12	SMB	71B4			
	117	29	11,49	3,48		FG12	SMB	71B4			
	134	25	10,02	3,95		FG12	SMB	71B4			
	155	22	8,65	4,52		FG12	SMR	71B4			
	174	20	7,71	4,97		FG12	SMR	71B4			
	195	17	6,88	5,46		FG12	SMR	71B4			
	216	16	6,19	5,86		FG12	SMR	71B4			
	233	15	5,74	6,11		FG12	SMR	71B4			
	271	13	4,94	6,71		FG12	SMR	71B4			
	326	10	4,11	7,30		FG12	SMR	71B4			
	368	9	3,64	7,59		FG12	SMR	71B4			
0,55	0,34	13964	4050,43	0,97	FG85	SMB	80A4	517	158		
	0,37	12832	3705,80	1,05	FG85	SMB	80A4				
	0,39	12174	3484,56	1,11	FG85	SMB	80A4				
	0,44	10791	3156,95	1,25	FG85	SMB	80A4				
	0,5	9496	2774,74	1,42	FG85	SMB	80A4				
	0,57	8330	2419,83	1,62	FG85	SMR	80A4				
	0,62	7658	2231,94	1,76	FG85	SMR	80A4				
	0,67	7086	2064,93	1,91	FG85	SMR	80A4				
	0,77	6166	1781,00	2,19	FG85	SMR	80A4				
	0,81	5862	1697,61	2,30	FG85	SMR	80A4				
	0,9	5275	1521,04	2,56	FG85	SMR	80A4				
	1,1	4316	1298,90	3,13	FG85	SMR	80A4				
	1,2	3957	1115,97	3,41	FG85	SMR	80A4				
	1,4	3391	962,70	3,98	FG85	SMR	80A4				
	0,57	8500	2415,87	0,96	FG74	SMB	80A4			331	152
	0,63	7690	2182,91	1,07	FG74	SMB	80A4				
	0,69	7021	1985,79	1,17	FG74	SMB	80A4				
	0,76	6375	1816,83	1,29	FG74	SMB	80A4				
	0,8	6056	1708,36	1,35	FG74	SMB	80A4				
	0,89	5444	1547,75	1,51	FG74	SMB	80A4				
	1	4845	1360,36	1,69	FG74	SMB	80A4				
	1,2	4037	1186,36	2,03	FG74	SMR	80A4				


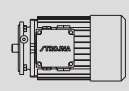

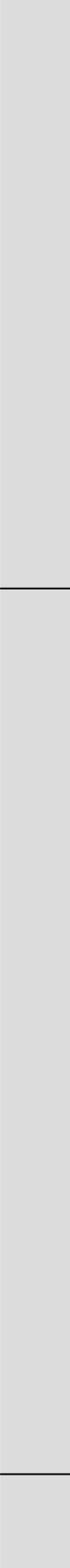


P	n ₂	Mt ₂	i	f _b			m						
[kW]	[min ⁻¹]	[Nm]					[kg]						
0,55	1,3	3727	1094,25	2,20		FG74	SMR	80A4		331	152		
	1,4	3461	1012,36	2,37		FG74	SMR	80A4					
	1,6	3028	873,16	2,71		FG74	SMR	80A4					
	1,7	2850	832,28	2,88		FG74	SMR	80A4					
	1,8	2692	745,71	3,05		FG74	SMR	80A4					
	2,2	2202	636,81	3,72		FG74	SMR	80A4					
	2,5	1938	547,12	4,23		FG74	SMR	80A4					
	0,96	5047	1430,43	0,97		FG64	SMB	80A4					
	1,1	4404	1247,47	1,11		FG64	SMR	80A4					
	1,2	4037	1150,61	1,21		FG64	SMR	80A4					
	1,3	3727	1064,51	1,31		FG64	SMR	80A4					
	1,5	3230	918,14	1,52		FG64	SMR	80A4					
	1,6	3028	875,15	1,62		FG64	SMR	80A4				219	146
	1,8	2692	784,12	1,82		FG64	SMR	80A4					
2,1	2307	669,61	2,12	FG64	SMR	80A4							
2,4	2019	575,30	2,43	FG64	SMR	80A4							
2,8	1730	496,29	2,83	FG64	SMR	80A4							
3,4	1425	408,93	3,44	FG64	SMR	80A4							
2,6	1901	535,28	2,58	FG63	SMB	80A4							
2,8	1766	486,51	2,78	FG63	SMB	80A4							
3,1	1595	445,25	3,07	FG63	SMB	80A4							
3,4	1454	409,88	3,37	FG63	SMB	80A4	214	144					
3,7	1336	374,24	3,67	FG63	SMB	80A4							
4	1236	341,61	3,96	FG63	SMB	80A4							
4,5	1099	307,71	4,46	FG63	SMB	80A4							
1,6	3028	860,05	0,96	FG54	SMR	80A4							
1,8	2692	774,04	1,08	FG54	SMR	80A4							
1,9	2550	718,00	1,14	FG54	SMR	80A4			112	140			
2,2	2202	617,93	1,32	FG54	SMR	80A4							
2,7	1794	514,07	1,62	FG54	SMR	80A4							
3	1615	455,32	1,80	FG54	SMR	80A4							
1,8	2746	757,56	1,06	FG53	SMB	80A4							
2	2472	701,59	1,17	FG53	SMB	80A4							
2,1	2354	641,01	1,23	FG53	SMB	80A4							
2,5	1977	546,69	1,47	FG53	SMB	80A4							
2,8	1766	493,98	1,64	FG53	SMB	80A4							
3,1	1595	449,37	1,82	FG53	SMB	80A4							
3,3	1498	411,14	1,94	FG53	SMB	80A4							
3,6	1373	386,59	2,11	FG53	SMB	80A4	110	138					
3,9	1268	350,24	2,29	FG53	SMB	80A4							
4,5	1099	307,84	2,64	FG53	SMB	80A4							
5,1	969	268,47	2,99	FG53	SMR	80A4							
5,6	883	247,62	3,29	FG53	SMR	80A4							
6	824	229,09	3,52	FG53	SMR	80A4							
7	706	197,59	4,11	FG53	SMR	80A4							
7,3	677	188,34	4,28	FG53	SMR	80A4							
3,1	1563	439,54	0,99	FG44	SMR	80A4			70	134			
3,5	1384	389,31	1,12	FG44	SMR	80A4							


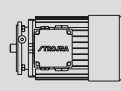


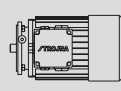

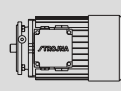

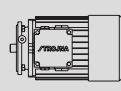

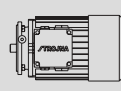

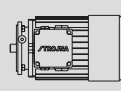

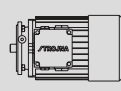


P	n ₂	Mt ₂	i	f _B			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
0,55	3,3	1498	422,36	1,03		FG43 SMB 80A4	67	132			
	3,6	1373	384,22	1,13		FG43 SMB 80A4					
	3,9	1268	351,53	1,22		FG43 SMB 80A4					
	4,2	1177	330,55	1,32		FG43 SMB 80A4					
	4,6	1075	299,47	1,44		FG43 SMB 80A4					
	5,2	951	263,21	1,63		FG43 SMB 80A4					
	6	824	229,55	1,88		FG43 SMR 80A4					
	6,5	761	211,72	2,04		FG43 SMR 80A4					
	7	706	195,88	2,19		FG43 SMR 80A4					
	8,1	610	168,95	2,54		FG43 SMR 80A4					
	8,5	582	161,03	2,67		FG43 SMR 80A4					
	9,5	520	144,29	2,98		FG43 SMR 80A4					
	11	449	123,21	3,45		FG43 SMR 80A4					
	13	380	105,86	4,08		FG43 SMR 80A4					
	14	360	98,50	3,78	FG42 SMB 80A4	65	130				
	25	202	56,02	3,84	FG42 SMB 80A4						
	6,1	810	224,01	1,01		FG33 SMB 80A4	44	128			
	7,1	696	193,46	1,18		FG33 SMR 80A4					
	8	618	172,50	1,33		FG33 SMR 80A4					
	8,9	555	153,87	1,48		FG33 SMR 80A4					
	9,9	499	138,48	1,64		FG33 SMR 80A4					
	11	449	128,45	1,82		FG33 SMR 80A4					
	12	412	110,55	1,99		FG33 SMR 80A4					
	15	330	91,97	2,49		FG33 SMR 80A4					
	17	291	81,46	2,82		FG33 SMR 80A4					
	12	420	111,52	1,40					FG32 SMB 80A4	41	126
	14	360	101,42	2,18	FG32 SMB 80A4						
	15	336	94,36	2,44	FG32 SMB 80A4						
	17	297	81,02	2,76	FG32 SMB 80A4						
	19	266	73,47	3,09	FG32 SMB 80A4						
	20	252	68,56	3,25	FG32 SMB 80A4						
	22	229	62,29	3,58	FG32 SMB 80A4						
	24	210	56,70	3,90	FG32 SMB 80A4						
	27	187	51,60	4,39	FG32 SMB 80A4						
	26	194	52,68	2,50	FG32 SMB 80A4						
	30	168	45,23	3,21	FG32 SMB 80A4						
	34	148	41,02	3,98	FG32 SMB 80A4						
	12	412	110,19	1,02			FG23 SMR 80A4	28	124		
	14	353	98,29	1,19			FG23 SMR 80A4				
	16	309	88,46	1,36		FG23 SMR 80A4					
	17	291	82,06	1,44		FG23 SMR 80A4					
	19	260	70,62	1,61		FG23 SMR 80A4					
	23	215	58,75	1,95		FG23 SMR 80A4					
	26	190	52,04	2,21		FG23 SMR 80A4					
	14	360	96,22	1,06			FG22 SMB 80A4			26	122
	16	315	86,58	1,33	FG22 SMB 80A4						
	17	297	80,18	1,42	FG22 SMB 80A4						
	19	266	73,26	1,58	FG22 SMB 80A4						


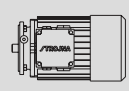



P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,55	22	229	62,48	1,83		FG22 SMB 80A4	26	122
	24	210	56,45	2,00		FG22 SMB 80A4		
	27	187	51,36	2,25		FG22 SMB 80A4		
	29	174	46,99	2,41		FG22 SMB 80A4		
	31	163	44,18	2,58		FG22 SMB 80A4		
	34	148	40,03	2,83		FG22 SMB 80A4		
	39	129	35,18	3,25		FG22 SMB 80A4		
	45	112	30,68	3,75		FG22 SMR 80A4		
	49	103	28,30	4,08		FG22 SMR 80A4		
	53	95	26,18	4,41		FG22 SMR 80A4		
	30	168	46,41	1,57		FG22 SMB 80A4		
	32	158	42,98	2,01		FG22 SMB 80A4		
	35	144	39,27	2,20		FG22 SMB 80A4		
	41	123	33,49	2,57		FG22 SMB 80A4		
	50	101	27,53	3,13		FG22 SMB 80A4		
	55	92	25,19	3,43		FG22 SMB 80A4		
	58	87	23,68	3,62		FG22 SMB 80A4		
	64	79	21,46	3,98		FG22 SMB 80A4		
	26	194	53,64	1,08		FG12 SMB 80A4		
	28	180	48,27	1,17		FG12 SMB 80A4		
	31	163	43,73	1,29		FG12 SMB 80A4		
	35	144	39,84	1,46		FG12 SMB 80A4		
	38	133	35,76	1,58		FG12 SMB 80A4		
	41	123	33,83	1,71		FG12 SMB 80A4		
	47	107	29,50	1,96		FG12 SMB 80A4		
	54	93	25,48	2,25		FG12 SMR 80A4		
	61	83	22,72	2,54		FG12 SMR 80A4		
	68	74	20,26	2,83		FG12 SMR 80A4		
75	67	18,24	3,12	FG12 SMR 80A4				
81	62	16,92	3,37	FG12 SMR 80A4				
94	54	14,56	3,91	FG12 SMR 80A4				
53	95	26,16	1,11	FG12 SMB 80A4				
58	87	23,68	1,22	FG12 SMB 80A4				
65	78	21,02	1,35	FG12 SMB 80A4				
84	60	16,39	1,72	FG12 SMB 80A4				
93	54	14,85	1,90	FG12 SMB 80A4				
102	49	13,53	2,06	FG12 SMB 80A4				
113	45	12,14	2,26	FG12 SMB 80A4				
120	42	11,49	2,40	FG12 SMB 80A4				
137	37	10,02	2,72	FG12 SMB 80A4				
159	32	8,65	3,12	FG12 SMR 80A4				
178	28	7,71	3,42	FG12 SMR 80A4				
200	25	6,88	3,77	FG12 SMR 80A4				
222	23	6,19	4,05	FG12 SMR 80A4				
239	21	5,74	4,22	FG12 SMR 80A4				
0,75	0,5	12949	2774,74	1,04	FG85 SMB 80B4	518	158	
	0,57	11358	2419,83	1,19	FG85 SMR 80B4			
	0,62	10442	2231,94	1,29	FG85 SMR 80B4			


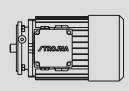



P	n ₂	Mt ₂	i	f _b			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
0,75	0,67	9663	2064,93	1,40			518	158			
	0,77	8408	1781,00	1,61					FG85	SMR	80B4
	0,81	7993	1697,61	1,69					FG85	SMR	80B4
	0,9	7194	1521,04	1,88					FG85	SMR	80B4
	1,1	5886	1298,90	2,29					FG85	SMR	80B4
	1,2	5395	1115,97	2,50					FG85	SMR	80B4
	1,4	4625	962,70	2,92					FG85	SMR	80B4
	1,7	3808	793,23	3,54					FG85	SMR	80B4
	0,8	8258	1708,36	0,99			332	152			
	0,89	7423	1547,75	1,10					FG74	SMB	80B4
	1	6606	1360,36	1,24					FG74	SMB	80B4
	1,2	5505	1186,36	1,49					FG74	SMR	80B4
	1,3	5082	1094,25	1,61					FG74	SMR	80B4
	1,4	4719	1012,36	1,74					FG74	SMR	80B4
	1,6	4129	873,16	1,99					FG74	SMR	80B4
	1,7	3886	832,28	2,11					FG74	SMR	80B4
	1,8	3670	745,71	2,23					FG74	SMR	80B4
	2,2	3003	636,81	2,73					FG74	SMR	80B4
	2,5	2643	547,12	3,10					FG74	SMR	80B4
	2,9	2278	471,98	3,60					FG74	SMR	80B4
	3,5	1888	388,90	4,34					FG74	SMR	80B4
	1,3	5082	1064,51	0,96							220
	1,5	4404	918,14	1,11	FG64	SMR	80B4				
	1,6	4129	875,15	1,19	FG64	SMR	80B4				
	1,8	3670	784,12	1,34	FG64	SMR	80B4				
	2,1	3146	669,61	1,56	FG64	SMR	80B4				
	2,4	2753	575,30	1,78	FG64	SMR	80B4				
	2,8	2359	496,29	2,08	FG64	SMR	80B4				
	3,4	1943	408,93	2,52	FG64	SMR	80B4				
	2,6	2593	535,28	1,89			215	144			
	2,8	2408	486,51	2,04					FG63	SMB	80B4
	3,1	2175	445,25	2,25					FG63	SMB	80B4
	3,4	1983	409,88	2,47					FG63	SMB	80B4
	3,7	1822	374,24	2,69					FG63	SMB	80B4
	4	1685	341,61	2,91					FG63	SMB	80B4
	4,5	1498	307,71	3,27					FG63	SMB	80B4
	5,1	1322	268,21	3,71					FG63	SMR	80B4
	5,4	1248	252,43	3,93					FG63	SMR	80B4
	5,9	1143	232,86	4,29					FG63	SMR	80B4
	2,2	3003	617,93	0,97			113	140			
	2,7	2447	514,07	1,19					FG54	SMR	80B4
	3	2202	455,32	1,32					FG54	SMR	80B4
	2,5	2697	546,69	1,08			111	138			
	2,8	2408	493,98	1,20					FG53	SMB	80B4
	3,1	2175	449,37	1,33					FG53	SMB	80B4
	3,3	2043	411,14	1,42					FG53	SMB	80B4
	3,6	1873	386,59	1,55					FG53	SMB	80B4
	3,9	1729	350,24	1,68					FG53	SMB	80B4


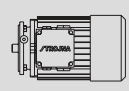




P	n ₂	Mt ₂	i	f _b			m					
[kW]	[min ⁻¹]	[Nm]					[kg]					
0,75	4,5	1498	307,84	1,94		FG53	SMB	80B4	111	138		
	5,1	1322	268,47	2,19		FG53	SMR	80B4				
	5,6	1204	247,62	2,41		FG53	SMR	80B4				
	6	1124	229,09	2,58		FG53	SMR	80B4				
	7	963	197,59	3,01		FG53	SMR	80B4				
	7,3	923	188,34	3,14		FG53	SMR	80B4				
	8,1	832	168,75	3,48		FG53	SMR	80B4				
	9,5	710	144,11	4,09		FG53	SMR	80B4				
	4,2	1605	330,55	0,97		FG43	SMB	80B4			68	132
	4,6	1465	299,47	1,06		FG43	SMB	80B4				
	5,2	1296	263,21	1,20		FG43	SMB	80B4				
	6	1124	229,55	1,38		FG43	SMR	80B4				
	6,5	1037	211,72	1,49		FG43	SMR	80B4				
	7	963	195,88	1,61		FG43	SMR	80B4				
8,1	832	168,95	1,86	FG43	SMR	80B4						
8,5	793	161,03	1,95	FG43	SMR	80B4						
9,5	710	144,29	2,18	FG43	SMR	80B4						
11	613	123,21	2,53	FG43	SMR	80B4						
13	519	105,86	2,99	FG43	SMR	80B4						
15	449	91,32	3,45	FG43	SMR	80B4						
18	375	75,25	4,14	FG43	SMR	80B4						
14	491	98,50	2,77		FG42	SMB	80B4	66	130			
15	459	89,52	3,38		FG42	SMB	80B4					
17	405	81,93	3,83		FG42	SMB	80B4					
18	382	75,42	4,06		FG42	SMB	80B4					
25	275	56,02	2,81		FG42	SMB	80B4					
27	255	50,92	3,57		FG42	SMB	80B4					
30	229	46,60	4,31		FG42	SMB	80B4					
8	843	172,50	0,97		FG33	SMR	80B4	45	128			
8,9	757	153,87	1,08		FG33	SMR	80B4					
9,9	681	138,48	1,20		FG33	SMR	80B4					
11	613	128,45	1,34		FG33	SMR	80B4					
12	562	110,55	1,46		FG33	SMR	80B4					
15	449	91,97	1,82		FG33	SMR	80B4					
17	397	81,46	2,07		FG33	SMR	80B4					
12	573	111,52	1,03		FG32	SMB	80B4	42	126			
14	491	101,42	1,60		FG32	SMB	80B4					
15	459	94,36	1,79		FG32	SMB	80B4					
17	405	81,02	2,03		FG32	SMB	80B4					
19	362	73,47	2,26		FG32	SMB	80B4					
20	344	68,56	2,38		FG32	SMB	80B4					
22	313	62,29	2,62		FG32	SMB	80B4					
24	287	56,70	2,86		FG32	SMB	80B4					
27	255	51,60	3,22		FG32	SMB	80B4					
30	229	45,52	3,58		FG32	SMB	80B4					
33	208	41,33	3,93		FG32	SMR	80B4					
36	191	37,77	4,29		FG32	SMR	80B4					
26	265	52,68	1,84		FG32	SMB	80B4					


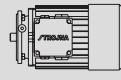









P	n ₂	Mt ₂	i	f _b			m						
[kW]	[min ⁻¹]	[Nm]					[kg]						
0,75	34	202	41,02	2,92	FG32	SMB	80B4	42	126				
	40	172	34,78	3,79									
	43	160	31,65	4,14									
	16	421	88,46	1,00	FG23	SMR	80B4	29	124				
	17	397	82,06	1,06									
	19	355	70,62	1,18									
	23	293	58,75	1,43									
	26	259	52,04	1,62									
	16	430	86,58	0,98									
	17	405	80,18	1,04									
	19	362	73,26	1,16	FG22	SMB	80B4	27	122				
	22	313	62,48	1,34									
	24	287	56,45	1,47									
	27	255	51,36	1,65									
	29	237	46,99	1,77									
	31	222	44,18	1,89									
	34	202	40,03	2,08									
	39	176	35,18	2,38									
	45	153	30,68	2,75									
	49	140	28,30	2,99									
	53	130	26,18	3,24									
	61	113	22,58	3,72									
	64	107	21,52	3,91									
	71	97	19,29	4,34									
	30	229	46,41	1,15									
	32	215	42,98	1,47									
	35	197	39,27	1,61									
41	168	33,49	1,88										
50	138	27,53	2,30										
55	125	25,19	2,52										
58	119	23,68	2,66										
73	94	18,86	3,32										
84	82	16,45	3,80										
91	76	15,17	4,10										
98	70	14,04	4,40										
35	197	39,84	1,07	FG12	SMB	80B4	22	120					
38	181	35,76	1,16										
41	168	33,83	1,25										
47	146	29,50	1,43										
54	127	25,48	1,65										
61	113	22,72	1,86										
68	101	20,26	2,08										
75	92	18,24	2,29										
81	85	16,92	2,47										
94	73	14,56	2,87										
114	60	12,11	3,48										
128	54	10,73	3,91										
84	82	16,39	1,26						FG12	SMB	80B4		


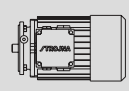






P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,75	93	74	14,85	1,39		FG12 SMB 80B4	22	120
	102	67	13,53	1,51		FG12 SMB 80B4		
	113	61	12,14	1,66		FG12 SMB 80B4		
	120	57	11,49	1,76		FG12 SMB 80B4		
	137	50	10,02	1,99		FG12 SMB 80B4		
	159	43	8,65	2,29		FG12 SMR 80B4		
	178	39	7,71	2,51		FG12 SMR 80B4		
	200	34	6,88	2,76		FG12 SMR 80B4		
	222	31	6,19	2,97		FG12 SMR 80B4		
	239	29	5,74	3,09		FG12 SMR 80B4		
	278	25	4,94	3,39		FG12 SMR 80B4		
	334	21	4,11	3,69		FG12 SMR 80B4		
	377	18	3,64	3,84		FG12 SMR 80B4		
	1,10	0,68	13964	2064,93		0,97		
0,79		12020	1781,00	1,12	FG85 SMR 90S4			
0,83		11441	1697,61	1,18	FG85 SMR 90S4			
0,93		10210	1521,04	1,32	FG85 SMR 90S4			
1,1		8632	1298,90	1,56	FG85 SMR 90S4			
1,3		7304	1115,97	1,85	FG85 SMR 90S4			
1,5		6330	962,70	2,13	FG85 SMR 90S4			
1,8		5275	793,23	2,56	FG85 SMR 90S4			
1,2		8075	1186,36	1,02	FG74 SMB 90S4			
1,3		7453	1094,25	1,10	FG74 SMB 90S4			
1,4		6921	1012,36	1,18	FG74 SMR 90S4			
1,6		6056	873,16	1,35	FG74 SMR 90S4			
1,7		5700	832,28	1,44	FG74 SMR 90S4			
1,9		5100	745,71	1,61	FG74 SMR 90S4			
2,2		4404	636,81	1,86	FG74 SMR 90S4			
2,6		3727	547,12	2,20	FG74 SMR 90S4			
3		3230	471,98	2,54	FG74 SMR 90S4			
3,6		2692	388,90	3,05	FG74 SMR 90S4			
2,1		4614	669,61	1,06	FG64 SMR 90S4			
2,5		3876	575,30	1,26	FG64 SMR 90S4			
2,8		3461	496,29	1,42	FG64 SMR 90S4			
3,4		2850	408,93	1,72	FG64 SMR 90S4			
2,6		3803	535,28	1,29	FG63 SMB 90S4			
2,9		3409	486,51	1,44	FG63 SMB 90S4			
3,2		3090	445,25	1,59	FG63 SMB 90S4			
3,4		2908	409,88	1,69	FG63 SMB 90S4			
3,8		2602	374,24	1,88	FG63 SMB 90S4			
4,1		2412	341,61	2,03	FG63 SMB 90S4			
4,6		2149	307,71	2,28	FG63 SMB 90S4			
5,3		1866	268,21	2,63	FG63 SMB 90S4			
5,6		1766	252,43	2,78	FG63 SMB 90S4			
6,1		1621	232,86	3,02	FG63 SMR 90S4			
6,7		1476	209,58	3,32	FG63 SMR 90S4			
7,5		1318	188,51	3,72	FG63 SMR 90S4			
8	1236	175,96	3,96	FG63 SMR 90S4				


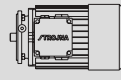





P	n ₂	Mt ₂	i	f _B			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
1,10	3,4	2908	411,14	1,00		FG53	SMB	90S4			
	3,6	2746	386,59	1,06		FG53	SMB	90S4			
	4	2472	350,24	1,17		FG53	SMB	90S4			
	4,6	2149	307,84	1,35		FG53	SMB	90S4			
	5,3	1866	268,47	1,55		FG53	SMB	90S4			
	5,7	1735	247,62	1,67		FG53	SMB	90S4			
	6,2	1595	229,09	1,82		FG53	SMR	90S4		115	138
	7,1	1393	197,59	2,08		FG53	SMR	90S4			
	7,5	1318	188,34	2,20		FG53	SMR	90S4			
	8,4	1177	168,75	2,46		FG53	SMR	90S4			
	9,8	1009	144,11	2,87		FG53	SMR	90S4			
	11	899	123,81	3,23		FG53	SMR	90S4			
	13	761	106,81	3,81		FG53	SMR	90S4			
6,1	1621	229,55	0,96	FG43	SMB	90S4					
6,7	1476	211,72	1,05	FG43	SMB	90S4					
7,2	1373	195,88	1,13	FG43	SMR	90S4					
8,3	1191	168,95	1,30	FG43	SMR	90S4					
8,8	1124	161,03	1,38	FG43	SMR	90S4		72	132		
9,8	1009	144,29	1,54	FG43	SMR	90S4					
11	899	123,21	1,72	FG43	SMR	90S4					
13	761	105,86	2,04	FG43	SMR	90S4					
15	659	91,32	2,35	FG43	SMR	90S4					
19	520	75,25	2,98	FG43	SMR	90S4					
14	721	98,50	1,89	FG42	SMB	90S4					
16	631	89,52	2,46	FG42	SMB	90S4					
17	593	81,93	2,61	FG42	SMB	90S4					
19	531	75,42	2,92	FG42	SMB	90S4					
20	504	68,86	3,07	FG42	SMB	90S4					
22	459	62,86	3,38	FG42	SMB	90S4	70		130		
25	404	56,62	3,84	FG42	SMB	90S4					
29	348	49,35	4,46	FG42	SMB	90S4					
28	360	50,92	2,52	FG42	SMB	90S4					
30	336	46,60	2,94	FG42	SMB	90S4					
33	306	42,90	3,40	FG42	SMB	90S4					
36	280	39,17	3,88	FG42	SMB	90S4					
13	761	110,55	1,08	FG33	SMR	90S4					
15	659	91,97	1,24	FG33	SMR	90S4		49	128		
17	582	81,46	1,41	FG33	SMR	90S4					
14	721	101,42	1,09	FG32	SMB	90S4					
15	673	94,36	1,22	FG32	SMB	90S4					
17	593	81,02	1,38	FG32	SMB	90S4					
19	531	73,47	1,54	FG32	SMB	90S4					
21	480	68,56	1,71	FG32	SMB	90S4		46	126		
23	439	62,29	1,87	FG32	SMB	90S4					
25	404	56,70	2,03	FG32	SMB	90S4					
27	374	51,60	2,19	FG32	SMB	90S4					
31	325	45,52	2,52	FG32	SMB	90S4					
34	297	41,33	2,76	FG32	SMB	90S4					


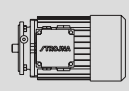



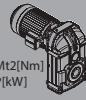
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
1,10	37	273	37,77	3,01		FG32 SMB 90S4	46	126
	40	252	35,67	3,25		FG32 SMR 90S4		
	45	224	31,15	3,66		FG32 SMR 90S4		
	51	198	27,69	4,15		FG32 SMR 90S4		
	41	246	34,78	2,65		FG32 SMB 90S4		
	49	206	28,81	3,21		FG32 SMB 90S4		
	55	183	25,41	3,58		FG32 SMB 90S4		
	61	165	23,07	3,93		FG32 SMB 90S4		
	67	151	21,09	4,30		FG32 SMB 90S4		
24	412	58,75	1,02	FG23	SMR 90S4	33	124	
27	366	52,04	1,15	FG23	SMR 90S4			
23	439	62,48	0,96		FG22 SMB 90S4	31	122	
25	404	56,45	1,04		FG22 SMB 90S4			
27	374	51,36	1,12		FG22 SMB 90S4			
30	336	46,99	1,25		FG22 SMB 90S4			
32	315	44,18	1,33		FG22 SMB 90S4			
35	288	40,03	1,46		FG22 SMB 90S4			
40	252	35,18	1,67		FG22 SMB 90S4			
46	219	30,68	1,91		FG22 SMB 90S4			
50	202	28,30	2,08		FG22 SMB 90S4			
54	187	26,18	2,25		FG22 SMR 90S4			
62	163	22,58	2,58		FG22 SMR 90S4			
66	153	21,52	2,75		FG22 SMR 90S4			
73	138	19,29	3,04		FG22 SMR 90S4			
86	117	16,47	3,58		FG22 SMR 90S4			
100	101	14,15	4,16		FG22 SMR 90S4			
33	306	42,98	1,04		FG22 SMB 90S4			
36	280	39,27	1,13		FG22 SMB 90S4			
42	240	33,49	1,32		FG22 SMB 90S4			
47	215	30,26	1,47		FG22 SMB 90S4			
51	198	27,53	1,60		FG22 SMB 90S4			
56	180	25,19	1,75		FG22 SMB 90S4			
60	168	23,68	1,87		FG22 SMB 90S4			
75	135	18,86	2,33		FG22 SMB 90S4			
93	108	15,17	2,86		FG22 SMB 90S4			
116	87	12,11	3,52		FG22 SMR 90S4			
122	83	11,54	3,68		FG22 SMR 90S4			
136	74	10,34	4,08		FG22 SMR 90S4			
48	210	29,50	1,00		FG12 SMB 90S4	26	120	
55	183	25,48	1,14		FG12 SMB 90S4			
62	163	22,72	1,29		FG12 SMB 90S4			
70	144	20,26	1,46		FG12 SMR 90S4			
77	131	18,24	1,60		FG12 SMR 90S4			
83	122	16,92	1,73		FG12 SMR 90S4			
97	104	14,56	2,02		FG12 SMR 90S4			
116	87	12,11	2,41		FG12 SMR 90S4			
131	77	10,73	2,73		FG12 SMR 90S4			
104	97	13,53	1,05		FG12 SMB 90S4			


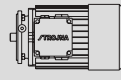



P	n ₂	Mt ₂	i	f _B			m							
[kW]	[min ⁻¹]	[Nm]					[kg]							
1,10	123	82	11,49	1,23		FG12 SMB 90S4	26	120						
	141	72	10,02	1,40		FG12 SMB 90S4								
	163	62	8,65	1,60		FG12 SMB 90S4								
	183	55	7,71	1,76		FG12 SMB 90S4								
	205	49	6,88	1,93		FG12 SMR 90S4								
	228	44	6,19	2,08		FG12 SMR 90S4								
	245	41	5,74	2,16		FG12 SMR 90S4								
	285	35	4,94	2,37		FG12 SMR 90S4								
	343	29	4,11	2,58		FG12 SMR 90S4								
	387	26	3,64	2,69		FG12 SMR 90S4								
1,50	0,92	14075	1521,04	0,96		FG85 SMR 90L4	525	158						
	1,1	11772	1298,90	1,15		FG85 SMR 90L4								
	1,3	9961	1115,97	1,36		FG85 SMR 90L4								
	1,5	8632	962,70	1,56		FG85 SMR 90L4								
	1,8	7194	793,23	1,88		FG85 SMR 90L4								
	1,6	8258	873,16	0,99		FG74 SMR 90L4			339	152				
	1,7	7772	832,28	1,06		FG74 SMR 90L4								
	1,9	6954	745,71	1,18		FG74 SMR 90L4								
	2,2	6006	636,81	1,37		FG74 SMR 90L4								
	2,6	5082	547,12	1,61		FG74 SMR 90L4								
	3	4404	471,98	1,86		FG74 SMR 90L4								
	3,6	3670	388,90	2,23		FG74 SMR 90L4								
	2,8	4719	496,29	1,04		FG64 SMR 90L4					227	146		
	3,4	3886	408,93	1,26		FG64 SMR 90L4								
	2,9	4649	486,51	1,05		FG63 SMB 90L4								
	3,2	4213	445,25	1,16		FG63 SMB 90L4								
	3,4	3965	409,88	1,24		FG63 SMB 90L4								
	3,8	3548	374,24	1,38		FG63 SMB 90L4								
	4,1	3288	341,61	1,49		FG63 SMB 90L4								
	4,6	2931	307,71	1,67		FG63 SMB 90L4								
	5,2	2593	268,21	1,89		FG63 SMB 90L4								
	5,6	2408	252,43	2,04		FG63 SMB 90L4								
	6	2247	232,86	2,18		FG63 SMR 90L4								
	6,7	2012	209,58	2,43		FG63 SMR 90L4								
	7,5	1798	188,51	2,73		FG63 SMR 90L4								
	8	1685	175,96	2,91		FG63 SMR 90L4								
	9,1	1482	154,45	3,31		FG63 SMR 90L4								
	10	1348	136,68	3,63		FG63 SMR 90L4								
	4,6	2931	307,84	0,99		FG53 SMB 90L4							118	138
	5,2	2593	268,47	1,12		FG53 SMB 90L4								
	5,7	2365	247,62	1,23		FG53 SMB 90L4								
	6,1	2210	229,09	1,31		FG53 SMR 90L4								
7,1	1899	197,59	1,53	FG53 SMR 90L4										
7,5	1798	188,34	1,61	FG53 SMR 90L4										
8,3	1624	168,75	1,79	FG53 SMR 90L4										
9,7	1390	144,11	2,09	FG53 SMR 90L4										
11	1226	123,81	2,37	FG53 SMR 90L4										
13	1037	106,81	2,80	FG53 SMR 90L4										


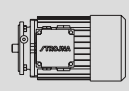



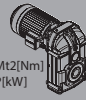
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
1,50	16	843	88,00	3,44		FG53 SMR 90L4	118	138
	8,3	1624	168,95	0,95		FG43 SMR 90L4		
	8,7	1550	161,03	1,00		FG43 SMR 90L4		
	9,7	1390	144,29	1,12		FG43 SMR 90L4		
	11	1226	123,21	1,26		FG43 SMR 90L4	75	132
	13	1037	105,86	1,49		FG43 SMR 90L4		
	15	899	91,32	1,72		FG43 SMR 90L4		
	19	710	75,25	2,18		FG43 SMR 90L4		
	14	983	98,50	1,39		FG42 SMB 90L4		
	16	860	89,52	1,80		FG42 SMB 90L4		
	17	809	81,93	1,92		FG42 SMB 90L4		
	19	724	75,42	2,14		FG42 SMB 90L4		
	22	625	62,86	2,48		FG42 SMB 90L4		
	25	550	56,62	2,82		FG42 SMB 90L4		
	28	491	49,35	3,15		FG42 SMB 90L4	73	130
	30	459	46,45	3,38		FG42 SMB 90L4		
	33	417	42,85	3,72		FG42 SMR 90L4		
	36	382	38,56	4,06		FG42 SMR 90L4		
	39	353	35,75	3,32		FG42 SMB 90L4		
	44	313	32,20	3,92		FG42 SMB 90L4		
	50	275	28,07	4,50		FG42 SMB 90L4		
	17	793	81,46	1,03		FG33 SMR 90L4	52	126
	17	809	81,02	1,01		FG32 SMB 90L4		
	19	724	73,47	1,13		FG32 SMB 90L4		
	20	688	68,56	1,19		FG32 SMB 90L4		
	23	598	62,29	1,37		FG32 SMB 90L4		
	25	550	56,70	1,49		FG32 SMB 90L4		
	27	510	51,60	1,61		FG32 SMB 90L4		
	31	444	45,52	1,85		FG32 SMB 90L4		
	34	405	41,33	2,03		FG32 SMB 90L4		
	37	372	37,77	2,21		FG32 SMB 90L4		
	39	353	35,67	2,32		FG32 SMR 90L4		
	45	306	31,15	2,68		FG32 SMR 90L4		
	51	270	27,69	3,04		FG32 SMR 90L4	49	124
	56	246	25,22	3,34		FG32 SMR 90L4		
	64	215	21,90	3,81		FG32 SMR 90L4		
	73	188	19,17	4,35		FG32 SMR 90L4		
	40	344	34,78	1,90		FG32 SMB 90L4		
	44	313	31,65	2,12		FG32 SMB 90L4		
	49	281	28,81	2,35		FG32 SMB 90L4		
	55	250	25,41	2,63		FG32 SMB 90L4		
	61	226	23,07	2,88		FG32 SMB 90L4		
	67	205	21,09	3,16		FG32 SMB 90L4		
	71	194	19,91	3,33		FG32 SMR 90L4		
	81	170	17,39	3,79		FG32 SMR 90L4		
	91	151	15,46	4,25		FG32 SMR 90L4		
	32	430	44,18	0,98		FG22 SMB 90L4	34	122
	35	393	40,03	1,07		FG22 SMB 90L4		


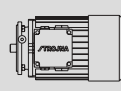



P	n ₂	Mt ₂	i	f _B			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
1,50	40	344	35,18	1,22		FG22	SMB	90L4	34	122
	46	299	30,68	1,40		FG22	SMB	90L4		
	50	275	28,30	1,53		FG22	SMB	90L4		
	54	255	26,18	1,65		FG22	SMR	90L4		
	62	222	22,58	1,89		FG22	SMR	90L4		
	65	212	21,52	1,98		FG22	SMR	90L4		
	73	188	19,29	2,23		FG22	SMR	90L4		
	85	162	16,47	2,59		FG22	SMR	90L4		
	99	139	14,15	3,02		FG22	SMR	90L4		
	115	120	12,21	3,51		FG22	SMR	90L4		
	140	98	10,06	4,27		FG22	SMR	90L4		
	51	270	27,53	1,17		FG22	SMB	90L4		
	56	246	25,19	1,28		FG22	SMB	90L4		
	59	233	23,68	1,35		FG22	SMB	90L4		
	74	186	18,86	1,68		FG22	SMB	90L4		
	93	148	15,17	2,10		FG22	SMB	90L4		
	100	138	14,04	2,25		FG22	SMR	90L4		
	116	119	12,11	2,58		FG22	SMR	90L4		
	122	113	11,54	2,70		FG22	SMR	90L4		
	136	101	10,34	3,00		FG22	SMR	90L4		
159	87	8,83	3,47	FG22	SMR	90L4				
185	74	7,59	3,98	FG22	SMR	90L4				
2,20	69	199	20,26	1,05	FG12	SMR	90L4	29	120	
	77	179	18,24	1,18	FG12	SMR	90L4			
	83	166	16,92	1,27	FG12	SMR	90L4			
	97	142	14,56	1,48	FG12	SMR	90L4			
	116	119	12,11	1,77	FG12	SMR	90L4			
	131	105	10,73	2,00	FG12	SMR	90L4			
	140	98	10,02	1,02	FG12	SMB	90L4			
	162	85	8,65	1,17	FG12	SMB	90L4			
	182	76	7,71	1,28	FG12	SMB	90L4			
	204	67	6,88	1,41	FG12	SMR	90L4			
	227	61	6,19	1,52	FG12	SMR	90L4			
	245	56	5,74	1,58	FG12	SMR	90L4			
	284	48	4,94	1,73	FG12	SMR	90L4			
	342	40	4,11	1,89	FG12	SMR	90L4			
	386	36	3,64	1,96	FG12	SMR	90L4			
	2,20	1,5	12661	962,70	1,07	FG85	SMR			100L4
1,8		10551	793,23	1,28	FG85	SMR	100L4			
1,6		12112	886,86	1,11	FG84	SMB	100L4			
1,9		10199	760,01	1,32	FG84	SMB	100L4			
2		9689	694,93	1,39	FG84	SMB	100L4			
2,3		8426	616,61	1,60	FG84	SMB	100L4			
2,6		7453	548,50	1,81	FG84	SMB	100L4			
2,7		7177	516,23	1,88	FG84	SMB	100L4			
3		6460	469,90	2,09	FG84	SMB	100L4			
3,3		5872	421,59	2,30	FG84	SMR	100L4			
3,7		5238	382,39	2,58	FG84	SMR	100L4			


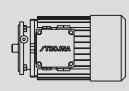



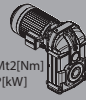
P	n ₂	Mt ₂	i	f _b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
2,20	4	4845	353,21	2,79	FG84	SMR	100L4	526	156	
	4,5	4306	311,38	3,13		SMR	100L4			
	5,1	3800	276,82	3,55		SMR	100L4			
	5,7	3400	246,38	3,97		SMR	100L4			
	6	3230	234,95	4,18		SMR	100L4			
	2,6	7453	547,12	1,10		FG74	SMR			100L4
	3	6460	471,98	1,27	FG74	SMR	100L4			
	3,6	5383	388,90	1,52	FG73	SMR	100L4			
	3,2	6180	434,80	1,33	FG73	SMB	100L4	341	150	
	3,8	5204	372,61	1,58	FG73	SMB	100L4			
	4,1	4823	340,70	1,70	FG73	SMB	100L4			
	4,7	4207	302,30	1,95	FG73	SMB	100L4			
	5,2	3803	268,91	2,16	FG73	SMB	100L4			
	5,6	3531	253,09	2,32	FG73	SMB	100L4			
	6,1	3242	230,38	2,53	FG73	SMB	100L4			
	6,8	2908	206,69	2,82	FG73	SMR	100L4			
	7,5	2637	187,47	3,11	FG73	SMR	100L4			
	8,1	2441	173,17	3,36	FG73	SMR	100L4			
	9,2	2149	152,66	3,82	FG73	SMR	100L4			
	10	1977	135,72	4,15	FG73	SMR	100L4			
4,1	4823	341,61	1,02	FG63	SMB	100L4	227			144
4,6	4299	307,71	1,14	FG63	SMB	100L4				
5,3	3731	268,21	1,31	FG63	SMB	100L4				
5,6	3531	252,43	1,39	FG63	SMB	100L4				
6,1	3242	232,86	1,51	FG63	SMB	100L4				
6,7	2951	209,58	1,66	FG63	SMR	100L4				
7,5	2637	188,51	1,86	FG63	SMR	100L4				
8	2472	175,96	1,98	FG63	SMR	100L4				
9,1	2173	154,45	2,25	FG63	SMR	100L4				
10	1977	136,68	2,48	FG63	SMR	100L4				
12	1648	115,15	2,97	FG63	SMR	100L4				
14	1412	98,08	3,47	FG63	SMR	100L4				
17	1163	84,20	4,21	FG63	SMR	100L4				
7,1	2785	197,59	1,04	FG53	SMR	100L4	123	138		
7,5	2637	188,34	1,10	FG53	SMR	100L4				
8,4	2354	168,75	1,23	FG53	SMR	100L4				
9,8	2018	144,11	1,44	FG53	SMR	100L4				
11	1798	123,81	1,61	FG53	SMR	100L4				
13	1521	106,81	1,91	FG53	SMR	100L4				
16	1236	88,00	2,35	FG53	SMR	100L4				
14	1441	98,39	1,68	FG52	SMB	100L4			122	136
17	1187	84,32	2,44	FG52	SMB	100L4				
18	1121	77,10	2,59	FG52	SMB	100L4				
21	961	68,41	3,02	FG52	SMB	100L4				
23	877	60,85	3,31	FG52	SMB	100L4				
25	807	57,27	3,59	FG52	SMB	100L4				
27	747	52,13	3,88	FG52	SMB	100L4				
30	673	46,77	4,31	FG52	SMR	100L4				


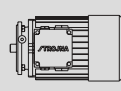



P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
2,20	34	593	41,74	3,97	FG52	SMB 100L4	122	136
	13	1521	105,86	1,02	FG43	SMR 100L4		
	15	1318	91,32	1,18	FG43	SMR 100L4	80	132
	19	1041	75,25	1,49	FG43	SMR 100L4		
	16	1261	89,52	1,23	FG42	SMB 100L4		
	17	1187	81,93	1,31	FG42	SMB 100L4		
	19	1062	75,42	1,46	FG42	SMB 100L4		
	20	1009	68,86	1,54	FG42	SMB 100L4		
	22	917	62,86	1,69	FG42	SMB 100L4		
	25	807	56,62	1,92	FG42	SMB 100L4		
	29	696	49,35	2,23	FG42	SMB 100L4		
	30	673	46,45	2,30	FG42	SMB 100L4		
	33	611	42,85	2,53	FG42	SMB 100L4		
	37	545	38,56	2,84	FG42	SMR 100L4		
	41	492	34,69	3,15	FG42	SMR 100L4	78	130
	44	459	32,38	3,38	FG42	SMR 100L4		
	50	404	28,42	3,84	FG42	SMR 100L4		
	56	360	25,15	4,30	FG42	SMR 100L4		
	28	721	50,92	1,26	FG42	SMB 100L4		
	36	561	39,17	1,94	FG42	SMB 100L4		
	39	517	35,75	2,26	FG42	SMB 100L4		
	53	381	26,42	3,23	FG42	SMB 100L4		
	58	348	24,37	3,51	FG42	SMB 100L4		
	64	315	21,93	3,86	FG42	SMR 100L4		
	71	284	19,73	4,27	FG42	SMR 100L4		
	25	807	56,70	1,02	FG32	SMB 100L4		
	27	747	51,60	1,10	FG32	SMB 100L4		
	31	651	45,52	1,26	FG32	SMB 100L4		
	34	593	41,33	1,38	FG32	SMB 100L4		
	37	545	37,77	1,50	FG32	SMB 100L4		
	40	504	35,67	1,63	FG32	SMB 100L4		
	45	448	31,15	1,83	FG32	SMR 100L4		
	51	396	27,69	2,07	FG32	SMR 100L4		
	56	360	25,22	2,28	FG32	SMR 100L4		
	64	315	21,90	2,60	FG32	SMR 100L4		
	74	273	19,17	3,01	FG32	SMR 100L4		
	89	227	15,85	3,62	FG32	SMR 100L4	54	126
	107	189	13,22	4,35	FG32	SMR 100L4		
	41	492	34,78	1,32	FG32	SMB 100L4		
	49	412	28,81	1,61	FG32	SMB 100L4		
	55	367	25,41	1,79	FG32	SMB 100L4		
	61	331	23,07	1,97	FG32	SMB 100L4		
	67	301	21,09	2,15	FG32	SMB 100L4		
	71	284	19,91	2,27	FG32	SMB 100L4		
	81	249	17,39	2,59	FG32	SMR 100L4		
	91	222	15,46	2,90	FG32	SMR 100L4		
	100	202	14,08	3,18	FG32	SMR 100L4		
	115	175	12,23	3,64	FG32	SMR 100L4		


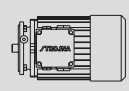

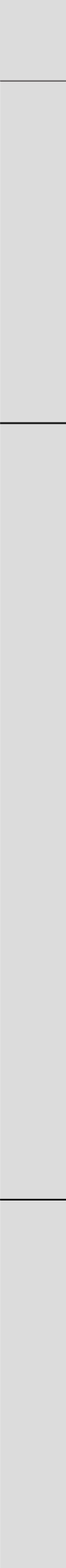


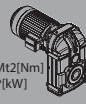
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
2,20	132	153	10,70	4,14		FG32	SMR 100L4	54 126
	46	439	30,68	0,96		FG22	SMB 100L4	
	50	404	28,30	1,04		FG22	SMB 100L4	
	54	374	26,18	1,12		FG22	SMB 100L4	
	62	325	22,58	1,29		FG22	SMR 100L4	
	66	306	21,52	1,37		FG22	SMR 100L4	
	73	276	19,29	1,52		FG22	SMR 100L4	
	86	235	16,47	1,79		FG22	SMR 100L4	
	100	202	14,15	2,08		FG22	SMR 100L4	
	116	174	12,21	2,41		FG22	SMR 100L4	39 122
	140	144	10,06	2,91		FG22	SMR 100L4	
	75	269	18,86	1,16		FG22	SMB 100L4	
	93	217	15,17	1,43		FG22	SMB 100L4	
	122	165	11,54	1,84		FG22	SMR 100L4	
	136	148	10,34	2,04		FG22	SMR 100L4	
	160	126	8,83	2,38		FG22	SMR 100L4	
	186	108	7,59	2,73		FG22	SMR 100L4	
	215	94	6,54	3,11		FG22	SMR 100L4	
	262	77	5,39	3,58		FG22	SMR 100L4	
3,00	1,9	13908	760,01	0,97		FG84	SMB 100Ld4	
	2	13213	694,93	1,02		FG84	SMB 100Ld4	
	2,3	11489	616,61	1,17		FG84	SMB 100Ld4	
	2,6	10164	548,50	1,33		FG84	SMB 100Ld4	
	2,7	9787	516,23	1,38		FG84	SMB 100Ld4	
	3	8809	469,90	1,53		FG84	SMB 100Ld4	
	3,3	8008	421,59	1,69		FG84	SMR 100Ld4	
	3,7	7142	382,39	1,89		FG84	SMR 100Ld4	528 156
	4	6606	353,21	2,04		FG84	SMR 100Ld4	
	4,5	5872	311,38	2,30		FG84	SMR 100Ld4	
	5,1	5182	276,82	2,61		FG84	SMR 100Ld4	
	5,7	4636	246,38	2,91		FG84	SMR 100Ld4	
	6	4404	234,95	3,07		FG84	SMR 100Ld4	
	7	3775	201,75	3,58		FG84	SMR 100Ld4	
	8,1	3262	174,77	4,14		FG84	SMR 100Ld4	
	3,6	7341	388,90	1,12		FG74	SMR 100Ld4	346 152
	3,2	8427	434,80	0,97		FG73	SMB 100Ld4	
	3,8	7096	372,61	1,16		FG73	SMB 100Ld4	
	4,1	6577	340,70	1,25		FG73	SMB 100Ld4	
	4,7	5737	302,30	1,43		FG73	SMB 100Ld4	
	5,2	5186	268,91	1,58		FG73	SMB 100Ld4	
	5,6	4815	253,09	1,70		FG73	SMB 100Ld4	
	6,1	4421	230,38	1,85		FG73	SMB 100Ld4	343 150
	6,8	3965	206,69	2,07		FG73	SMR 100Ld4	
	7,5	3595	187,47	2,28		FG73	SMR 100Ld4	
	8,1	3329	173,17	2,46		FG73	SMR 100Ld4	
	9,2	2931	152,66	2,80		FG73	SMR 100Ld4	
	10	2697	135,72	3,04		FG73	SMR 100Ld4	
	12	2247	120,79	3,65		FG73	SMR 100Ld4	


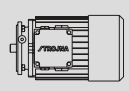



P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
3,00	14	1926	98,91	4,26	FG73	SMR 100Ld4	343	150
	5,3	5088	268,21	0,96	FG63	SMB 100Ld4		
	5,6	4815	252,43	1,02	FG63	SMB 100Ld4		
	6,1	4421	232,86	1,11	FG63	SMB 100Ld4		
	6,7	4025	209,58	1,22	FG63	SMR 100Ld4		
	7,5	3595	188,51	1,36	FG63	SMR 100Ld4		
	8	3371	175,96	1,45	FG63	SMR 100Ld4		
	9,1	2963	154,45	1,65	FG63	SMR 100Ld4	229	144
	10	2697	136,68	1,82	FG63	SMR 100Ld4		
	12	2247	115,15	2,18	FG63	SMR 100Ld4		
	14	1926	98,08	2,54	FG63	SMR 100Ld4		
	17	1586	84,20	3,09	FG63	SMR 100Ld4		
	19	1419	72,71	3,45	FG63	SMR 100Ld4		
	22	1226	63,03	4,00	FG63	SMR 100Ld4		
	9,8	2752	144,11	1,05	FG53	SMR 100Ld4		
	11	2451	123,81	1,18	FG53	SMR 100Ld4	125	138
	13	2074	106,81	1,40	FG53	SMR 100Ld4		
	16	1685	88,00	1,72	FG53	SMR 100Ld4		
	14	1965	98,39	1,23	FG52	SMB 100Ld4		
	17	1619	84,32	1,79	FG52	SMB 100Ld4		
	18	1529	77,10	1,90	FG52	SMB 100Ld4		
	21	1310	68,41	2,21	FG52	SMB 100Ld4		
	23	1196	60,85	2,42	FG52	SMB 100Ld4		
	25	1101	57,27	2,63	FG52	SMB 100Ld4		
	27	1019	52,13	2,85	FG52	SMB 100Ld4		
	30	917	46,77	3,16	FG52	SMR 100Ld4	124	136
	33	834	42,42	3,48	FG52	SMR 100Ld4		
	36	764	39,19	3,79	FG52	SMR 100Ld4		
	41	671	34,55	4,32	FG52	SMR 100Ld4		
	34	809	41,74	2,91	FG52	SMB 100Ld4		
	38	724	37,13	3,39	FG52	SMB 100Ld4		
	40	688	34,94	3,63	FG52	SMB 100Ld4		
	44	625	31,81	3,98	FG52	SMB 100Ld4		
	49	562	28,54	4,37	FG52	SMR 100Ld4		
	19	1419	75,25	1,09	FG43	SMR 100Ld4	82	132
	17	1619	81,93	0,96	FG42	SMB 100Ld4		
	19	1448	75,42	1,07	FG42	SMB 100Ld4		
	20	1376	68,86	1,13	FG42	SMB 100Ld4		
	22	1251	62,86	1,24	FG42	SMB 100Ld4		
	25	1101	56,62	1,41	FG42	SMB 100Ld4		
	29	949	49,35	1,63	FG42	SMB 100Ld4		
	30	917	46,45	1,69	FG42	SMB 100Ld4	80	130
	33	834	42,85	1,86	FG42	SMB 100Ld4		
	37	744	38,56	2,08	FG42	SMR 100Ld4		
	41	671	34,69	2,31	FG42	SMR 100Ld4		
	44	625	32,38	2,48	FG42	SMR 100Ld4		
	50	550	28,42	2,82	FG42	SMR 100Ld4		
	56	491	25,15	3,15	FG42	SMR 100Ld4		


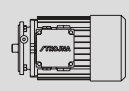





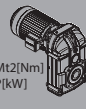
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
3,00	67	411	21,19	3,77		FG42 SMR 100Ld4	80	130
	78	353	18,05	4,39		FG42 SMR 100Ld4		
	36	764	39,17	1,42		FG42 SMB 100Ld4		
	39	706	35,75	1,66		FG42 SMB 100Ld4		
	53	519	26,42	2,37		FG42 SMB 100Ld4		
	58	474	24,37	2,57		FG42 SMB 100Ld4		
	64	430	21,93	2,83		FG42 SMR 100Ld4		
	71	388	19,73	3,13		FG42 SMR 100Ld4		
	77	357	18,42	3,39		FG42 SMR 100Ld4		
	87	316	16,16	3,81		FG42 SMR 100Ld4		
	99	278	14,30	4,31		FG42 SMR 100Ld4		
	34	809	41,33	1,01		FG32 SMB 100Ld4		
	37	744	37,77	1,10		FG32 SMB 100Ld4		
	40	688	35,67	1,19		FG32 SMB 100Ld4		
	45	611	31,15	1,34		FG32 SMR 100Ld4		
	51	540	27,69	1,52		FG32 SMR 100Ld4		
	56	491	25,22	1,67		FG32 SMR 100Ld4		
	64	430	21,90	1,91		FG32 SMR 100Ld4		
	74	372	19,17	2,21		FG32 SMR 100Ld4		
	89	309	15,85	2,65		FG32 SMR 100Ld4		
	107	257	13,22	3,19		FG32 SMR 100Ld4		
	127	217	11,08	3,78		FG32 SMR 100Ld4		
	143	192	9,86	4,26		FG32 SMR 100Ld4		
	41	671	34,78	0,97		FG32 SMB 100Ld4	56	126
	49	562	28,81	1,18		FG32 SMB 100Ld4		
	55	500	25,41	1,31		FG32 SMB 100Ld4		
	61	451	23,07	1,44		FG32 SMB 100Ld4		
	67	411	21,09	1,58		FG32 SMB 100Ld4		
	71	388	19,91	1,67		FG32 SMB 100Ld4		
	81	340	17,39	1,90		FG32 SMR 100Ld4		
	91	302	15,46	2,13		FG32 SMR 100Ld4		
100	275	14,08	2,33	FG32 SMR 100Ld4				
115	239	12,23	2,67	FG32 SMR 100Ld4				
132	208	10,70	3,04	FG32 SMR 100Ld4				
159	173	8,85	3,61	FG32 SMR 100Ld4				
191	144	7,38	4,26	FG32 SMR 100Ld4				
66	417	21,52	1,01	FG22 SMR 100Ld4	41	122		
73	377	19,29	1,11	FG22 SMR 100Ld4				
86	320	16,47	1,31	FG22 SMR 100Ld4				
100	275	14,15	1,53	FG22 SMR 100Ld4				
116	237	12,21	1,77	FG22 SMR 100Ld4				
140	197	10,06	2,14	FG22 SMR 100Ld4				
93	296	15,17	1,05	FG22 SMB 100Ld4				
122	226	11,54	1,35	FG22 SMR 100Ld4				
136	202	10,34	1,50	FG22 SMR 100Ld4				
160	172	8,83	1,74	FG22 SMR 100Ld4				
186	148	7,59	2,00	FG22 SMR 100Ld4				
215	128	6,54	2,28	FG22 SMR 100Ld4				


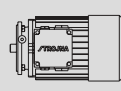




P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
3,00	262	105	5,39	2,63	FG22	SMR 100Ld4	41	122
4,00	2,6	13552	548,50	1,00	FG84	SMB 112M4		
	2,8	12584	516,23	1,07	FG84	SMB 112M4		
	3	11745	469,90	1,15	FG84	SMB 112M4		
	3,4	10363	421,59	1,30	FG84	SMR 112M4		
	3,7	9523	382,39	1,42	FG84	SMR 112M4		
	4	8809	353,21	1,53	FG84	SMR 112M4		
	4,6	7660	311,38	1,76	FG84	SMR 112M4	533	156
	5,1	6909	276,82	1,95	FG84	SMR 112M4		
	5,8	6075	246,38	2,22	FG84	SMR 112M4		
	6	5872	234,95	2,30	FG84	SMR 112M4		
	7	5033	201,75	2,68	FG84	SMR 112M4		
	8,1	4350	174,77	3,10	FG84	SMR 112M4		
	9	3915	157,33	3,45	FG84	SMR 112M4		
	11	3203	133,59	4,21	FG84	SMR 112M4		
	4,2	8560	340,70	0,96	FG73	SMB 112M4		
	4,7	7650	302,30	1,07	FG73	SMB 112M4		
	5,3	6784	268,91	1,21	FG73	SMB 112M4		
	5,6	6420	253,09	1,28	FG73	SMB 112M4		
	6,2	5799	230,38	1,41	FG73	SMB 112M4		
	6,9	5211	206,69	1,57	FG73	SMR 112M4		
	7,6	4731	187,47	1,73	FG73	SMR 112M4	348	150
	8,2	4385	173,17	1,87	FG73	SMR 112M4		
	9,3	3866	152,66	2,12	FG73	SMR 112M4		
	10	3595	135,72	2,28	FG73	SMR 112M4		
	12	2996	120,79	2,74	FG73	SMR 112M4		
	14	2568	98,91	3,19	FG73	SMR 112M4		
	17	2115	85,68	3,88	FG73	SMR 112M4		
	18	1997	77,13	4,11	FG73	SMR 112M4		
	7,5	4794	188,51	1,02	FG63	SMR 112M4		
	8,1	4439	175,96	1,10	FG63	SMR 112M4		
	9,2	3908	154,45	1,25	FG63	SMR 112M4		
	10	3595	136,68	1,36	FG63	SMR 112M4		
	12	2996	115,15	1,64	FG63	SMR 112M4	234	144
	14	2568	98,08	1,91	FG63	SMR 112M4		
	17	2115	84,20	2,32	FG63	SMR 112M4		
	20	1798	72,71	2,73	FG63	SMR 112M4		
	23	1563	63,03	3,13	FG63	SMR 112M4		
	27	1332	52,27	3,68	FG63	SMR 112M4		
	13	2766	106,81	1,05	FG53	SMR 112M4	130	138
	16	2247	88,00	1,29	FG53	SMR 112M4		
	17	2158	84,32	1,34	FG52	SMB 112M4		
	18	2038	77,10	1,42	FG52	SMB 112M4		
	21	1747	68,41	1,66	FG52	SMB 112M4		
	23	1595	60,85	1,82	FG52	SMB 112M4	129	136
	25	1467	57,27	1,98	FG52	SMB 112M4		
	27	1359	52,13	2,13	FG52	SMB 112M4		
	30	1223	46,77	2,37	FG52	SMR 112M4		


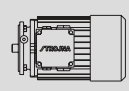

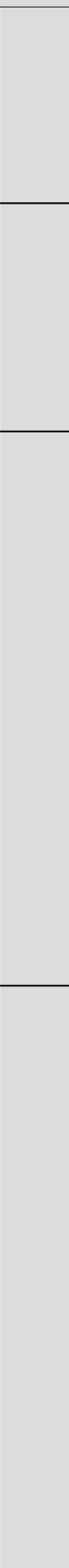


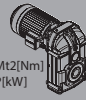
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
4,00	33	1112	42,42	2,61		FG52 SMR 112M4		
	36	1019	39,19	2,85		FG52 SMR 112M4		
	41	895	34,55	3,24		FG52 SMR 112M4		
	46	798	30,71	3,64		FG52 SMR 112M4		
	52	706	27,33	4,11		FG52 SMR 112M4		
	54	679	26,07	4,27		FG52 SMR 112M4		
	24	1529	60,03	0,96		FG52 SMB 112M4		
	28	1310	51,44	1,41		FG52 SMB 112M4		
	34	1079	41,74	2,18		FG52 SMB 112M4		
	38	965	37,13	2,54		FG52 SMB 112M4		
	45	815	31,81	3,06		FG52 SMB 112M4		
	50	734	28,54	3,35		FG52 SMR 112M4		
	55	667	25,88	3,65		FG52 SMR 112M4		
	59	622	23,91	3,89		FG52 SMR 112M4		
	67	548	21,08	4,40		FG52 SMR 112M4		
	23	1595	62,86	0,97		FG42 SMB 112M4		
	25	1467	56,62	1,06		FG42 SMB 112M4		
	29	1265	49,35	1,23		FG42 SMB 112M4		
31	1183	46,45	1,31	FG42 SMB 112M4				
33	1112	42,85	1,39	FG42 SMB 112M4				
37	992	38,56	1,56	FG42 SMR 112M4				
41	895	34,69	1,73	FG42 SMR 112M4				
44	834	32,38	1,86	FG42 SMR 112M4				
50	734	28,42	2,11	FG42 SMR 112M4				
56	655	25,15	2,37	FG42 SMR 112M4				
67	548	21,19	2,83	FG42 SMR 112M4				
79	464	18,05	3,34	FG42 SMR 112M4				
92	399	15,49	3,89	FG42 SMR 112M4				
106	346	13,38	4,48	FG42 SMR 112M4				
36	1019	39,17	1,07	FG42 SMB 112M4				
40	917	35,75	1,28	FG42 SMB 112M4				
51	719	28,07	1,72	FG42 SMB 112M4				
54	679	26,42	1,81	FG42 SMB 112M4				
58	633	24,37	1,93	FG42 SMB 112M4				
65	564	21,93	2,16	FG42 SMR 112M4				
72	510	19,73	2,38	FG42 SMR 112M4				
77	476	18,42	2,54	FG42 SMR 112M4				
88	417	16,16	2,89	FG42 SMR 112M4				
99	371	14,30	3,24	FG42 SMR 112M4				
118	311	12,05	3,83	FG42 SMR 112M4				
138	266	10,26	4,43	FG42 SMR 112M4				
46	798	31,15	1,03	FG32 SMR 112M4				
51	719	27,69	1,14	FG32 SMR 112M4				
56	655	25,22	1,25	FG32 SMR 112M4				
65	564	21,90	1,45	FG32 SMR 112M4				
74	496	19,17	1,65	FG32 SMR 112M4				
90	408	15,85	2,01	FG32 SMR 112M4				
107	343	13,22	2,39	FG32 SMR 112M4				


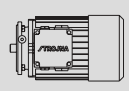

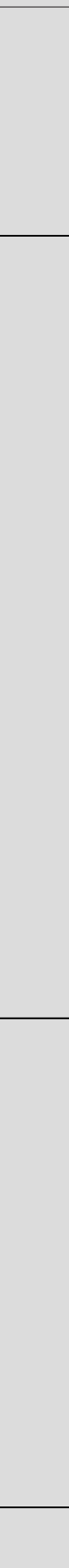


P	n ₂	Mt ₂	i	f _B			m						
[kW]	[min ⁻¹]	[Nm]					[kg]						
4,00	128	287	11,08	2,86		FG32	SMR	112M4	61	126			
	144	255	9,86	3,22		FG32	SMR	112M4					
	62	592	23,07	1,10		FG32	SMB	112M4					
	67	548	21,09	1,18		FG32	SMB	112M4					
	71	517	19,91	1,25		FG32	SMB	112M4					
	82	447	17,39	1,44		FG32	SMR	112M4					
	92	399	15,46	1,61		FG32	SMR	112M4					
	101	363	14,08	1,77		FG32	SMR	112M4					
	116	316	12,23	2,02		FG32	SMR	112M4					
	133	276	10,70	2,29		FG32	SMR	112M4					
	160	229	8,85	2,72		FG32	SMR	112M4					
	192	191	7,38	3,21		FG32	SMR	112M4					
	230	160	6,19	3,81		FG32	SMR	112M4					
	258	142	5,50	4,25		FG32	SMR	112M4					
	5,50	3,8	12749	382,39		1,06	FG84	SMB			132S4	558	156
4,1		11816	353,21	1,14	FG84	SMB	132S4						
4,7		10308	311,38	1,31	FG84	SMR	132S4						
5,2		9317	276,82	1,45	FG84	SMR	132S4						
5,9		8211	246,38	1,64	FG84	SMR	132S4						
6,2		7814	234,95	1,73	FG84	SMR	132S4						
7,2		6729	201,75	2,01	FG84	SMR	132S4						
8,3		5837	174,77	2,31	FG84	SMR	132S4						
9,2		5266	157,33	2,56	FG84	SMR	132S4						
11		4404	133,59	3,07	FG84	SMR	132S4						
13		3727	112,67	3,62	FG84	SMR	132S4						
15		3230	99,13	4,18	FG84	SMR	132S4						
8,5		5816	170,73	2,32	FG83	SMB	132S4	531	154				
9,3		5316	156,36	2,54	FG83	SMB	132S4						
10		4944	140,35	2,73	FG83	SMB	132S4						
11		4494	126,12	3,00	FG83	SMB	132S4						
13		3803	114,27	3,55	FG83	SMB	132S4						
14		3531	104,24	3,82	FG83	SMB	132S4						
15		3296	95,64	4,10	FG83	SMB	132S4						
6,3		7847	230,38	1,04	FG73	SMB	132S4			373	150		
7		7062	206,69	1,16	FG73	SMB	132S4						
7,7		6420	187,47	1,28	FG73	SMB	132S4						
8,4		5885	173,17	1,39	FG73	SMB	132S4						
9,5		5204	152,66	1,58	FG73	SMR	132S4						
11		4494	135,72	1,82	FG73	SMR	132S4						
12		4120	120,79	1,99	FG73	SMR	132S4						
13		3803	115,19	2,16	FG73	SMR	132S4						
15		3296	98,91	2,49	FG73	SMR	132S4						
17		2908	85,68	2,82	FG73	SMR	132S4						
19		2602	77,13	3,15	FG73	SMR	132S4						
22	2247	65,49	3,65	FG73	SMR	132S4							
26	1901	55,24	4,31	FG73	SMR	132S4							
17	2967	83,70	2,58	FG72	SMB	132S4	346	148					
19	2655	76,66	3,09	FG72	SMB	132S4							


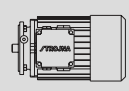

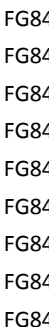
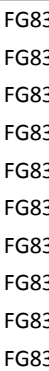
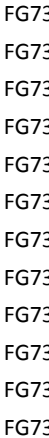
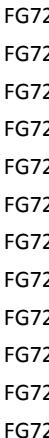



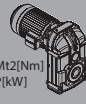
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
5,50	21	2402	68,81	3,41		FG72 SMB 132S4	346	148
	23	2193	61,83	3,74		FG72 SMB 132S4		
	26	1940	56,02	4,23		FG72 SMB 132S4		
	37	1363	38,81	2,60		FG72 SMB 132S4		
	41	1230	35,54	3,42		FG72 SMB 132S4		
	45	1121	31,90	4,07		FG72 SMB 132S4		
	11	4494	136,68	1,09		FG63 SMR 132S4	259	144
	13	3803	115,15	1,29		FG63 SMR 132S4		
	15	3296	98,08	1,49		FG63 SMR 132S4		
	17	2908	84,20	1,69		FG63 SMR 132S4		
	20	2472	72,71	1,98		FG63 SMR 132S4		
	23	2149	63,03	2,28		FG63 SMR 132S4		
	28	1766	52,27	2,78		FG63 SMR 132S4		
	15	3363	99,71	1,20		FG62 SMB 132S4	248	142
	16	3153	89,08	1,55		FG62 SMB 132S4		
	19	2655	75,05	1,85		FG62 SMB 132S4		
	21	2402	68,63	2,04		FG62 SMB 132S4		
	24	2102	61,44	2,33		FG62 SMB 132S4		
26	1940	55,09	2,53	FG62 SMB 132S4				
29	1739	49,80	2,82	FG62 SMB 132S4				
32	1576	45,32	3,11	FG62 SMB 132S4				
35	1441	41,48	3,40	FG62 SMB 132S4				
41	1230	35,24	3,98	FG62 SMR 132S4				
44	1146	32,68	4,27	FG62 SMR 132S4				
33	1529	44,42	1,17	FG62 SMB 132S4				
37	1363	39,69	1,64	FG62 SMB 132S4				
43	1173	33,44	2,32	FG62 SMB 132S4				
47	1073	30,58	2,71	FG62 SMB 132S4				
53	952	27,38	3,29	FG62 SMB 132S4				
59	855	24,55	4,12	FG62 SMB 132S4				
17	2967	84,32	0,98	FG52 SMB 132S4	154	136		
19	2655	77,10	1,09	FG52 SMB 132S4				
21	2402	68,41	1,21	FG52 SMB 132S4				
24	2102	60,85	1,38	FG52 SMB 132S4				
25	2018	57,27	1,44	FG52 SMB 132S4				
28	1802	52,13	1,61	FG52 SMB 132S4				
31	1627	46,77	1,78	FG52 SMB 132S4				
34	1484	42,42	1,95	FG52 SMB 132S4				
37	1363	39,19	2,13	FG52 SMB 132S4				
42	1201	34,55	2,41	FG52 SMR 132S4				
47	1073	30,71	2,70	FG52 SMR 132S4				
53	952	27,33	3,05	FG52 SMR 132S4				
56	901	26,07	3,22	FG52 SMR 132S4				
65	776	22,38	3,74	FG52 SMR 132S4				
75	673	19,39	4,31	FG52 SMR 132S4				
35	1441	41,74	1,63	FG52 SMB 132S4				
39	1293	37,13	1,90	FG52 SMB 132S4				
41	1230	34,94	2,03	FG52 SMB 132S4				


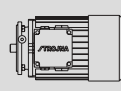




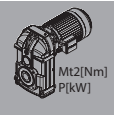
P	n ₂	Mt ₂	i	f _B			m					
[kW]	[min ⁻¹]	[Nm]					[kg]					
5,50	46	1097	31,81	2,27		FG52	SMB	132S4	154	136		
	51	989	28,54	2,48		FG52	SMB	132S4				
	61	827	23,91	2,93		FG52	SMB	132S4				
	69	731	21,08	3,30		FG52	SMR	132S4				
	77	655	18,74	3,66		FG52	SMR	132S4				
	87	580	16,68	4,12		FG52	SMR	132S4				
	91	554	15,90	4,30		FG52	SMR	132S4				
	31	1627	46,45	0,95		FG42	SMB	132S4			110	130
	34	1484	42,85	1,04		FG42	SMB	132S4				
	38	1328	38,56	1,17		FG42	SMB	132S4				
	42	1201	34,69	1,29		FG42	SMB	132S4				
	45	1121	32,38	1,38		FG42	SMB	132S4				
	51	989	28,42	1,57		FG42	SMR	132S4				
	58	870	25,15	1,78		FG42	SMR	132S4				
	68	742	21,19	2,09		FG42	SMR	132S4				
	80	631	18,05	2,46		FG42	SMR	132S4				
	94	537	15,49	2,89		FG42	SMR	132S4				
	108	467	13,38	3,32		FG42	SMR	132S4				
	125	404	11,60	3,84		FG42	SMR	132S4				
52	970	28,07	1,28	FG42	SMB	132S4						
55	917	26,42	1,34	FG42	SMB	132S4						
59	855	24,37	1,43	FG42	SMB	132S4						
66	764	21,93	1,59	FG42	SMB	132S4						
73	691	19,73	1,76	FG42	SMB	132S4						
79	639	18,42	1,89	FG42	SMB	132S4						
90	561	16,16	2,15	FG42	SMR	132S4						
101	499	14,30	2,40	FG42	SMR	132S4						
120	420	12,05	2,83	FG42	SMR	132S4						
141	358	10,26	3,30	FG42	SMR	132S4						
165	306	8,81	3,82	FG42	SMR	132S4						
191	264	7,61	4,37	FG42	SMR	132S4						
66	764	21,90	1,07	FG32	SMR	132S4	86	126				
76	664	19,17	1,24	FG32	SMR	132S4						
91	554	15,85	1,48	FG32	SMR	132S4						
110	459	13,22	1,79	FG32	SMR	132S4						
131	385	11,08	2,13	FG32	SMR	132S4						
147	343	9,86	2,39	FG32	SMR	132S4						
83	608	17,39	1,06	FG32	SMB	132S4						
94	537	15,46	1,20	FG32	SMB	132S4						
103	490	14,08	1,31	FG32	SMB	132S4						
119	424	12,23	1,51	FG32	SMR	132S4						
136	371	10,70	1,71	FG32	SMR	132S4						
164	308	8,85	2,03	FG32	SMR	132S4						
196	257	7,38	2,38	FG32	SMR	132S4						
234	216	6,19	2,82	FG32	SMR	132S4						
263	192	5,50	3,15	FG32	SMR	132S4						
7,50	4,7	14056	311,38	0,96	FG84	SMR			132M4	569	156	
	5,2	12705	276,82	1,06	FG84	SMR			132M4			


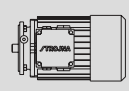

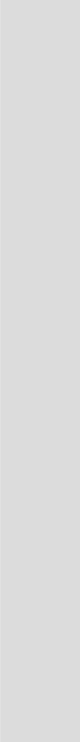



P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
7,50	5,9	11197	246,38	1,21		FG84 SMR 132M4	569	156
	6,2	10656	234,95	1,27		FG84 SMR 132M4		
	7,2	9176	201,75	1,47		FG84 SMR 132M4		
	8,3	7960	174,77	1,70		FG84 SMR 132M4		
	9,2	7181	157,33	1,88		FG84 SMR 132M4		
	11	6006	133,59	2,25		FG84 SMR 132M4		
	13	5082	112,67	2,66		FG84 SMR 132M4		
	15	4404	99,13	3,07		FG84 SMR 132M4		
	17	3886	87,83	3,47		FG84 SMR 132M4		
	8,5	7931	170,73	1,70		FG83 SMB 132M4	542	154
	9,3	7249	156,36	1,86		FG83 SMB 132M4		
	10	6741	140,35	2,00		FG83 SMB 132M4		
	11	6128	126,12	2,20		FG83 SMB 132M4		
	13	5186	114,27	2,60		FG83 SMB 132M4		
	14	4815	104,24	2,80		FG83 SMB 132M4		
	15	4494	95,64	3,00		FG83 SMB 132M4		
	18	3745	81,67	3,60		FG83 SMR 132M4		
	19	3548	75,92	3,80		FG83 SMR 132M4		
	20	3371	70,80	4,01	FG83 SMR 132M4			
	8,4	8025	173,17	1,02		FG73 SMB 132M4	384	150
	9,5	7096	152,66	1,16		FG73 SMR 132M4		
	11	6128	135,72	1,34		FG73 SMR 132M4		
	12	5618	120,79	1,46		FG73 SMR 132M4		
	13	5186	115,19	1,58		FG73 SMR 132M4		
	15	4494	98,91	1,82		FG73 SMR 132M4		
	17	3965	85,68	2,07		FG73 SMR 132M4		
	19	3548	77,13	2,31		FG73 SMR 132M4		
	22	3064	65,49	2,68		FG73 SMR 132M4		
	26	2593	55,24	3,16	FG73 SMR 132M4			
	30	2247	48,60	3,65	FG73 SMR 132M4			
	34	1983	43,06	4,14	FG73 SMR 132M4			
	17	4046	83,70	1,89		FG72 SMB 132M4	357	148
	19	3620	76,66	2,26		FG72 SMB 132M4		
	21	3276	68,81	2,50		FG72 SMB 132M4		
	23	2991	61,83	2,74		FG72 SMB 132M4		
	26	2646	56,02	3,10		FG72 SMB 132M4		
	28	2457	51,10	3,34		FG72 SMB 132M4		
	31	2219	46,89	3,70		FG72 SMB 132M4		
	36	1911	40,04	4,29		FG72 SMR 132M4		
	37	1859	38,81	1,91		FG72 SMB 132M4		
	41	1678	35,54	2,51	FG72 SMB 132M4			
	45	1529	31,90	2,98	FG72 SMB 132M4			
	51	1349	28,67	3,93	FG72 SMB 132M4			
	15	4494	98,08	1,09		FG63 SMR 132M4	270	144
	17	3965	84,20	1,24		FG63 SMR 132M4		
	20	3371	72,71	1,45		FG63 SMR 132M4		
	23	2931	63,03	1,67		FG63 SMR 132M4		
	28	2408	52,27	2,04		FG63 SMR 132M4		


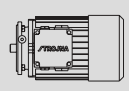



P	n ₂	Mt ₂	i	f _B			m					
[kW]	[min ⁻¹]	[Nm]					[kg]					
7,50	16	4299	89,08	1,14		FG62	SMB	132M4	259	142		
	19	3620	75,05	1,35		FG62	SMB	132M4				
	21	3276	68,63	1,50		FG62	SMB	132M4				
	24	2866	61,44	1,71		FG62	SMB	132M4				
	26	2646	55,09	1,85		FG62	SMB	132M4				
	29	2372	49,80	2,07		FG62	SMB	132M4				
	32	2150	45,32	2,28		FG62	SMB	132M4				
	35	1965	41,48	2,49		FG62	SMB	132M4				
	41	1678	35,24	2,92		FG62	SMR	132M4				
	44	1563	32,68	3,13		FG62	SMR	132M4				
	48	1433	30,39	3,42		FG62	SMR	132M4				
	55	1251	26,51	3,92		FG62	SMR	132M4				
	62	1109	23,34	4,42		FG62	SMR	132M4				
	37	1859	39,69	1,20		FG62	SMB	132M4				
	43	1600	33,44	1,70		FG62	SMB	132M4				
	47	1464	30,58	1,99		FG62	SMB	132M4				
	53	1298	27,38	2,41		FG62	SMB	132M4				
	59	1166	24,55	3,02		FG62	SMB	132M4				
	65	1058	22,19	3,64		FG62	SMB	132M4				
	72	955	20,19	4,32		FG62	SMB	132M4				
	24	2866	60,85	1,01		FG52	SMB	132M4			165	136
	25	2752	57,27	1,05		FG52	SMB	132M4				
	28	2457	52,13	1,18		FG52	SMB	132M4				
	31	2219	46,77	1,31		FG52	SMB	132M4				
	34	2023	42,42	1,43		FG52	SMB	132M4				
	37	1859	39,19	1,56		FG52	SMB	132M4				
	42	1638	34,55	1,77	FG52	SMR	132M4					
	47	1464	30,71	1,98	FG52	SMR	132M4					
	53	1298	27,33	2,23	FG52	SMR	132M4					
	56	1228	26,07	2,36	FG52	SMR	132M4					
	65	1058	22,38	2,74	FG52	SMR	132M4					
	75	917	19,39	3,16	FG52	SMR	132M4					
	83	829	17,45	3,50	FG52	SMR	132M4					
	98	702	14,82	4,13	FG52	SMR	132M4					
	35	1965	41,74	1,20	FG52	SMB	132M4					
	39	1764	37,13	1,39	FG52	SMB	132M4					
	41	1678	34,94	1,49	FG52	SMB	132M4					
	46	1495	31,81	1,67	FG52	SMB	132M4					
	51	1349	28,54	1,82	FG52	SMB	132M4					
	61	1128	23,91	2,15	FG52	SMB	132M4					
	69	997	21,08	2,42	FG52	SMR	132M4					
	77	893	18,74	2,69	FG52	SMR	132M4					
	87	791	16,68	3,02	FG52	SMR	132M4					
	91	756	15,90	3,15	FG52	SMR	132M4					
	106	649	13,66	3,64	FG52	SMR	132M4					
	123	559	11,83	4,11	FG52	SMR	132M4					
	136	506	10,65	4,45	FG52	SMR	132M4					
	45	1529	32,38	1,01	FG42	SMB	132M4	121	130			


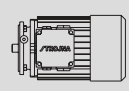



P	n ₂	Mt ₂	i	f _b			m					
[kW]	[min ⁻¹]	[Nm]					[kg]					
7,50	51	1349	28,42	1,15		FG42	SMR	132M4	121	130		
	58	1186	25,15	1,31		FG42	SMR	132M4				
	68	1012	21,19	1,53		FG42	SMR	132M4				
	80	860	18,05	1,80		FG42	SMR	132M4				
	94	732	15,49	2,12		FG42	SMR	132M4				
	108	637	13,38	2,43		FG42	SMR	132M4				
	125	550	11,60	2,82		FG42	SMR	132M4				
	151	456	9,62	3,40		FG42	SMR	132M4				
	59	1166	24,37	1,05		FG42	SMB	132M4				
	66	1042	21,93	1,17		FG42	SMB	132M4				
	73	942	19,73	1,29		FG42	SMB	132M4				
	79	871	18,42	1,39		FG42	SMB	132M4				
	90	764	16,16	1,58		FG42	SMR	132M4				
	101	681	14,30	1,76		FG42	SMR	132M4				
	120	573	12,05	2,08		FG42	SMR	132M4				
	141	488	10,26	2,42		FG42	SMR	132M4				
	165	417	8,81	2,80		FG42	SMR	132M4				
	191	360	7,61	3,21		FG42	SMR	132M4				
	220	313	6,60	3,64		FG42	SMR	132M4				
	265	260	5,47	4,19		FG42	SMR	132M4				
	91	756	15,85	1,08	FG32	SMR	132M4	97	126			
	110	625	13,22	1,31	FG32	SMR	132M4					
	131	525	11,08	1,56	FG32	SMR	132M4					
	147	468	9,86	1,75	FG32	SMR	132M4					
	119	578	12,23	1,10	FG32	SMR	132M4					
	136	506	10,70	1,25	FG32	SMR	132M4					
	164	419	8,85	1,49	FG32	SMR	132M4					
	196	351	7,38	1,75	FG32	SMR	132M4					
	234	294	6,19	2,07	FG32	SMR	132M4					
	263	262	5,50	2,31	FG32	SMR	132M4					
9,20	5,8	13972	246,38	0,97		FG84	SMR	132Ma4	580	156		
	6,1	13285	234,95	1,02		FG84	SMR	132Ma4				
	7,1	11414	201,75	1,18		FG84	SMR	132Ma4				
	8,2	9883	174,77	1,37		FG84	SMR	132Ma4				
	9,2	8809	157,33	1,53		FG84	SMR	132Ma4				
	11	7367	133,59	1,83		FG84	SMR	132Ma4				
	13	6234	112,67	2,17		FG84	SMR	132Ma4				
	15	5403	99,13	2,50		FG84	SMR	132Ma4				
	16	5065	87,83	2,67		FG84	SMR	132Ma4				
	8,4	9844	170,73	1,37		FG83	SMB	132Ma4			553	154
	9,2	8988	156,36	1,50		FG83	SMB	132Ma4				
	10	8269	140,35	1,63		FG83	SMB	132Ma4				
	11	7518	126,12	1,80		FG83	SMB	132Ma4				
	13	6361	114,27	2,12		FG83	SMB	132Ma4				
	14	5907	104,24	2,29		FG83	SMB	132Ma4				
	15	5513	95,64	2,45		FG83	SMB	132Ma4				
	18	4594	81,67	2,94		FG83	SMR	132Ma4				
	19	4352	75,92	3,10		FG83	SMR	132Ma4				


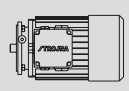


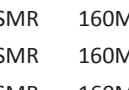

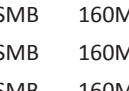

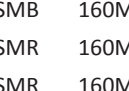

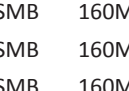

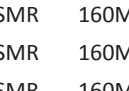


P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
9,20	20	4135	70,80	3,27		FG83 SMR 132Ma4	553	154
	23	3595	62,11	3,75		FG83 SMR 132Ma4		
	26	3181	55,00	4,24		FG83 SMR 132Ma4		
	11	7518	135,72	1,09		FG73 SMR 132Ma4	395	150
	12	6891	120,79	1,19		FG73 SMR 132Ma4		
	13	6361	115,19	1,29		FG73 SMR 132Ma4		
	15	5513	98,91	1,49		FG73 SMR 132Ma4		
	17	4864	85,68	1,69		FG73 SMR 132Ma4		
	19	4352	77,13	1,88		FG73 SMR 132Ma4		
	22	3759	65,49	2,18		FG73 SMR 132Ma4		
	26	3181	55,24	2,58		FG73 SMR 132Ma4		
	30	2756	48,60	2,97		FG73 SMR 132Ma4		
	33	2506	43,06	3,27		FG73 SMR 132Ma4		
	17	4964	83,70	1,54		FG72 SMB 132Ma4		
	19	4441	76,66	1,85		FG72 SMB 132Ma4		
	21	4018	68,81	2,04		FG72 SMB 132Ma4		
	23	3669	61,83	2,24	FG72 SMB 132Ma4			
	26	3245	56,02	2,53	FG72 SMB 132Ma4			
	28	3014	51,10	2,72	FG72 SMB 132Ma4			
	31	2722	46,89	3,01	FG72 SMB 132Ma4			
	36	2344	40,04	3,50	FG72 SMR 132Ma4			
	39	2164	37,22	3,79	FG72 SMR 132Ma4			
	41	2058	34,71	3,98	FG72 SMR 132Ma4			
	37	2281	38,81	1,55	FG72 SMB 132Ma4			
	45	1875	31,90	2,43	FG72 SMB 132Ma4			
	50	1688	28,67	3,14	FG72 SMB 132Ma4			
	55	1534	25,97	3,84	FG72 SMB 132Ma4			
	17	4864	84,20	1,01		FG63 SMR 132Ma4	281	144
	20	4135	72,71	1,19		FG63 SMR 132Ma4		
	23	3595	63,03	1,36		FG63 SMR 132Ma4		
	28	2953	52,27	1,66		FG63 SMR 132Ma4		
	19	4441	75,05	1,10		FG62 SMB 132Ma4	270	142
	21	4018	68,63	1,22		FG62 SMB 132Ma4		
	23	3669	61,44	1,34		FG62 SMB 132Ma4		
	26	3245	55,09	1,51		FG62 SMB 132Ma4		
	29	2910	49,80	1,68		FG62 SMB 132Ma4		
	32	2637	45,32	1,86		FG62 SMB 132Ma4		
	35	2411	41,48	2,03		FG62 SMB 132Ma4		
	41	2058	35,24	2,38		FG62 SMR 132Ma4		
	44	1918	32,68	2,56		FG62 SMR 132Ma4		
	47	1795	30,39	2,73		FG62 SMR 132Ma4		
	54	1563	26,51	3,14		FG62 SMR 132Ma4		
	62	1361	23,34	3,60		FG62 SMR 132Ma4		
	70	1205	20,69	4,06		FG62 SMR 132Ma4		
	43	1962	33,44	1,39		FG62 SMB 132Ma4		
	53	1592	27,38	1,97		FG62 SMB 132Ma4		
	59	1430	24,55	2,46		FG62 SMB 132Ma4		
	65	1298	22,19	2,96	FG62 SMB 132Ma4			


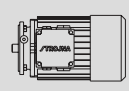





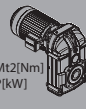
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
9,20	71	1188	20,19	3,47	FG62	SMB 132Ma4	270	142
	78	1082	18,48	4,01	FG62	SMB 132Ma4		
	28	3014	52,13	0,96	FG52	SMB 132Ma4		
	31	2722	46,77	1,07	FG52	SMB 132Ma4		
	34	2482	42,42	1,17	FG52	SMB 132Ma4		
	37	2281	39,19	1,27	FG52	SMB 132Ma4		
	42	2009	34,55	1,44	FG52	SMR 132Ma4		
	47	1795	30,71	1,62	FG52	SMR 132Ma4		
	53	1592	27,33	1,82	FG52	SMR 132Ma4		
	55	1534	26,07	1,89	FG52	SMR 132Ma4		
	64	1318	22,38	2,20	FG52	SMR 132Ma4		
	74	1140	19,39	2,54	FG52	SMR 132Ma4		
	83	1017	17,45	2,85	FG52	SMR 132Ma4		
	97	870	14,82	3,33	FG52	SMR 132Ma4		
	115	734	12,50	3,95	FG52	SMR 132Ma4		
	39	2164	37,13	1,14	FG52	SMB 132Ma4	176	136
	41	2058	34,94	1,21	FG52	SMB 132Ma4		
	45	1875	31,81	1,33	FG52	SMB 132Ma4		
	50	1688	28,54	1,46	FG52	SMB 132Ma4		
	56	1507	25,88	1,62	FG52	SMB 132Ma4		
	60	1406	23,91	1,72	FG52	SMB 132Ma4		
	68	1241	21,08	1,94	FG52	SMR 132Ma4		
	77	1096	18,74	2,19	FG52	SMR 132Ma4		
	86	981	16,68	2,44	FG52	SMR 132Ma4		
	91	927	15,90	2,57	FG52	SMR 132Ma4		
	105	804	13,66	2,94	FG52	SMR 132Ma4		
	122	692	11,83	3,33	FG52	SMR 132Ma4		
	135	625	10,65	3,60	FG52	SMR 132Ma4		
	159	531	9,04	4,09	FG52	SMR 132Ma4		
	57	1480	25,15	1,05	FG42	SMR 132Ma4		
	68	1241	21,19	1,25	FG42	SMR 132Ma4		
	80	1055	18,05	1,47	FG42	SMR 132Ma4		
	93	907	15,49	1,71	FG42	SMR 132Ma4		
	108	781	13,38	1,98	FG42	SMR 132Ma4		
	124	680	11,60	2,28	FG42	SMR 132Ma4		
	150	563	9,62	2,76	FG42	SMR 132Ma4		
	73	1156	19,73	1,05	FG42	SMB 132Ma4		
	78	1082	18,42	1,12	FG42	SMB 132Ma4	132	130
	89	948	16,16	1,27	FG42	SMR 132Ma4		
	101	835	14,30	1,44	FG42	SMR 132Ma4		
	119	709	12,05	1,68	FG42	SMR 132Ma4		
	140	603	10,26	1,96	FG42	SMR 132Ma4		
	163	518	8,81	2,25	FG42	SMR 132Ma4		
	189	446	7,61	2,59	FG42	SMR 132Ma4		
	218	387	6,60	2,94	FG42	SMR 132Ma4		
	263	321	5,47	3,39	FG42	SMR 132Ma4		
11,00	7,1	13647	201,75	0,99	FG84	SMR 160M4	594	156
	8,2	11816	174,77	1,14	FG84	SMR 160M4		


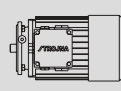



P	n ₂	Mt ₂	i	f _b			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
11,00	9,2	10532	157,33	1,28			594	156			
	11	8809	133,59	1,53					FG84	SMR	160M4
	13	7453	112,67	1,81					FG84	SMR	160M4
	15	6460	99,13	2,09					FG84	SMR	160M4
	16	6056	87,83	2,23					FG84	SMR	160M4
	8,4	11771	170,73	1,15			567	154			
	9,2	10747	156,36	1,26					FG83	SMB	160M4
	10	9887	140,35	1,37					FG83	SMB	160M4
	11	8988	126,12	1,50					FG83	SMB	160M4
	13	7606	114,27	1,78					FG83	SMB	160M4
	14	7062	104,24	1,91					FG83	SMB	160M4
	15	6591	95,64	2,05					FG83	SMB	160M4
	18	5493	81,67	2,46					FG83	SMB	160M4
	19	5204	75,92	2,59					FG83	SMB	160M4
	20	4944	70,80	2,73					FG83	SMR	160M4
	23	4299	62,11	3,14					FG83	SMR	160M4
	26	3803	55,00	3,55					FG83	SMR	160M4
	29	3409	49,07	3,96					FG83	SMR	160M4
	12	8239	120,79	1,00							409
	13	7606	115,19	1,08	FG73	SMR	160M4				
	15	6591	98,91	1,24	FG73	SMR	160M4				
	17	5816	85,68	1,41	FG73	SMR	160M4				
	19	5204	77,13	1,58	FG73	SMR	160M4				
	22	4494	65,49	1,82	FG73	SMR	160M4				
	26	3803	55,24	2,16	FG73	SMR	160M4				
	30	3296	48,60	2,49	FG73	SMR	160M4				
	33	2996	43,06	2,74	FG73	SMR	160M4				
	17	5935	83,70	1,29			382	148			
	19	5310	76,66	1,54					FG72	SMB	160M4
	21	4804	68,81	1,71					FG72	SMB	160M4
	23	4387	61,83	1,87					FG72	SMB	160M4
	26	3880	56,02	2,11					FG72	SMB	160M4
	28	3603	51,10	2,28					FG72	SMB	160M4
	31	3255	46,89	2,52					FG72	SMB	160M4
	36	2803	40,04	2,93					FG72	SMB	160M4
	39	2587	37,22	3,17					FG72	SMB	160M4
	41	2461	34,71	3,33					FG72	SMR	160M4
	47	2147	30,45	3,82					FG72	SMR	160M4
	53	1904	26,96	4,31					FG72	SMR	160M4
	37	2727	38,81	1,30					FG72	SMB	160M4
	45	2242	31,90	2,03					FG72	SMB	160M4
	50	2018	28,67	2,63					FG72	SMB	160M4
	55	1834	25,97	3,21					FG72	SMB	160M4
	61	1654	23,69	3,88					FG72	SMB	160M4
	66	1529	21,74	4,45					FG72	SMB	160M4
	20	4944	72,71	0,99			295	144			
	23	4299	63,03	1,14					FG63	SMR	160M4
	28	3531	52,27	1,39					FG63	SMR	160M4


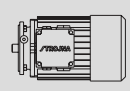

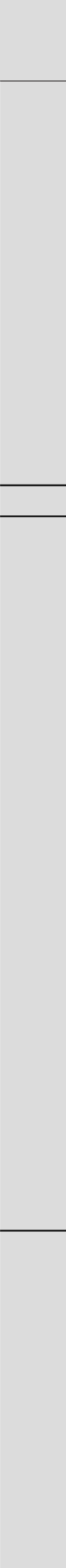


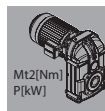
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
11,00	21	4804	68,63	1,02		FG62 SMB 160M4	284	142
	23	4387	61,44	1,12		FG62 SMB 160M4		
	26	3880	55,09	1,26		FG62 SMB 160M4		
	29	3479	49,80	1,41		FG62 SMB 160M4		
	32	3153	45,32	1,55		FG62 SMB 160M4		
	35	2883	41,48	1,70		FG62 SMB 160M4		
	41	2461	35,24	1,99		FG62 SMB 160M4		
	44	2293	32,68	2,14		FG62 SMB 160M4		
	47	2147	30,39	2,28		FG62 SMR 160M4		
	54	1868	26,51	2,62		FG62 SMR 160M4		
	62	1627	23,34	3,01		FG62 SMR 160M4		
	70	1441	20,69	3,40		FG62 SMR 160M4		
	78	1293	18,45	3,79		FG62 SMR 160M4		
	87	1160	16,53	4,23		FG62 SMR 160M4		
	43	2346	33,44	1,16		FG62 SMB 160M4		
	53	1904	27,38	1,65		FG62 SMB 160M4		
	59	1710	24,55	2,06		FG62 SMB 160M4		
	65	1552	22,19	2,48		FG62 SMB 160M4		
	71	1421	20,19	2,90		FG62 SMB 160M4		
	92	1097	15,70	4,13		FG62 SMB 160M4		
99	1019	14,56	4,43	FG62 SMB 160M4				
34	2967	42,42	0,98		FG52 SMB 160M4	190	136	
37	2727	39,19	1,06		FG52 SMB 160M4			
42	2402	34,55	1,21		FG52 SMB 160M4			
47	2147	30,71	1,35		FG52 SMB 160M4			
53	1904	27,33	1,52		FG52 SMB 160M4			
55	1834	26,07	1,58		FG52 SMR 160M4			
64	1576	22,38	1,84		FG52 SMR 160M4			
74	1363	19,39	2,13		FG52 SMR 160M4			
83	1216	17,45	2,39		FG52 SMR 160M4			
97	1040	14,82	2,79		FG52 SMR 160M4			
115	877	12,50	3,31		FG52 SMR 160M4			
131	770	11,00	3,77		FG52 SMR 160M4			
148	682	9,74	4,25		FG52 SMR 160M4			
41	2461	34,94	1,01		FG52 SMB 160M4			
45	2242	31,81	1,11		FG52 SMB 160M4			
50	2018	28,54	1,22		FG52 SMB 160M4			
60	1682	23,91	1,44		FG52 SMB 160M4			
68	1484	21,08	1,63		FG52 SMB 160M4			
77	1310	18,74	1,83		FG52 SMB 160M4			
86	1173	16,68	2,04		FG52 SMB 160M4			
91	1109	15,90	2,15	FG52 SMR 160M4				
105	961	13,66	2,46	FG52 SMR 160M4				
122	827	11,83	2,78	FG52 SMR 160M4				
135	747	10,65	3,01	FG52 SMR 160M4				
159	635	9,04	3,42	FG52 SMR 160M4				
189	534	7,63	3,80	FG52 SMR 160M4				
215	469	6,71	4,20	FG52 SMR 160M4				


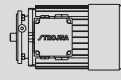




P	n ₂	Mt ₂	i	f _B			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
11,00	242	417	5,94	4,34	FG52	SMR 160M4	190	136	
	68	1484	21,19	1,04	FG42	SMR 160M4			
	80	1261	18,05	1,23	FG42	SMR 160M4			
	93	1085	15,49	1,43	FG42	SMR 160M4			
	108	934	13,38	1,66	FG42	SMR 160M4			
	124	814	11,60	1,91	FG42	SMR 160M4			
	150	673	9,62	2,30	FG42	SMR 160M4			
	89	1134	16,16	1,06	FG42	SMB 160M4	146	130	
	101	999	14,30	1,20	FG42	SMB 160M4			
	119	848	12,05	1,40	FG42	SMR 160M4			
	140	721	10,26	1,64	FG42	SMR 160M4			
	163	619	8,81	1,89	FG42	SMR 160M4			
	189	534	7,61	2,16	FG42	SMR 160M4			
	218	463	6,60	2,46	FG42	SMR 160M4			
	263	384	5,47	2,84	FG42	SMR 160M4			
	15,00	11	12012	133,59	1,12	FG84	SMR 160L4		
		13	10164	112,67	1,33	FG84	SMR 160L4	623	156
15		8809	99,13	1,53	FG84	SMR 160L4			
16		8258	87,83	1,63	FG84	SMR 160L4			
10		13483	140,35	1,00	FG83	SMB 160L4			
11		12257	126,12	1,10	FG83	SMB 160L4			
13		10371	114,27	1,30	FG83	SMB 160L4			
14		9630	104,24	1,40	FG83	SMB 160L4			
15		8988	95,64	1,50	FG83	SMB 160L4			
18		7490	81,67	1,80	FG83	SMB 160L4			
19		7096	75,92	1,90	FG83	SMB 160L4			
20		6741	70,80	2,00	FG83	SMR 160L4	596	154	
23		5862	62,11	2,30	FG83	SMR 160L4			
26		5186	55,00	2,60	FG83	SMR 160L4			
29		4649	49,07	2,90	FG83	SMR 160L4			
33		4086	44,05	3,30	FG83	SMR 160L4			
36		3745	39,75	3,60	FG83	SMR 160L4			
40		3371	36,03	4,01	FG83	SMR 160L4			
42		3210	34,35	4,21	FG83	SMR 160L4			
17		7931	85,68	1,03	FG73	SMR 160L4			
19		7096	77,13	1,16	FG73	SMR 160L4			
22		6128	65,49	1,34	FG73	SMR 160L4	438	150	
26		5186	55,24	1,58	FG73	SMR 160L4			
30		4494	48,60	1,82	FG73	SMR 160L4			
33		4086	43,06	2,01	FG73	SMR 160L4			
19		7241	76,66	1,13	FG72	SMB 160L4			
21		6551	68,81	1,25	FG72	SMB 160L4			
23		5982	61,83	1,37	FG72	SMB 160L4			
26		5291	56,02	1,55	FG72	SMB 160L4	411	148	
28		4913	51,10	1,67	FG72	SMB 160L4			
31		4438	46,89	1,85	FG72	SMB 160L4			
36		3822	40,04	2,15	FG72	SMB 160L4			
39		3528	37,22	2,32	FG72	SMB 160L4			


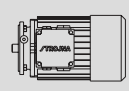

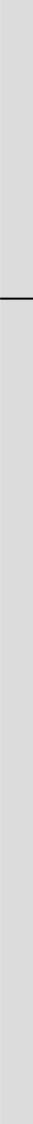


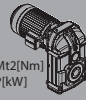
P	n ₂	Mt ₂	i	f _b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
15,00	41	3356	34,71	2,44		FG72 SMR 160L4				
	47	2927	30,45	2,80		FG72 SMR 160L4				
	53	2596	26,96	3,16		FG72 SMR 160L4				
	60	2293	24,06	3,58		FG72 SMR 160L4				
	67	2053	21,60	3,99		FG72 SMR 160L4				
	74	1859	19,49	4,41		FG72 SMR 160L4				
	45	3057	31,90	1,49		FG72 SMB 160L4			411	148
	50	2752	28,67	1,93		FG72 SMB 160L4				
	55	2501	25,97	2,35		FG72 SMB 160L4				
	61	2255	23,69	2,85		FG72 SMB 160L4				
	66	2085	21,74	3,27		FG72 SMB 160L4				
	78	1764	18,56	4,02		FG72 SMB 160L4				
	83	1658	17,25	4,29		FG72 SMB 160L4				
	28	4815	52,27	1,02		FG63 SMR 160L4			324	144
	29	4744	49,80	1,03		FG62 SMB 160L4				
	32	4299	45,32	1,14		FG62 SMB 160L4				
	35	3931	41,48	1,25		FG62 SMB 160L4				
	41	3356	35,24	1,46		FG62 SMB 160L4				
	44	3127	32,68	1,57		FG62 SMB 160L4				
	47	2927	30,39	1,67		FG62 SMR 160L4				
	54	2548	26,51	1,92		FG62 SMR 160L4				
	62	2219	23,34	2,21		FG62 SMR 160L4				
	70	1965	20,69	2,49		FG62 SMR 160L4				
78	1764	18,45	2,78	FG62 SMR 160L4						
87	1581	16,53	3,10	FG62 SMR 160L4						
97	1418	14,87	3,45	FG62 SMR 160L4	313	142				
102	1349	14,12	3,63	FG62 SMR 160L4						
119	1156	12,13	4,24	FG62 SMR 160L4						
53	2596	27,38	1,21	FG62 SMB 160L4						
59	2332	24,55	1,51	FG62 SMB 160L4						
65	2117	22,19	1,82	FG62 SMB 160L4						
71	1938	20,19	2,13	FG62 SMB 160L4						
92	1495	15,70	3,03	FG62 SMB 160L4						
99	1390	14,56	3,25	FG62 SMB 160L4						
106	1298	13,54	3,46	FG62 SMR 160L4						
122	1128	11,81	3,93	FG62 SMR 160L4						
138	997	10,40	4,36	FG62 SMR 160L4						
47	2927	30,71	0,99	FG52 SMB 160L4						
55	2501	26,07	1,16	FG52 SMR 160L4						
64	2150	22,38	1,35	FG52 SMR 160L4						
74	1859	19,39	1,56	FG52 SMR 160L4						
83	1658	17,45	1,75	FG52 SMR 160L4						
97	1418	14,82	2,04	FG52 SMR 160L4	219	136				
115	1196	12,50	2,42	FG52 SMR 160L4						
131	1050	11,00	2,76	FG52 SMR 160L4						
148	930	9,74	3,12	FG52 SMR 160L4						
60	2293	23,91	1,06	FG52 SMB 160L4						
68	2023	21,08	1,19	FG52 SMB 160L4						


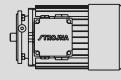



P	n ₂	Mt ₂	i	f _B			m						
[kW]	[min ⁻¹]	[Nm]					[kg]						
15,00	77	1787	18,74	1,34		FG52	SMB	160L4	219	136			
	86	1600	16,68	1,49		FG52	SMB	160L4					
	91	1512	15,90	1,58		FG52	SMR	160L4					
	105	1310	13,66	1,80		FG52	SMR	160L4					
	122	1128	11,83	2,04		FG52	SMR	160L4					
	135	1019	10,65	2,21		FG52	SMR	160L4					
	159	865	9,04	2,51		FG52	SMR	160L4					
	189	728	7,63	2,79		FG52	SMR	160L4					
	215	640	6,71	3,08		FG52	SMR	160L4					
	242	569	5,94	3,19		FG52	SMR	160L4					
	18,50	13	12535	112,67		1,08	FG84	SMR			180M4	645	156
15		10864	99,13	1,24	FG84	SMR	180M4						
17		9586	87,83	1,41	FG84	SMR	180M4						
12		13857	126,12	0,97	FG83	SMB	180M4						
13		12791	114,27	1,06	FG83	SMB	180M4						
14		11878	104,24	1,14	FG83	SMB	180M4						
15		11086	95,64	1,22	FG83	SMB	180M4						
18		9238	81,67	1,46	FG83	SMB	180M4						
19		8752	75,92	1,54	FG83	SMB	180M4						
21		7918	70,80	1,70	FG83	SMB	180M4						
24		6929	62,11	1,95	FG83	SMR	180M4	618	154				
27		6159	55,00	2,19	FG83	SMR	180M4						
30		5543	49,07	2,44	FG83	SMR	180M4						
33		5039	44,05	2,68	FG83	SMR	180M4						
37		4494	39,75	3,00	FG83	SMR	180M4						
41		4056	36,03	3,33	FG83	SMR	180M4						
43		3867	34,35	3,49	FG83	SMR	180M4						
49		3394	29,89	3,98	FG83	SMR	180M4						
22		7558	65,49	1,08	FG73	SMR	180M4			460	150		
26		6396	55,24	1,28	FG73	SMR	180M4						
30		5543	48,60	1,48	FG73	SMR	180M4						
34		4891	43,06	1,68	FG73	SMR	180M4						
21		8080	68,81	1,01	FG72	SMB	180M4			433	148		
24		7070	61,83	1,16	FG72	SMB	180M4						
26		6526	56,02	1,26	FG72	SMB	180M4						
29		5851	51,10	1,40	FG72	SMB	180M4						
31		5474	46,89	1,50	FG72	SMB	180M4						
36		4713	40,04	1,74	FG72	SMB	180M4						
39		4351	37,22	1,88	FG72	SMB	180M4						
42		4040	34,71	2,03	FG72	SMB	180M4						
48		3535	30,45	2,32	FG72	SMR	180M4						
54		3142	26,96	2,61	FG72	SMR	180M4						
61		2782	24,06	2,95	FG72	SMR	180M4						
68		2495	21,60	3,29	FG72	SMR	180M4						
75	2262	19,49	3,62	FG72	SMR	180M4							
83	2044	17,66	4,01	FG72	SMR	180M4							
87	1950	16,84	4,20	FG72	SMR	180M4							
46	3689	31,90	1,24	FG72	SMB	180M4							


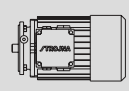

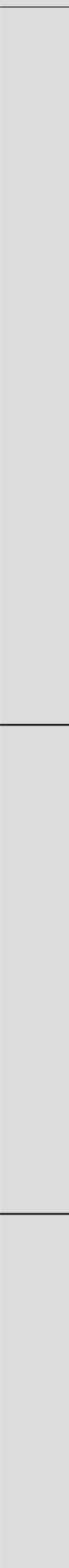
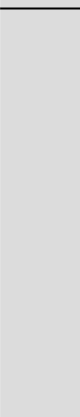


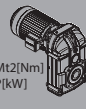
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
18,50	51	3327	28,67	1,59		FG72 SMB 180M4	433	148
	56	3030	25,97	1,94		FG72 SMB 180M4		
	62	2737	23,69	2,35		FG72 SMB 180M4		
	67	2533	21,74	2,69		FG72 SMB 180M4		
	79	2148	18,56	3,30		FG72 SMB 180M4		
	85	1996	17,25	3,56		FG72 SMB 180M4		
	91	1865	16,09	3,82		FG72 SMB 180M4		
	103	1647	14,12	4,32		FG72 SMR 180M4		
	35	4848	41,48	1,01		FG62 SMB 180M4		
	41	4139	35,24	1,18		FG62 SMB 180M4		
	45	3771	32,68	1,30		FG62 SMB 180M4		
	48	3535	30,39	1,39		FG62 SMB 180M4		
	55	3085	26,51	1,59		FG62 SMR 180M4		
	63	2693	23,34	1,82		FG62 SMR 180M4		
	71	2390	20,69	2,05		FG62 SMR 180M4		
	79	2148	18,45	2,28		FG62 SMR 180M4		
88	1928	16,53	2,54	FG62 SMR 180M4				
98	1731	14,87	2,83	FG62 SMR 180M4				
103	1647	14,12	2,97	FG62 SMR 180M4				
120	1414	12,13	3,47	FG62 SMR 180M4				
140	1212	10,46	4,04	FG62 SMR 180M4				
59	2876	24,55	1,22	FG62 SMB 180M4				
66	2571	22,19	1,50	FG62 SMB 180M4				
72	2357	20,19	1,75	FG62 SMB 180M4				
93	1825	15,70	2,48	FG62 SMB 180M4				
100	1697	14,56	2,66	FG62 SMB 180M4				
108	1571	13,54	2,86	FG62 SMB 180M4				
124	1368	11,81	3,24	FG62 SMR 180M4				
158	1074	9,22	3,94	FG62 SMR 180M4				
178	953	8,22	4,35	FG62 SMR 180M4				
56	3030	26,07	0,96	FG52 SMB 180M4				
65	2610	22,38	1,11	FG52 SMR 180M4				
75	2262	19,39	1,28	FG52 SMR 180M4				
84	2020	17,45	1,44	FG52 SMR 180M4				
99	1714	14,82	1,69	FG52 SMR 180M4				
117	1450	12,50	2,00	FG52 SMR 180M4				
133	1276	11,00	2,27	FG52 SMR 180M4				
150	1131	9,74	2,56	FG52 SMR 180M4				
78	2175	18,74	1,10	FG52 SMB 180M4				
88	1928	16,68	1,24	FG52 SMB 180M4				
92	1844	15,90	1,29	FG52 SMB 180M4				
107	1586	13,66	1,49	FG52 SMR 180M4				
123	1380	11,83	1,67	FG52 SMR 180M4				
137	1239	10,65	1,82	FG52 SMR 180M4				
161	1054	9,04	2,06	FG52 SMR 180M4				
191	888	7,63	2,29	FG52 SMR 180M4				
218	778	6,71	2,53	FG52 SMR 180M4				
246	690	5,94	2,63	FG52 SMR 180M4				


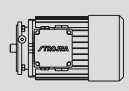



P	n ₂	Mt ₂	i	f _B			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
22,00	15	12919	99,13	1,04		FG84	SMR 180L4	660	156
	17	11399	87,83	1,18		FG84	SMR 180L4		
	14	14125	104,24	0,96		FG83	SMB 180L4		
	15	13183	95,64	1,02		FG83	SMB 180L4		
	18	10986	81,67	1,23		FG83	SMB 180L4		
	19	10408	75,92	1,30		FG83	SMB 180L4		
	21	9416	70,80	1,43		FG83	SMB 180L4		
	24	8239	62,11	1,64		FG83	SMR 180L4		
	27	7324	55,00	1,84		FG83	SMR 180L4		
	30	6591	49,07	2,05		FG83	SMR 180L4	633	154
	33	5992	44,05	2,25		FG83	SMR 180L4		
	37	5344	39,75	2,53		FG83	SMR 180L4		
	41	4823	36,03	2,80		FG83	SMR 180L4		
	43	4599	34,35	2,94		FG83	SMR 180L4		
	49	4036	29,89	3,35		FG83	SMR 180L4		
	56	3531	26,16	3,82		FG83	SMR 180L4		
	64	3090	22,99	4,37		FG83	SMR 180L4		
	26	7606	55,24	1,08		FG73	SMR 180L4		
	30	6591	48,60	1,24		FG73	SMR 180L4	475	150
	34	5816	43,06	1,41		FG73	SMR 180L4		
	24	8408	61,83	0,98		FG72	SMB 180L4		
	26	7761	56,02	1,06		FG72	SMB 180L4		
	29	6958	51,10	1,18		FG72	SMB 180L4		
	31	6509	46,89	1,26		FG72	SMB 180L4		
	36	5605	40,04	1,46		FG72	SMB 180L4		
	39	5174	37,22	1,58		FG72	SMB 180L4		
	42	4804	34,71	1,71		FG72	SMB 180L4		
	48	4204	30,45	1,95		FG72	SMR 180L4		
	54	3737	26,96	2,19		FG72	SMR 180L4		
	61	3308	24,06	2,48		FG72	SMR 180L4		
	68	2967	21,60	2,76		FG72	SMR 180L4		
	75	2690	19,49	3,05		FG72	SMR 180L4		
	83	2431	17,66	3,37		FG72	SMR 180L4	448	148
	87	2319	16,84	3,54		FG72	SMR 180L4		
	100	2018	14,66	4,06		FG72	SMR 180L4		
	51	3956	28,67	1,34		FG72	SMB 180L4		
	56	3603	25,97	1,63		FG72	SMB 180L4		
	62	3255	23,69	1,97		FG72	SMB 180L4		
	67	3012	21,74	2,26		FG72	SMB 180L4		
	79	2554	18,56	2,78		FG72	SMB 180L4		
	85	2374	17,25	3,00		FG72	SMB 180L4		
	91	2217	16,09	3,22		FG72	SMB 180L4		
	103	1959	14,12	3,63		FG72	SMR 180L4		
	117	1725	12,50	4,09		FG72	SMR 180L4		
	131	1540	11,15	4,49		FG72	SMR 180L4		
	41	4921	35,24	1,00		FG62	SMB 180L4		
	45	4484	32,68	1,09		FG62	SMB 180L4	350	142
	48	4204	30,39	1,17		FG62	SMB 180L4		


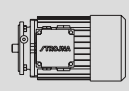




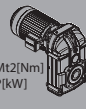
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
22,00	55	3669	26,51	1,34		FG62 SMR 180L4	350	142
	63	3203	23,34	1,53		FG62 SMR 180L4		
	71	2842	20,69	1,72		FG62 SMR 180L4		
	79	2554	18,45	1,92		FG62 SMR 180L4		
	88	2293	16,53	2,14		FG62 SMR 180L4		
	98	2059	14,87	2,38		FG62 SMR 180L4		
	103	1959	14,12	2,50		FG62 SMR 180L4		
	120	1682	12,13	2,91		FG62 SMR 180L4		
	140	1441	10,46	3,40		FG62 SMR 180L4		
	161	1253	9,05	3,91		FG62 SMR 180L4		
	59	3420	24,55	1,03		FG62 SMB 180L4		
	66	3057	22,19	1,26		FG62 SMB 180L4		
	72	2803	20,19	1,47		FG62 SMB 180L4		
	93	2170	15,70	2,09		FG62 SMB 180L4		
	100	2018	14,56	2,24		FG62 SMB 180L4		
	108	1868	13,54	2,41		FG62 SMB 180L4		
	124	1627	11,81	2,72		FG62 SMR 180L4		
	158	1277	9,22	3,31		FG62 SMR 180L4		
	178	1134	8,22	3,65		FG62 SMR 180L4		
	198	1019	7,37	3,95		FG62 SMR 180L4		
	220	917	6,63	4,27		FG62 SMR 180L4		
	232	870	6,29	4,42		FG62 SMR 180L4		
	30,00	75	2690	19,39		1,08		
84		2402	17,45	1,21	FG52 SMR 180L4			
99		2038	14,82	1,42	FG52 SMR 180L4			
117		1725	12,50	1,68	FG52 SMR 180L4			
133		1517	11,00	1,91	FG52 SMR 180L4			
150		1345	9,74	2,16	FG52 SMR 180L4			
88		2293	16,68	1,04	FG52 SMB 180L4			
92		2193	15,90	1,09	FG52 SMB 180L4			
107		1886	13,66	1,25	FG52 SMR 180L4			
123		1640	11,83	1,40	FG52 SMR 180L4			
137		1473	10,65	1,53	FG52 SMR 180L4			
161		1253	9,04	1,73	FG52 SMR 180L4			
191		1056	7,63	1,92	FG52 SMR 180L4			
218		926	6,71	2,13	FG52 SMR 180L4			
246		820	5,94	2,21	FG52 SMR 180L4			
30,00		19	14192	75,92	0,95		FG83 SMB 200L4	708
	21	12841	70,80	1,05	FG83 SMB 200L4			
	24	11235	62,11	1,20	FG83 SMR 200L4			
	27	9987	55,00	1,35	FG83 SMR 200L4			
	30	8988	49,07	1,50	FG83 SMR 200L4			
	33	8171	44,05	1,65	FG83 SMR 200L4			
	37	7288	39,75	1,85	FG83 SMR 200L4			
	41	6577	36,03	2,05	FG83 SMR 200L4			
	43	6271	34,35	2,15	FG83 SMR 200L4			
	49	5503	29,89	2,45	FG83 SMR 200L4			
	56	4815	26,16	2,80	FG83 SMR 200L4			


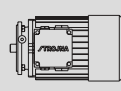



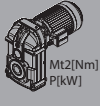
P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
30,00	64	4213	22,99	3,20		FG83 SMR 200L4		
	76	3548	19,43	3,56		FG83 SMR 200L4	708	154
	89	3030	16,47	3,53		FG83 SMR 200L4		
	37	7437	40,04	1,10		FG72 SMB 200L4		
	39	7055	37,22	1,16		FG72 SMB 200L4		
	42	6551	34,71	1,25		FG72 SMB 200L4		
	48	5732	30,45	1,43		FG72 SMR 200L4		
	55	5003	26,96	1,64		FG72 SMR 200L4		
	61	4511	24,06	1,82		FG72 SMR 200L4		
	68	4046	21,60	2,03		FG72 SMR 200L4		
	75	3669	19,49	2,24		FG72 SMR 200L4		
	83	3315	17,66	2,47		FG72 SMR 200L4		
	87	3163	16,84	2,59		FG72 SMR 200L4		
	100	2752	14,66	2,98		FG72 SMR 200L4		
	115	2393	12,83	3,43		FG72 SMR 200L4		
	130	2117	11,27	3,57		FG72 SMR 200L4		
	154	1787	9,53	3,58		FG72 SMR 200L4		
	182	1512	8,07	3,58		FG72 SMR 200L4		
	51	5395	28,67	0,98		FG72 SMB 200L4		
	57	4827	25,97	1,22		FG72 SMB 200L4	523	148
	62	4438	23,69	1,45		FG72 SMB 200L4		
	79	3483	18,56	2,04		FG72 SMB 200L4		
	85	3237	17,25	2,20		FG72 SMB 200L4		
	91	3024	16,09	2,36		FG72 SMB 200L4		
	104	2646	14,12	2,69		FG72 SMR 200L4		
	118	2332	12,50	3,02		FG72 SMR 200L4		
	132	2085	11,15	3,32		FG72 SMR 200L4		
	147	1872	10,01	3,59		FG72 SMR 200L4		
	163	1688	9,04	3,59		FG72 SMR 200L4		
	180	1529	8,19	3,63		FG72 SMR 200L4		
	188	1464	7,81	3,58		FG72 SMR 200L4		
	216	1274	6,79	3,58		FG72 SMR 200L4		
	247	1114	5,95	3,58		FG72 SMR 200L4		
	281	979	5,23	3,58		FG72 SMR 200L4		
	333	826	4,42	3,58		FG72 SMR 200L4		
	393	700	3,74	3,58		FG72 SMR 200L4		
	55	5003	26,51	0,98		FG62 SMR 200L4		
	63	4368	23,34	1,12		FG62 SMR 200L4		
	71	3875	20,69	1,26		FG62 SMR 200L4		
	80	3439	18,45	1,42		FG62 SMR 200L4		
	89	3092	16,53	1,58		FG62 SMR 200L4		
	99	2779	14,87	1,76		FG62 SMR 200L4		
	104	2646	14,12	1,85		FG62 SMR 200L4	425	142
	121	2274	12,13	2,15		FG62 SMR 200L4		
	140	1965	10,46	2,49		FG62 SMR 200L4		
	162	1698	9,05	2,88		FG62 SMR 200L4		
	73	3769	20,19	1,09		FG62 SMB 200L4		
	94	2927	15,70	1,55		FG62 SMB 200L4		


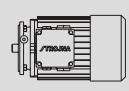



P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
30,00	101	2724	14,56	1,66		FG62 SMB 200L4	425	142	
	109	2524	13,54	1,78		FG62 SMB 200L4			
	124	2219	11,81	2,00		FG62 SMR 200L4			
	141	1951	10,40	2,23		FG62 SMR 200L4			
	159	1731	9,22	2,44		FG62 SMR 200L4			
	179	1537	8,22	2,69		FG62 SMR 200L4			
	200	1376	7,37	2,92		FG62 SMR 200L4			
	222	1239	6,63	3,16		FG62 SMR 200L4			
	234	1176	6,29	3,27		FG62 SMR 200L4			
	272	1012	5,40	3,47		FG62 SMR 200L4			
	315	874	4,66	3,47		FG62 SMR 200L4			
	365	754	4,03	3,48		FG62 SMR 200L4			
37,00	24	13857	62,11	0,97	FG83 SMB 225S4	773	154		
	27	12317	55,00	1,10	FG83 SMR 225S4				
	30	11086	49,07	1,22	FG83 SMR 225S4				
	33	10078	44,05	1,34	FG83 SMR 225S4				
	37	8988	39,75	1,50	FG83 SMR 225S4				
	41	8111	36,03	1,66	FG83 SMR 225S4				
	43	7734	34,35	1,75	FG83 SMR 225S4				
	49	6787	29,89	1,99	FG83 SMR 225S4				
	56	5939	26,16	2,27	FG83 SMR 225S4				
	64	5196	22,99	2,60	FG83 SMR 225S4				
	76	4376	19,43	2,89	FG83 SMR 225S4				
	89	3737	16,47	2,86	FG83 SMR 225S4				
	42	8080	34,71	1,01	FG72 SMB 225S4			588	148
	48	7070	30,45	1,16	FG72 SMB 225S4				
	55	6170	26,96	1,33	FG72 SMR 225S4				
	61	5563	24,06	1,47	FG72 SMR 225S4				
	68	4991	21,60	1,64	FG72 SMR 225S4				
	75	4525	19,49	1,81	FG72 SMR 225S4				
	83	4089	17,66	2,01	FG72 SMR 225S4				
	87	3901	16,84	2,10	FG72 SMR 225S4				
	100	3394	14,66	2,42	FG72 SMR 225S4				
115	2951	12,83	2,78	FG72 SMR 225S4					
130	2610	11,27	2,89	FG72 SMR 225S4					
154	2204	9,53	2,90	FG72 SMR 225S4					
182	1865	8,07	2,90	FG72 SMR 225S4					
79	4296	18,56	1,65	FG72 SMB 225S4					
85	3992	17,25	1,78	FG72 SMB 225S4					
91	3729	16,09	1,91	FG72 SMB 225S4					
104	3263	14,12	2,18	FG72 SMB 225S4					
118	2876	12,50	2,45	FG72 SMR 225S4					
132	2571	11,15	2,69	FG72 SMR 225S4					
147	2309	10,01	2,91	FG72 SMR 225S4					
163	2082	9,04	2,91	FG72 SMR 225S4					
180	1885	8,19	2,94	FG72 SMR 225S4					
188	1805	7,81	2,90	FG72 SMR 225S4					
216	1571	6,79	2,90	FG72 SMR 225S4					


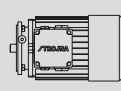





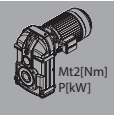
P	n ₂	Mt ₂	i	f _B			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
37,00	247	1374	5,95	2,90	FG72	SMR	225S4	588	148		
	281	1208	5,23	2,90		SMR	225S4				
	333	1019	4,42	2,91		SMR	225S4				
	393	864	3,74	2,91		SMR	225S4				
	71	4780	20,69	1,03	FG62	SMR	225S4	490	142		
	80	4242	18,45	1,16	FG62	SMR	225S4				
	89	3813	16,53	1,29	FG62	SMR	225S4				
	99	3428	14,87	1,43	FG62	SMR	225S4				
	104	3263	14,12	1,50	FG62	SMR	225S4				
	121	2805	12,13	1,75	FG62	SMR	225S4				
	140	2424	10,46	2,02	FG62	SMR	225S4				
	162	2095	9,05	2,34	FG62	SMR	225S4				
	94	3610	15,70	1,25	FG62	SMB	225S4				
	101	3360	14,56	1,34	FG62	SMB	225S4				
	109	3113	13,54	1,44	FG62	SMB	225S4				
	124	2737	11,81	1,62	FG62	SMB	225S4				
	141	2407	10,40	1,81	FG62	SMR	225S4				
	159	2134	9,22	1,98	FG62	SMR	225S4				
	179	1896	8,22	2,18	FG62	SMR	225S4				
200	1697	7,37	2,37	FG62	SMR	225S4					
222	1529	6,63	2,56	FG62	SMR	225S4					
234	1450	6,29	2,65	FG62	SMR	225S4					
272	1248	5,40	2,82	FG62	SMR	225S4					
315	1077	4,66	2,81	FG62	SMR	225S4					
365	930	4,03	2,82	FG62	SMR	225S4					
45,00	30	13483	49,07	1,00	FG83	SMR	225M4	805	154		
	33	12257	44,05	1,10	FG83	SMR	225M4				
	37	10932	39,75	1,23	FG83	SMR	225M4				
	41	9865	36,03	1,37	FG83	SMR	225M4				
	43	9406	34,35	1,44	FG83	SMR	225M4				
	49	8255	29,89	1,64	FG83	SMR	225M4				
	56	7223	26,16	1,87	FG83	SMR	225M4				
	64	6320	22,99	2,14	FG83	SMR	225M4				
	76	5322	19,43	2,37	FG83	SMR	225M4				
	89	4545	16,47	2,36	FG83	SMR	225M4				
	48	8599	30,45	0,95	FG72	SMB	225M4			620	148
	55	7504	26,96	1,09	FG72	SMR	225M4				
	61	6766	24,06	1,21	FG72	SMR	225M4				
	68	6070	21,60	1,35	FG72	SMR	225M4				
	75	5503	19,49	1,49	FG72	SMR	225M4				
	83	4973	17,66	1,65	FG72	SMR	225M4				
	87	4744	16,84	1,73	FG72	SMR	225M4				
	100	4127	14,66	1,99	FG72	SMR	225M4				
	115	3589	12,83	2,28	FG72	SMR	225M4				
	130	3175	11,27	2,38	FG72	SMR	225M4				
	154	2680	9,53	2,38	FG72	SMR	225M4				
	182	2268	8,07	2,39	FG72	SMR	225M4				
	79	5224	18,56	1,36	FG72	SMB	225M4				



P	n ₂	Mt ₂	i	f _b			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
45,00	91	4536	16,09	1,57		FG72 SMB 225M4	620	148			
	104	3969	14,12	1,79		FG72 SMB 225M4					
	118	3498	12,50	2,02		FG72 SMR 225M4					
	132	3127	11,15	2,21		FG72 SMR 225M4					
	147	2808	10,01	2,39		FG72 SMR 225M4					
	163	2532	9,04	2,39		FG72 SMR 225M4					
	180	2293	8,19	2,42		FG72 SMR 225M4					
	188	2195	7,81	2,38		FG72 SMR 225M4					
	216	1911	6,79	2,38		FG72 SMR 225M4					
	247	1671	5,95	2,39		FG72 SMR 225M4					
	281	1469	5,23	2,38		FG72 SMR 225M4					
	333	1239	4,42	2,39		FG72 SMR 225M4					
	393	1050	3,74	2,39		FG72 SMR 225M4					
	55,00	89	4637	16,53		1,06			FG62 SMR 225M4	522	142
		99	4169	14,87		1,18			FG62 SMR 225M4		
104		3969	14,12	1,23	FG62 SMR 225M4						
121		3411	12,13	1,44	FG62 SMR 225M4						
140		2948	10,46	1,66	FG62 SMR 225M4						
162		2548	9,05	1,92	FG62 SMR 225M4						
94		4391	15,70	1,03	FG62 SMB 225M4						
101		4086	14,56	1,10	FG62 SMB 225M4						
109		3787	13,54	1,19	FG62 SMB 225M4						
124		3328	11,81	1,33	FG62 SMB 225M4						
141		2927	10,40	1,49	FG62 SMR 225M4						
159		2596	9,22	1,63	FG62 SMR 225M4						
179		2306	8,22	1,80	FG62 SMR 225M4						
200		2064	7,37	1,95	FG62 SMR 225M4						
222		1859	6,63	2,11	FG62 SMR 225M4						
234		1764	6,29	2,18	FG62 SMR 225M4						
272		1517	5,40	2,32	FG62 SMR 225M4						
315		1310	4,66	2,31	FG62 SMR 225M4						
365		1131	4,03	2,32	FG62 SMR 225M4						
55,00		37	13361	39,75	1,01	FG83 SMR 250M4	888	154			
	41	12058	36,03	1,12	FG83 SMR 250M4						
	43	11497	34,35	1,17	FG83 SMR 250M4						
	50	9887	29,89	1,37	FG83 SMR 250M4						
	57	8673	26,16	1,56	FG83 SMR 250M4						
	64	7724	22,99	1,75	FG83 SMR 250M4						
	76	6505	19,43	1,94	FG83 SMR 250M4						
	90	5493	16,47	1,95	FG83 SMR 250M4						
	55,00	62	8136	24,06	1,01	FG72 SMB 250M4			703	148	
		69	7311	21,60	1,12	FG72 SMR 250M4					
		76	6638	19,49	1,24	FG72 SMR 250M4					
		84	6005	17,66	1,37	FG72 SMR 250M4					
		88	5732	16,84	1,43	FG72 SMR 250M4					
101		4995	14,66	1,64	FG72 SMR 250M4						
115		4387	12,83	1,87	FG72 SMR 250M4						
131		3851	11,27	1,96	FG72 SMR 250M4						



P	n ₂	Mt ₂	i	f _B			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
55,00	155	3255	9,53	1,96		FG72	SMR 250M4		
	183	2757	8,07	1,96		FG72	SMR 250M4		
	80	6306	18,56	1,13		FG72	SMB 250M4		
	86	5866	17,25	1,21		FG72	SMB 250M4		
	92	5483	16,09	1,30		FG72	SMB 250M4		
	105	4804	14,12	1,48		FG72	SMB 250M4		
	118	4275	12,50	1,65		FG72	SMB 250M4		
	133	3793	11,15	1,82		FG72	SMB 250M4		
	148	3408	10,01	1,97		FG72	SMR 250M4		703
	164	3076	9,04	1,97		FG72	SMR 250M4		148
	181	2787	8,19	1,99		FG72	SMR 250M4		
	190	2655	7,81	1,97		FG72	SMR 250M4		
	218	2314	6,79	1,97		FG72	SMR 250M4		
	249	2026	5,95	1,97		FG72	SMR 250M4		
	283	1783	5,23	1,97		FG72	SMR 250M4		
	335	1506	4,42	1,97		FG72	SMR 250M4		
	395	1277	3,74	1,96		FG72	SMR 250M4		

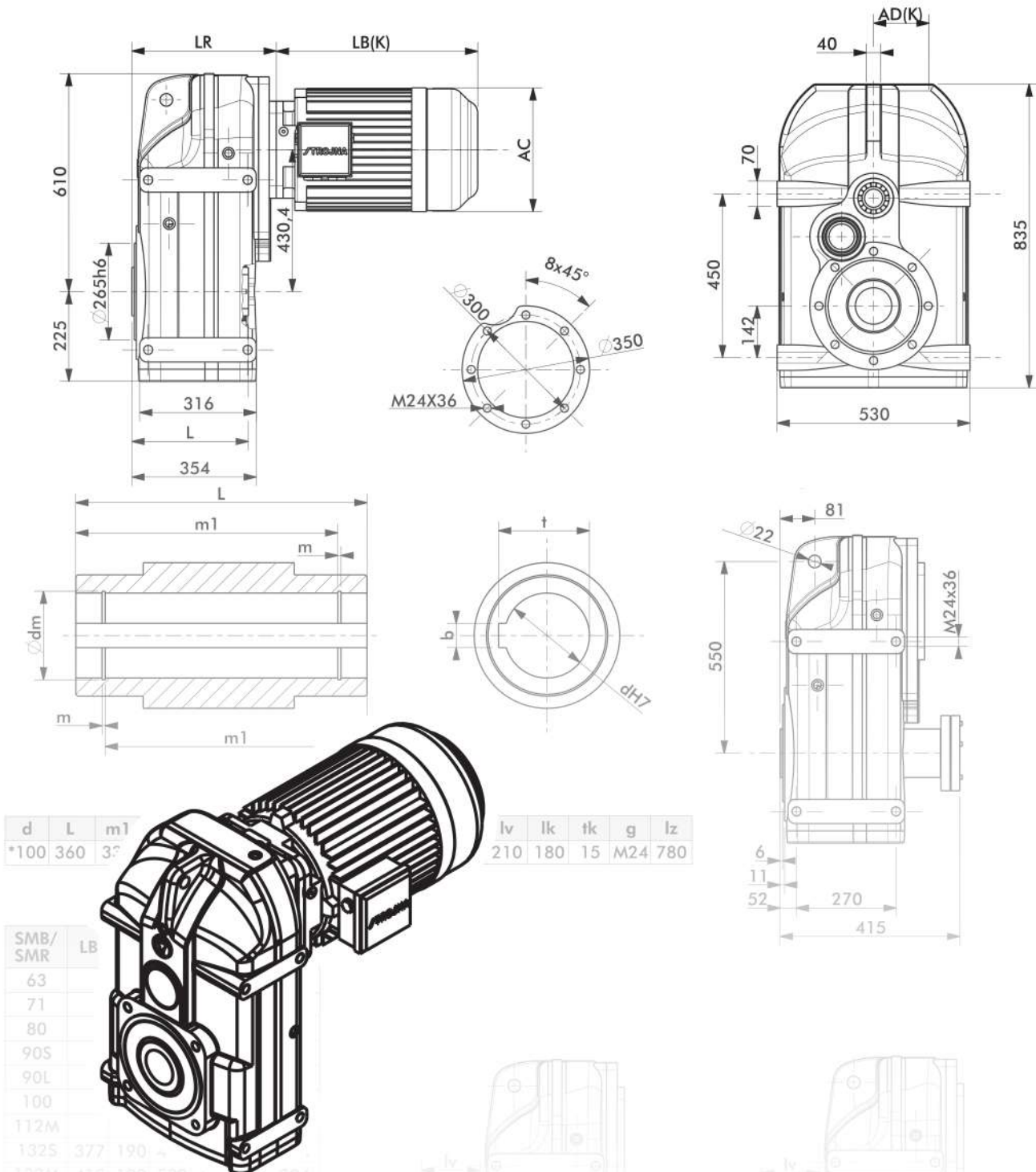




FG

HELICAL SHAFT MOUNTED GEAR UNITS

Dimension sheets - Geared motors



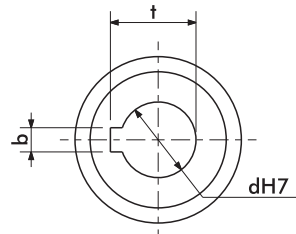
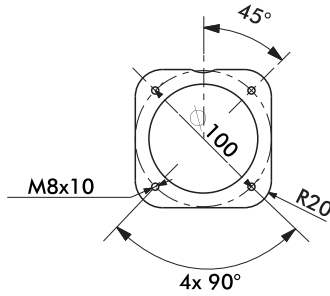
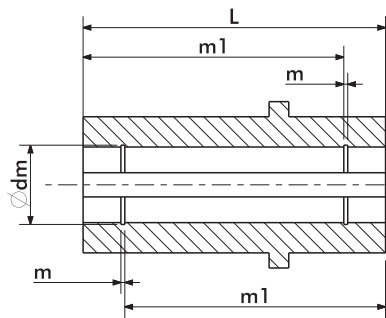
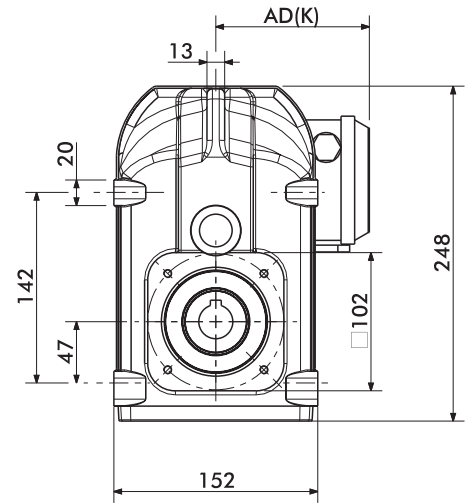
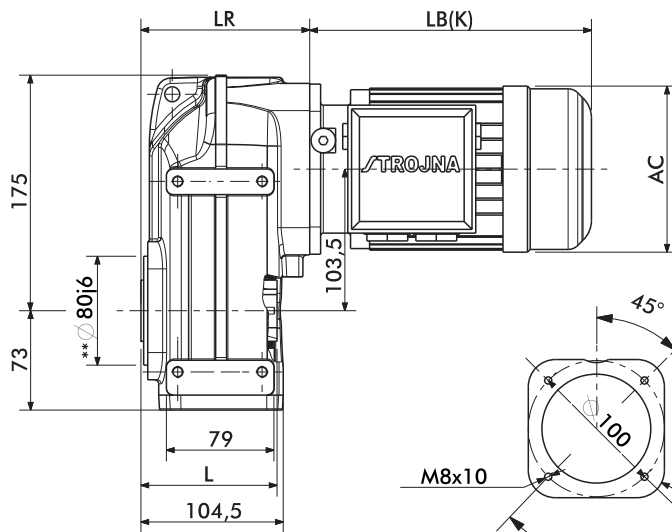
d	L	m1
*100	360	350

lv	lk	fk	g	lz
210	180	15	M24	780

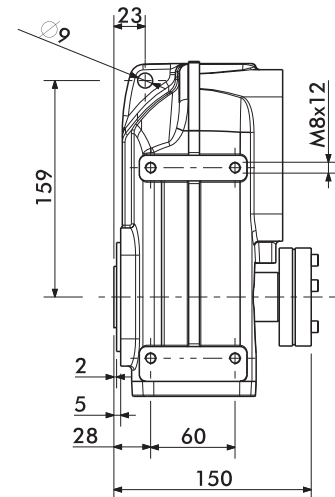
SMB/ SMR	LB
63	
71	
80	
90S	
90L	
100	
112M	
132S	377 190
132M	415 190 532
132Mh	415 190 532
160M	485
160L	525

Drawings are for reference dimensions only and subject to change.
 We reserve the right to change technical data or dimensions due to modifications.

FG12...SMB/SMR



FG12D...

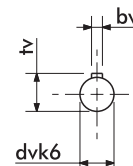
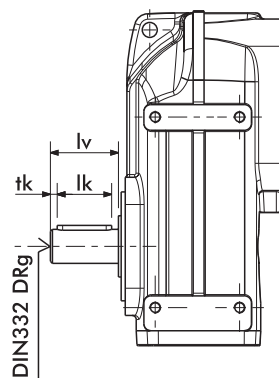


d	L	m1	dm	m	t	b
25	105	91	26,2	1,3	28,3	8
*30	105	91	31,4	1,3	33,3	8

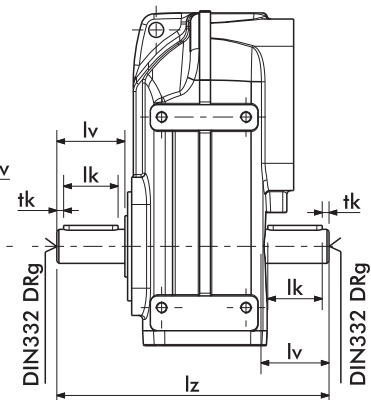
dv	tv	bv	lv	lk	tk	g	lz
25	28	8	50	40	5	M10	205
*30	33	8	60	50	5	M10	225

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	124
71	223	105	280	137	140	124
80	251	110	311	147	154	124
90S	276	121	360	164	170	124
90L	301	121	385	164	170	124
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

FG12V...

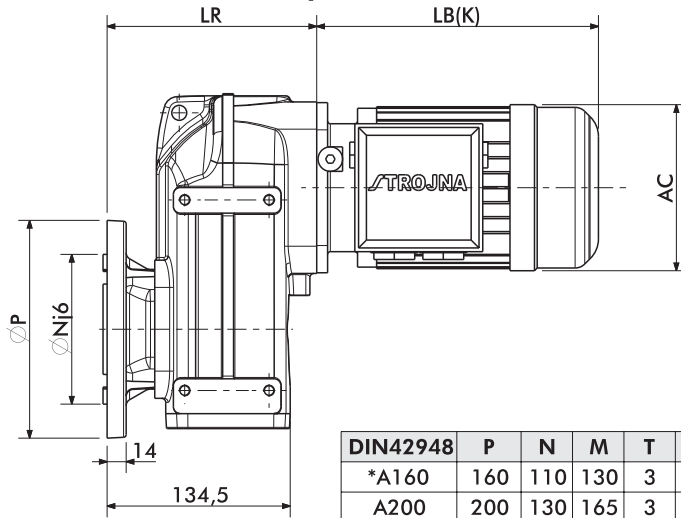


FG12Z...



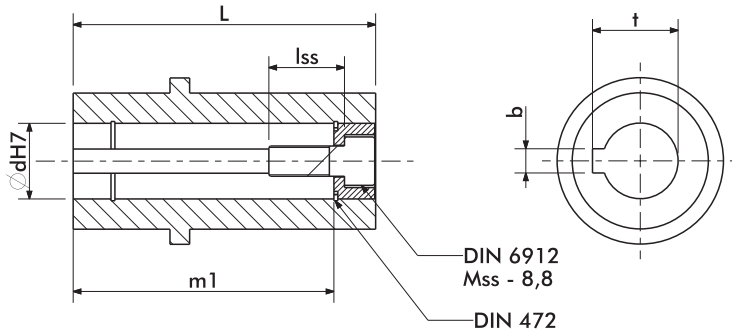
* Standard
**C Flange DIN42948

FG12P...SMB/SMR



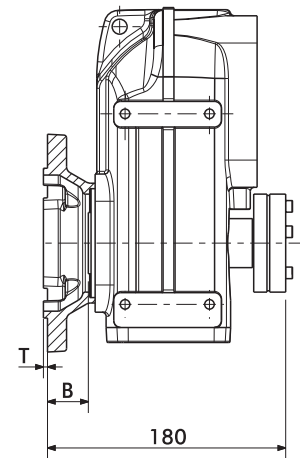
DIN42948	P	N	M	T	B	S
*A160	160	110	130	3	30	9
A200	200	130	165	3	30	11

FG12PD...



d	L	m1	lss	Mss	t	b
25	105	91	25	M10	28,3	8
*30	105	91	25	M10	33,3	8

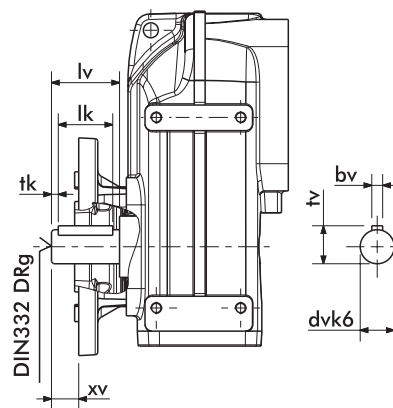
dv	tv	bv	lv	lk	tk	xv	g	lz
25	28	8	50	40	5	20	M10	205
*30	33	8	60	50	5	30	M10	225



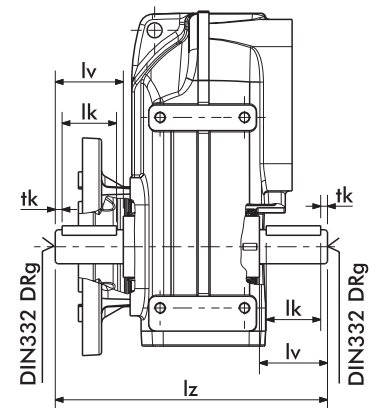
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	154
71	223	105	280	137	140	154
80	251	110	311	147	154	154
90S	276	121	360	164	170	154
90L	301	121	385	164	170	154
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

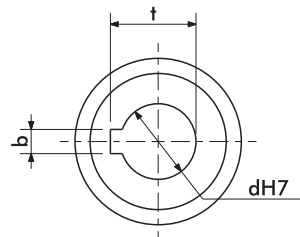
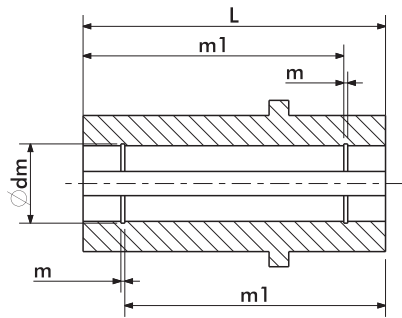
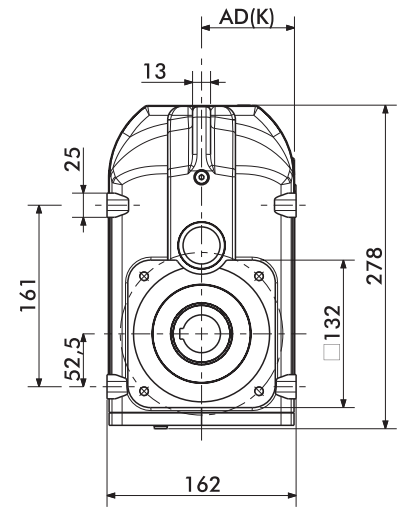
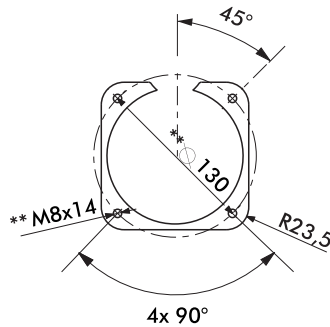
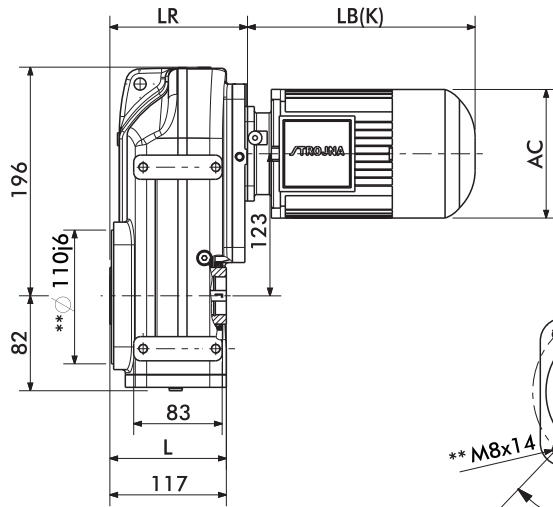
FG12PV...



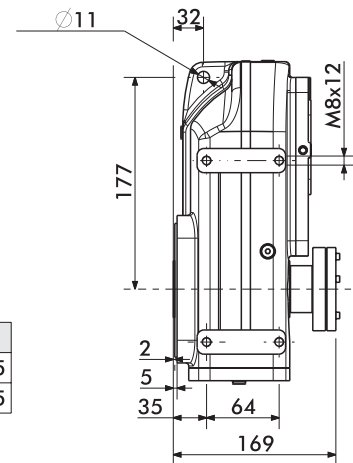
FG12PZ...



FG22...SMB/SMR



FG22D...

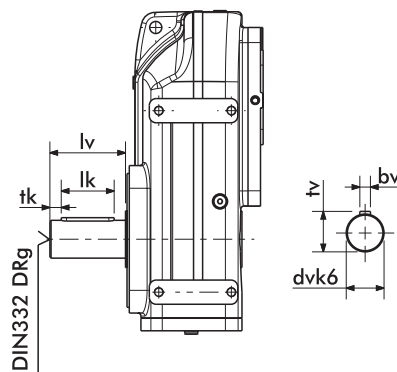


d	L	m1	dm	m	t	b
30	115	101	31,4	1,3	33,3	8
*35	115	100	37	1,6	38,3	10

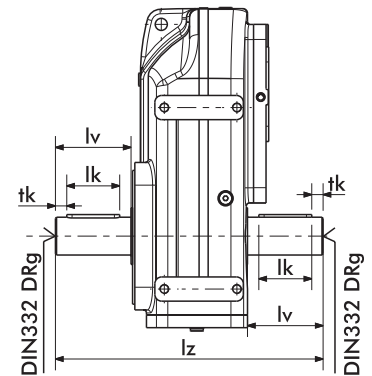
dv	tv	bv	lv	lk	tk	g	lz
30	33	8	60	50	5	M10	235
*35	38	10	70	60	5	M12	255

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	138
71	223	105	280	137	140	138
80	251	110	311	147	154	138
90S	276	121	360	164	170	138
90L	301	121	385	164	170	138
100	329	157	418	174	193	142
112M	334	169	434	199	216	142
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

FG22V...

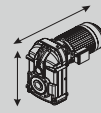
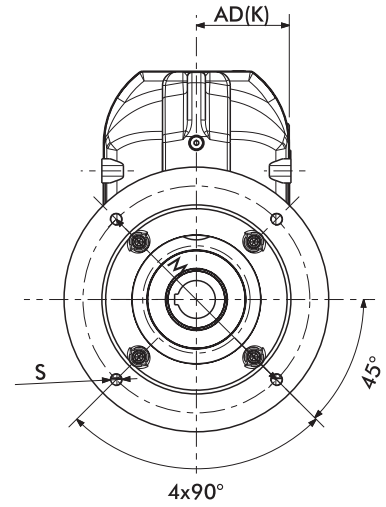
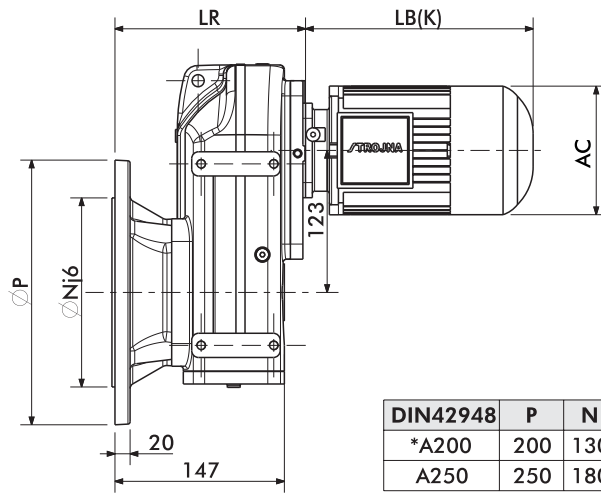


FG22Z...

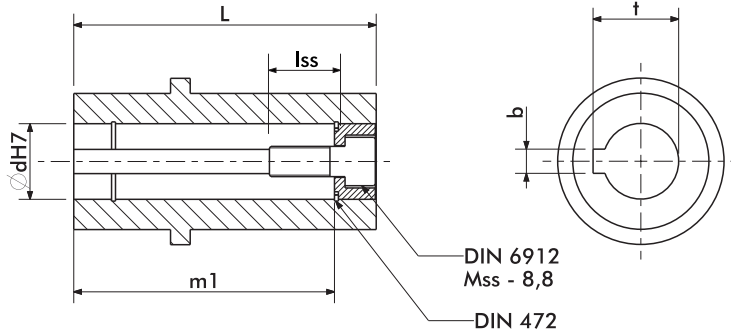


* Standard
** C Flange DIN42948

FG22P...SMB/SMR



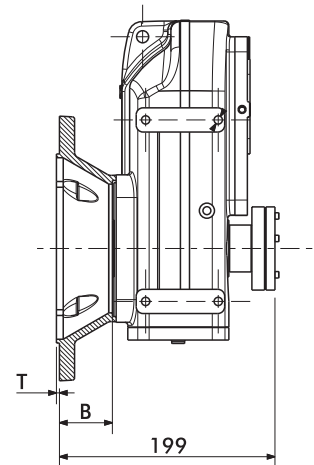
DIN42948	P	N	M	T	B	S
*A200	200	130	165	3	30	11
A250	250	180	215	4	30	14



FG22PD...

d	L	m1	lss	Mss	t	b
30	115	101	25	M10	33,3	8
*35	115	100	30	M12	38,3	10

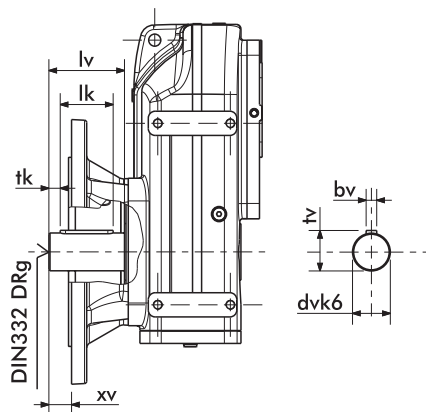
dv	tv	bv	lv	lk	tk	xv	g	lz
30	33	8	60	50	5	30	M10	235
*35	38	10	70	60	5	40	M12	255



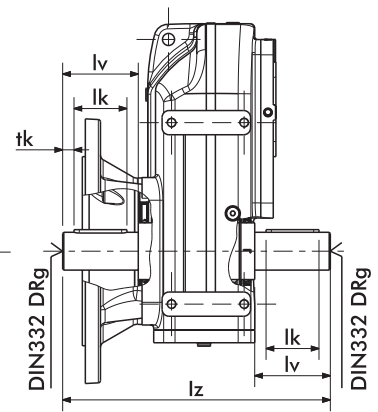
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	168
71	223	105	280	137	140	168
80	251	110	311	147	154	168
90S	276	121	360	164	170	168
90L	301	121	385	164	170	168
100	329	157	418	174	193	172
112M	334	169	434	199	216	172
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

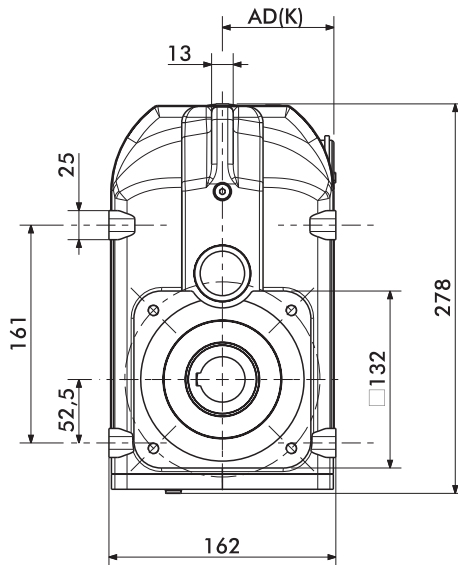
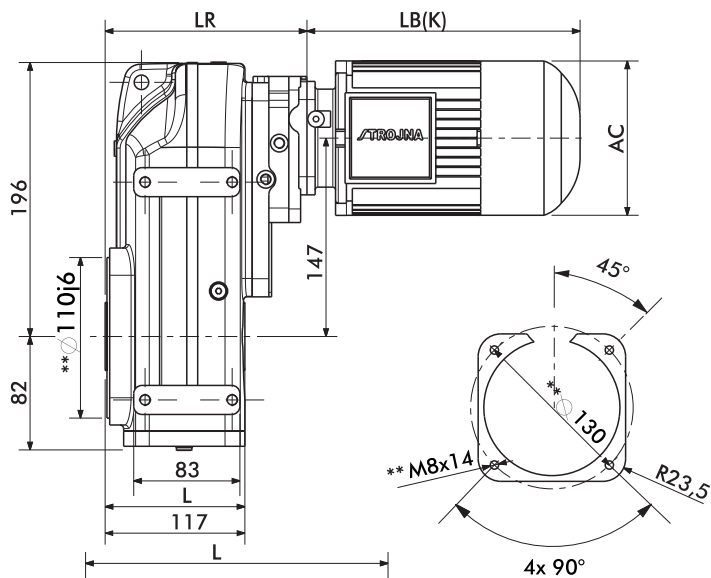
FG22PV...



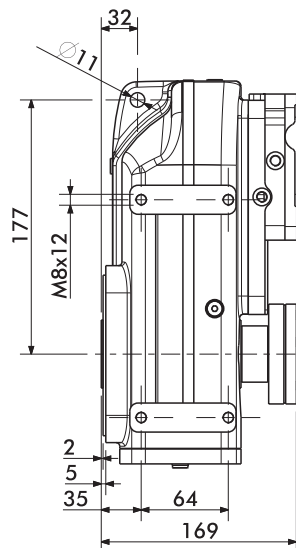
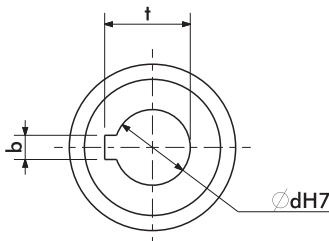
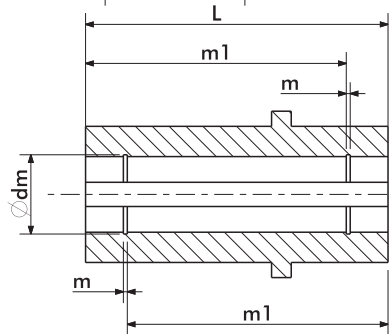
FG22PZ...



FG23...SMB/SMR



FG23D...

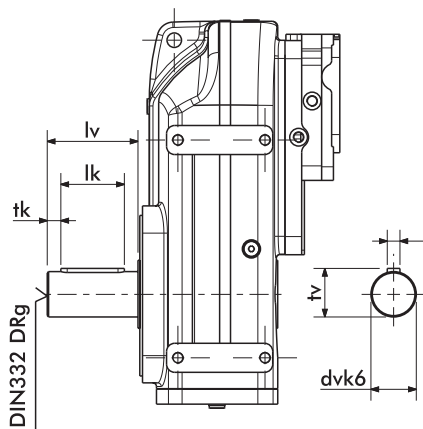


d	L	m1	dm	m	t	b
30	115	101	31,4	1,3	33,3	8
*35	115	100	37	1,6	38,3	10

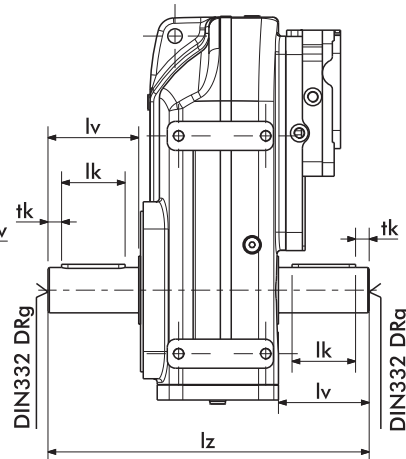
dv	tv	bv	lv	lk	tk	g	lz
30	33	8	60	50	5	M10	235
*35	38	10	70	60	5	M12	255

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	172
71	223	105	280	137	140	172
80	251	110	311	147	154	172
90S	276	121	360	164	170	172
90L	301	121	385	164	170	172
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

FG23V...

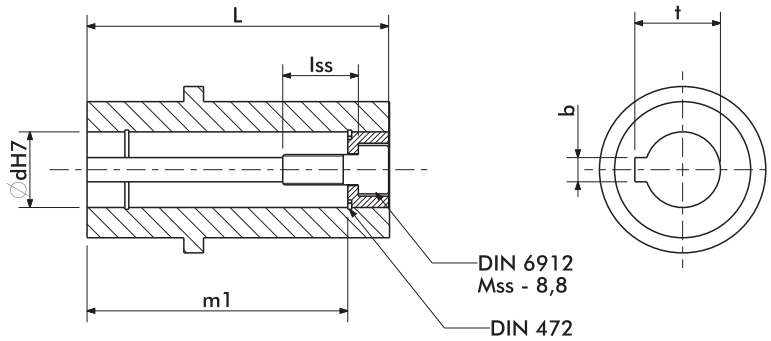
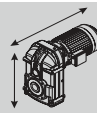
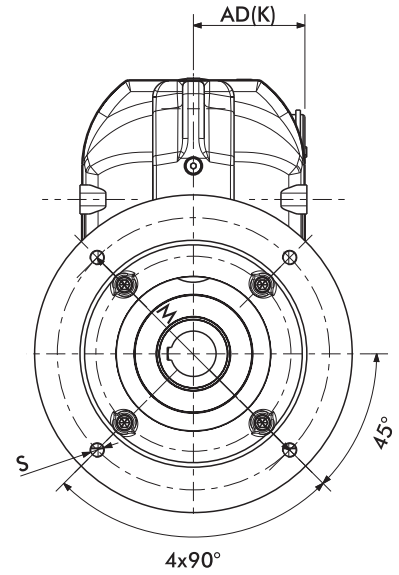
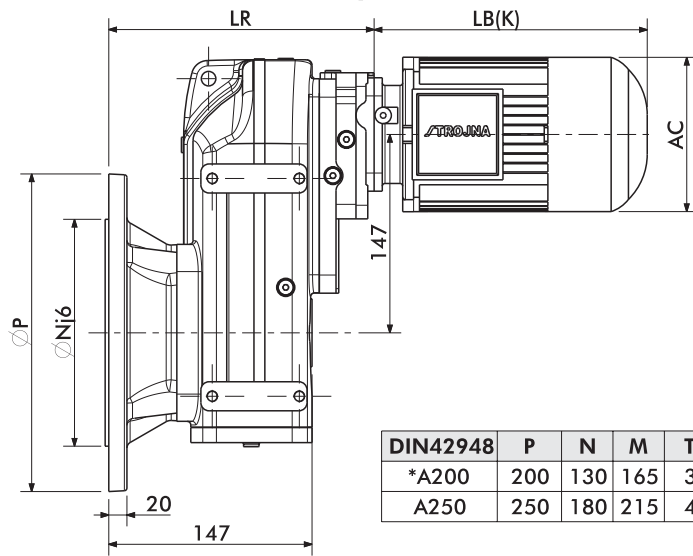


FG23Z...



* Standard
** C Flange DIN42948

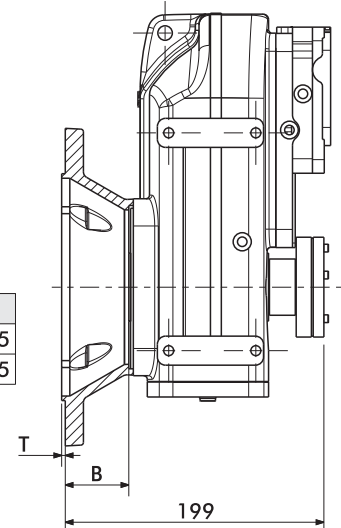
FG23P...SMB/SMR



d	L	m1	lss	Mss	t	b
30	115	101	25	M10	33,3	8
*35	115	100	30	M12	38,3	10

dv	tv	bv	lv	lk	xv	tk	g	lz
30	33	8	60	50	30	5	M10	235
*35	38	10	70	60	40	5	M12	255

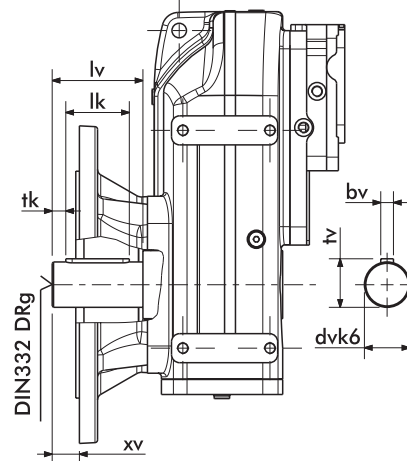
FG23PD...



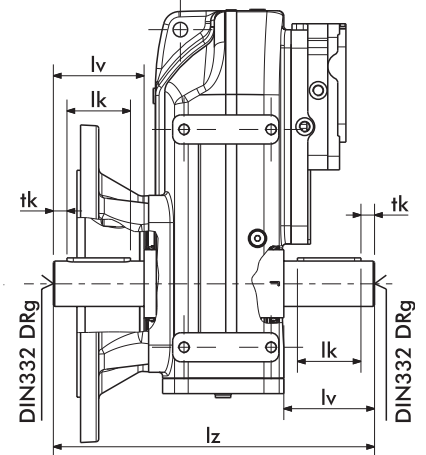
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	202
71	223	105	280	137	140	202
80	251	110	311	147	154	202
90S	276	121	360	164	170	202
90L	301	121	385	164	170	202
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

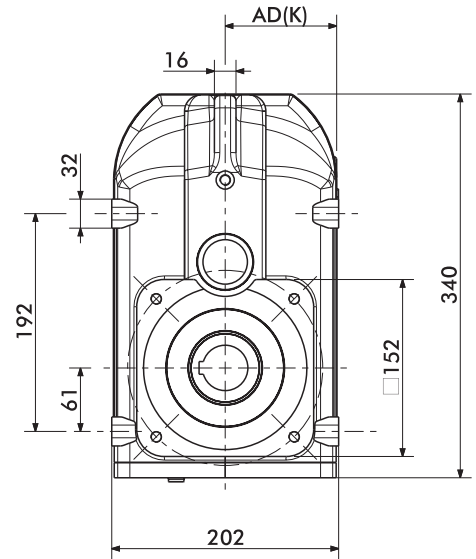
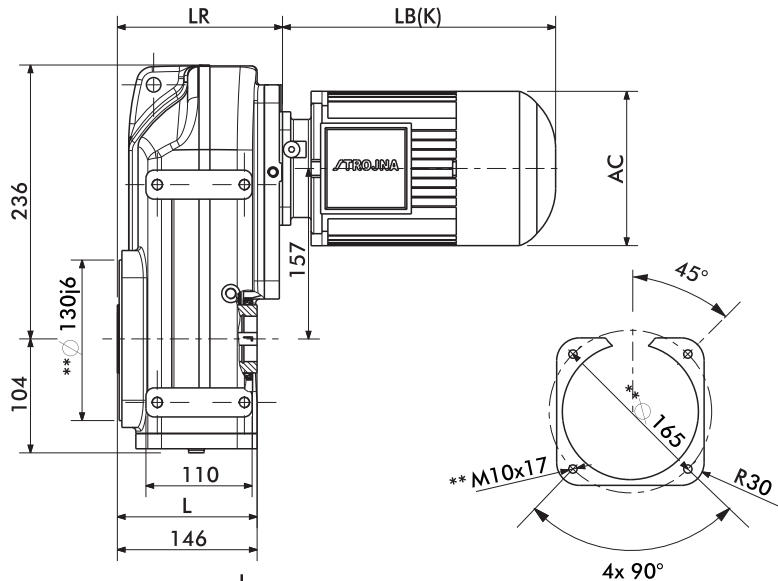
FG23PV...



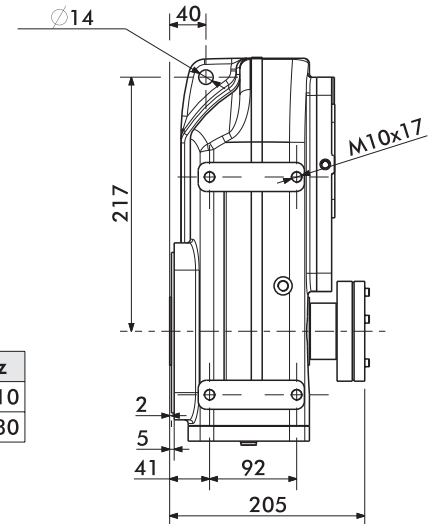
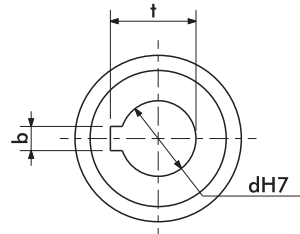
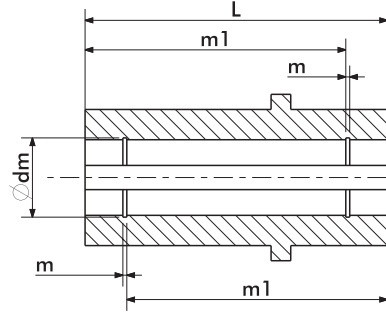
FG23PZ...



FG32...SMB/SMR



FG32D...

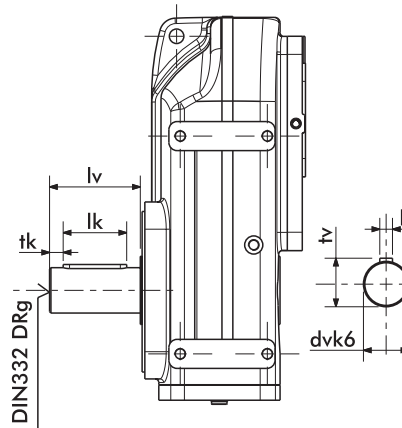


d	L	m1	dm	m	t	b
*40	150	138	42,5	1,85	43,3	12
45	150	133	47,5	1,85	48,8	14

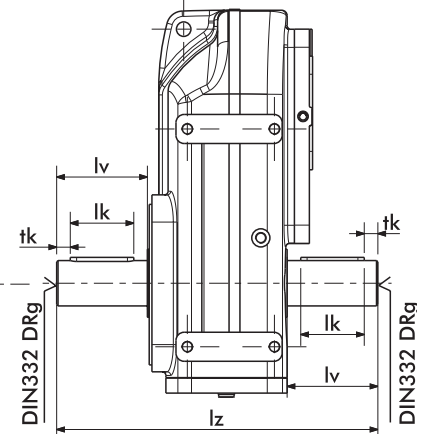
dv	tv	bv	lv	lk	tk	g	lz
*40	43	12	80	70	5	M16	310
45	48,5	14	90	80	5	M16	330

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	169
71	223	105	280	137	140	169
80	251	110	311	147	154	169
90S	276	121	360	164	170	169
90L	301	121	385	164	170	169
100	329	157	418	174	193	173
112M	334	169	434	199	216	173
132S	377	190	492	183	247	186
132M	415	190	532	183	247	186
132Ma	415	190	532	183	247	186
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

FG32V...

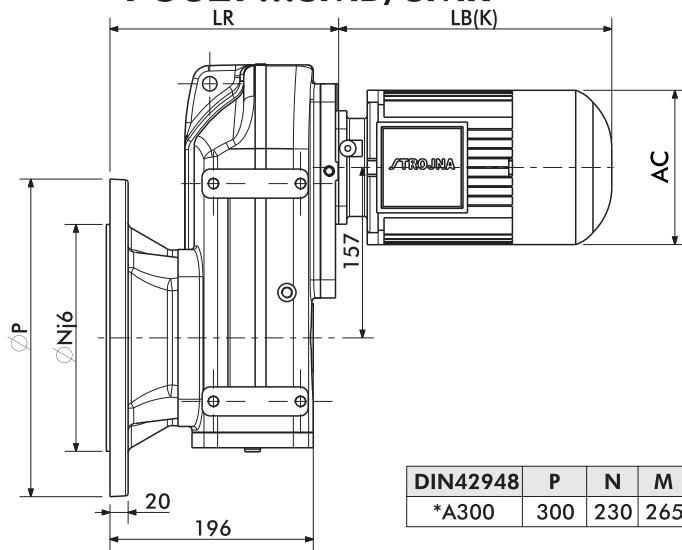


FG32Z...

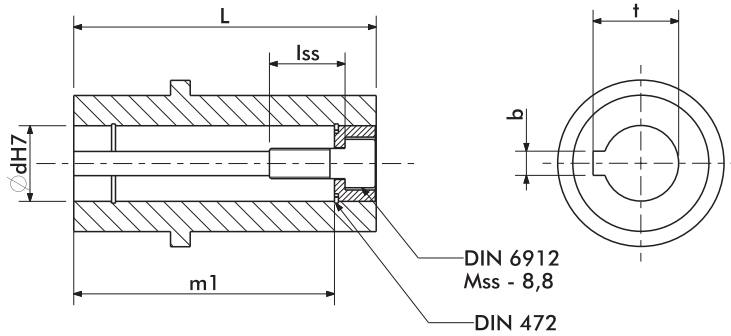
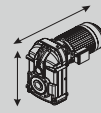
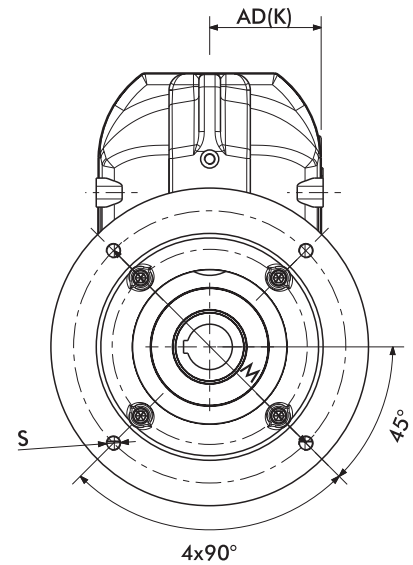


*Standard
** C Flange DIN42948

FG32P...SMB/SMR



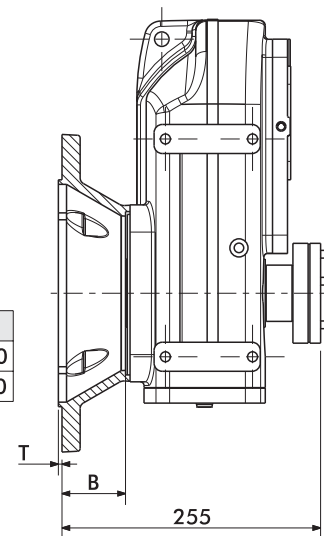
DIN42948	P	N	M	T	B	S
*A300	300	230	265	4	50	14



d	L	m1	lss	Mss	t	b
*40	150	138	40	M16	43,3	12
45	150	133	40	M16	48,8	14

dv	tv	bv	lv	lk	tk	xv	g	lz
*40	43	12	80	70	5	30	M16	310
45	48,5	14	90	80	5	40	M16	330

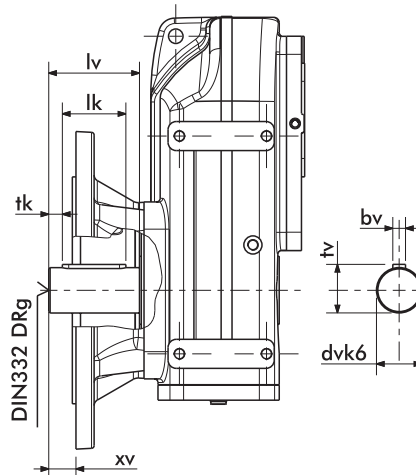
FG32PD...



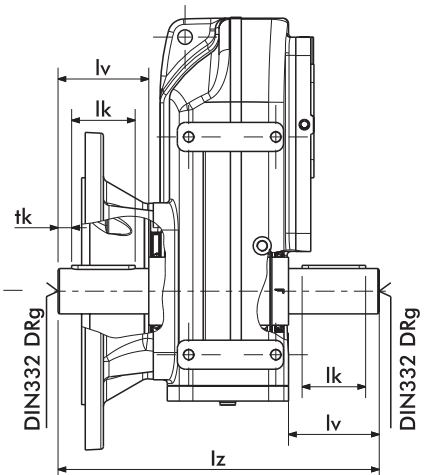
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	219
71	223	105	280	137	140	219
80	251	110	311	147	154	219
90S	276	121	360	164	170	219
90L	301	121	385	164	170	219
100	329	157	418	174	193	223
112M	334	169	434	199	216	223
132S	377	190	492	183	247	236
132M	415	190	532	183	247	236
132Ma	415	190	532	183	247	236
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

*Standard

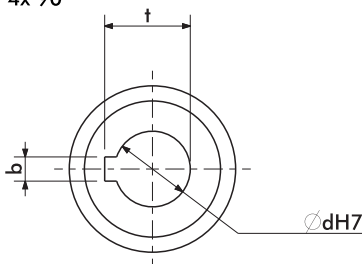
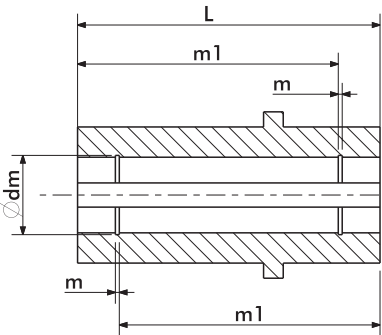
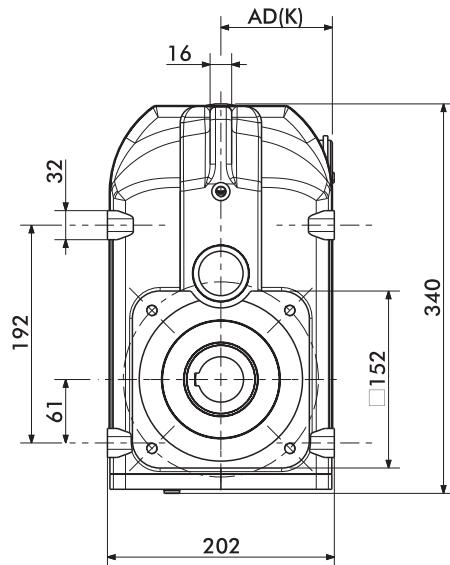
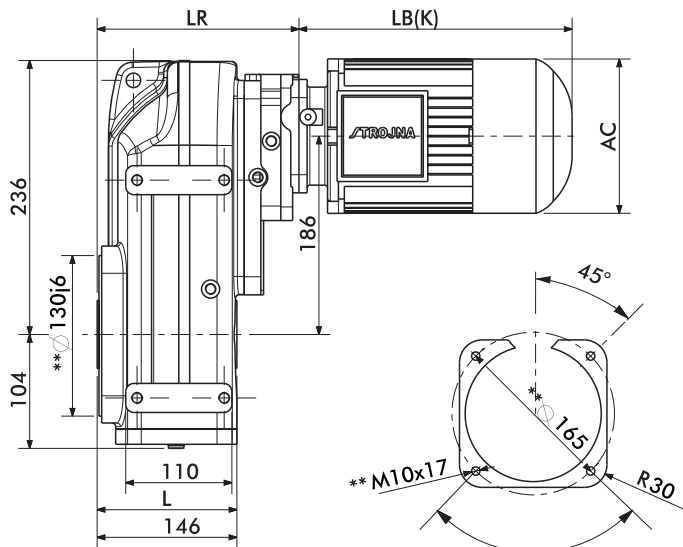
FG32PV...



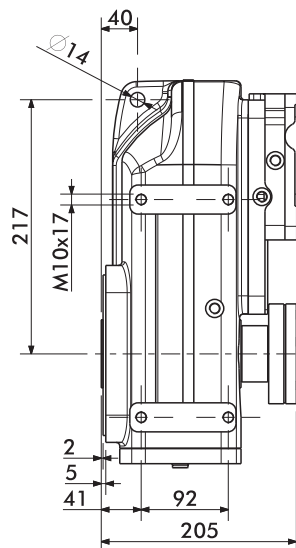
FG32PZ...



FG33...SMB/SMR



FG33D...

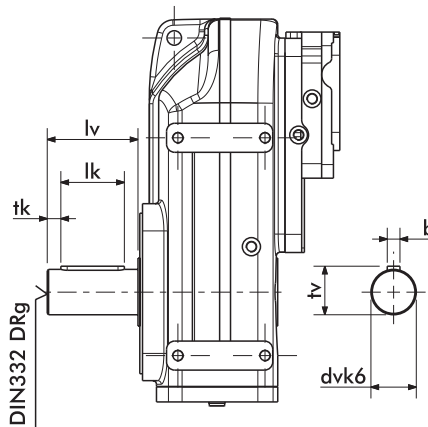


d	L	m1	dm	m	t	b
*40	150	138	42,5	1,85	43,3	12
45	150	133	47,5	1,85	48,8	14

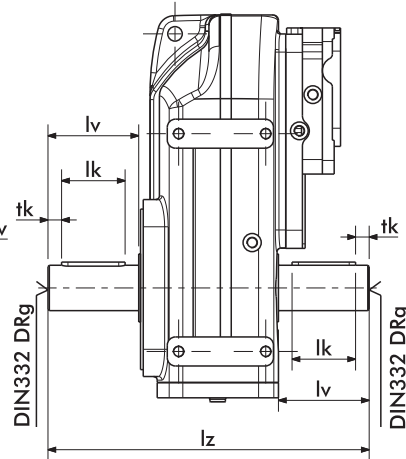
dv	tv	bv	lv	lk	tk	g	lz
*40	43	12	80	70	5	M16	310
50	53,5	14	100	90	5	M16	350

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	203
71	223	105	280	137	140	203
80	251	110	311	147	154	203
90S	276	121	360	164	170	203
90L	301	121	385	164	170	203
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

FG33V...

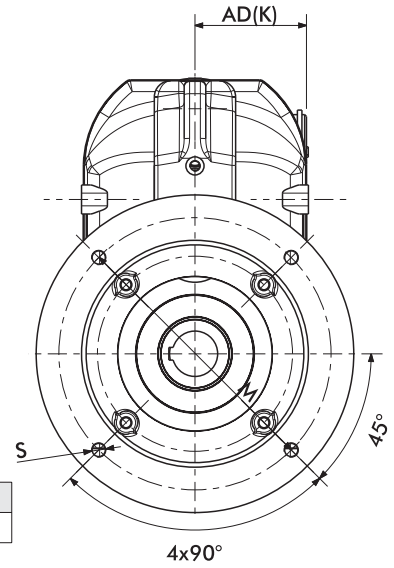
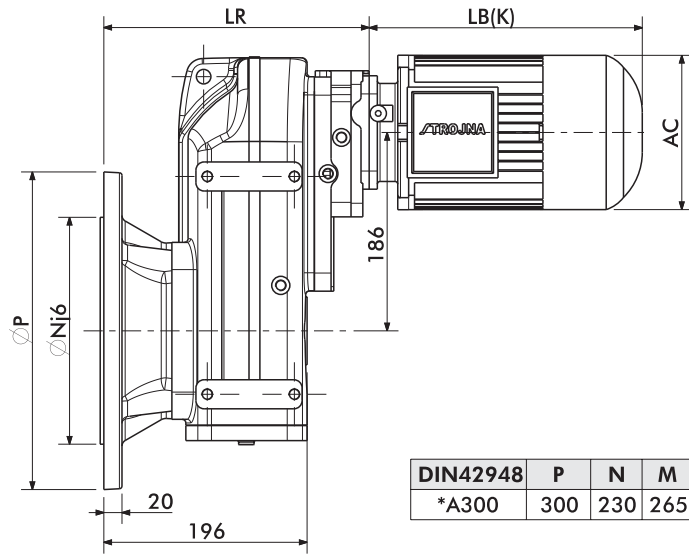


FG33Z...

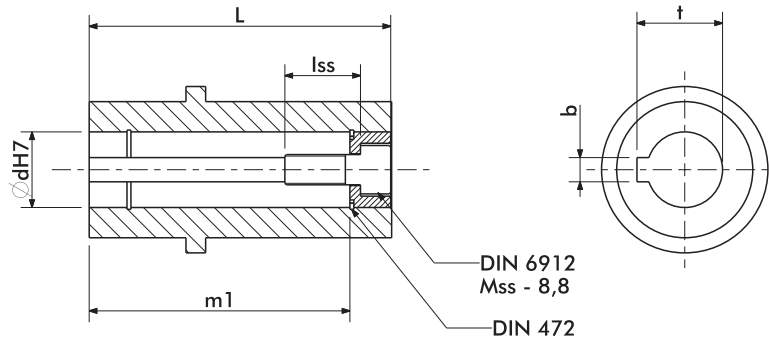


* Standard
** C Flange DIN42948

FG33P...SMB/SMR



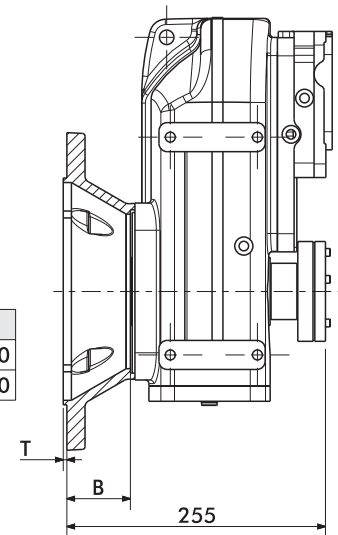
DIN42948	P	N	M	T	B	S
*A300	300	230	265	4	50	14



d	L	m1	lss	Mss	t	b
*40	150	138	40	M16	43,3	12
45	150	133	40	M16	48,8	14

dv	tv	bv	lv	lk	xv	tk	g	lz
*40	43	12	80	70	30	5	M16	310
50	53,5	14	100	90	50	5	M16	350

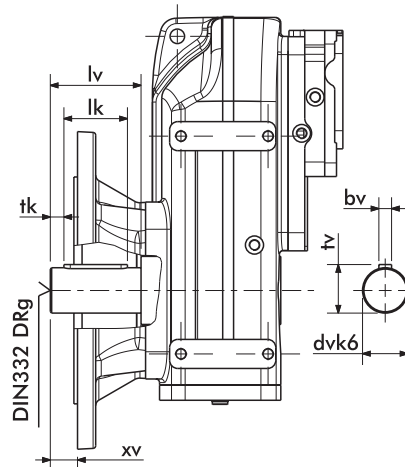
FG33PD...



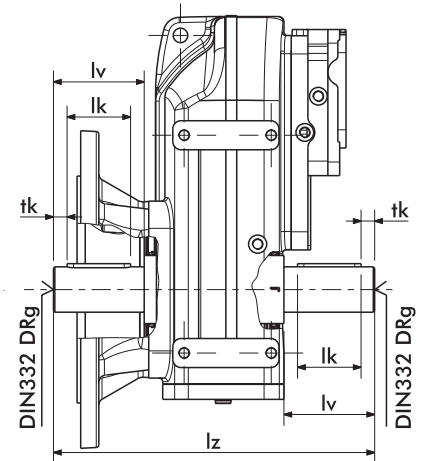
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	273
71	223	105	280	137	140	273
80	251	110	311	147	154	273
90S	276	121	360	164	170	273
90L	301	121	385	164	170	273
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

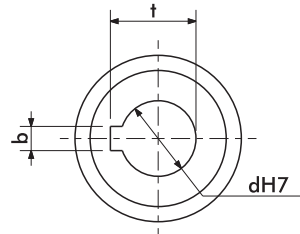
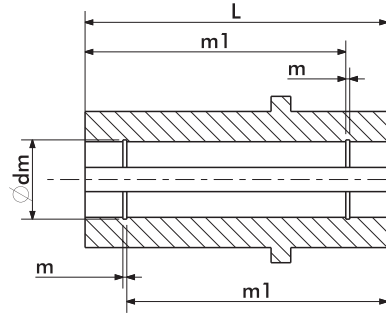
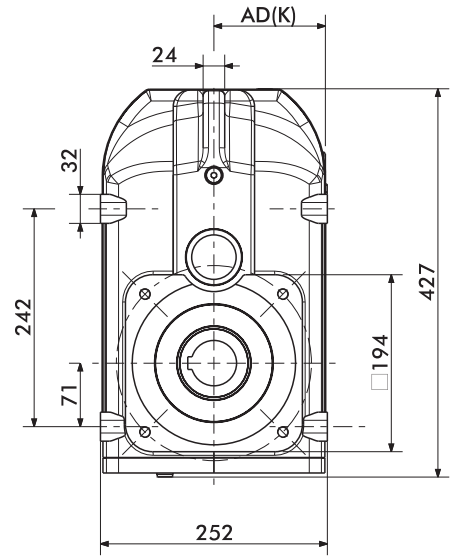
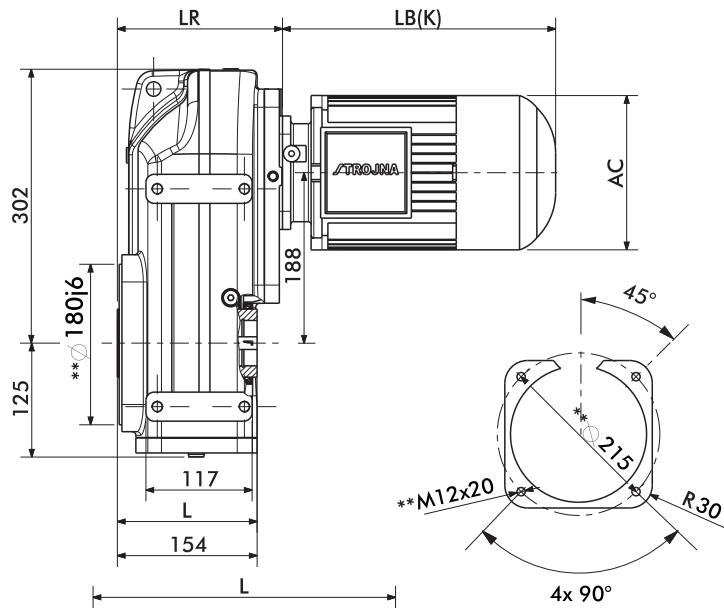
FG33PV...



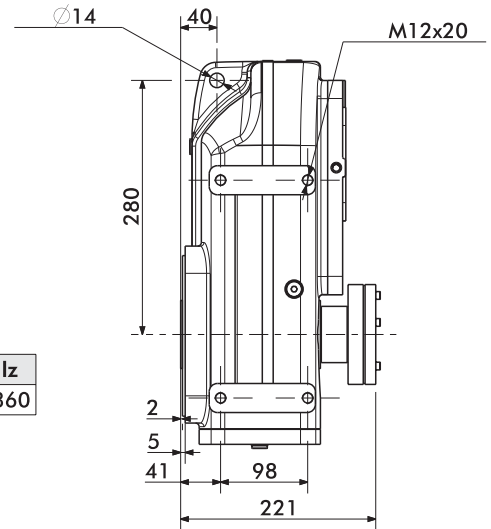
FG33PZ...



FG42...SMB/SMR



FG42D...

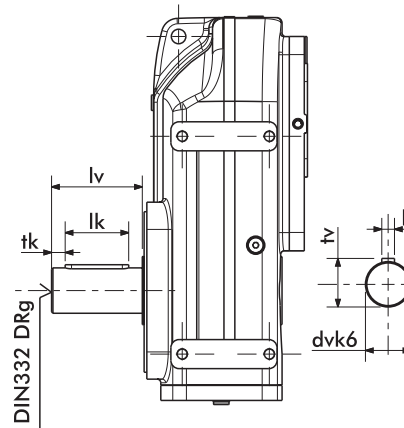


d	L	m1	dm	m	t	b
*50	160	143	53	2,15	53,8	14

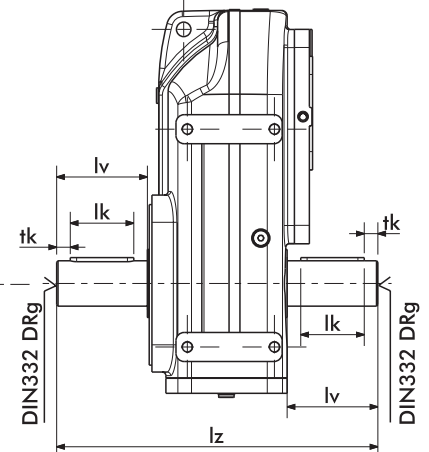
dv	tv	bv	lv	lk	tk	g	lz
*50	53,5	14	100	80	10	M16	360

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	181
71	223	105	280	137	140	181
80	251	110	311	147	154	181
90S	276	121	360	164	170	181
90L	301	121	385	164	170	181
100	329	157	418	174	193	185
112M	334	169	434	199	216	185
132S	377	190	492	183	247	198
132M	415	190	532	183	247	198
132Ma	415	190	532	183	247	198
160M	489	246	613	246	285	207
160L	533	246	657	246	285	207
180M	554	260	739	260	323	207
180L	592	260	777	260	323	207
200L						
225S						
225M						
250M						

FG42V...

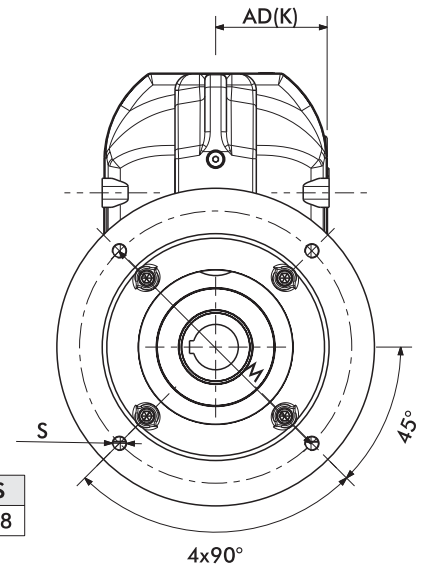
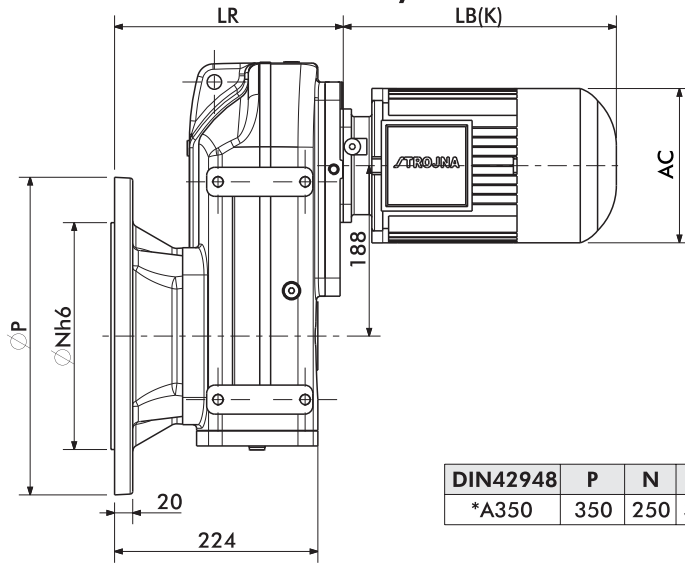


FG42Z...

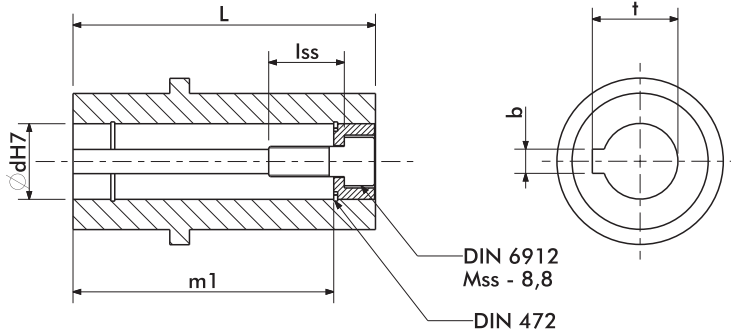


* Standard
** C Flange DIN42948

FG42P...SMB/SMR



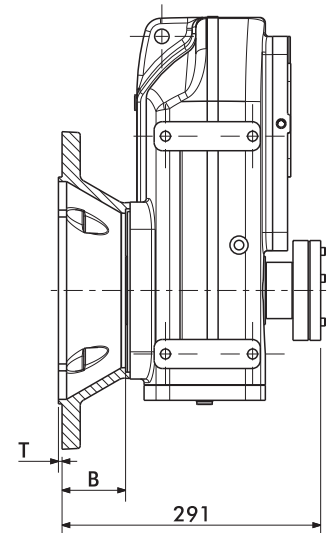
DIN42948	P	N	M	T	B	S
*A350	350	250	300	4	70	18



d	L	m1	lss	Mss	t	b
*50	160	143	40	M16	53,8	14

dv	tv	bv	lv	lk	tk	xv	g	lz
*50	53,5	14	100	80	10	30	M16	360

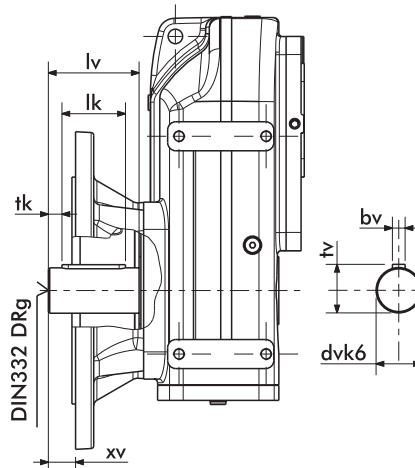
FG42PD...



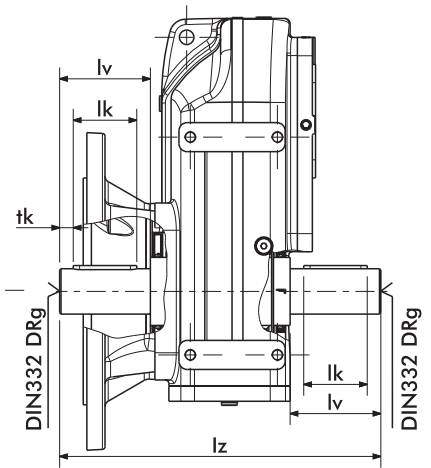
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	251
71	223	105	280	137	140	251
80	251	110	311	147	154	251
90S	276	121	360	164	170	251
90L	301	121	385	164	170	251
100	329	157	418	174	193	255
112M	334	169	434	199	216	255
132S	377	190	492	183	247	268
132M	415	190	532	183	247	268
132Ma	415	190	532	183	247	268
160M	489	246	613	246	285	278
160L	533	246	657	246	285	278
180M	554	260	739	260	323	278
180L	592	260	777	260	323	278
200L						
225S						
225M						
250M						

* Standard

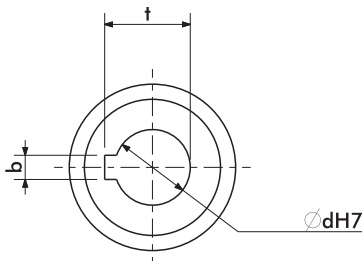
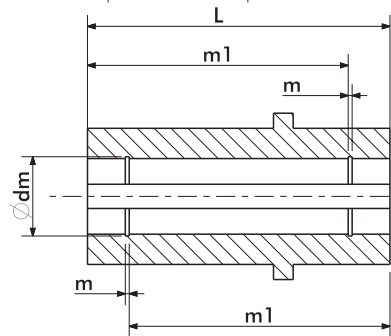
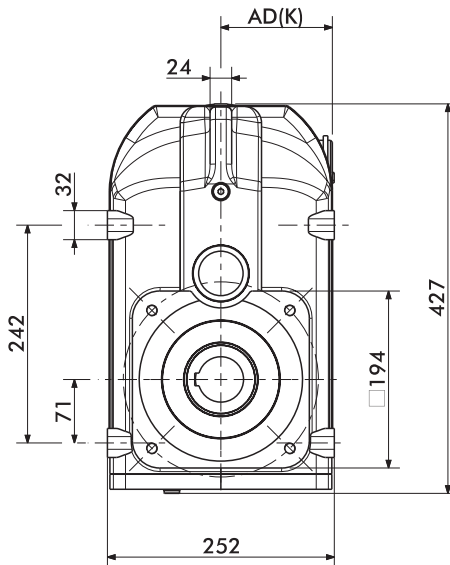
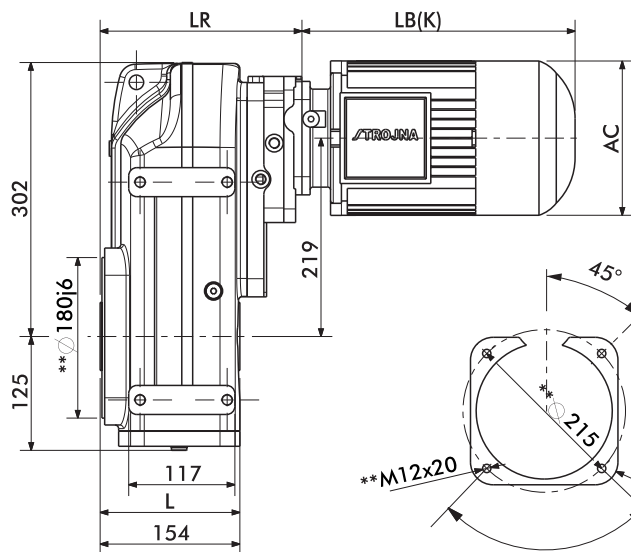
FG42PV...



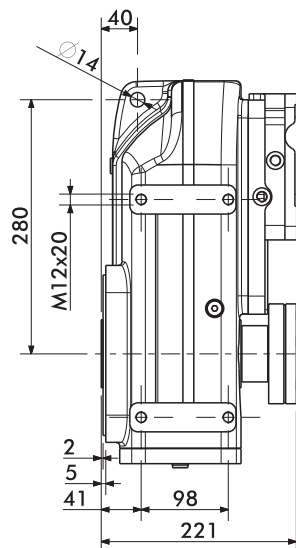
FG42PZ...



FG43...SMB/SMR



FG43D...

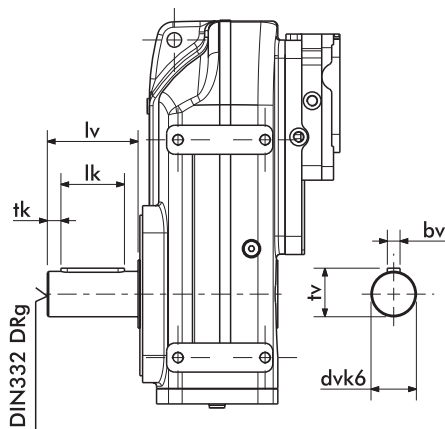


d	L	m1	dm	m	t	b
*50	160	143	53	2,15	53,8	14

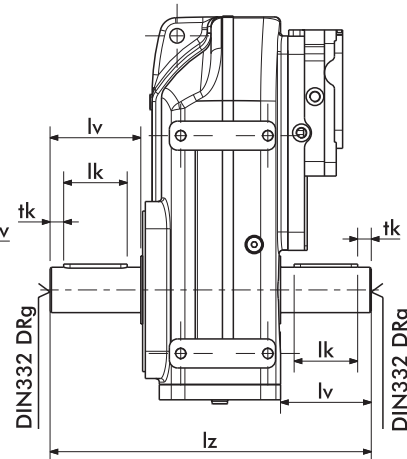
dv	tv	bv	lv	lk	tk	g	lz
*50	53,5	14	100	80	10	M16	360

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	221
71	223	105	280	137	140	221
80	251	110	311	147	154	221
90S	276	121	360	164	170	221
90L	301	121	385	164	170	221
100	329	157	418	174	193	225
112M	334	169	434	199	216	225
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

FG43V...

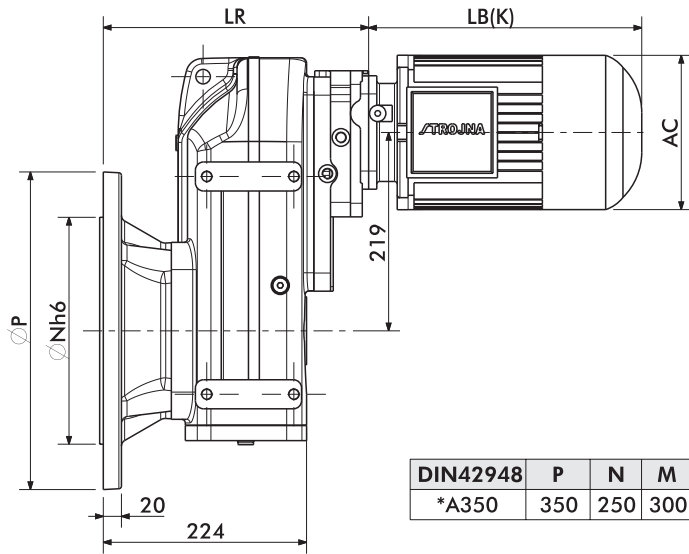


FG43Z...

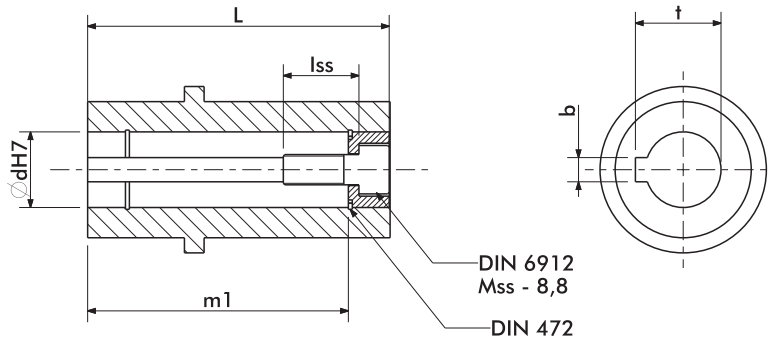
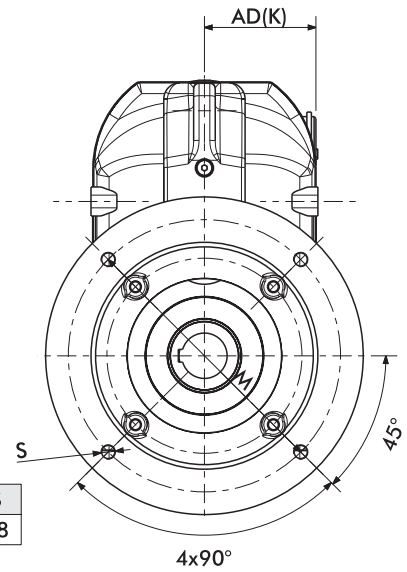


* Standard
** C Flange DIN42948

FG43P...SMB/SMR



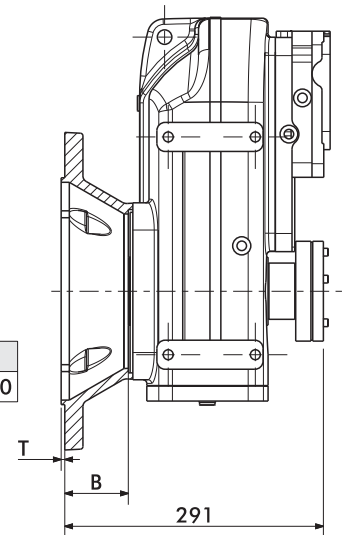
DIN42948	P	N	M	T	B	S
*A350	350	250	300	4	70	18



d	L	m1	lss	Mss	t	b
*50	160	143	40	M16	53,8	14

dv	tv	bv	lv	lk	tk	xv	g	lz
*50	53,5	14	100	80	10	30	M16	360

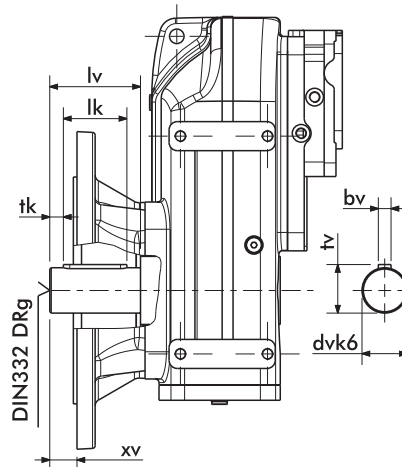
FG43PD...



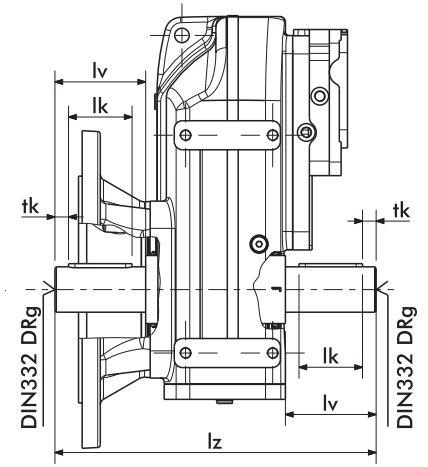
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	291
71	223	105	280	137	140	291
80	251	110	311	147	154	291
90S	276	121	360	164	170	291
90L	301	121	385	164	170	291
100	329	157	418	174	193	295
112M	334	169	434	199	216	295
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

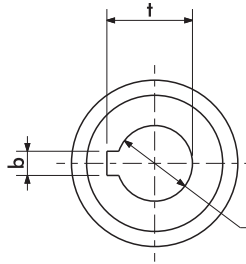
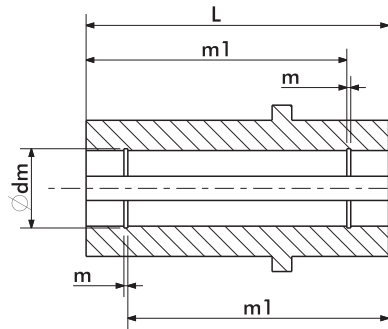
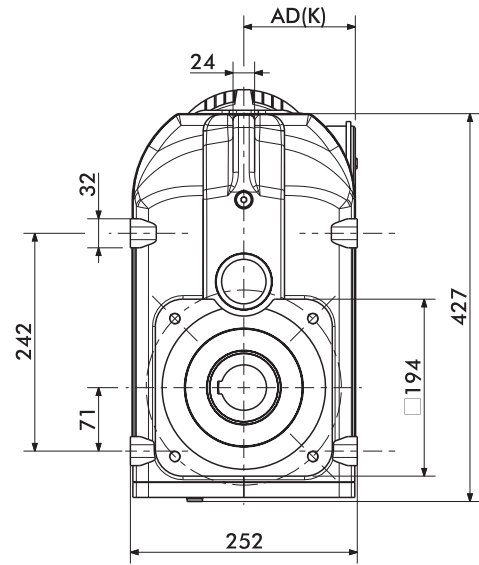
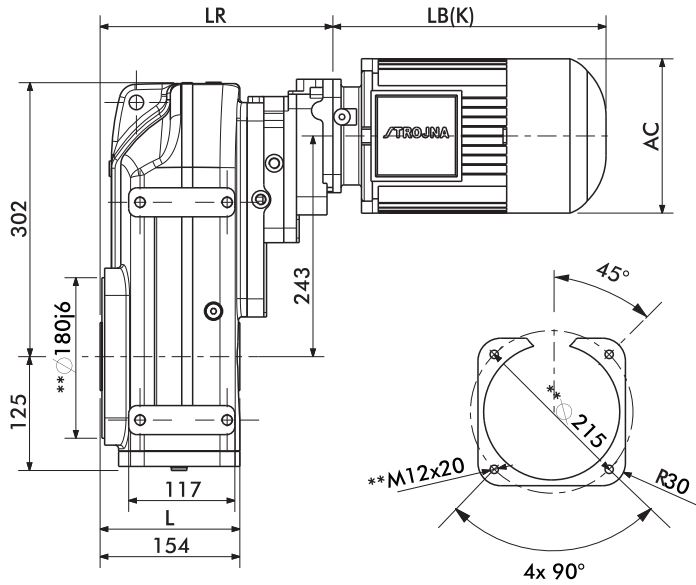
FG43PV...



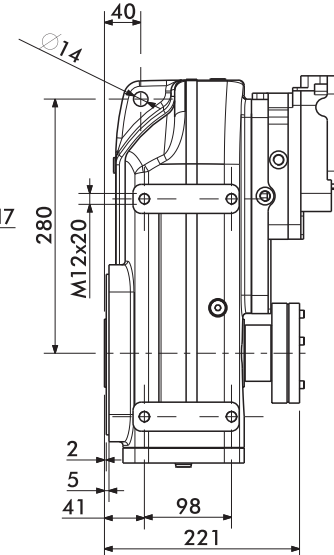
FG43PZ...



FG44...SMB/SMR



FG44D...

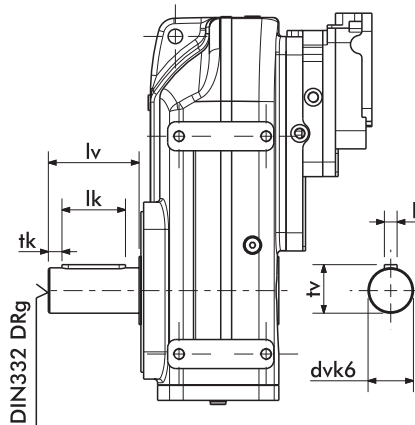


d	L	m1	dm	m	t	b
*50	160	143	53	2,15	53,8	14

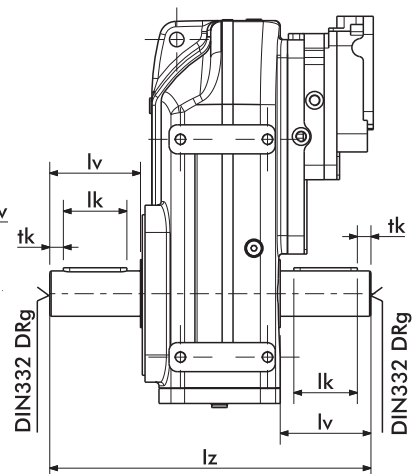
dv	tv	bv	lv	lk	tk	g	lz
*50	53,5	14	100	80	10	M16	360

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	257
71	223	105	280	137	140	257
80	251	110	311	147	154	257
90S	276	121	360	164	170	257
90L	301	121	385	164	170	257
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

FG44V...

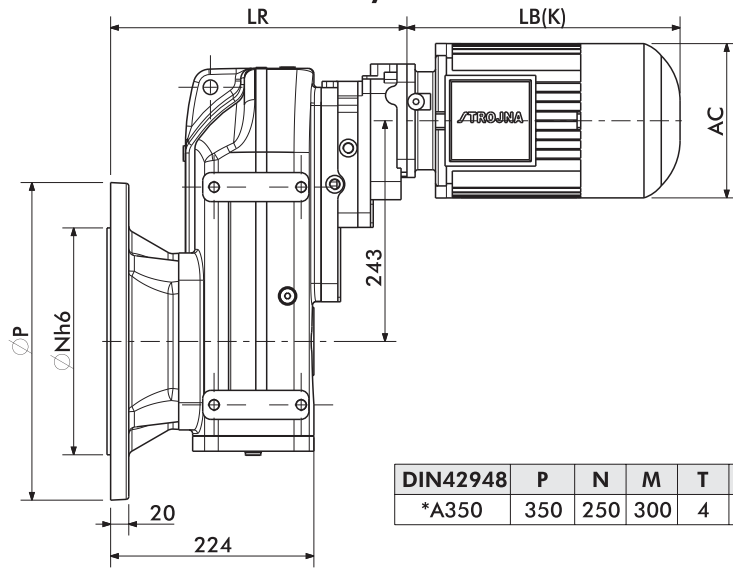


FG44Z...

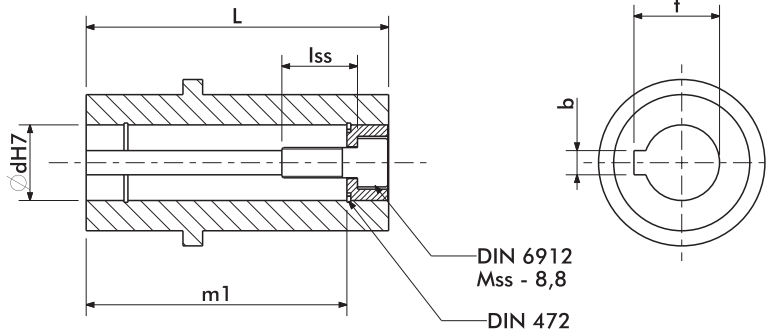
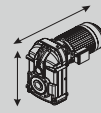
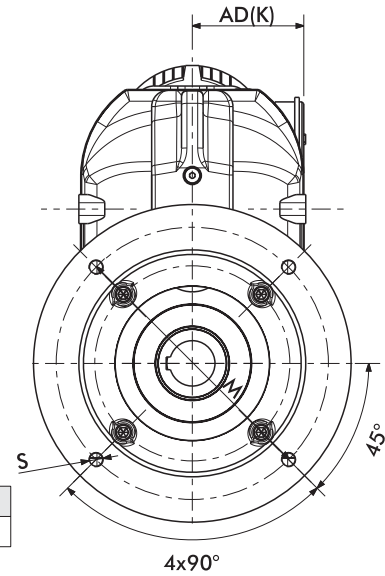


* Standard
** C Flange DIN42948

FG44P...SMB/SMR



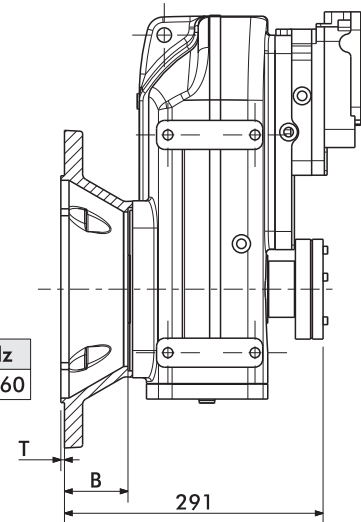
DIN42948	P	N	M	T	B	S
*A350	350	250	300	4	70	18



d	L	m1	lss	Mss	t	b
*50	160	143	40	M16	53,8	14

dv	tv	bv	lv	lk	tk	xv	g	lz
*50	53,5	14	100	80	10	30	M16	360

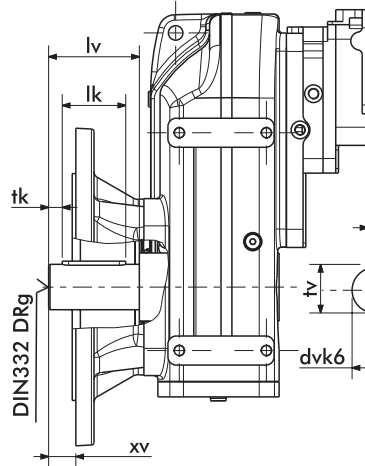
FG44PD...



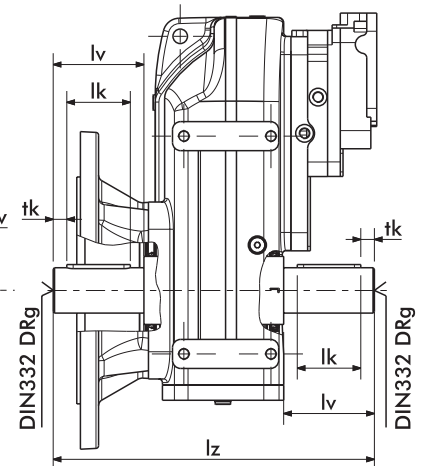
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	327
71	223	105	280	137	140	327
80	251	110	311	147	154	327
90S	276	121	360	164	170	327
90L	301	121	385	164	170	327
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

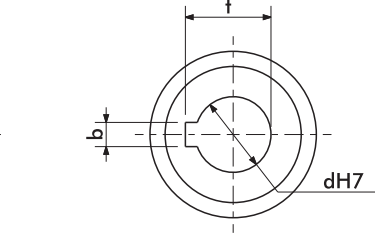
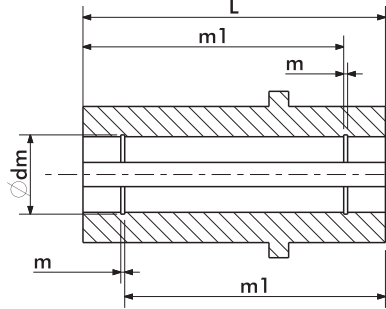
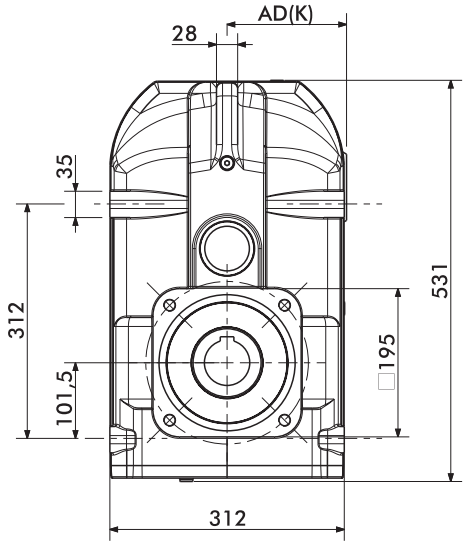
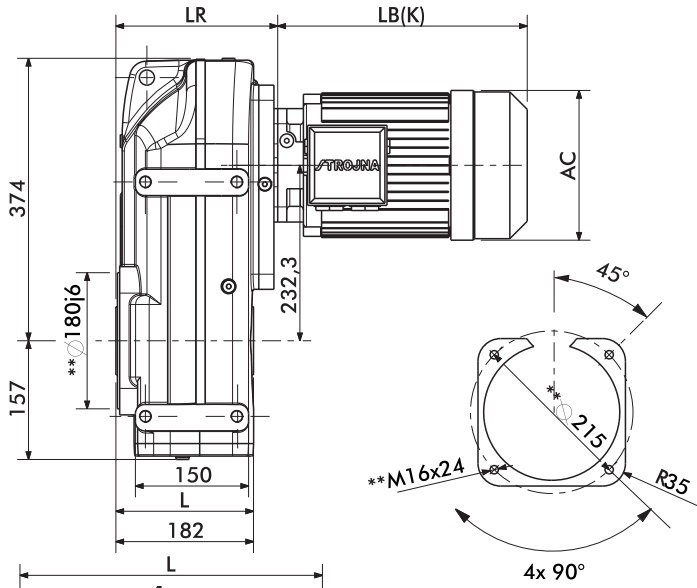
FG44PV...



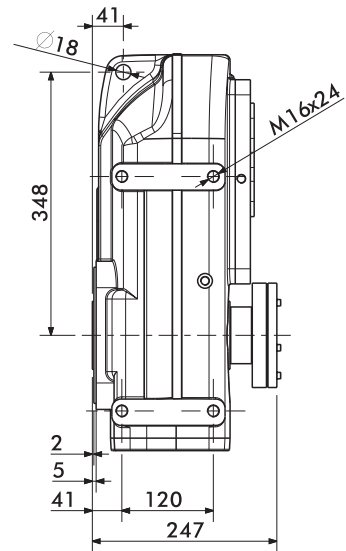
FG44PZ...



FG52...SMB/SMR



FG52D...

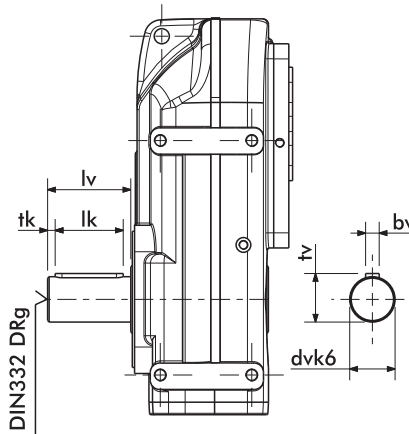


d	L	m1	dm	m	t	b
*60	185	164	63	2,15	64,4	18

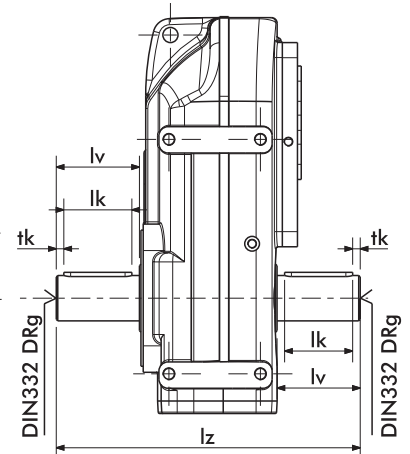
dv	tv	bv	lv	lk	tk	g	lz
*60	64	18	110	100	5	M20	405

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63						
71						
80						
90S						
90L						
100	329	157	418	174	193	209
112M	334	169	434	199	216	209
132S	377	190	492	183	247	223
132M	415	190	532	183	247	223
132Ma	415	190	532	183	247	223
160M	489	246	611	246	285	231
160L	533	246	655	246	285	231
180M	554	260	739	260	323	231
180L	592	260	777	260	323	231
200L						
225S						
225M						
250M						

FG52V...

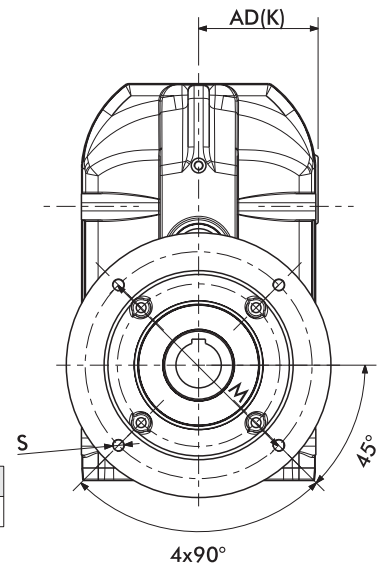
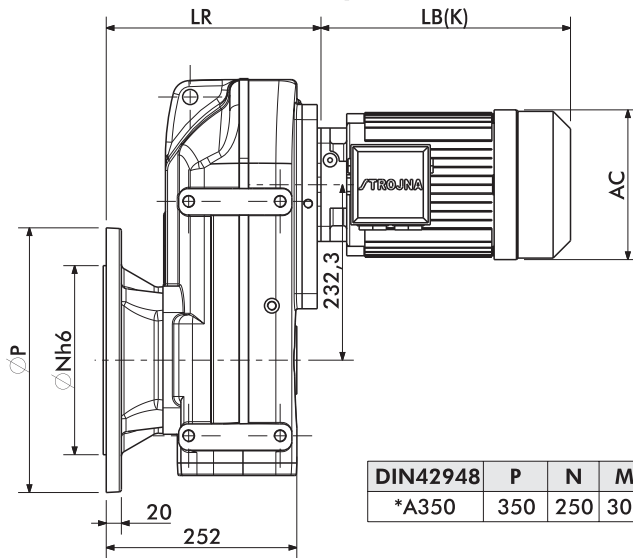


FG52Z...

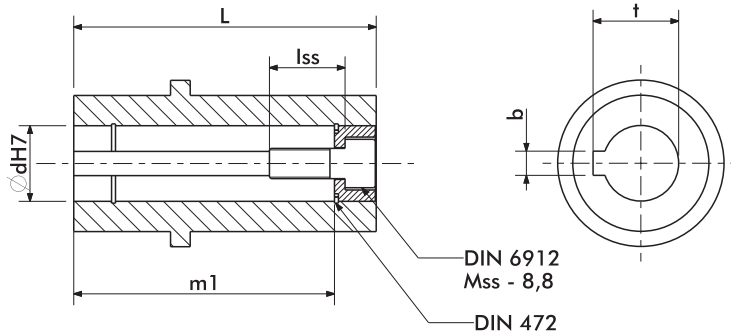


* Standard
** C Flange DIN42948

FG52P...SMB/SMR



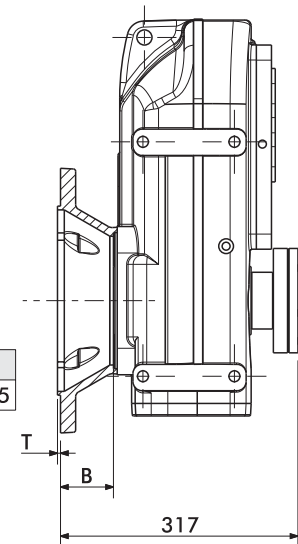
DIN42948	P	N	M	T	B	S
*A350	350	250	300	4	70	18



d	L	m1	lss	Mss	t	b
*60	185	164	50	M20	64,4	18

dv	tv	bv	lv	lk	tk	xv	g	lz
*60	64	18	110	100	5	40	M20	405

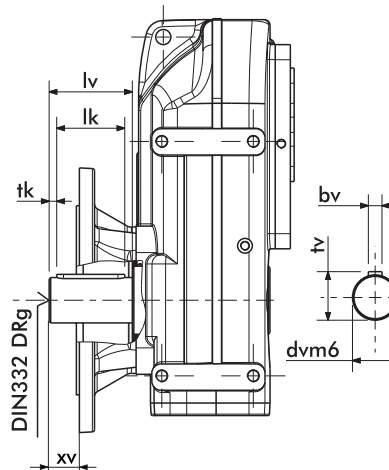
FG52PD...



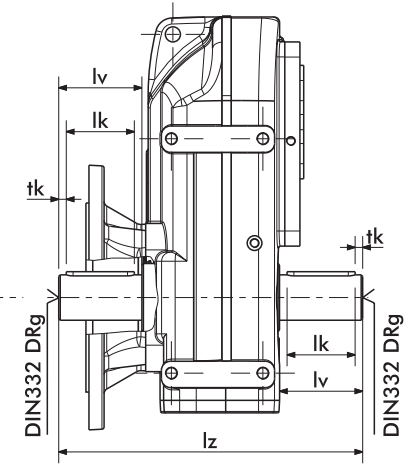
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63						
71						
80						
90S						
90L						
100	329	157	418	174	193	279
112M	334	169	434	199	216	279
132S	377	190	492	183	247	293
132M	415	190	532	183	247	293
132Ma	415	190	532	183	247	293
160M	489	246	611	246	285	301
160L	533	246	655	246	285	301
180M	554	260	739	260	323	301
180L	592	260	777	260	323	301
200L						
225S						
225M						
250M						

* Standard

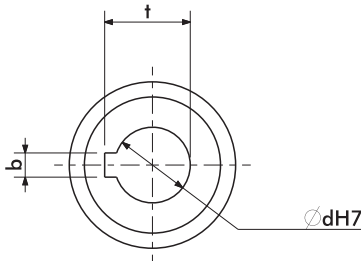
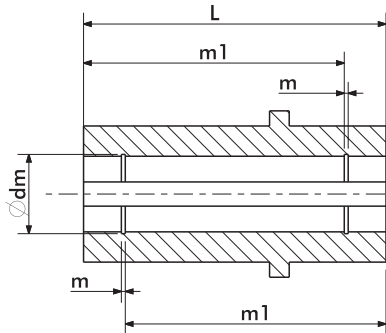
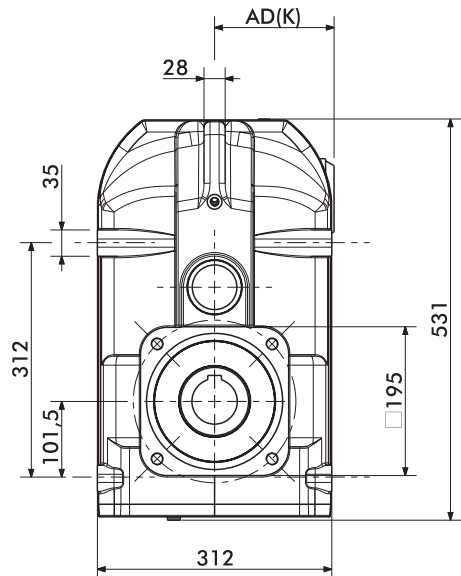
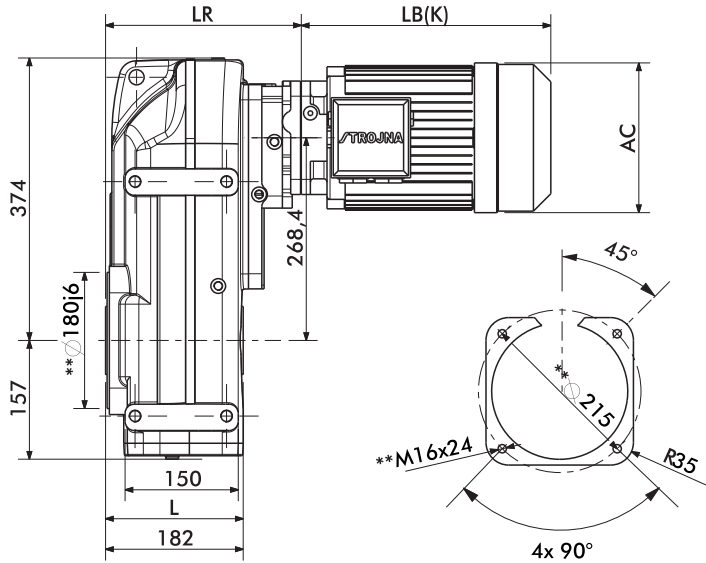
FG52PV...



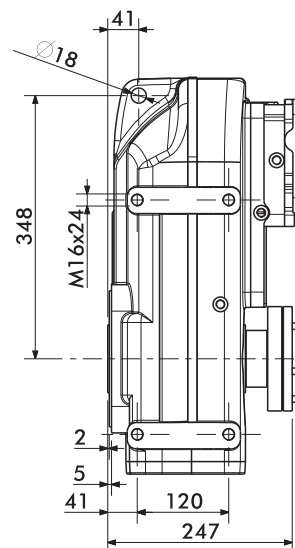
FG52PZ...



FG53...SMB/SMR



FG53D...

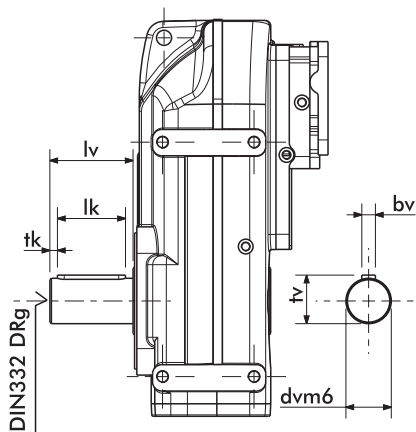


d	L	m1	dm	m	t	b
*60	185	164	63	2,15	64,4	18

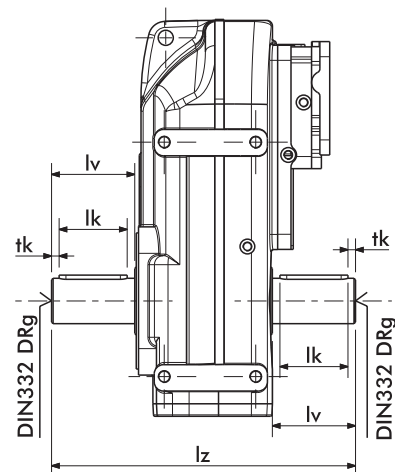
dv	tv	bv	lv	lk	tk	g	lz
*60	64	18	110	100	5	M20	405

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	241
71	223	105	280	137	140	241
80	251	110	311	147	154	241
90S	276	121	360	164	170	241
90L	301	121	385	164	170	241
100	329	157	418	174	193	257
112M	334	169	434	199	216	257
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

FG53V...

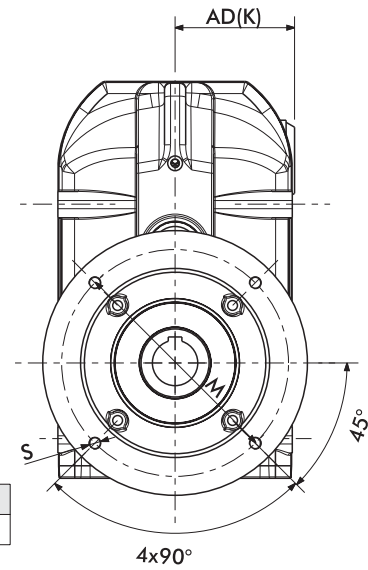
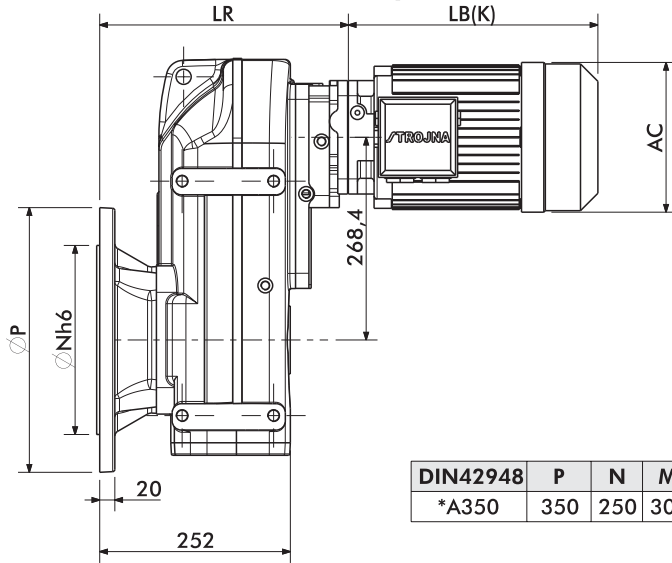


FG53Z...

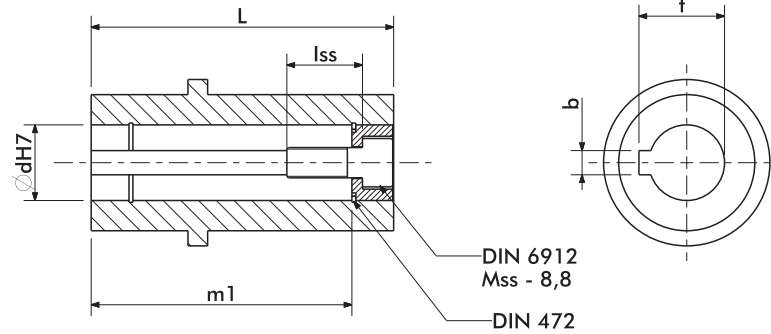


* Standard
** C Flange DIN42948

FG53P...SMB/SMR



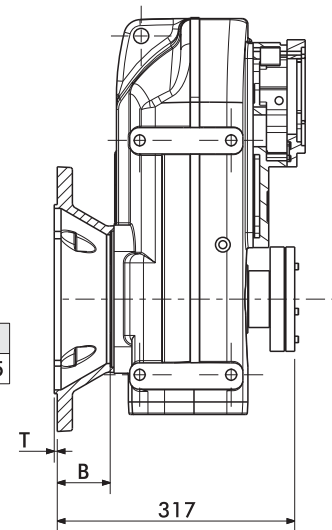
DIN42948	P	N	M	T	B	S
*A350	350	250	300	4	70	18



d	L	m1	lss	Mss	t	b
*60	185	164	50	M20	64,4	18

dv	tv	bv	lv	lk	tk	xv	g	lz
*60	64	18	110	100	5	40	M20	405

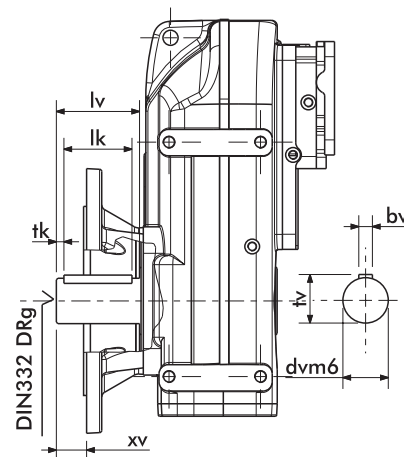
FG53PD...



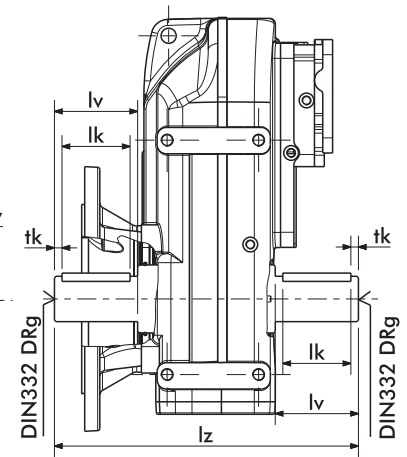
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	311
71	223	105	280	137	140	311
80	251	110	311	147	154	311
90S	276	121	360	164	170	311
90L	301	121	385	164	170	311
100	329	157	418	174	193	327
112M	334	169	434	199	216	327
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

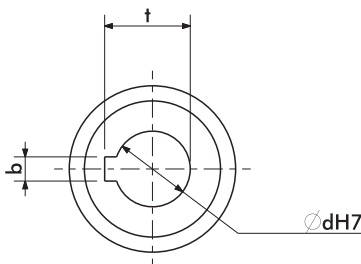
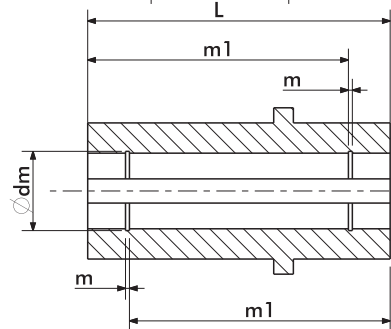
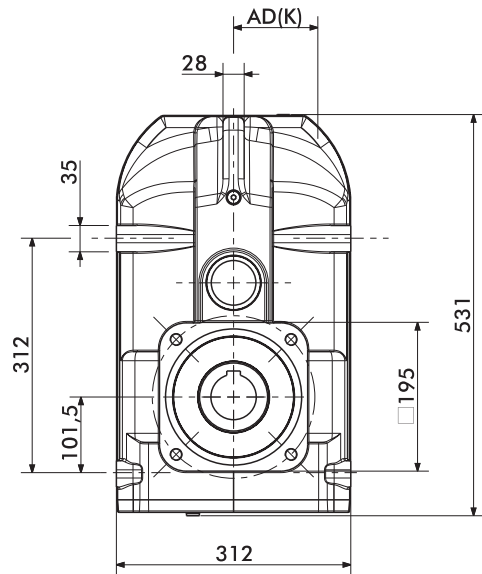
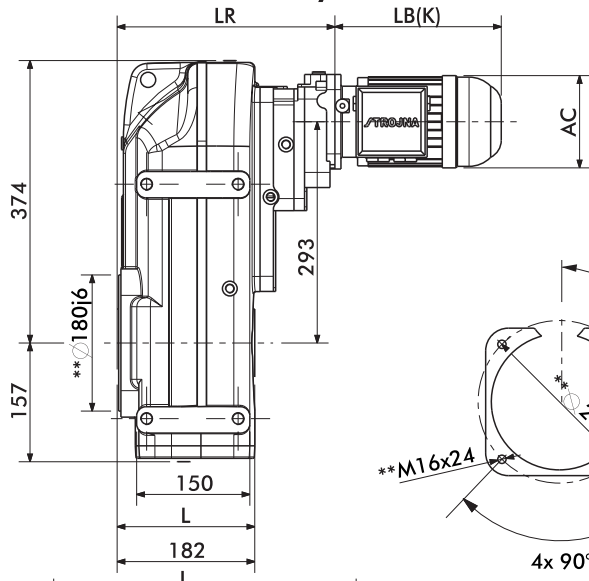
FG53PV...



FG53PZ...



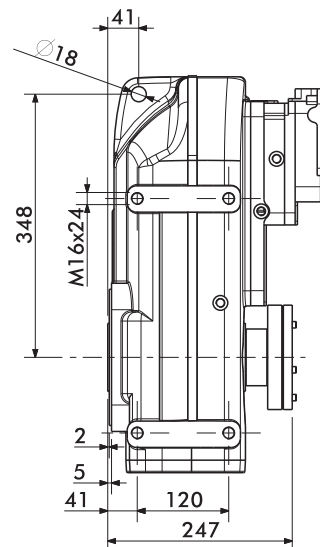
FG54...SMB/SMR



d	L	m1	dm	m	t	b
*60	185	164	63	2,15	64,4	18

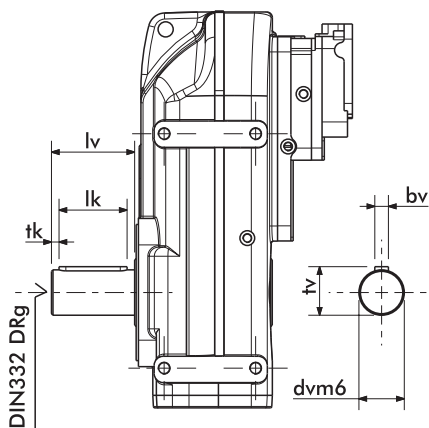
dv	tv	bv	lv	lk	tk	g	lz
*60	64	18	110	100	5	M20	405

FG54D...

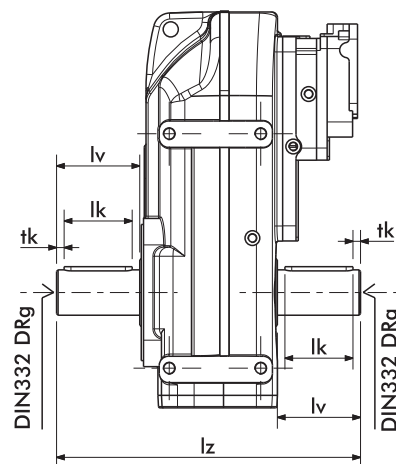


SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	288
71	223	105	280	137	140	288
80	251	110	311	147	154	288
90S	276	121	360	164	170	288
90L	301	121	385	164	170	288
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

FG54V...

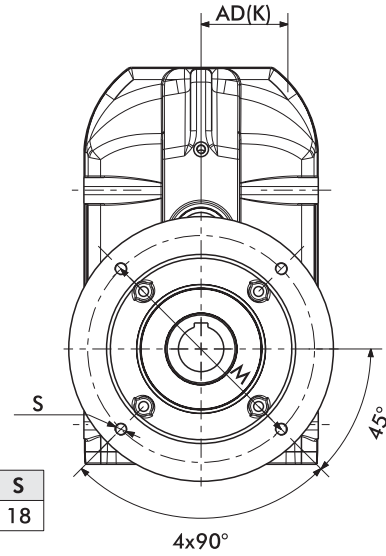
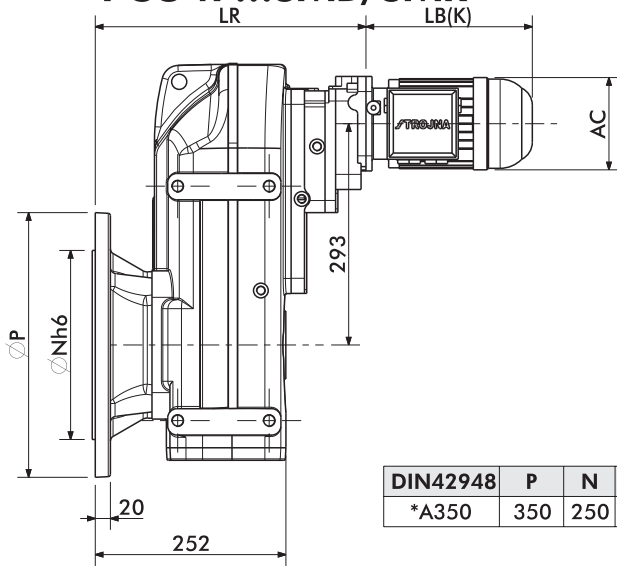


FG54Z...

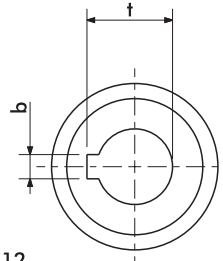
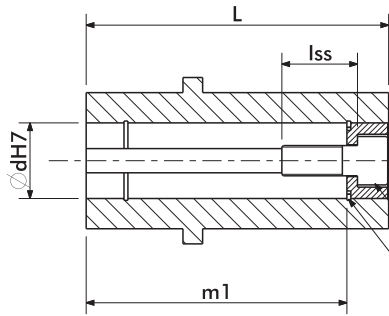


* Standard
** C Flange DIN42948

FG54P...SMB/SMR



DIN42948	P	N	M	T	B	S
*A350	350	250	300	4	70	18

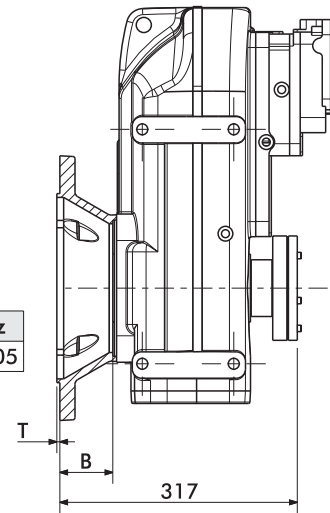


DIN 6912
Mss - 8,8
DIN 472

d	L	m1	lss	Mss	t	b
*60	185	164	50	M20	64,4	18

dv	tv	bv	lv	lk	tk	xv	g	lz
*60	64	18	110	100	5	40	M20	405

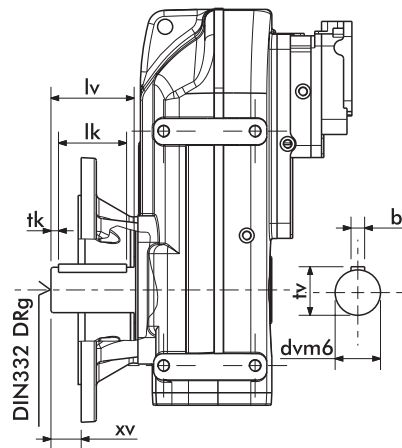
FG54PD...



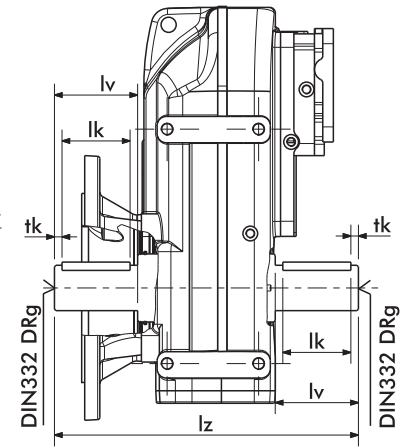
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	358
71	223	105	280	137	140	358
80	251	110	311	147	154	358
90S	276	121	360	164	170	358
90L	301	121	385	164	170	358
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

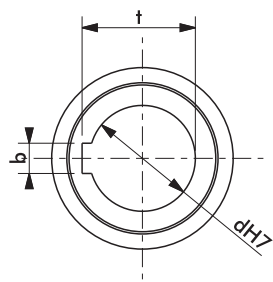
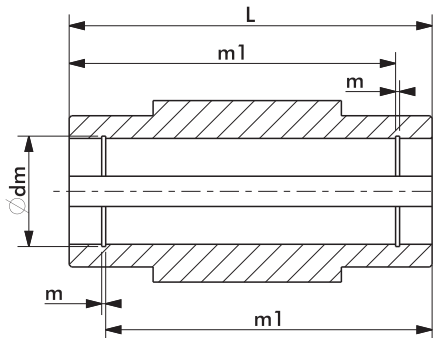
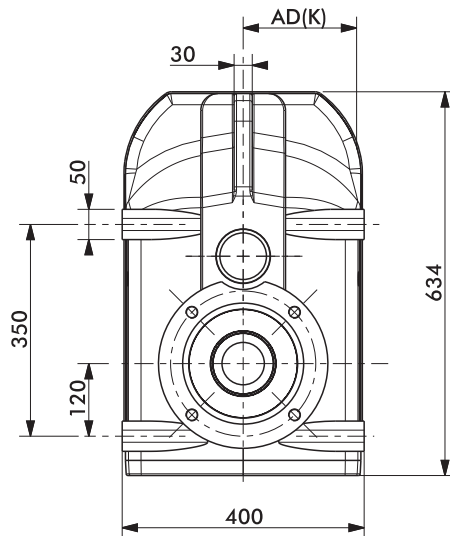
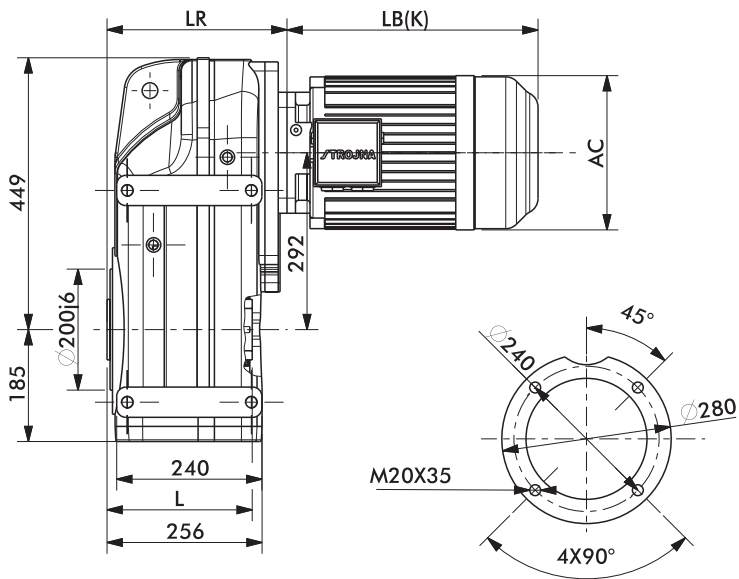
FG54PV...



FG54PZ...



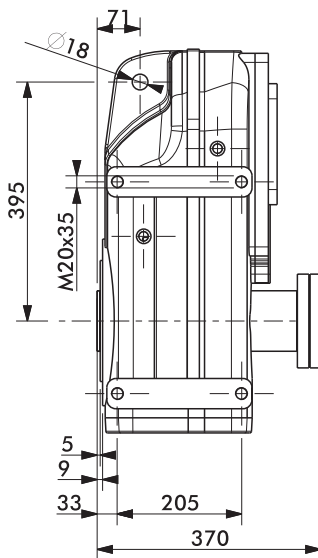
FG62...SMB/SMR



d	L	m1	dm	m	t	b
*70	240	218,5	73	2,65	74,9	20

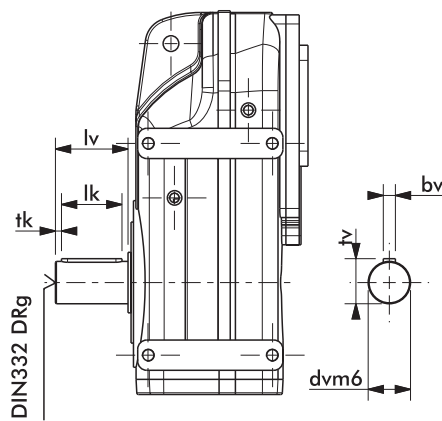
dv	tv	bv	lv	lk	tk	g	lz
*70	74,5	20	120	100	10	M20	480

FG62D...

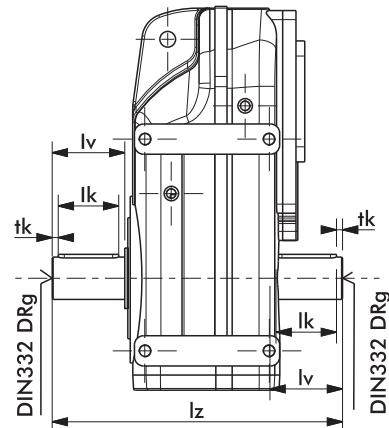


SMB/SMR	LB	AD	LBK	ADK	AC	LR
63						
71						
80						
90S						
90L						
100						
112M						
132S	377	190	492	183	247	292
132M	415	190	532	183	247	292
132Ma	415	190	532	183	247	292
160M	489	246	611	246	285	301
160L	533	246	655	246	285	301
180M	554	260	739	260	323	301
180L	592	260	777	260	323	301
200L	658	299	828	299	369	316
225S	677	337	848	337	418	316
225M	702	337	873	337	418	316
250M	778	360	968	400	471	318

FG62V...

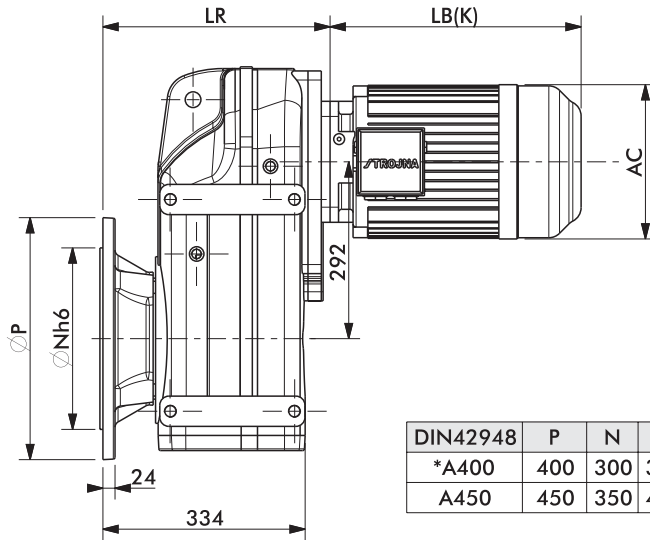


FG62Z...

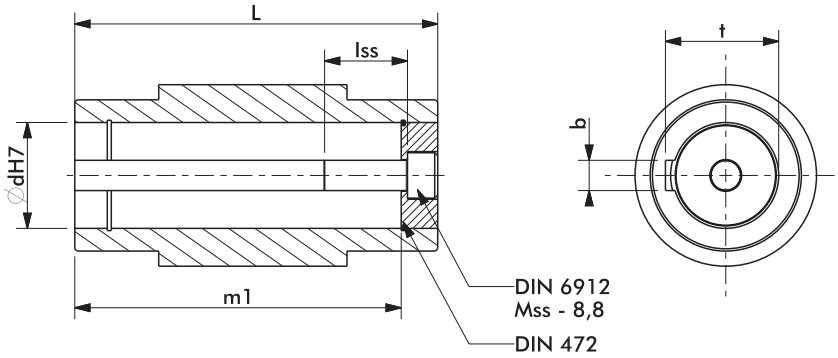
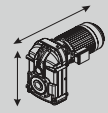
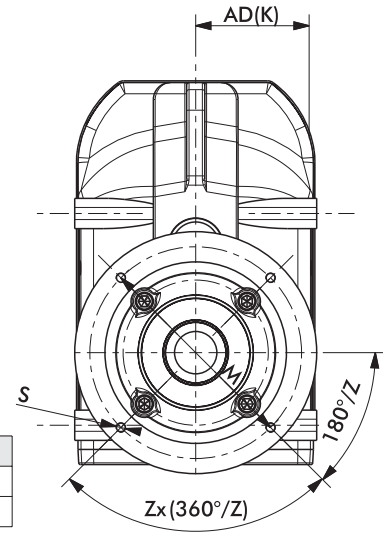


* Standard

FG62P...SMB/SMR



DIN42948	P	N	M	T	B	Z	S
*A400	400	300	350	5	74	4	18
A450	450	350	400	5	74	8	18

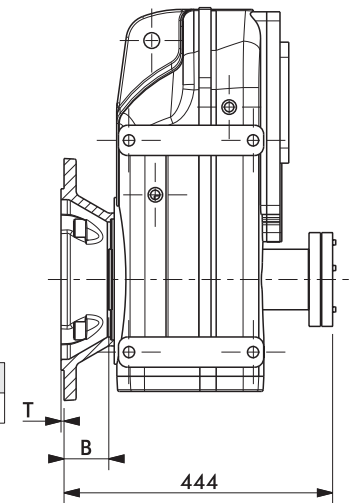


DIN 6912
Mss - 8,8
DIN 472

d	L	m1	lss	Mss	t	b
*70	240	218,5	55	M20	74,6	20

dv	tv	bv	lv	lk	tk	xv	g	lz
*70	74,5	20	120	100	10	46	M20	480

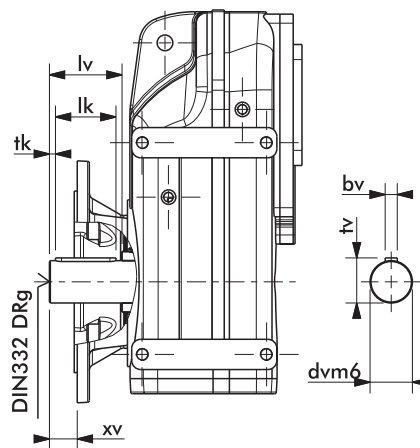
FG62PD...



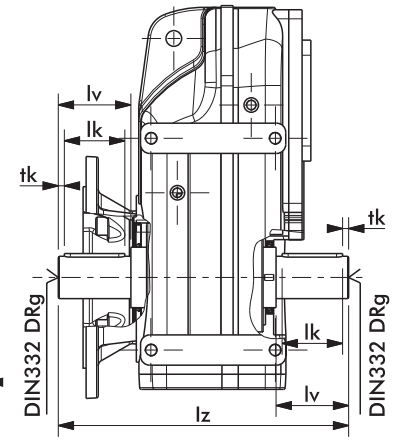
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63						
71						
80						
90S						
90L						
100						
112M						
132S	377	190	492	183	247	366
132M	415	190	532	183	247	366
132Ma	415	190	532	183	247	366
160M	489	246	611	246	285	375
160L	533	246	655	246	285	375
180M	554	260	739	260	323	375
180L	592	260	777	260	323	375
200L	658	299	828	299	369	390
225S	677	337	848	337	418	390
225M	702	337	873	337	418	390
250M	778	360	968	400	471	392

* Standard

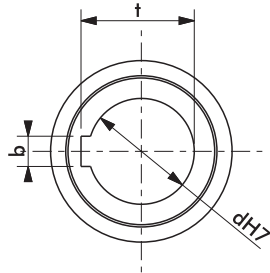
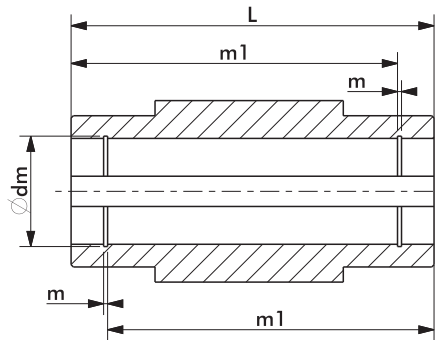
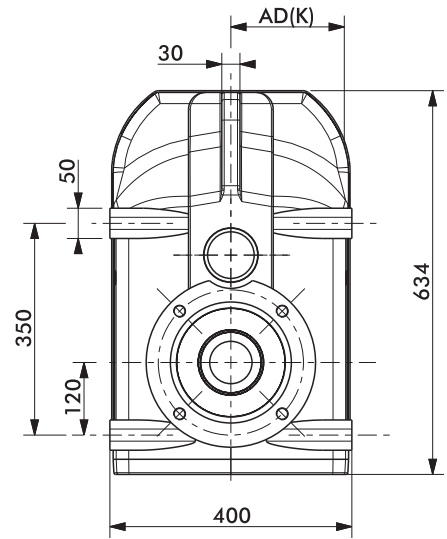
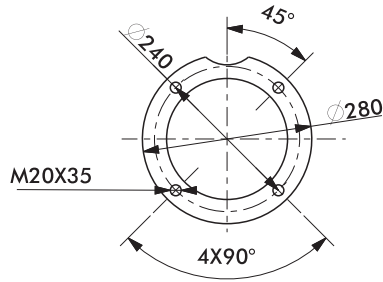
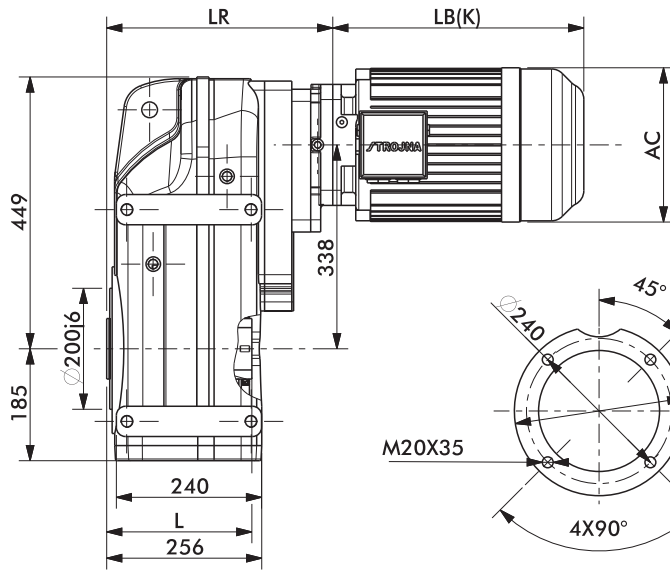
FG62PV...



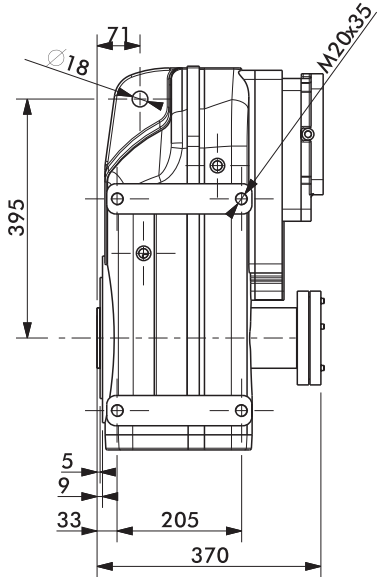
FG62PZ...



FG63...SMB/SMR



FG63D...



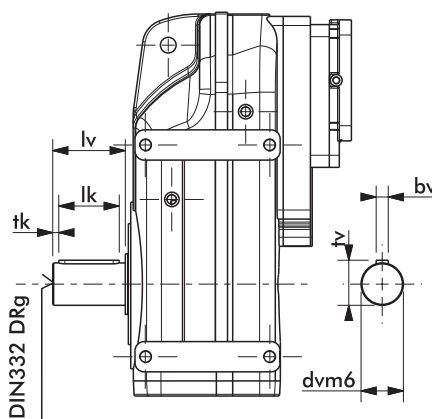
d	L	m1	dm	m	t	b
*70	240	218,5	73	2,65	74,9	20

dv	tv	bv	lv	lk	tk	g	lz
*70	74,5	20	120	100	10	M20	480

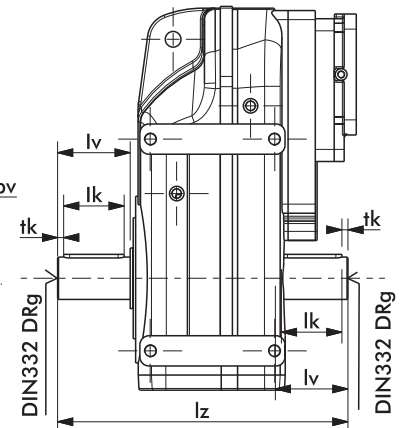
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	358
71	223	105	280	137	140	358
80	251	110	311	147	154	358
90S	276	121	360	164	170	358
90L	301	121	358	164	170	358
100	329	157	418	174	193	362
112M	334	169	434	199	216	362
132S	377	190	492	183	247	374
132M	415	190	532	183	247	374
132Ma	415	190	532	183	247	374
160M	489	246	611	246	285	383
160L	533	246	655	246	285	383
180M	554	260	739	260	323	383
180L	592	260	777	260	323	383
200L						
225S						
225M						
250M						

* Standard

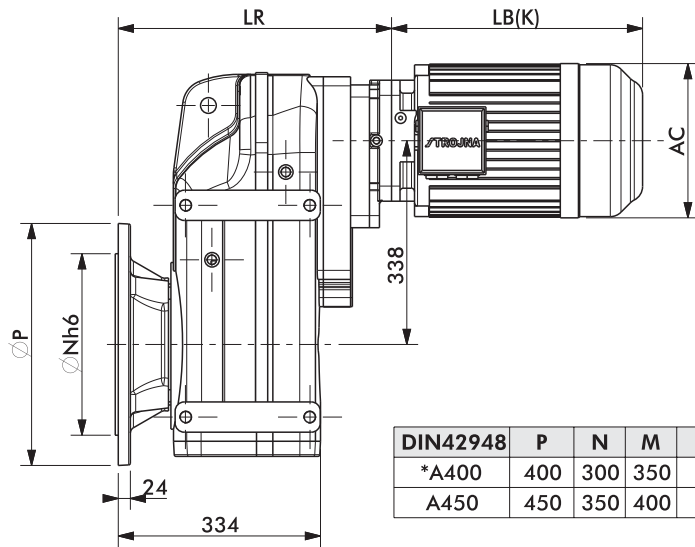
FG63V...



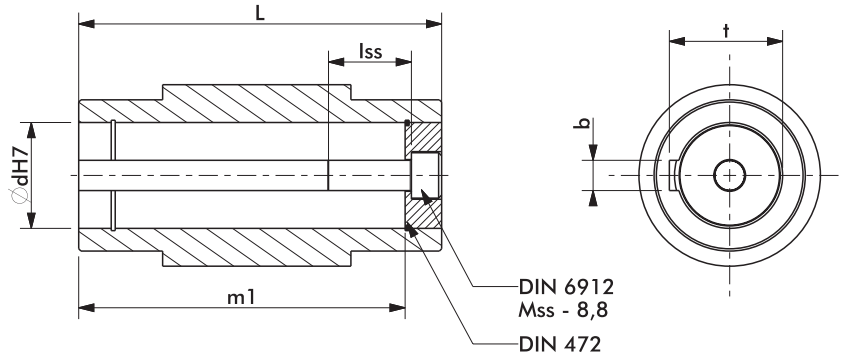
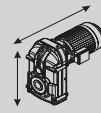
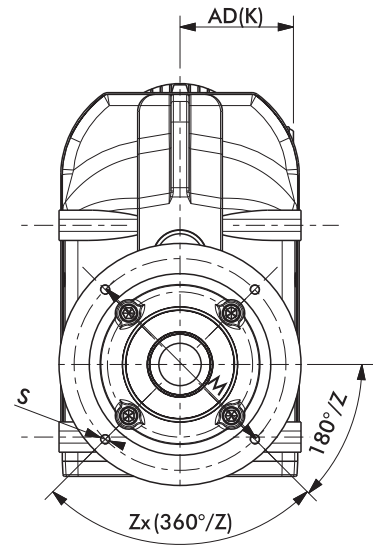
FG63Z...



FG63P...SMB/SMR



DIN42948	P	N	M	T	B	T	S
*A400	400	300	350	5	74	4	18
A450	450	350	400	5	74	8	18

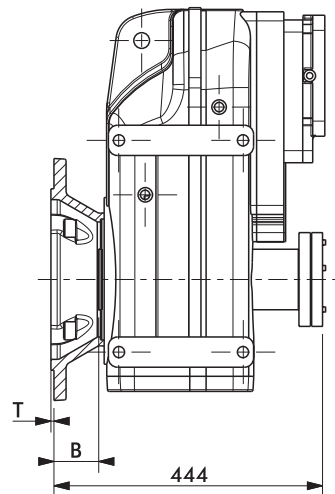


DIN 6912
Mss - 8,8
DIN 472

d	L	m1	lss	Mss	t	b
*70	240	218,5	55	M20	74,6	20

dv	tv	bv	lv	lk	tk	xv	g	lz
*70	74,5	20	120	100	10	46	M20	480

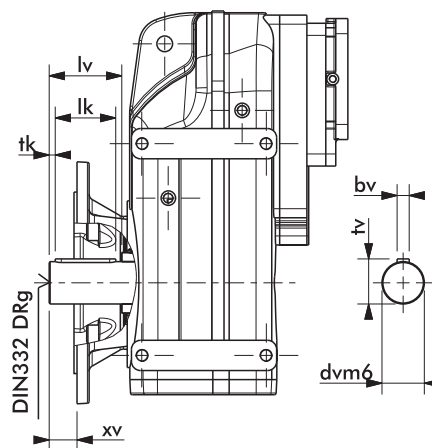
FG63PD...



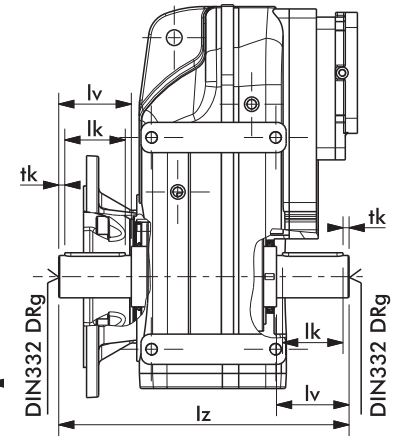
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	432
71	223	105	280	137	140	432
80	251	110	311	147	154	432
90S	276	121	360	164	170	432
90L	301	121	358	164	170	432
100	329	157	418	174	193	436
112M	334	169	434	199	216	436
132S	377	190	492	183	247	448
132M	415	190	532	183	247	448
132Ma	415	190	532	183	247	448
160M	489	246	611	246	285	457
160L	533	246	655	246	285	457
180M	554	260	739	260	323	457
180L	592	260	777	260	323	457
200L						
225S						
225M						
250M						

* Standard

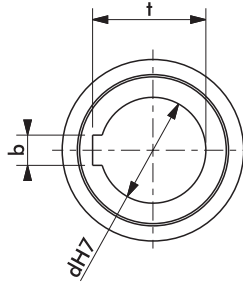
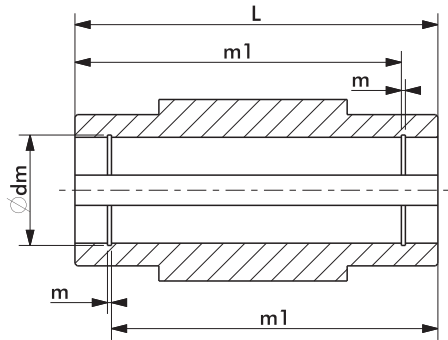
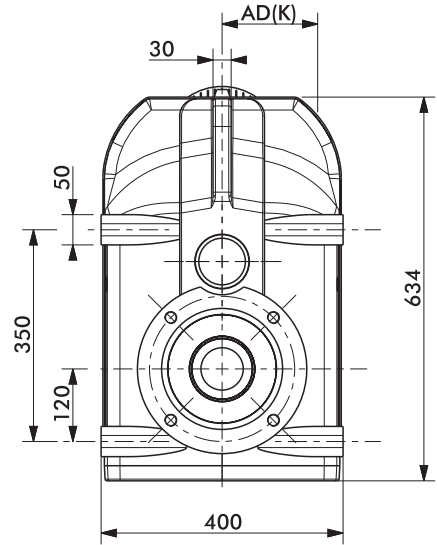
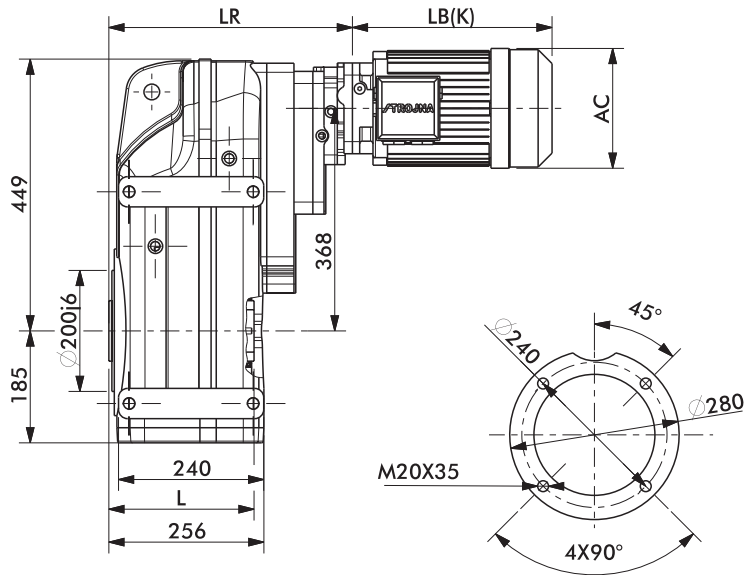
FG63PV...



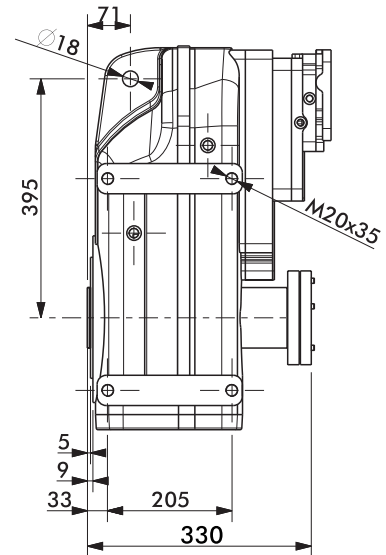
FG63PZ...



FG64...SMB/SMR



FG64D...



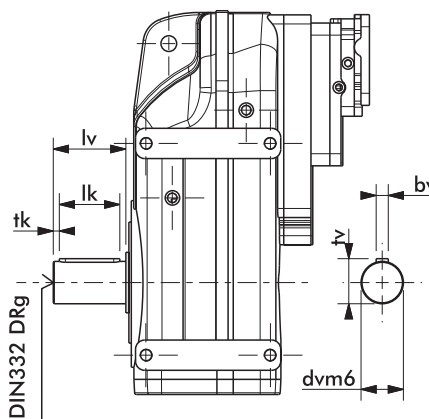
d	L	m1	dm	m	t	b
*70	240	218,5	73	2,65	74,9	20

dv	tv	bv	lv	lk	tk	g	lz
*70	74,5	20	120	100	10	M20	480

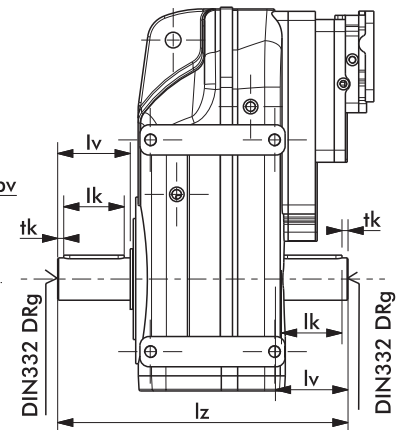
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	398
71	223	105	280	137	140	398
80	251	110	311	147	154	398
90S	276	121	360	164	170	398
90L	301	121	358	164	170	398
100	329	157	418	174	193	403
112M	334	169	434	199	216	403
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

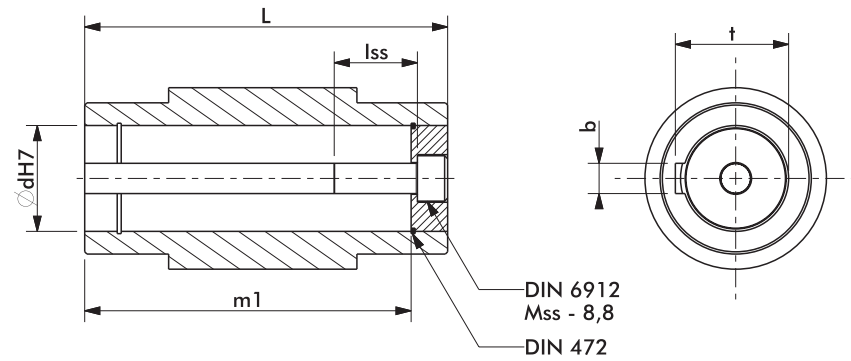
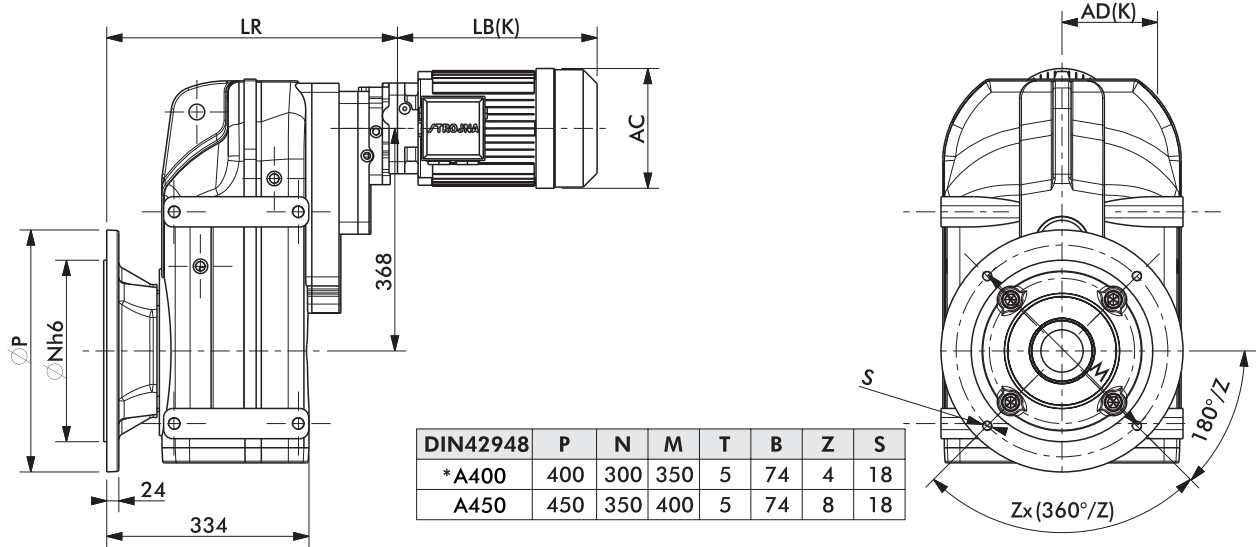
FG64V...



FG64Z...



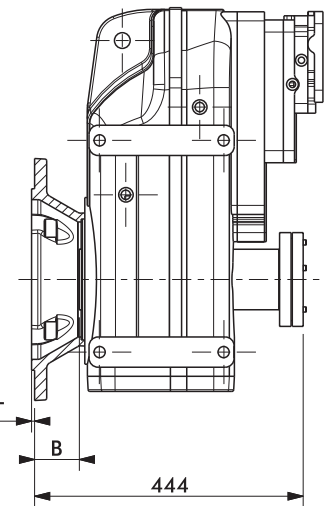
FG64P...SMB/SMR



d	L	m1	lss	Mss	t	b
*70	240	218,5	55	M20	74,6	20

dv	tv	bv	lv	lk	tk	xv	g	lz
*70	74,5	20	120	100	10	46	M20	480

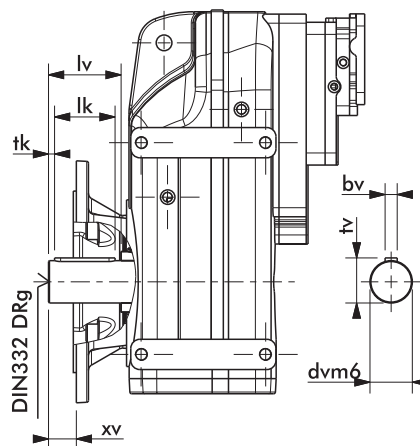
FG64PD...



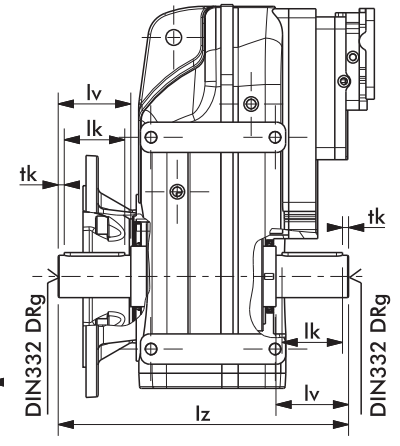
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	472
71	223	105	280	137	140	472
80	251	110	311	147	154	472
90S	276	121	360	164	170	472
90L	301	121	358	164	170	472
100	329	157	418	174	193	477
112M	334	169	434	199	216	477
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

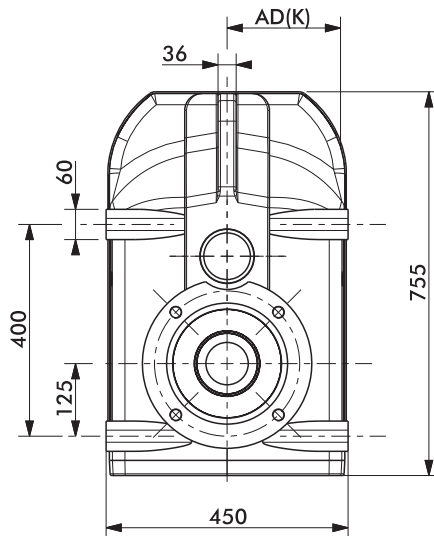
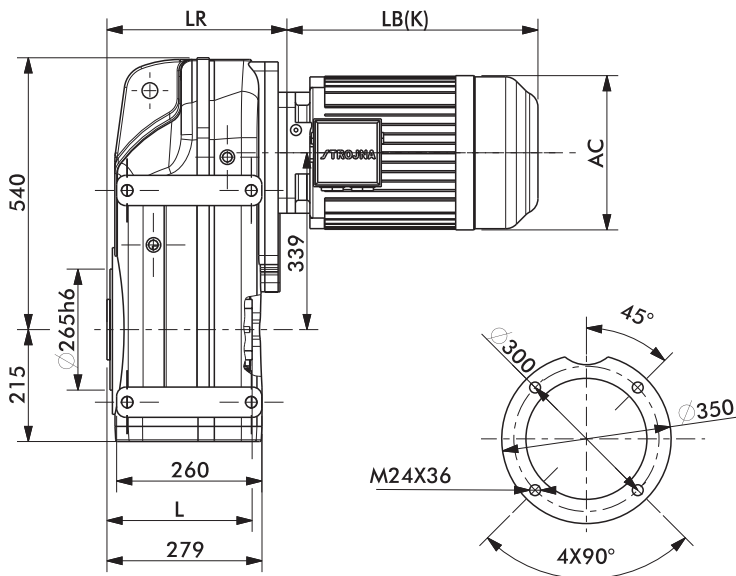
FG64PV...



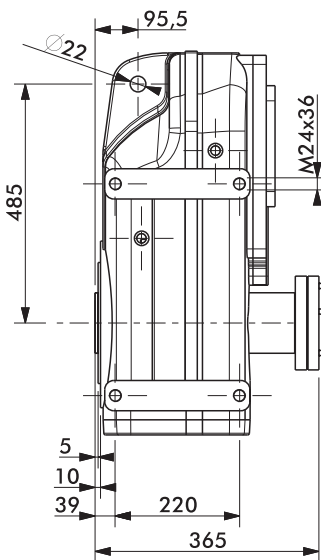
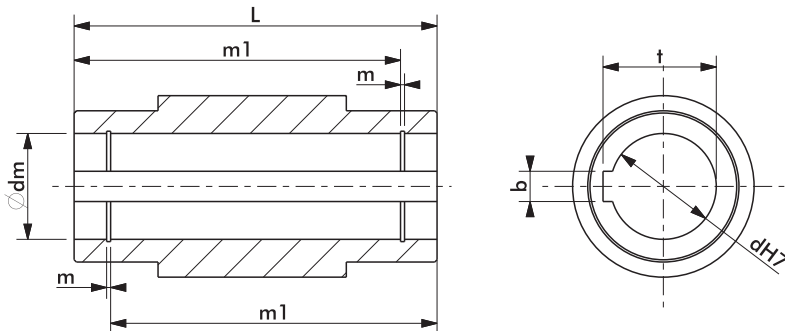
FG64PZ...



FG72...SMB/SMR



FG72D...



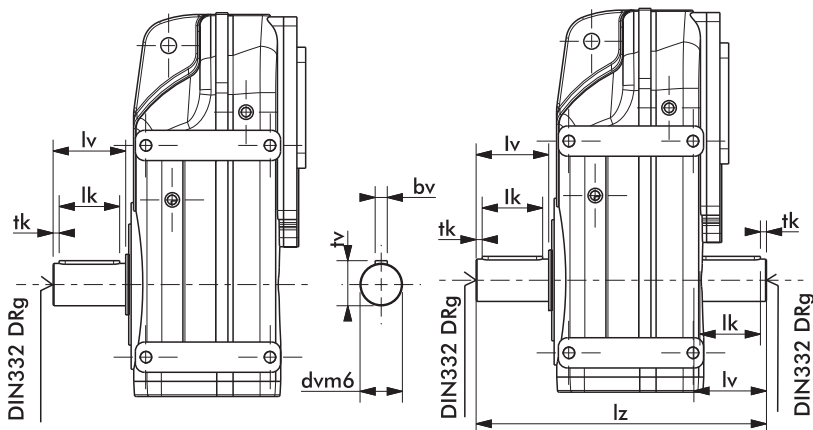
d	L	m1	dm	m	t	b
*90	280	256,5	93,5	3,15	95,4	25

dv	tv	bv	lv	lk	tk	g	lz
*90	95	25	170	160	5	M24	620

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63						
71						
80						
90S						
90L						
100						
112M						
132S	377	190	492	183	247	311
132M	415	190	532	183	247	311
132Ma	415	190	532	183	247	311
160M	489	246	611	246	285	320
160L	533	246	655	246	285	320
180M	554	260	739	260	323	320
180L	592	260	777	260	323	320
200L	658	299	828	299	369	335
225S	677	337	848	337	418	337
225M	702	337	873	337	481	337
250M	778	360	968	400	471	337

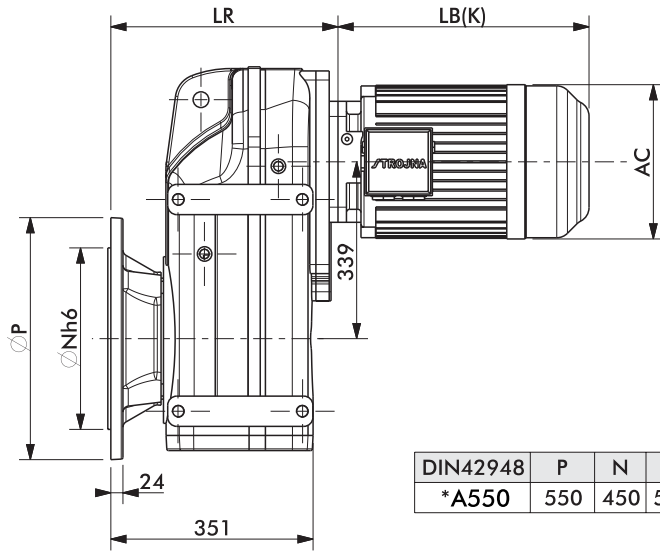
FG72V...

FG72Z...

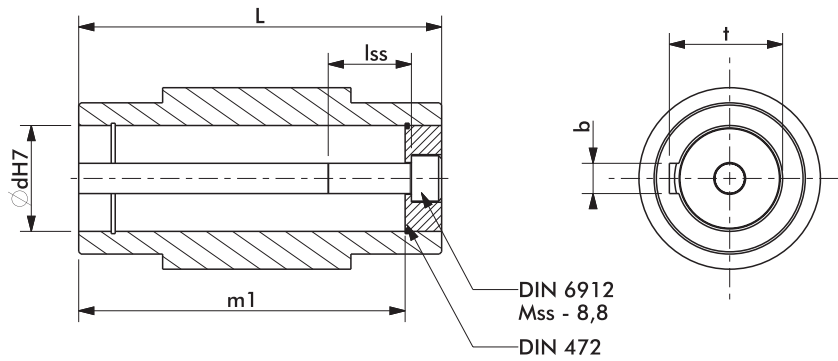
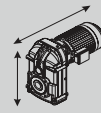
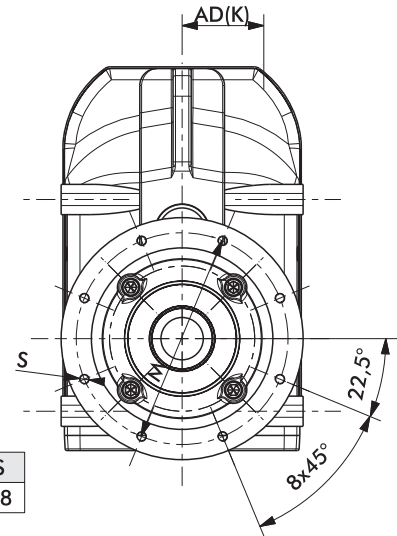


* Standard

FG72P...SMB/SMR



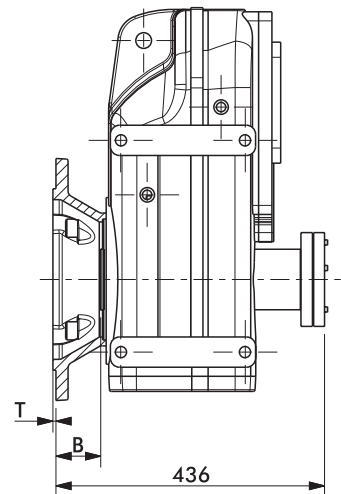
DIN42948	P	N	M	T	B	S
*A550	550	450	500	5	71	18



d	L	m1	lss	Mss	t	b
*90	280	256,5	50	M24	95,4	25

dv	tv	bv	lv	lk	tk	xv	g	lz
*90	95	25	170	160	5	99	M24	620

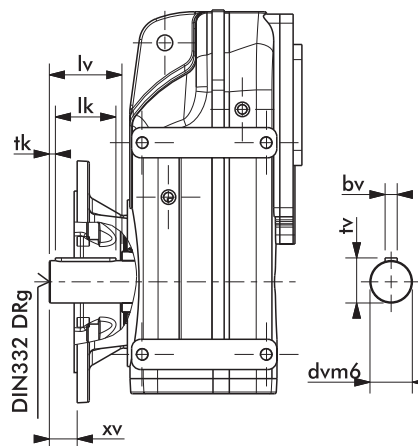
FG72PD...



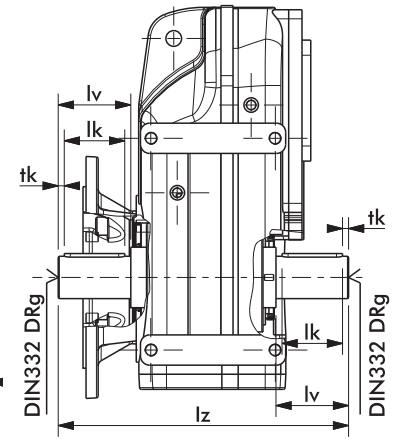
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63						
71						
80						
90S						
90L						
100						
112M						
132S	377	190	492	183	247	382
132M	415	190	532	183	247	382
132Ma	415	190	532	183	247	382
160M	489	246	611	246	285	391
160L	533	246	655	246	285	391
180M	554	260	739	260	323	391
180L	592	260	777	260	323	391
200L	658	299	828	299	369	406
225S	677	337	848	337	418	406
225M	702	337	873	337	481	406
250M	778	360	968	400	471	408

* Standard

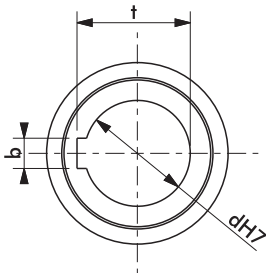
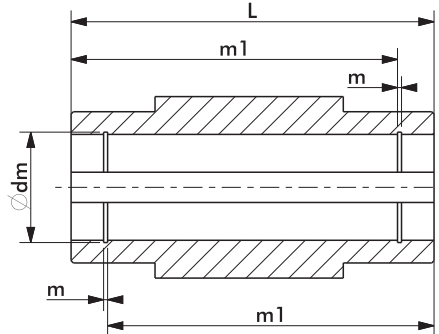
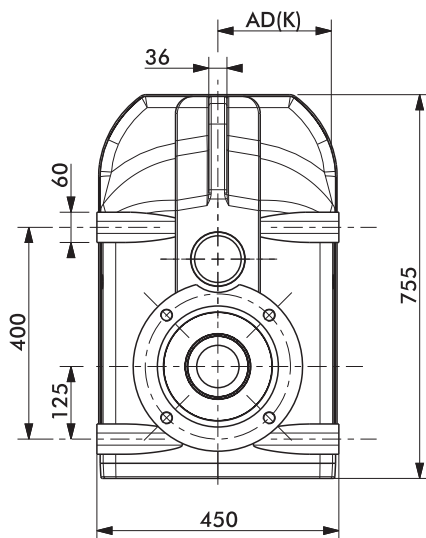
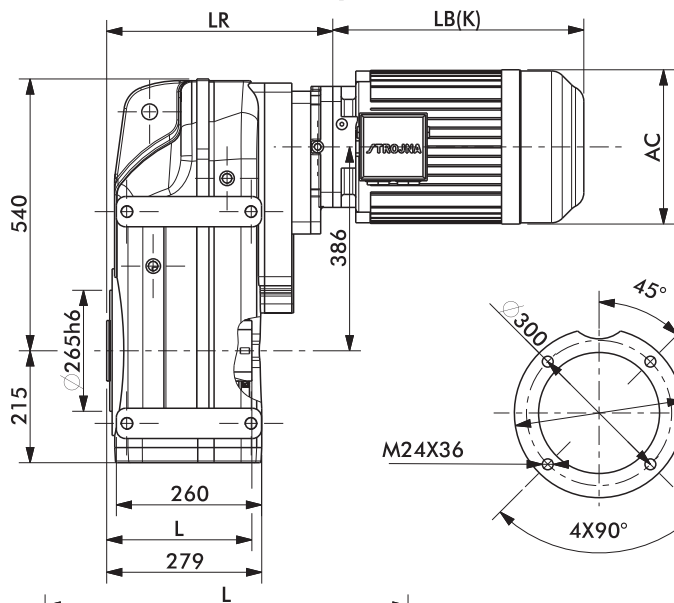
FG72PV...



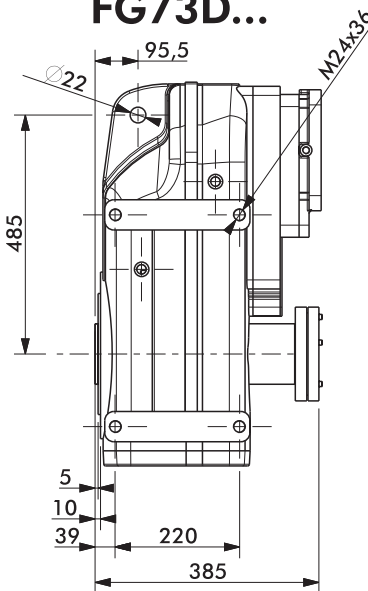
FG72PZ...



FG73...SMB/SMR



FG73D...



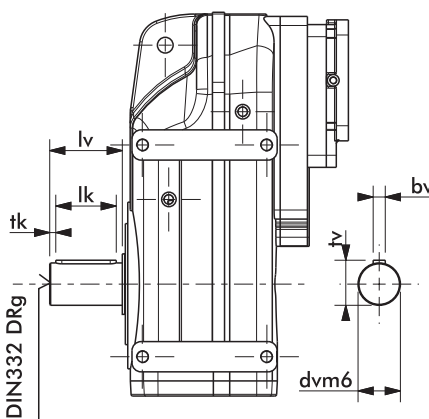
d	L	m1	dm	m	t	b
*90	280	256,5	93,5	3,15	95,4	25

dv	tv	bv	lv	lk	tk	g	lz
*90	95	25	170	160	5	M24	620

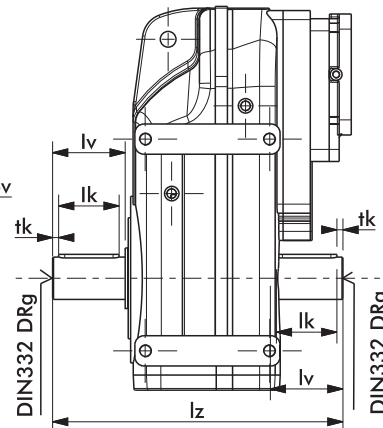
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63						
71						
80						
90S						
90L						
100	329	157	418	174	193	400
112M	334	169	434	199	216	400
132S	377	190	492	183	247	412
132M	415	190	532	183	247	412
132Ma	415	190	532	183	247	412
160M	489	246	611	246	285	417
160L	533	246	655	246	285	417
180M	554	260	739	260	323	417
180L	592	260	777	260	323	417
200L						
225S						
225M						
250M						

* Standard

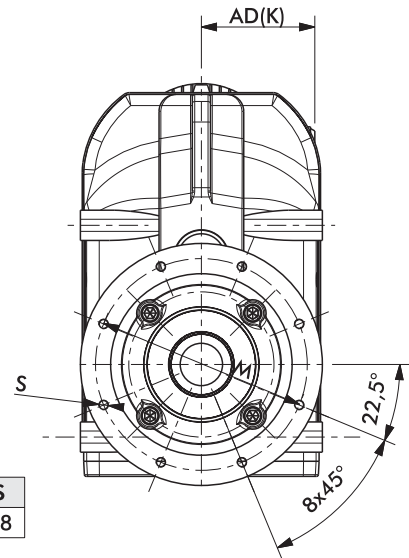
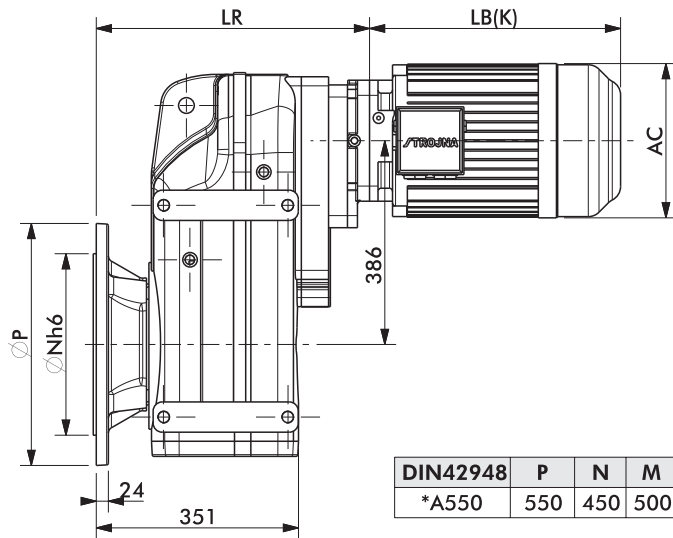
FG73V...



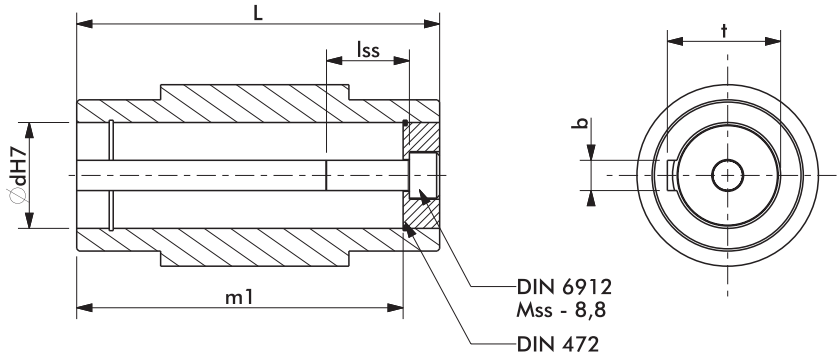
FG73Z...



FG73P...SMB/SMR



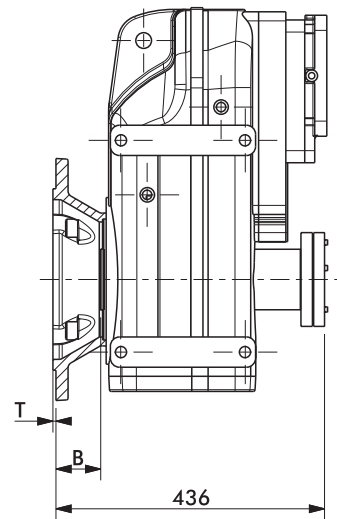
DIN42948	P	N	M	T	B	S
*A550	550	450	500	5	71	18



d	L	m1	lss	Mss	t	b
*90	280	256,5	50	M24	95,4	25

dv	tv	bv	lv	lk	tk	xv	g	lz
*90	95	25	170	160	5	99	M24	620

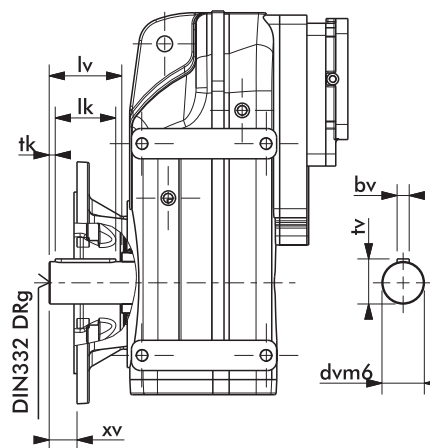
FG73PD...



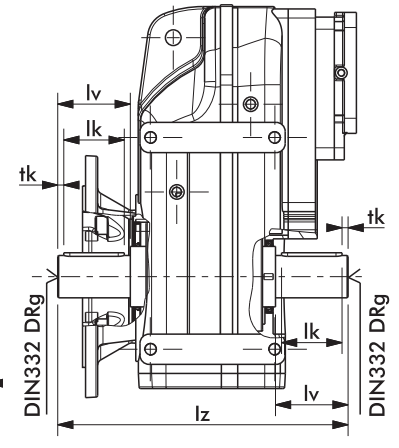
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63						
71						
80						
90S						
90L						
100	329	157	418	174	193	471
112M	334	169	434	199	216	471
132S	377	190	492	183	247	483
132M	415	190	532	183	247	483
132Ma	415	190	532	183	247	483
160M	489	246	611	246	285	488
160L	533	246	655	246	285	488
180M	554	260	739	260	323	488
180L	592	260	777	260	323	488
200L						
225S						
225M						
250M						

* Standard

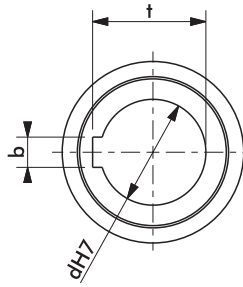
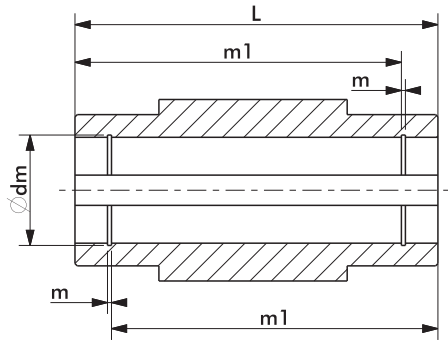
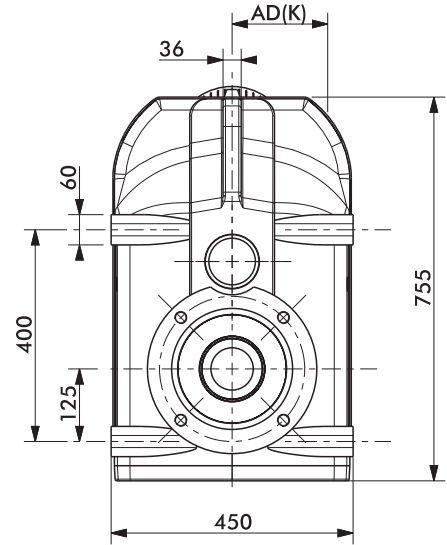
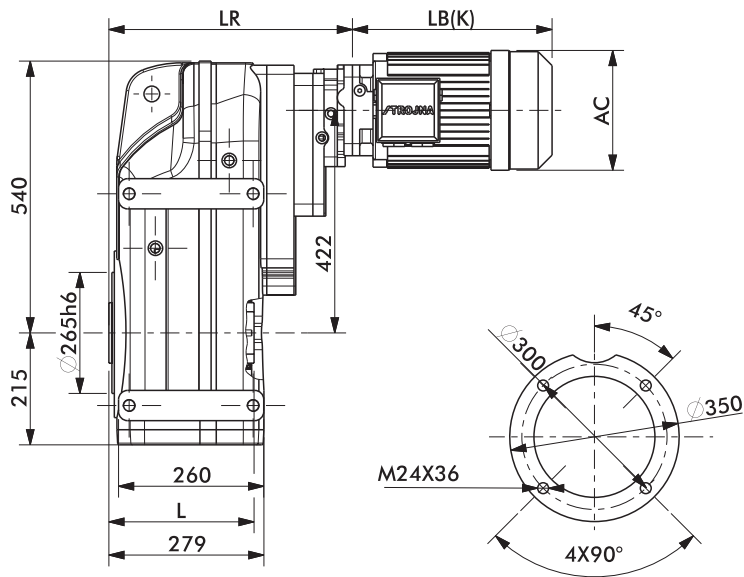
FG73PV...



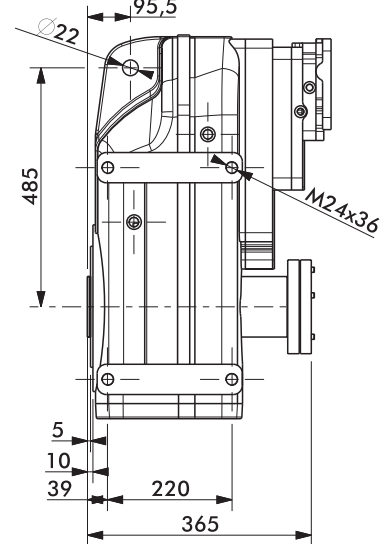
FG73PZ...



FG74...SMB/SMR



FG74D...



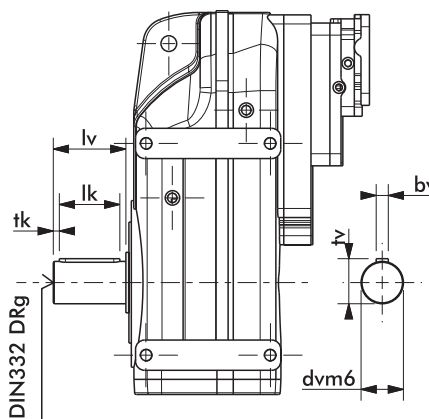
d	L	m1	dm	m	t	b
*90	280	256,5	93,5	3,15	95,4	25

dv	tv	bv	lv	lk	tk	g	lz
*90	95	25	170	160	5	M24	620

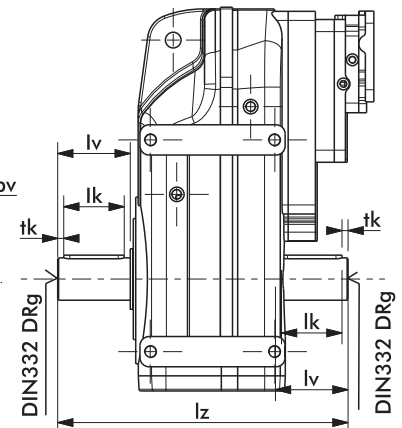
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	440
71	223	105	280	137	140	440
80	251	110	311	147	154	440
90S	276	121	360	164	170	440
90L	301	121	385	164	170	440
100	329	157	418	174	193	445
112M	334	169	434	199	216	445
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

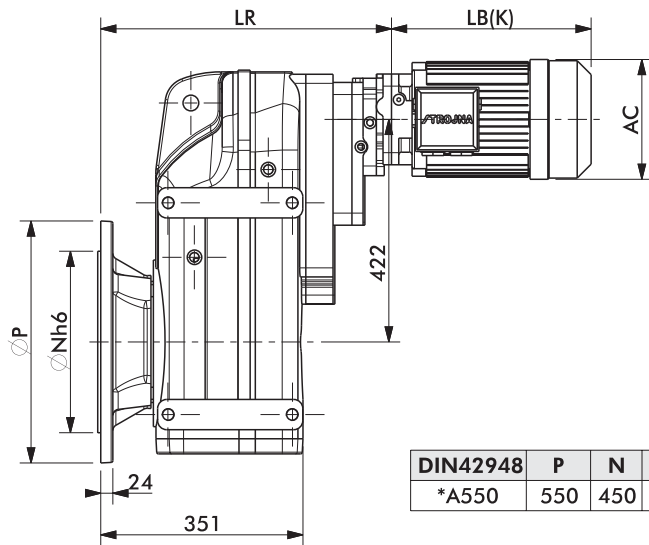
FG74V...



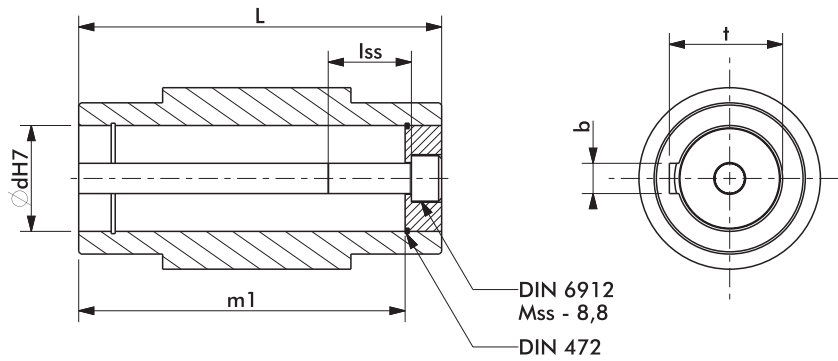
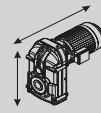
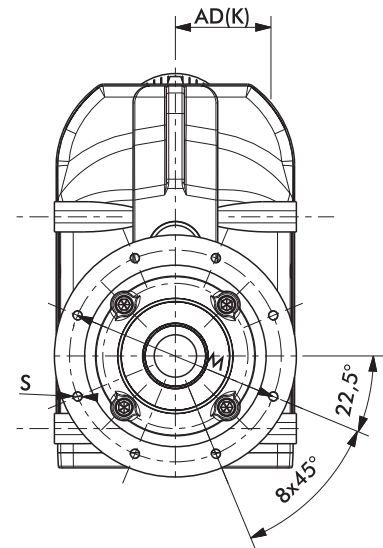
FG74Z...



FG74P...SMB/SMR



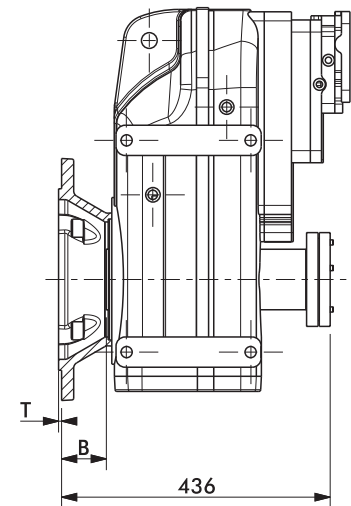
DIN42948	P	N	M	T	B	S
*A550	550	450	500	5	71	18



d	L	m1	lss	Mss	t	b
*90	280	256,5	50	M24	95,4	25

dv	tv	bv	lv	lk	tk	xv	g	lz
*90	95	25	170	160	5	99	M24	620

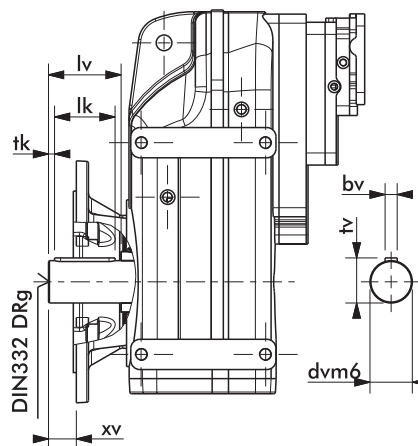
FG74PD...



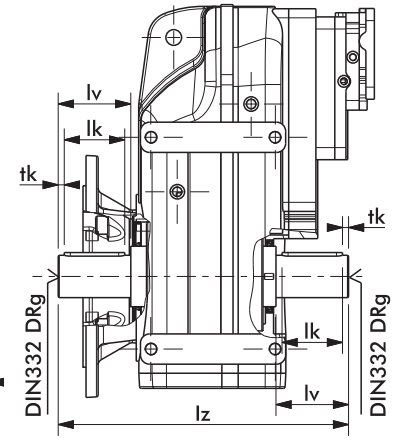
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	511
71	223	105	280	137	140	511
80	251	110	311	147	154	511
90S	276	121	360	164	170	511
90L	301	121	385	164	170	511
100	329	157	418	174	193	518
112M	334	169	434	199	216	518
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

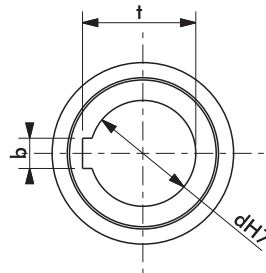
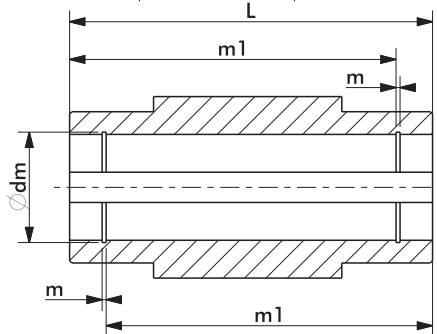
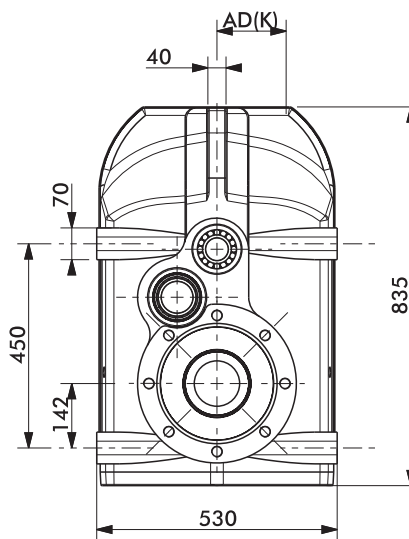
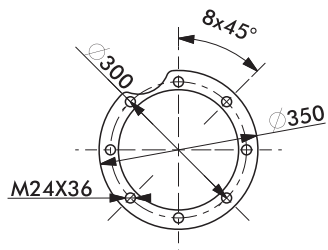
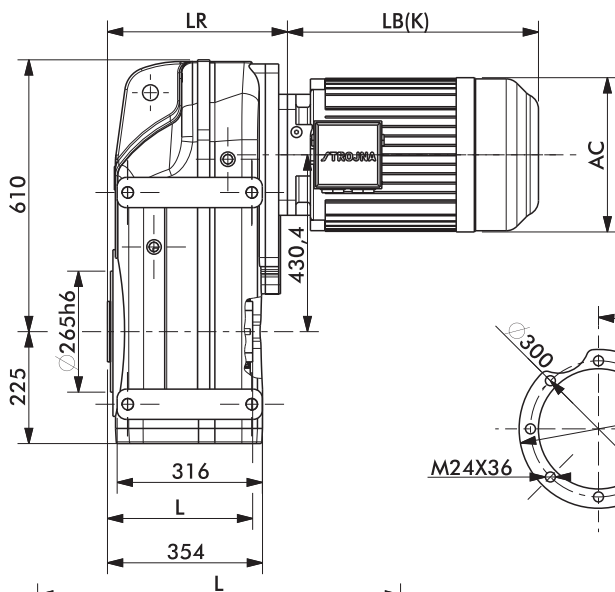
FG74PV...



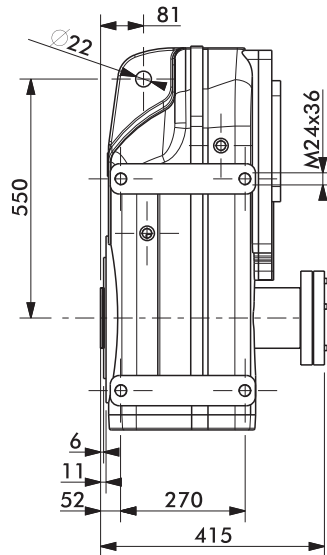
FG74PZ...



FG83...SMB/SMR



FG83D...



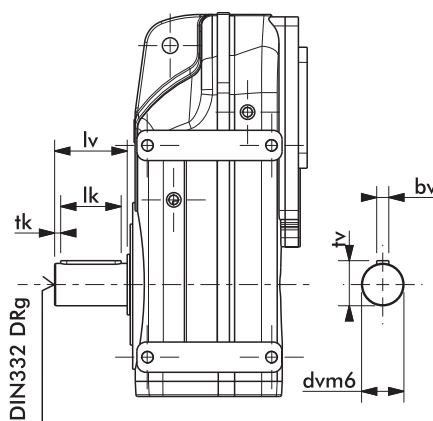
d	L	m1	dm	m	t	b
*100	360	335	103,5	3,15	106,4	28

dv	tv	bv	lv	lk	tk	g	lz
*110	116	28	210	180	15	M24	780

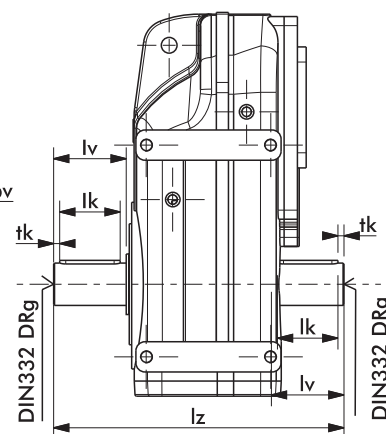
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63						
71						
80						
90S						
90L						
100						
112M						
132S	377	190	492	183	247	394
132M	415	190	532	183	247	394
132Ma	415	190	532	183	247	394
160M	489	246	611	246	285	403
160L	533	246	655	246	285	403
180M	554	260	739	260	323	403
180L	592	260	777	260	323	403
200L	658	299	828	299	369	418
225S	677	337	848	337	418	418
225M	702	337	873	337	418	420
250M	778	360	968	400	471	420

* Standard

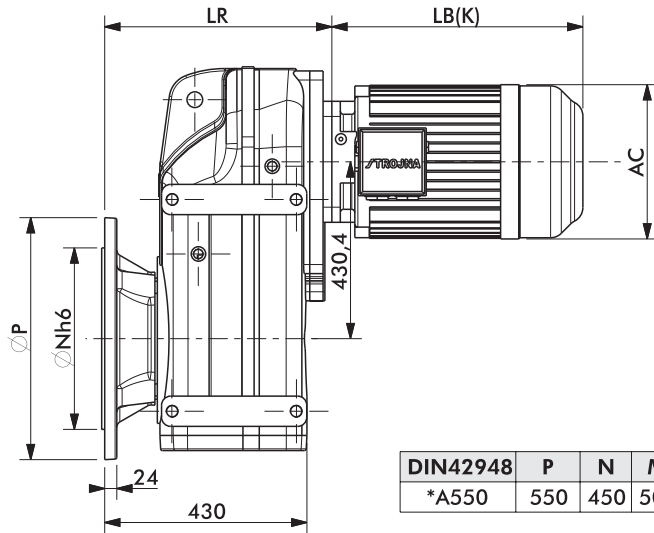
FG83V...



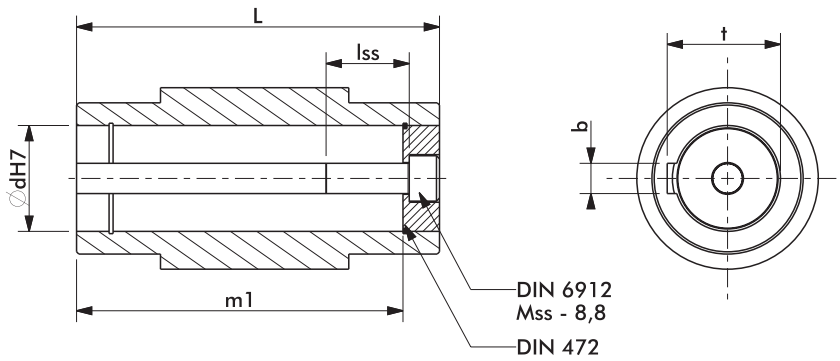
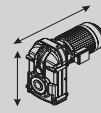
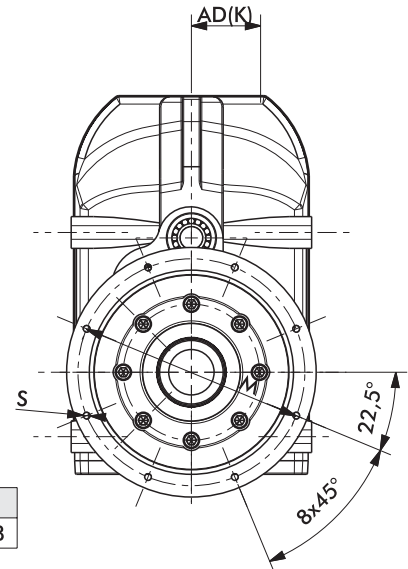
FG83Z...



FG83P...SMB/SMR



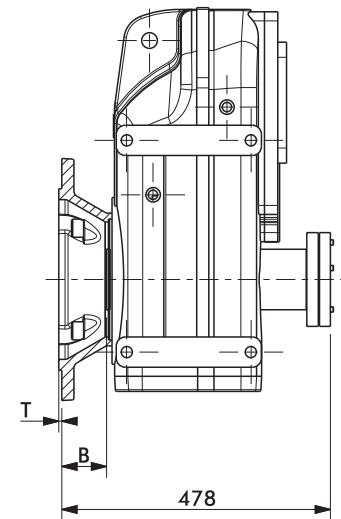
DIN42948	P	N	M	T	B	S
*A550	550	450	500	5	71	18



d	L	m1	lss	Mss	t	b
*100	360	335	50	M24	106,4	28

dv	tv	bv	lv	lk	tk	xv	g	lz
*110	116	28	210	180	15	140	M24	780

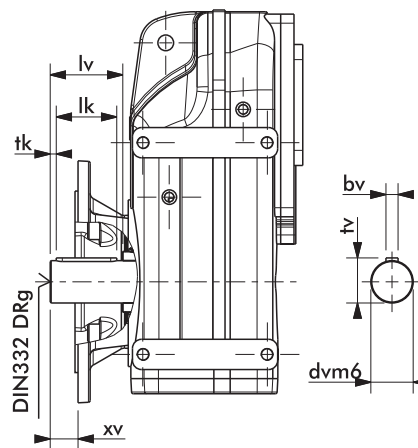
FG83PD...



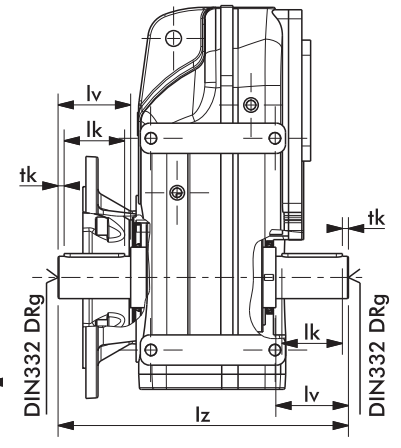
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63						
71						
80						
90S						
90L						
100						
112M						
132S	377	190	492	183	247	464
132M	415	190	532	183	247	464
132Ma	415	190	532	183	247	464
160M	489	246	611	246	285	473
160L	533	246	655	246	285	473
180M	554	260	739	260	323	473
180L	592	260	777	260	323	473
200L	658	299	828	299	369	488
225S	677	337	848	337	418	488
225M	702	337	873	337	418	488
250M	778	360	968	400	471	490

* Standard

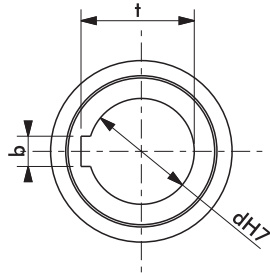
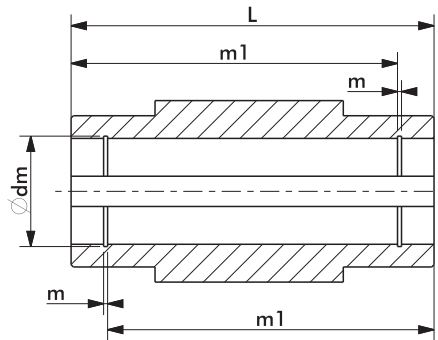
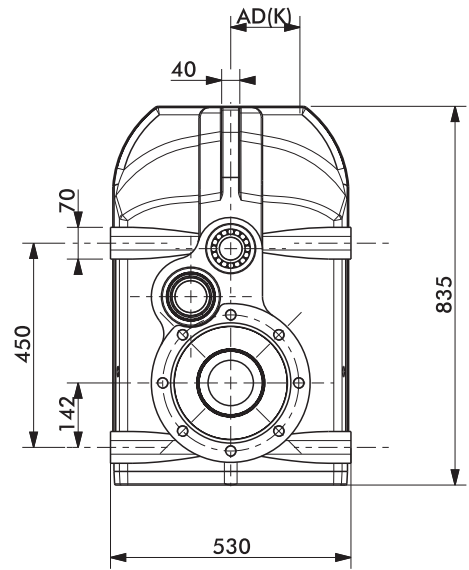
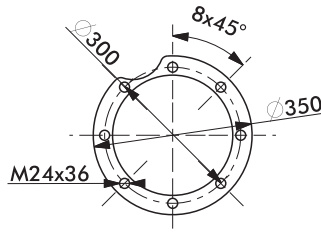
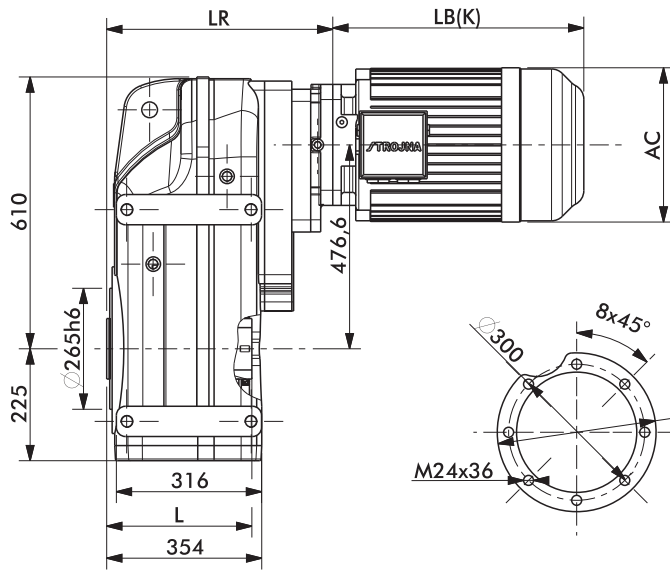
FG83PV...



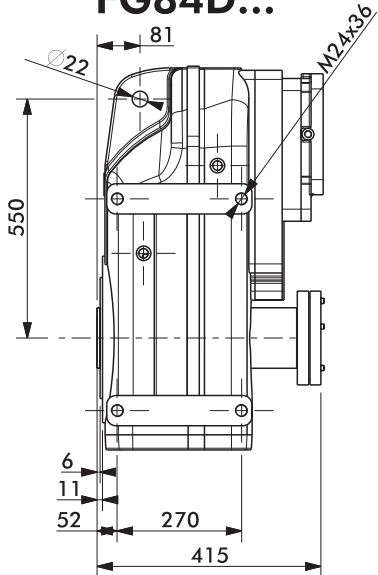
FG83PZ...



FG84...SMB/SMR



FG84D...



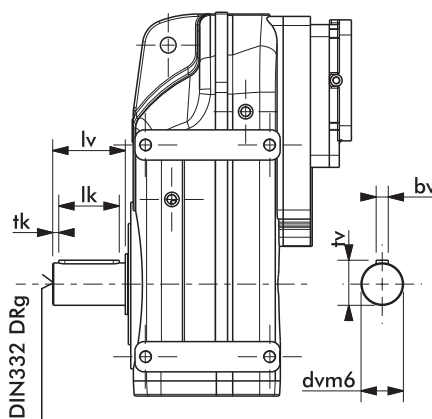
d	L	m1	dm	m	t	b
*100	360	335	103,5	3,15	106,4	28

dv	tv	bv	lv	lk	tk	g	lz
*110	116	28	210	180	15	M24	780

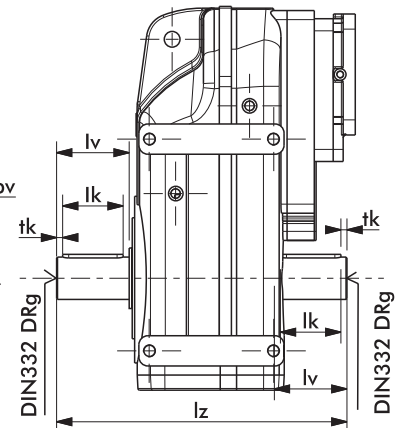
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63						
71						
80						
90S						
90L						
100	329	157	418	174	193	483
112M	334	169	434	199	216	483
132S	377	190	492	183	247	495
132M	415	190	532	183	247	495
132Ma	415	190	532	183	247	495
160M	489	246	611	246	285	500
160L	533	246	655	246	285	500
180M	554	260	739	260	323	500
180L	592	260	777	260	323	500
200L						
225S						
225M						
250M						

* Standard

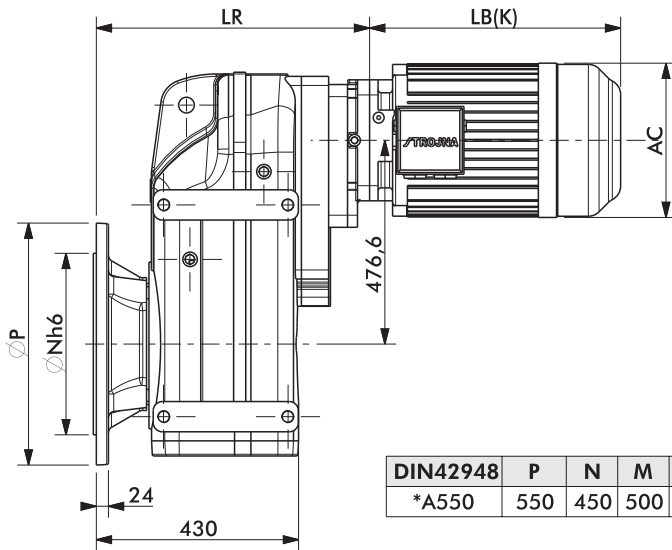
FG84V...



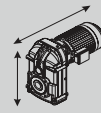
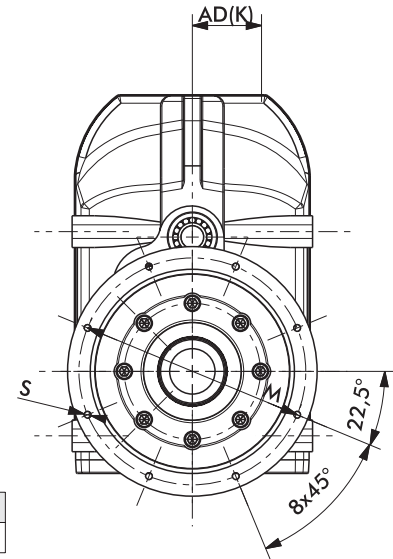
FG84Z...



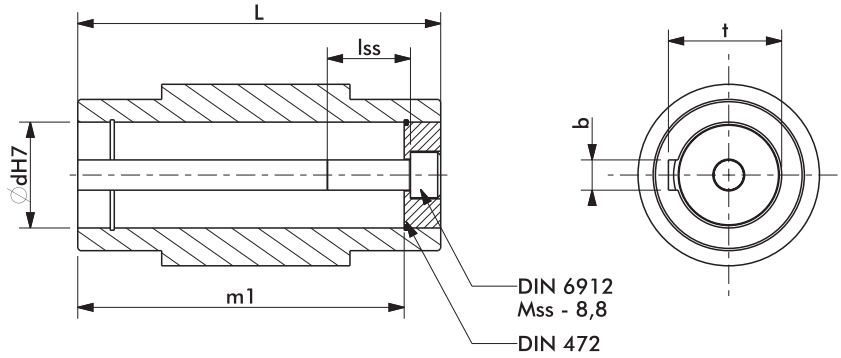
FG84P...SMB/SMR



DIN42948	P	N	M	T	B	S
*A550	550	450	500	5	71	18

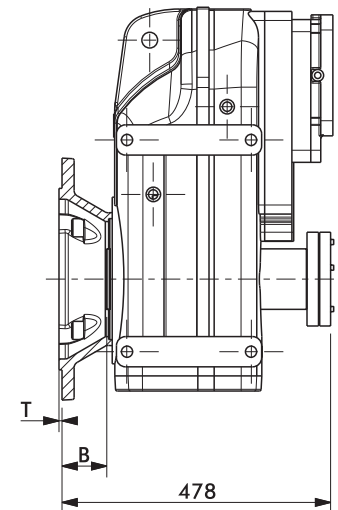


FG84PD...



d	L	m1	lss	Mss	t	b
*100	360	335	50	M24	106,4	28

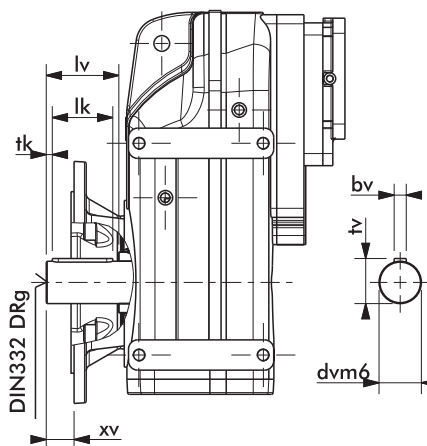
dv	tv	bv	lv	lk	tk	xv	g	lz
*110	116	28	210	180	15	140	M24	780



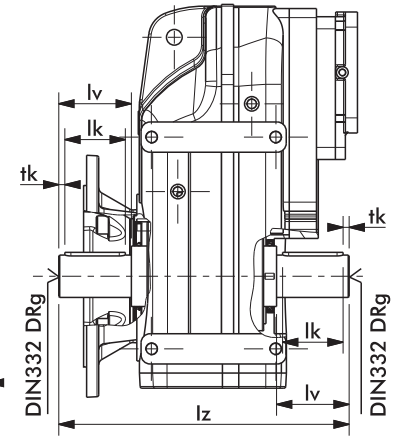
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63						
71						
80						
90S						
90L						
100	329	157	418	174	193	553
112M	334	169	434	199	216	553
132S	377	190	492	183	247	565
132M	415	190	532	183	247	565
132Ma	415	190	532	183	247	565
160M	489	246	611	246	285	570
160L	533	246	655	246	285	570
180M	554	260	739	260	323	570
180L	592	260	777	260	323	570
200L						
225S						
225M						
250M						

* Standard

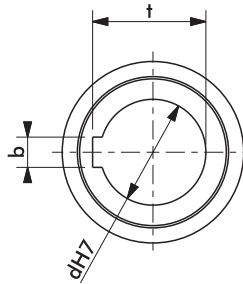
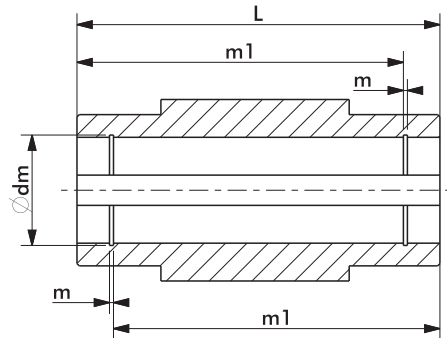
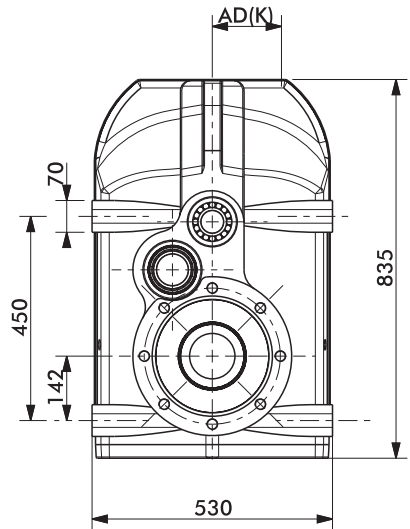
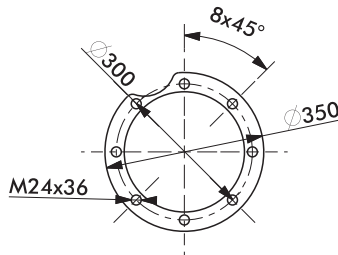
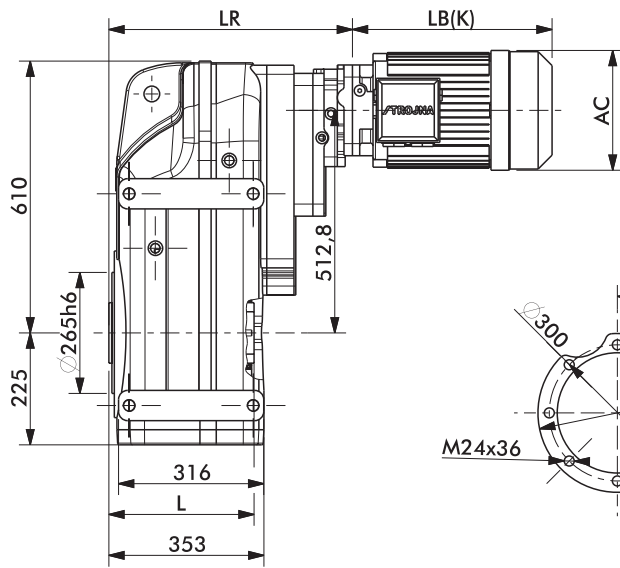
FG84PV...



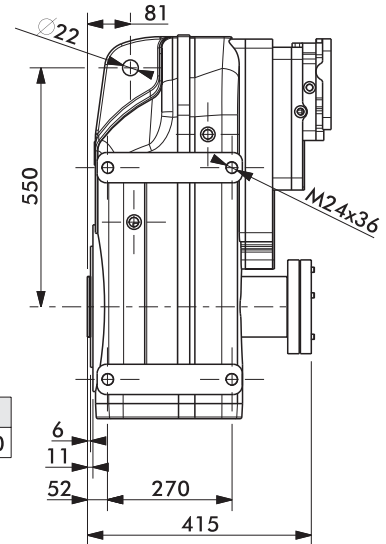
FG84PZ...



FG85...SMB/SMR



FG85D...



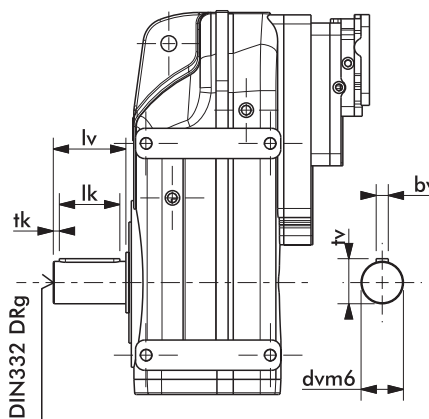
d	L	m1	lss	Mss	t	b
*100	360	335	50	M24	106,4	28

dv	tv	bv	lv	lk	tk	xv	g	lz
*110	116	28	210	180	15	140	M24	780

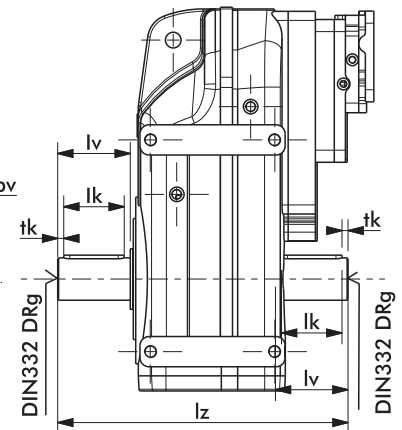
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	523
71	223	105	280	137	140	523
80	251	110	311	147	154	523
90S	276	121	360	164	170	523
90L	301	121	385	164	170	523
100	329	157	418	174	193	528
112M	334	169	434	199	216	528
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

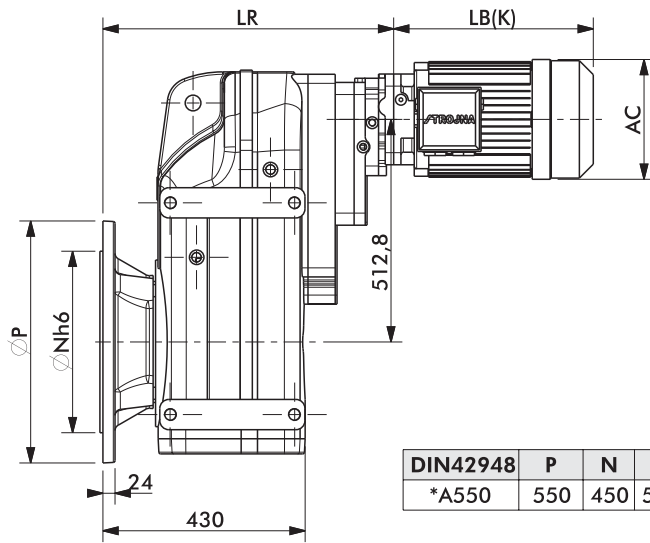
FG85V...



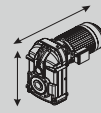
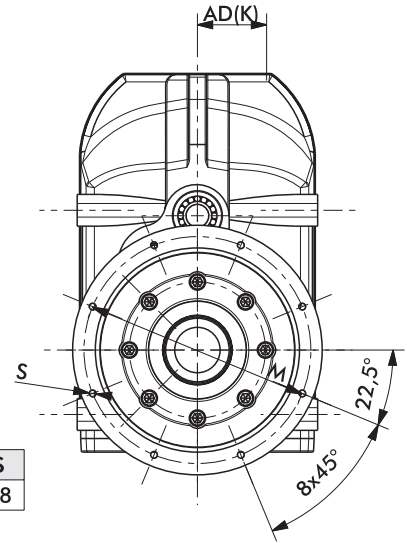
FG85Z...



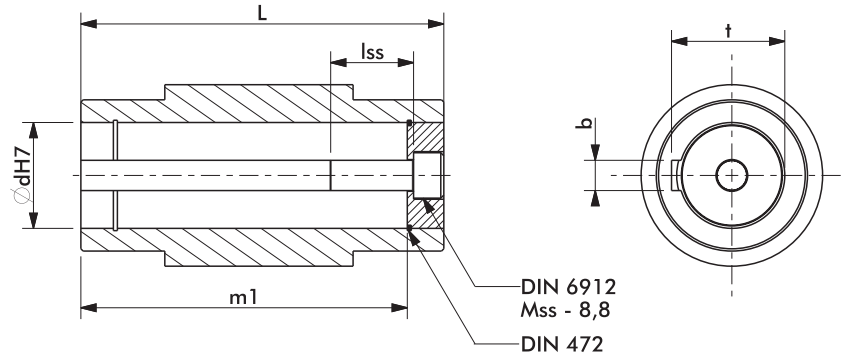
FG85P...SMB/SMR



DIN42948	P	N	M	T	B	S
*A550	550	450	500	5	71	18

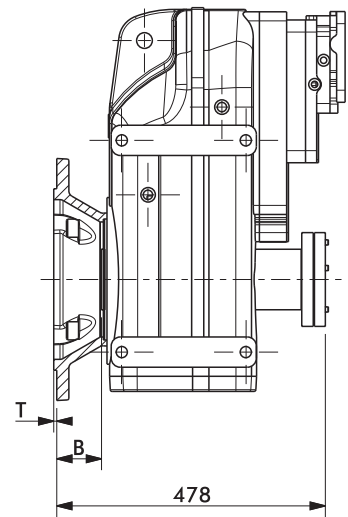


FG85PD...



d	L	m1	lss	Mss	t	b
*100	360	335	50	M24	106,4	28

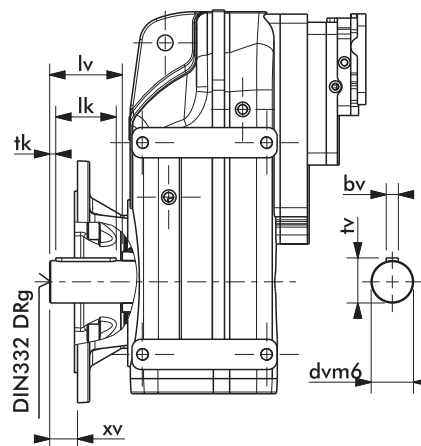
dv	tv	bv	lv	lk	tk	xv	g	lz
*110	116	28	210	180	15	140	M24	780



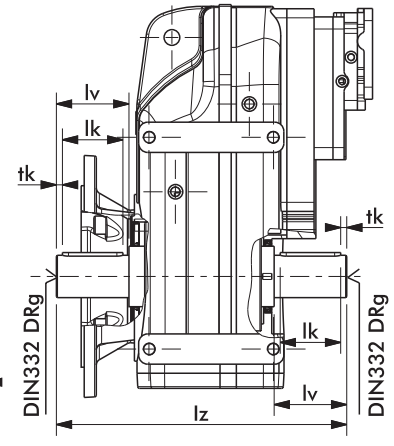
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	593
71	223	105	280	137	140	593
80	251	110	311	147	154	593
90S	276	121	360	164	170	593
90L	301	121	385	164	170	593
100	329	157	418	174	193	598
112M	334	169	434	199	216	598
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

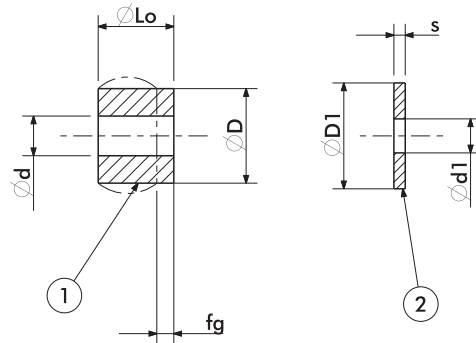
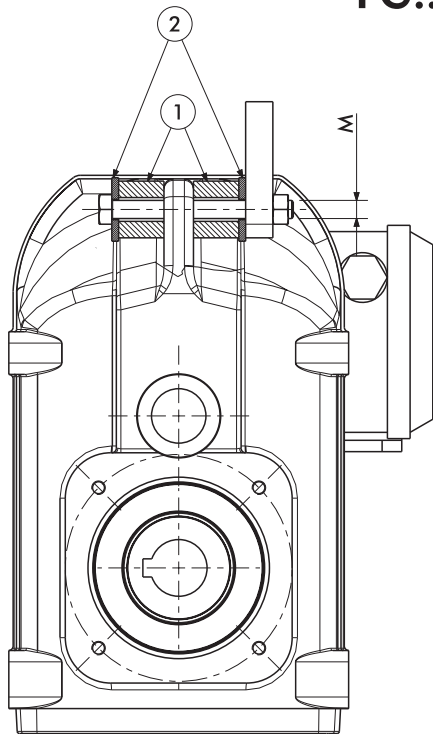
FG85PV...



FG85PZ...

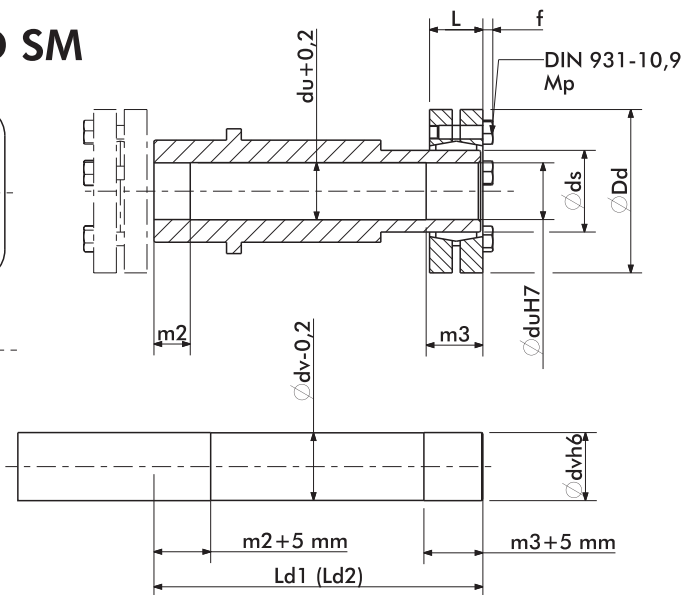
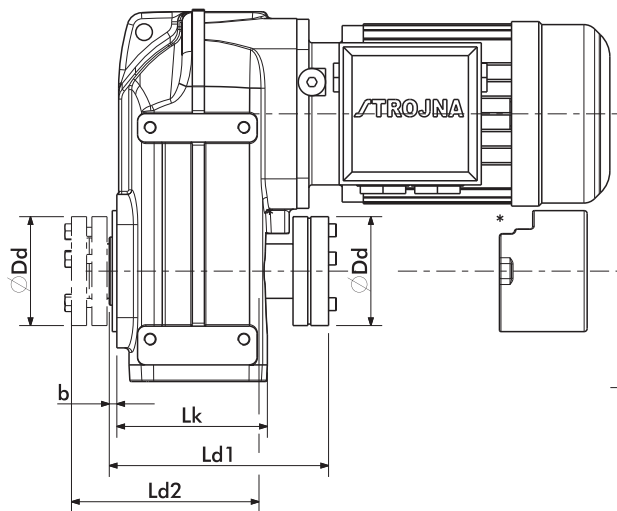


FG...SM/GO



	D	d	Lo	D1	d1	s	M	fg
FG1	20	8,5	20	25	8,5	4	M8	1,50
FG2	25	10,5	20	30	10,5	5	M8	1,50
FG3	32	13,5	32	40	13,5	5	M10	2,00
FG4	40	13,5	32	50	13,5	5	M12	2,00
FG5	50	17	32	60	16,5	6	M16	2,00
FG6	63	17	32	80	16,5	6	M16	2,00
FG7	80	21	32	100	20,5	8	M20	1,50
FG8	100	21	32	120	20,5	8	M20	1,50

FG...PD SM

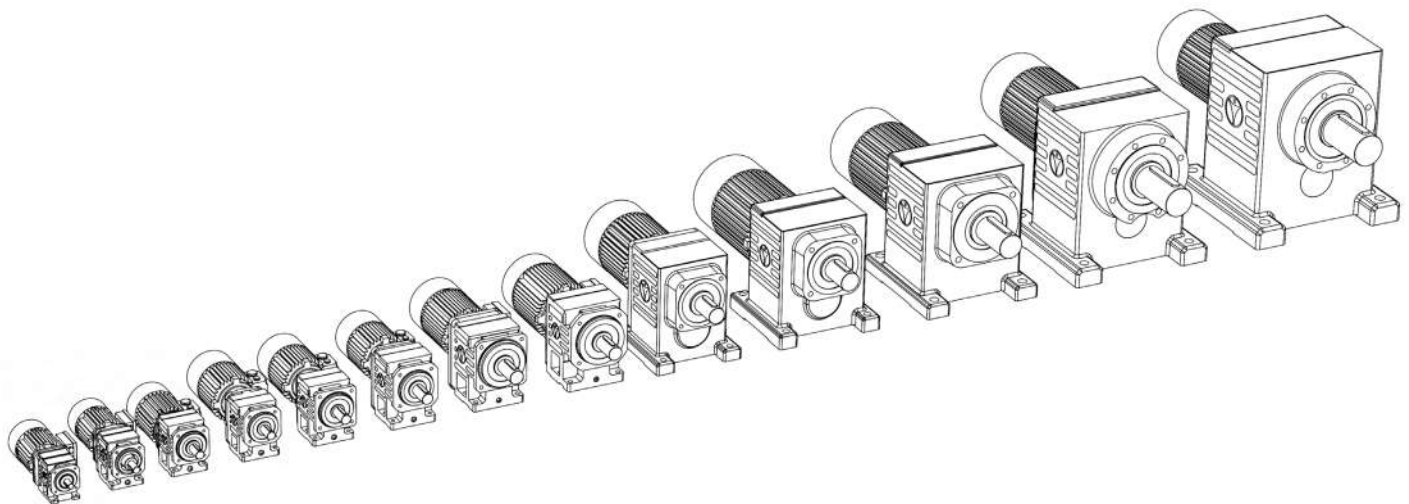


	SMB/SMR		m2	m3	Lk	b	Ld1	Ld2	du/dv	ds	Dd	L	f	Msmax	Famax	Mp
	max	*max												[Nm]	[kN]	[Nm]
FG1	63		20	20	99,5	5	150	130	30	36	72	23,5	4	570	58	12
FG2	80	71	20	25	112	5	169	143	35	44	80	25,5	4	780	74	12
FG3	112	100	20	30	141	5	205	180	40	50	90	27,5	4	1160	86	12
FG4	132	112	30	30	149	5	221	192	50	62	110	30,5	4	2200	111	12
FG5	160	132	30	30	177	5	247	220	65	75	138	32,5	5,3	3950	137	30
FG6	200	200	50	40	247	9	330	280	75	90	155	39	5,3	7250	210	30
FG7	225	225	60	45	269	10	365	330	90	110	185	49	6,4	13600	302	100
FG8	250	250	60	50	343	11	415	415	100	125	215	53	10	21300	395	121



ZG

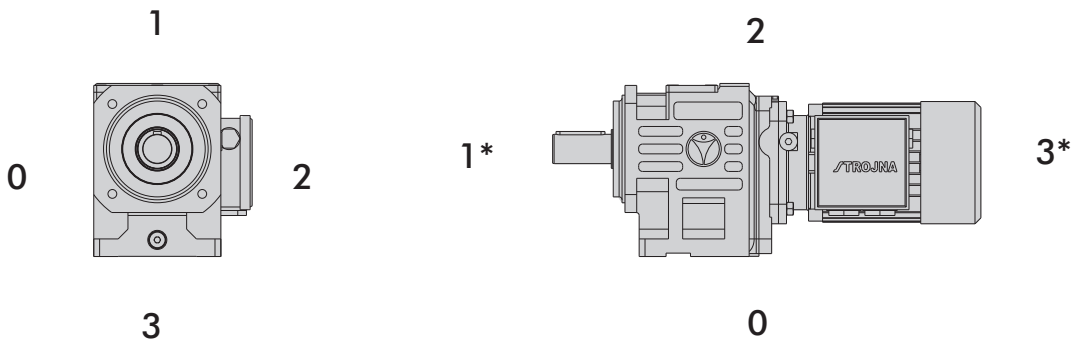
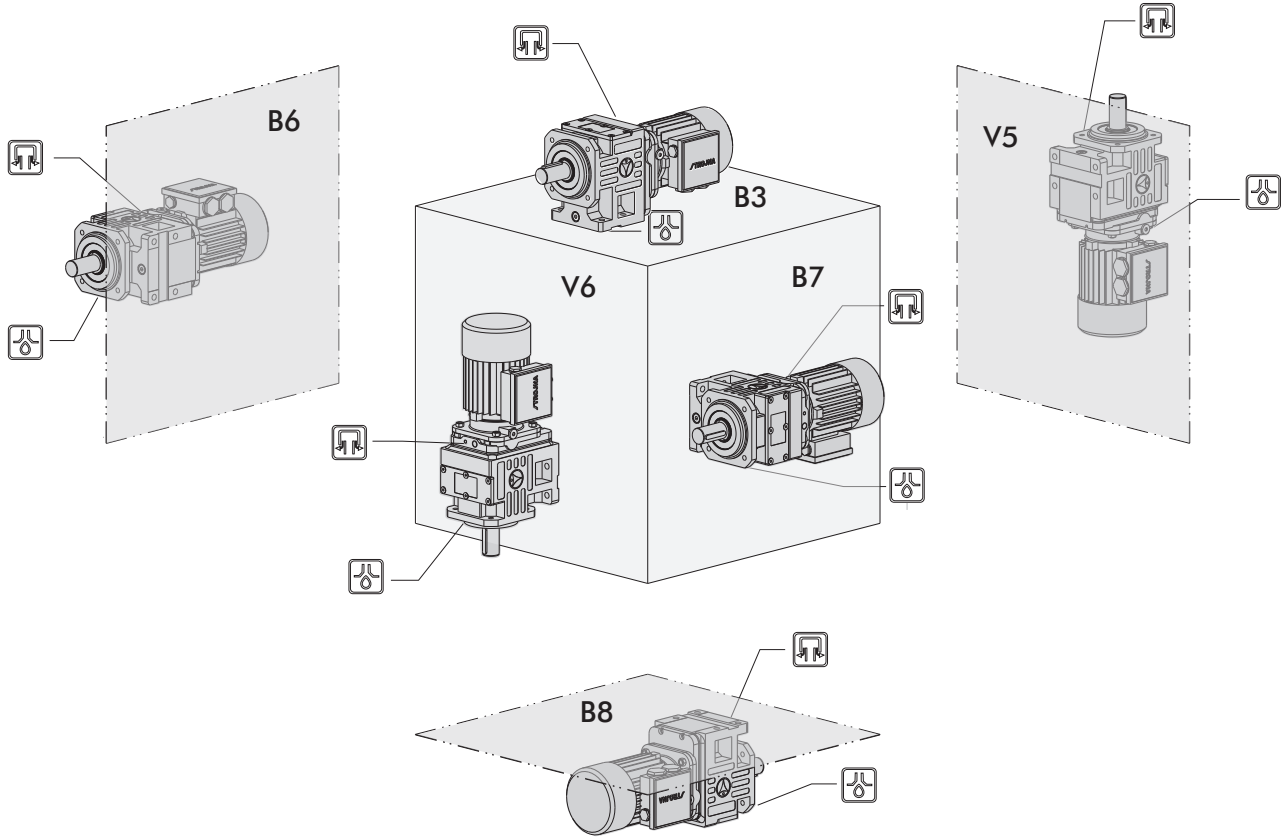
HELICAL GEAR UNITS

Power: 0,12 kW - 160 kW
Torque: 95 - 20.000 Nm
Ratio: 3,0 - 8700



Mounting positions ZG

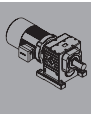
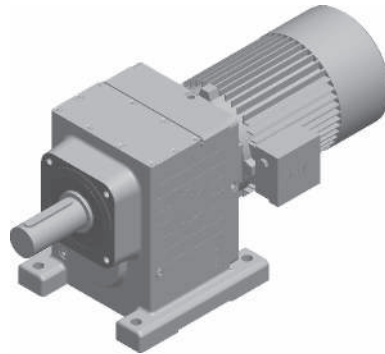
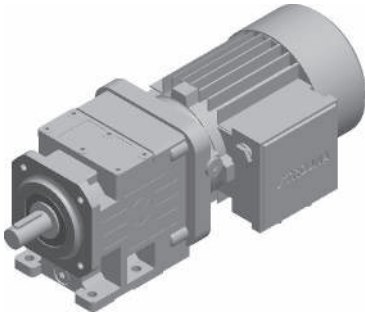
-  Vent plug
-  Drain plug



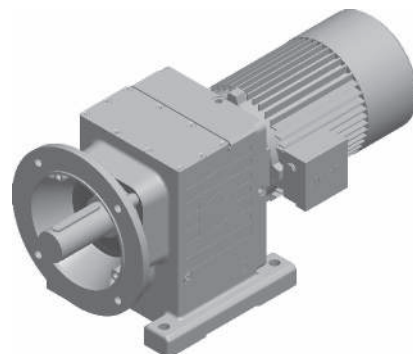
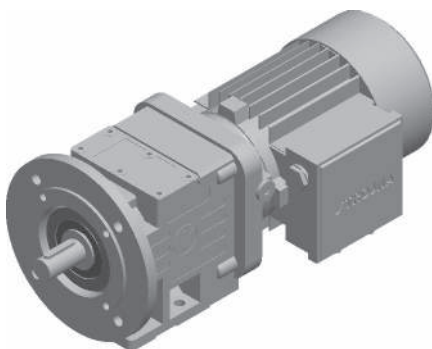
*Check for availability

Gear unit design

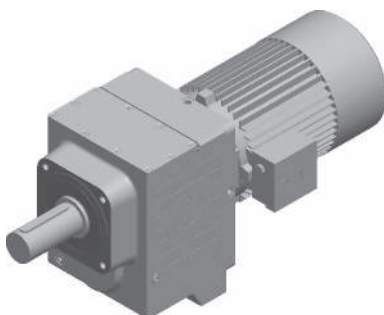
ZG...V...SMB/SMR



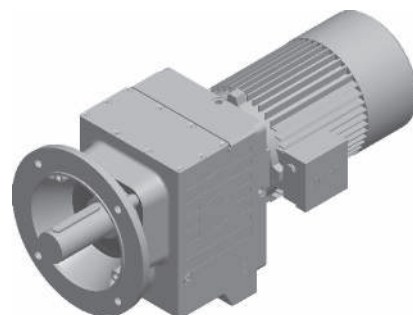
ZG...P/V...

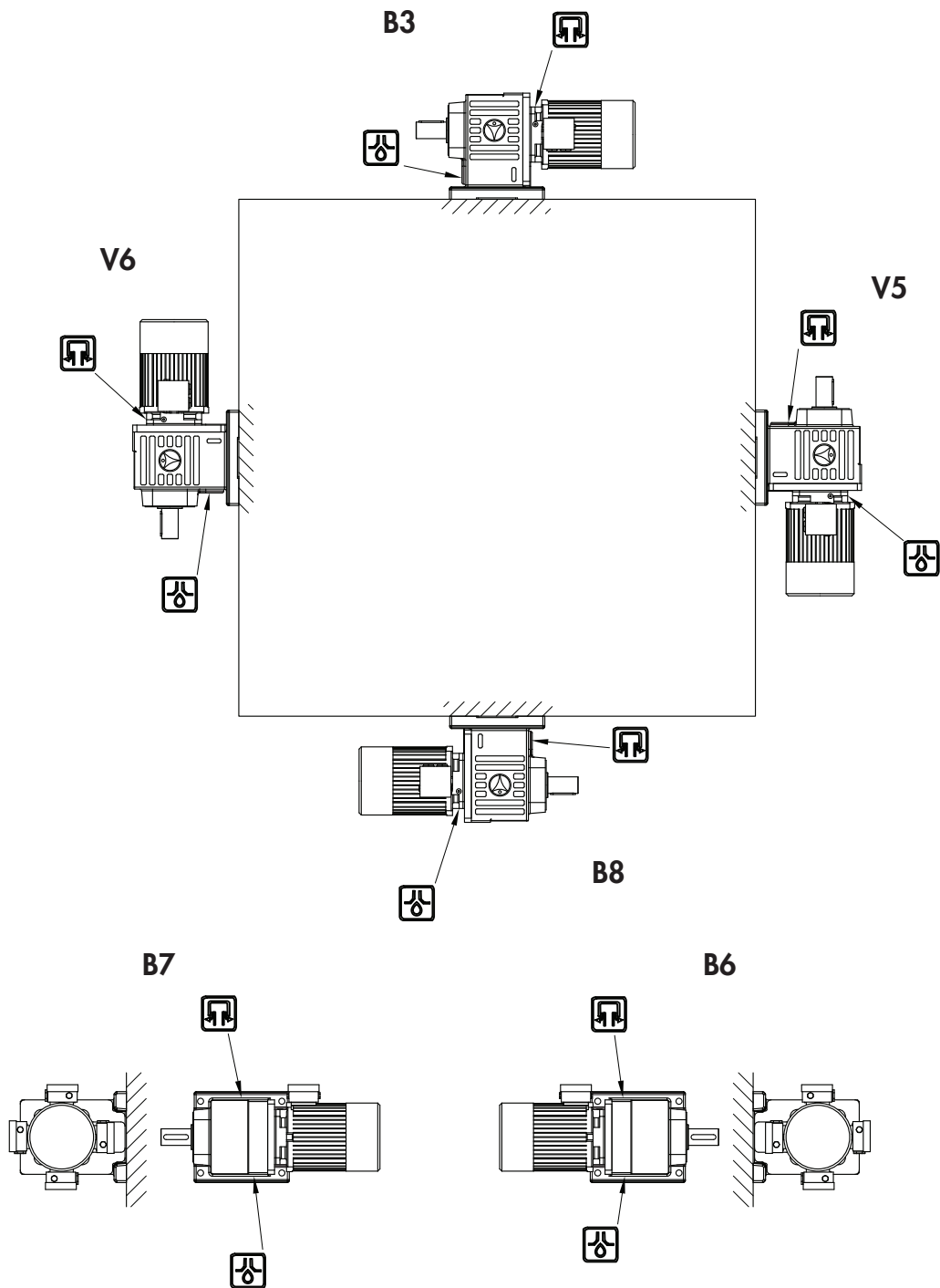
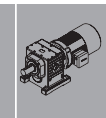
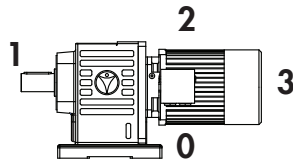
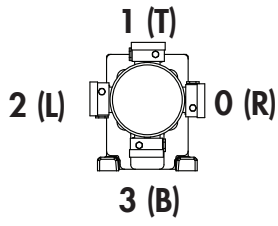


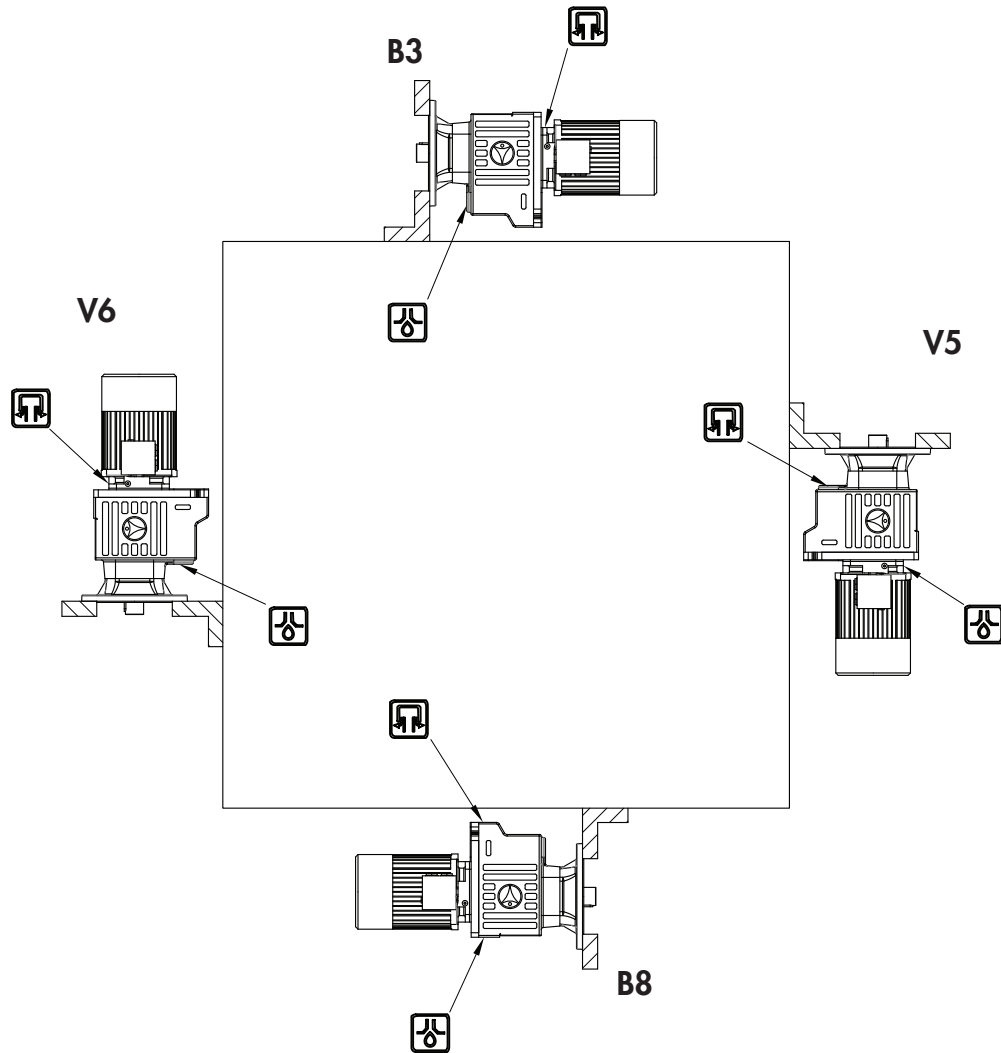
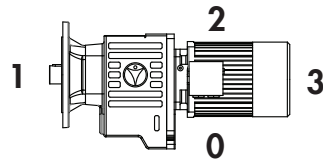
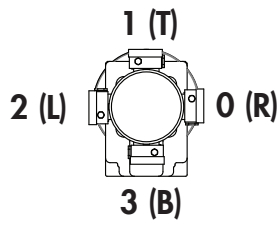
ZG...FV...



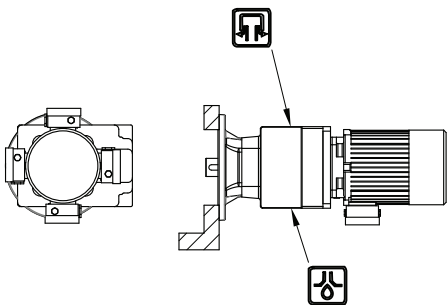
ZG...FP/V...



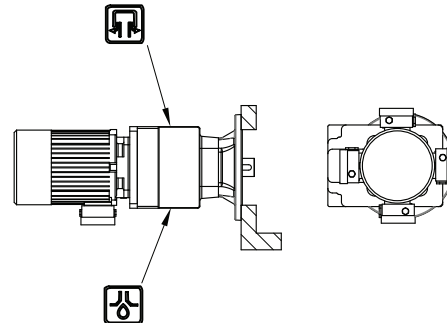


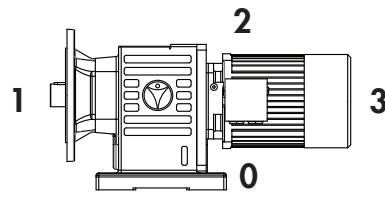
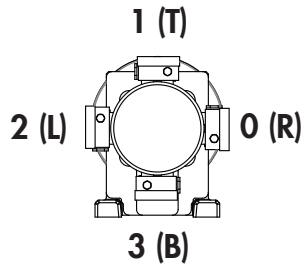


B7

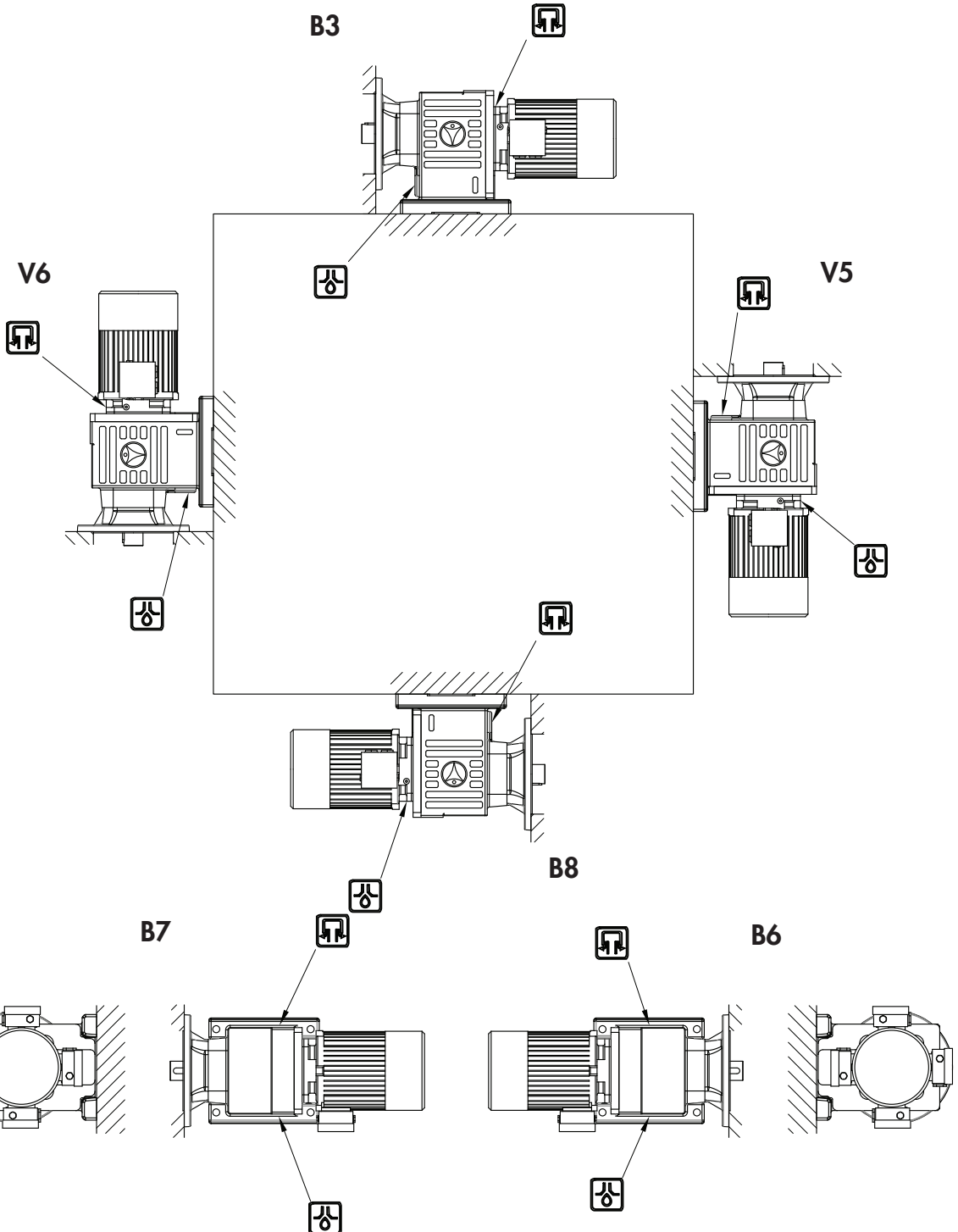


B6

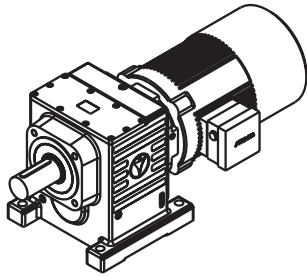




-  Vent plug
-  Drain plug



Structure of selection tables



ZG

HELICAL GEAR UNITS

Gear unit type
Motor frame size

ZG12																
Mt _{2max} [Nm]	(F _r =0)	(F _r =0)	j _t [']	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
210	7,1	7,3	8,9	94,16												

Total ratio
Backlash
Permissible radial load
Permissible axial load
Permissible output torque

ZG12																
Mt _{zmax} [Nm]	(F _r =0)	(F _r =0)	(F _{sp} =0)	(F _{sp} =0)	j _t [']	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{sp} [kN]	F _{sp} [kN]			63	71	80	90	100	112	132	160	180	200
95	2,15	3,30	*	*	13	61,44										
95	2,15	3,30	*	*	13	54,60										
95	2,15	3,30	*	*	13	50,27										
95	2,15	3,30	*	*	13	45,50										
95	2,09	3,20	*	*	13	40,38										
95	2,09	3,20	*	*	13	35,00										
95	2,09	3,20	*	*	13	31,50										
95	1,96	3,00	*	*	15	28,54										
95	1,96	3,00	*	*	15	26,00										
95	1,96	3,00	*	*	15	23,33										
95	1,96	3,00	*	*	15	22,08										
95	1,83	2,80	*	*	15	19,25										
91	1,83	2,80	*	*	15	16,63										
87	1,83	2,80	*	*	15	14,82										
84	1,70	2,60	*	*	15	13,22										
79	1,70	2,60	*	*	15	11,90										
76	1,70	2,60	*	*	16	11,04										
74	1,63	2,50	*	*	16	9,50										
68	1,63	2,50	*	*	16	7,90										
61	1,50	2,30	*	*	16	7,00										
95	2,02	3,10	*	*	12	41,38										
95	2,02	3,10	*	*	12	36,77										
95	2,02	3,10	*	*	12	33,86										
95	1,96	3,00	*	*	12	30,64										
95	1,96	3,00	*	*	12	27,20										
95	1,96	3,00	*	*	12	23,57										
95	1,89	2,90	*	*	12	21,21										
95	1,89	2,90	*	*	12	19,22										
94	1,89	2,90	*	*	12	17,51										
92	1,89	2,90	*	*	12	15,71										
88	1,83	2,80	*	*	12	14,87										
82	1,76	2,70	*	*	12	12,96										
77	1,76	2,70	*	*	13	11,20										
74	1,76	2,70	*	*	13	9,98										
71	1,76	2,70	*	*	13	8,90										
65	1,70	2,60	*	*	13	8,01										
61	1,70	2,60	*	*	13	7,43										
54	1,63	2,50	*	*	13	6,40										
48	1,63	2,50	*	*	13	5,32										
43	1,63	2,50	*	*	13	4,71										



ZG23																
Mt _{2max} [Nm]	(F _r =0)	(F _r =0)	(F _{rp} =0)	(F _{rp} =0)	j _t [']	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180	200
170	2,59	4,08	*	*	12	207,92										
170	2,59	4,08	*	*	12	180,20										
170	2,59	4,08	*	*	12	162,18										
170	2,43	3,82	*	*	12	146,93										
170	2,43	3,82	*	*	12	133,86										
170	2,43	3,82	*	*	12	120,13										
170	2,43	3,82	*	*	12	113,66										
170	2,27	3,57	*	*	12	99,11										
170	2,27	3,57	*	*	13	85,60										
170	2,27	3,57	*	*	13	76,32										
170	2,10	3,31	*	*	13	68,08										
170	2,10	3,31	*	*	13	61,27										
170	2,10	3,31	*	*	13	56,83										
170	2,02	3,19	*	*	13	48,91										
170	2,02	3,19	*	*	13	40,69										
170	1,86	2,93	*	*	13	36,04										



ZG22																
Mt _{zmax} [Nm]	(F _r =0)	(F _r =0)	(F _{ap} =0)	(F _{rp} =0)	j _t [°]	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180	200
180	2,84	4,62	*	*	13	74,80										
180	2,84	4,62	*	*	13	66,64										
180	2,84	4,62	*	*	13	59,96										
180	2,84	4,62	*	*	13	55,53										
180	2,76	4,48	*	*	13	50,74										
180	2,76	4,48	*	*	13	43,27										
180	2,76	4,48	*	*	13	39,10										
180	2,58	4,20	*	*	13	35,57										
180	2,58	4,20	*	*	13	32,54										
180	2,58	4,20	*	*	13	30,60										
180	2,58	4,20	*	*	13	27,72										
180	2,41	3,92	*	*	13	24,37										
180	2,41	3,92	*	*	13	21,25										
180	2,41	3,92	*	*	14	19,60										
179	2,24	3,64	*	*	14	18,13										
169	2,24	3,64	*	*	14	15,64										
166	2,24	3,64	*	*	14	14,91										
164	2,15	3,50	*	*	14	13,36										
154	2,15	3,50	*	*	14	11,41										
148	1,98	3,22	*	*	14	9,80										
141	1,97	3,20	*	*	14	8,45										
134	1,97	3,20	*	*	14	6,97										
101	2,67	4,34	*	*	12	39,47										
141	2,58	4,20	*	*	12	35,16										
171	2,58	4,20	*	*	12	31,64										
178	2,58	4,20	*	*	12	29,30										
180	2,50	4,06	*	*	12	26,77										
180	2,50	4,06	*	*	12	22,83										
180	2,50	4,06	*	*	12	20,63										
180	2,50	4,06	*	*	12	18,77										
177	2,41	3,92	*	*	12	17,17										
174	2,32	3,78	*	*	12	16,15										
166	2,32	3,78	*	*	12	14,63										
160	2,32	3,78	*	*	12	12,86										
154	2,32	3,78	*	*	12	11,21										
152	2,24	3,64	*	*	13	10,34										
148	2,24	3,64	*	*	13	9,57										
141	2,15	3,50	*	*	13	8,25										
137	2,15	3,50	*	*	13	7,87										
134	2,09	3,40	*	*	13	7,05										
132	2,03	3,30	*	*	13	6,02										
128	2,03	3,30	*	*	13	5,17										
119	2,03	3,30	*	*	13	4,46										
112	2,03	3,30	*	*	13	3,68										



ZG33																
Mt _{2max} [Nm]	(F _r =0)	(F _r =0)	(F _{ap} =0)	(F _{rp} =0)	j _t [']	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180	200
280	4,39	6,27	*	*	11	338,34										
280	4,39	6,27	*	*	11	300,65										
280	4,39	6,27	*	*	11	276,83										
280	4,39	6,27	*	*	11	250,55										
280	4,26	6,08	*	*	11	222,38										
280	4,26	6,08	*	*	11	192,73										
280	4,26	6,08	*	*	11	173,45										
280	3,99	5,70	*	*	11	157,15										
280	3,99	5,70	*	*	11	143,17										
280	3,99	5,70	*	*	11	128,48										
280	3,99	5,70	*	*	11	121,57										
280	3,73	5,32	*	*	11	106,00										
280	3,73	5,32	*	*	11	91,55										
280	3,73	5,32	*	*	12	81,63										
280	3,46	4,94	*	*	12	72,81										
280	3,46	4,94	*	*	12	65,53										
280	3,46	4,94	*	*	12	60,78										
280	3,33	4,75	*	*	12	52,31										
280	3,33	4,75	*	*	12	43,52										
280	3,06	4,37	*	*	12	38,55										



ZG32																
Mt _{2max} [Nm]	(F _r =0)	(F _r =0)	(F _{ap} =0)	(F _{rp} =0)	j _t [']	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180	200
196	4,80	6,75	*	*	12	80,00										
260	4,80	6,75	*	*	12	71,27										
278	4,80	6,75	*	*	12	64,13										
280	4,80	6,75	*	*	12	59,39										
280	4,66	6,54	*	*	12	54,27										
280	4,66	6,54	*	*	12	46,28										
280	4,66	6,54	*	*	12	41,82										
280	4,37	6,13	*	*	12	38,04										
280	4,37	6,13	*	*	12	34,81										
280	4,37	6,13	*	*	12	32,73										
280	4,37	6,13	*	*	12	29,65										
280	4,07	5,72	*	*	12	26,06										
280	4,07	5,72	*	*	12	22,73										
280	4,07	5,72	*	*	12	20,96										
280	3,78	5,31	*	*	12	19,39										
267	3,78	5,31	*	*	12	16,73										
261	3,78	5,31	*	*	13	15,94										
255	3,64	5,11	*	*	13	14,29										
240	3,64	5,11	*	*	13	12,20										
231	3,35	4,70	*	*	13	10,48										
220	3,33	4,67	*	*	13	9,04										
208	3,33	4,67	*	*	13	7,45										

ZG43																
Mt _{zmax} [Nm]	(F _r =0)	(F _a =0)	(F _{rp} =0)	(F _{ap} =0)	j _t [°]	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180	200
420	5,04	7,33	*	*	10	468,02										
420	5,04	7,33	*	*	10	415,88										
420	5,04	7,33	*	*	10	382,92										
420	5,04	7,33	*	*	10	346,57										
420	4,89	7,11	*	*	10	307,60										
420	4,89	7,11	*	*	10	266,59										
420	4,89	7,11	*	*	10	239,93										
420	4,58	6,66	*	*	10	217,37										
420	4,58	6,66	*	*	10	198,04										
420	4,58	6,66	*	*	10	177,73										
420	4,58	6,66	*	*	10	168,16										
420	4,28	6,22	*	*	10	146,63										
420	4,28	6,22	*	*	10	126,63										
420	4,28	6,22	*	*	10	112,91										
420	3,97	5,77	*	*	10	100,71										
420	3,97	5,77	*	*	10	90,64										
420	3,97	5,77	*	*	11	84,08										
420	3,82	5,55	*	*	11	72,36										
420	3,82	5,55	*	*	11	60,20										
420	3,51	5,11	*	*	11	53,32										



ZG42																
Mt _{zmax} [Nm]	(F _r =0)	(F _r =0)	(F _{rp} =0)	(F _{rp} =0)	j _t [']	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180	200
420	5,52	7,72	*	*	11	72,99										
420	5,52	7,72	*	*	11	66,39										
420	5,52	7,72	*	*	11	61,76										
420	5,52	7,72	*	*	11	53,03										
420	5,35	7,48	*	*	11	48,09										
420	5,35	7,48	*	*	11	44,87										
420	5,35	7,48	*	*	11	40,77										
420	5,02	7,01	*	*	11	37,11										
420	5,02	7,01	*	*	11	33,78										
420	5,02	7,01	*	*	11	29,80										
420	5,02	7,01	*	*	11	27,05										
420	4,68	6,55	*	*	11	24,72										
420	4,68	6,55	*	*	11	23,35										
420	4,68	6,55	*	*	11	20,39										
420	4,35	6,08	*	*	11	18,12										
420	4,35	6,08	*	*	12	16,51										
402	4,35	6,08	*	*	12	14,34										
388	4,18	5,85	*	*	12	12,55										
369	4,18	5,85	*	*	12	10,37										
351	3,85	5,38	*	*	12	8,65										
333	3,82	5,34	*	*	12	7,25										
324	3,82	5,34	*	*	12	6,45										
206	5,19	7,25	*	*	12	40,08										
274	5,02	7,01	*	*	10	36,45										
300	5,02	7,01	*	*	10	33,91										
339	5,02	7,01	*	*	10	29,12										
371	4,85	6,78	*	*	10	26,41										
397	4,85	6,78	*	*	10	24,64										
399	4,85	6,78	*	*	10	22,39										
400	4,85	6,78	*	*	10	20,38										
400	4,68	6,55	*	*	10	18,55										
400	4,52	6,31	*	*	10	16,36										
400	4,52	6,31	*	*	10	14,85										
400	4,52	6,31	*	*	10	13,58										
400	4,52	6,31	*	*	10	12,82										
400	4,35	6,08	*	*	10	11,19										
396	4,35	6,08	*	*	10	9,95										
393	4,18	5,85	*	*	12	9,06										
386	4,18	5,85	*	*	12	7,87										
378	4,06	5,68	*	*	12	6,89										
365	3,94	5,51	*	*	12	5,70										
351	3,79	5,30	*	*	12	4,75										
336	3,79	5,30	*	*	12	3,98										
320	3,79	5,30	*	*	12	3,54										



ZG53																
Mt _{zmax} [Nm]	(F _i =0)	(F _s =0)	(F _{ap} =0)	(F _{rp} =0)	j _t [°]	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180	200
550	9,08	12,22	18,16	24,44	9	478,75										
550	9,08	12,22	18,16	24,44	9	425,43										
550	9,08	12,22	18,16	24,44	9	391,71										
550	9,08	12,22	18,16	24,44	9	354,52										
550	8,81	11,85	17,61	23,70	9	314,66										
550	8,81	11,85	17,61	23,70	9	272,71										
550	8,81	11,85	17,61	23,70	9	245,44										
550	8,25	11,11	16,51	22,22	9	222,36										
550	8,25	11,11	16,51	22,22	9	202,58										
550	8,25	11,11	16,51	22,22	9	181,81										
550	8,25	11,11	16,51	22,22	9	172,02										
550	7,70	10,37	15,41	20,74	9	149,99										
550	7,70	10,37	15,41	20,74	9	129,54										
550	7,70	10,37	15,41	20,74	9	115,50										
550	7,15	9,63	14,31	19,26	9	103,02										
550	7,15	9,63	14,31	19,26	9	92,72										
550	7,15	9,63	14,31	19,26	9	86,01										
550	6,88	9,26	13,76	18,52	9	74,02										
550	6,88	9,26	13,76	18,52	9	61,58										
550	6,33	8,52	12,66	17,04	9	54,54										

ZG52																
Mt _{zmax} [Nm]	(F _i =0)	(F _s =0)	(F _{ap} =0)	(F _{rp} =0)	j _t [°]	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180	200
412	10,48	12,73	20,95	25,46	10	74,67										
523	10,48	12,73	20,95	25,46	10	67,91										
539	10,48	12,73	20,95	25,46	10	63,18										
548	10,48	12,73	20,95	25,46	10	54,25										
550	10,16	12,34	20,32	24,69	10	49,19										
550	10,16	12,34	20,32	24,69	10	45,90										
550	10,16	12,34	20,32	24,69	10	41,71										
550	9,52	11,57	19,05	23,15	10	37,97										
550	9,52	11,57	19,05	23,15	10	34,55										
550	9,52	11,57	19,05	23,15	10	30,48										
550	9,52	11,57	19,05	23,15	10	27,67										
550	8,89	10,80	17,78	21,60	10	25,29										
550	8,89	10,80	17,78	21,60	11	23,88										
550	8,89	10,80	17,78	21,60	11	20,85										
550	8,25	10,03	16,51	20,06	11	18,54										
550	8,25	10,03	16,51	20,06	11	16,89										
526	8,25	10,03	16,51	20,06	11	14,67										
508	7,94	9,64	15,87	19,29	11	12,83										
483	7,94	9,64	15,87	19,29	11	10,61										
460	7,30	8,87	14,60	17,75	11	8,85										
436	7,26	8,82	14,51	17,64	11	7,42										
424	7,26	8,82	14,51	17,64	11	6,60										

ZG64															
Mt _{2max} [Nm]	(F _r =0)	(F _s =0)	(F _{ap} =0)	(F _{rp} =0)	j _t [']	i	IEC/SMB/SMR								
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180
820	10,12	13,28	20,23	26,55	9	958,04									
820	10,12	13,28	20,23	26,55	9	859,78									
820	10,12	13,28	20,23	26,55	9	813,48									
820	9,44	12,39	18,88	24,78	9	709,32									
820	9,44	12,39	18,88	24,78	9	612,59									
820	9,44	12,39	18,88	24,78	9	546,21									
820	8,77	11,51	17,53	23,01	9	487,21									
820	8,77	11,51	17,53	23,01	9	438,49									
820	8,77	11,51	17,53	23,01	9	406,74									
820	8,43	11,06	16,86	22,13	9	350,05									
820	8,43	11,06	16,86	22,13	9	291,22									
820	8,40	11,03	16,80	22,05	9	257,93									



ZG63															
Mt _{2max} [Nm]	(F _r =0)	(F _s =0)	(F _{ap} =0)	(F _{rp} =0)	j _t [']	i	IEC/SMB/SMR								
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180
820	11,27	13,91	22,53	27,82	9	535,33									
820	11,27	13,91	22,53	27,82	9	476,93									
820	11,27	13,91	22,53	27,82	9	429,15									
820	11,27	13,91	22,53	27,82	9	397,44									
820	10,92	13,49	21,85	26,97	9	363,13									
820	10,70	13,21	21,39	26,41	9	309,70									
820	10,54	13,02	21,08	26,03	9	279,83									
820	10,24	12,64	20,48	25,29	9	254,56									
820	10,24	12,64	20,48	25,29	9	232,90									
820	10,24	12,64	20,48	25,29	9	219,00									
820	10,24	12,64	20,48	25,29	9	198,41									
820	9,56	11,80	19,12	23,60	9	174,39									
820	9,56	11,80	19,12	23,60	9	152,08									
820	9,56	11,80	19,12	23,60	9	140,27									
820	8,88	10,96	17,75	21,92	9	129,78									
820	8,88	10,96	17,75	21,92	9	111,93									
820	8,88	10,96	17,75	21,92	10	106,69									
820	8,53	10,54	17,07	21,07	10	95,60									
820	8,53	10,54	17,07	21,07	10	81,63									
820	8,51	10,50	17,01	21,00	10	70,14									
820	8,51	10,50	17,01	21,00	10	60,50									
820	8,51	10,50	17,01	21,00	10	49,85									

ZG62																
Mt _{zmax} [Nm]	(F _r =0)	(F _r =0)	(F _{ap} =0)	(F _{rp} =0)	j _t [']	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180	200
820	12,00	14,64	24,01	29,28	11	65,26										
820	12,00	14,64	24,01	29,28	11	59,31										
820	12,00	14,64	24,01	29,28	11	54,28										
820	12,00	14,64	24,01	29,28	11	49,97										
820	11,64	14,20	23,28	28,39	11	45,63										
820	11,40	13,90	22,80	27,80	11	41,65										
814	11,23	13,70	22,47	27,40	11	37,51										
805	10,91	13,31	21,83	26,62	11	32,70										
797	10,91	13,31	21,83	26,62	11	30,77										
784	10,91	13,31	21,83	26,62	11	28,39										
761	10,91	13,31	21,83	26,62	11	25,55										
739	10,19	12,42	20,37	24,84	11	22,98										
720	10,19	12,42	20,37	24,84	11	21,45										
688	10,19	12,42	20,37	24,84	10	18,83										
661	9,46	11,53	18,92	23,07	10	16,66										
635	9,46	11,53	18,92	23,07	10	14,04										
612	9,46	11,53	18,92	23,07	10	11,96										
589	9,09	11,09	18,19	22,18	10	10,27										
566	9,09	11,09	18,19	22,18	10	8,86										
540	8,37	10,20	16,73	20,41	10	7,68										
525	8,31	10,14	16,63	20,28	10	6,37										
541	11,64	14,20	23,29	28,40	11	39,93										
622	11,64	14,20	23,29	28,40	11	36,29										
671	11,64	14,20	23,29	28,40	11	33,21										
717	11,48	14,00	22,96	28,00	11	30,58										
756	11,07	13,50	22,14	27,00	11	27,92										
800	11,07	13,50	22,14	27,00	11	25,48										
820	10,66	13,00	21,32	26,00	11	22,95										
820	10,25	12,50	20,50	25,00	11	20,01										
810	10,25	12,50	20,50	25,00	11	18,83										
800	9,68	11,80	19,35	23,60	11	17,37										
795	9,51	11,60	19,02	23,20	11	15,63										
782	9,51	11,60	19,02	23,20	11	14,06										
773	9,51	11,60	19,02	23,20	11	13,13										
761	9,18	11,20	18,37	22,40	11	11,52										
751	9,18	11,20	18,37	22,40	12	10,20										
735	9,18	11,20	18,37	22,40	12	8,59										
715	9,18	11,20	18,37	22,40	12	7,32										
688	9,10	11,10	18,20	22,20	12	6,28										
660	9,10	11,10	18,20	22,20	12	5,42										
635	9,02	11,00	18,04	22,00	12	4,70										
612	9,02	11,00	18,04	22,00	12	3,90										



ZG74															
Mt _{2max} [Nm]	(F _r =0)	(F _s =0)	(F _{rp} =0)	(F _{sp} =0)	j _t [']	i	IEC/SMB/SMR								
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180
1450	12,37	16,10	24,74	32,21	8	1812,60									
1450	11,99	15,62	23,99	31,23	8	1608,82									
1450	11,74	15,29	23,49	30,58	8	1394,31									
1450	11,57	15,07	23,15	30,14	8	1254,88									
1450	11,24	14,64	22,49	29,28	8	1136,90									
1450	11,24	14,64	22,49	29,28	8	1035,77									
1450	11,24	14,64	22,49	29,28	8	929,54									
1450	11,81	15,37	23,61	30,74	8	879,49									
1450	12,40	16,14	24,79	32,28	8	766,87									
1450	13,02	16,95	26,03	33,90	8	662,30									
1450	13,67	17,79	27,33	35,59	8	590,53									
1450	14,35	18,68	28,70	37,37	8	526,74									
1450	15,07	19,62	30,13	39,24	8	474,06									
1450	15,82	20,60	31,64	41,20	8	439,74									
1450	16,61	21,63	33,22	43,26	8	378,45									
1450	17,44	22,71	34,88	45,42	8	314,84									
1450	18,31	23,85	36,63	47,69	8	278,86									



ZG73															
Mt _{2max} [Nm]	(F _r =0)	(F _s =0)	(F _{rp} =0)	(F _{sp} =0)	j _t [']	i	IEC/SMB/SMR								
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180
1450	14,38	17,58	28,75	35,15	8	578,77									
1450	14,38	17,58	28,75	35,15	8	515,63									
1450	14,76	18,05	29,53	36,10	8	463,97									
1450	14,76	18,05	29,53	36,10	8	429,69									
1450	16,55	20,23	33,10	40,46	8	392,59									
1450	16,20	19,81	32,41	39,62	8	334,83									
1450	15,97	19,52	31,94	39,05	8	302,54									
1450	15,51	18,97	31,03	37,93	8	275,22									
1450	15,51	18,97	31,03	37,93	8	251,80									
1450	15,51	18,97	31,03	37,93	8	236,77									
1450	15,51	18,97	31,03	37,93	8	214,51									
1450	14,48	17,70	28,96	35,40	8	188,54									
1450	14,48	17,70	28,96	35,40	8	164,42									
1450	14,48	17,70	28,96	35,40	8	151,66									
1450	13,45	16,44	26,89	32,87	8	140,31									
1450	13,45	16,44	26,89	32,87	8	121,02									
1450	13,45	16,44	26,89	32,87	8	115,35									
1450	12,93	15,80	25,86	31,61	9	103,35									
1450	12,93	15,80	25,86	31,61	9	88,26									
1450	12,90	15,77	25,80	31,54	9	75,83									
1450	12,90	15,77	25,80	31,54	9	65,41									
1450	11,78	14,40	23,56	28,80	9	53,90									

ZG72																
Mt _{Zmax} [Nm]	(F _r =0)	(F _r =0)	(F _{ap} =0)	(F _{ap} =0)	j _t [°]	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180	200
1400	14,43	18,50	28,86	37,00	9	60,26										
1425	14,43	18,50	28,86	37,00	9	51,64										
1450	14,82	19,00	29,64	38,00	9	47,22										
1450	14,82	19,00	29,64	38,00	9	41,90										
1450	16,61	21,29	33,22	42,59	9	37,27										
1450	16,26	20,85	32,53	41,70	9	35,08										
1450	16,03	20,55	32,06	41,10	9	31,93										
1450	15,57	19,96	31,14	39,93	9	28,65										
1450	15,57	19,96	31,14	39,93	9	25,98										
1450	15,57	19,96	31,14	39,93	9	24,00										
1424	15,57	19,96	31,14	39,93	9	21,16										
1374	14,53	18,63	29,07	37,27	9	18,81										
1332	14,53	18,63	29,07	37,27	10	16,74										
1320	14,53	18,63	29,07	37,27	10	15,96										
1277	13,50	17,30	26,99	34,60	10	13,71										
1231	13,50	17,30	26,99	34,60	10	11,88										
1197	13,50	17,30	26,99	34,60	10	10,69										
1160	12,98	16,64	25,95	33,27	10	9,08										
1112	12,98	16,64	25,95	33,27	10	7,66										
1060	12,95	16,60	25,90	33,20	10	6,74										
1021	12,95	16,60	25,90	33,20	10	5,97										

ZG84																
Mt _{Zmax} [Nm]	(F _r =0)	(F _r =0)	(F _{ap} =0)	(F _{ap} =0)	j _t [°]	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180	200
1900	14,71	19,61	29,42	39,22	7	2626,39										
1900	14,71	19,61	29,42	39,22	7	2333,83										
1900	15,11	20,14	30,21	40,28	7	2148,87										
1900	15,11	20,14	30,21	40,28	7	1944,86										
1900	16,93	22,57	33,86	45,14	7	1726,21										
1900	16,58	22,10	33,15	44,20	7	1496,05										
1900	16,34	21,78	32,67	43,57	7	1346,44										
1900	15,87	21,16	31,74	42,32	7	1219,85										
1900	15,87	21,16	31,74	42,32	7	1111,35										
1900	15,87	21,16	31,74	42,32	7	997,36										
1900	15,87	21,16	31,74	42,32	7	943,66										
1900	14,81	19,75	29,63	39,50	7	822,83										
1900	14,81	19,75	29,63	39,50	7	710,62										
1900	14,81	19,75	29,63	39,50	7	633,62										
1900	13,75	18,34	27,51	36,68	7	565,17										
1900	13,75	18,34	27,51	36,68	7	508,66										
1900	13,75	18,34	27,51	36,68	7	471,83										
1900	13,73	18,30	27,45	36,60	7	406,07										
1900	13,73	18,30	27,45	36,60	7	337,82										
1900	13,73	18,30	27,45	36,60	7	299,21										

ZG83																
Mt _{2max} [Nm]	(F _r =0)	(F _r =0)	(F _{rp} =0)	(F _{rp} =0)	j _t [°]	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180	200
1900	16,76	22,55	33,51	45,10	7	621,00										
1900	16,76	22,55	33,51	45,10	7	553,25										
1900	17,21	23,16	34,42	46,32	7	497,83										
1900	17,21	23,16	34,42	46,32	7	461,05										
1900	17,46	23,50	34,92	47,00	7	421,24										
1900	18,65	25,10	37,30	50,20	7	359,26										
1900	18,61	25,05	37,22	50,10	7	324,61										
1900	18,08	24,34	36,16	48,67	7	295,30										
1900	18,08	24,34	36,16	48,67	7	270,18										
1900	18,08	24,34	36,16	48,67	7	254,05										
1900	18,08	24,34	36,16	48,67	7	230,16										
1900	16,88	22,71	33,75	45,43	7	202,30										
1900	16,88	22,71	33,75	45,43	7	176,42										
1900	16,88	22,71	33,75	45,43	7	162,72										
1900	15,67	21,09	31,34	42,18	7	150,55										
1900	15,67	21,09	31,34	42,18	7	129,85										
1900	15,67	21,09	31,34	42,18	8	123,77										
1900	15,75	21,20	31,50	42,40	8	110,89										
1900	15,75	21,20	31,50	42,40	8	94,70										
1900	15,75	21,20	31,50	42,40	8	81,36										
1900	15,75	21,20	31,50	42,40	8	70,19										
1900	15,75	21,20	31,50	42,40	8	57,83										



ZG82																
Mt _{zmax} [Nm]	(F _r =0)	(F _r =0)	(F _{ap} =0)	(F _{rp} =0)	j _t [']	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180	200
1900	21,24	25,90	42,48	51,80	8	64,66										
1900	21,24	25,90	42,48	51,80	8	55,41										
1900	21,81	26,60	43,62	53,20	8	50,66										
1900	21,81	26,60	43,62	53,20	8	44,95										
1900	24,45	29,81	48,89	59,62	8	39,99										
1900	23,94	29,19	47,87	58,38	8	37,64										
1900	23,59	28,77	47,18	57,54	8	34,26										
1900	22,92	27,95	45,84	55,90	8	30,74										
1900	22,92	27,95	45,84	55,90	8	27,88										
1900	22,92	27,95	45,84	55,90	8	25,75										
1857	22,92	27,95	45,84	55,90	8	22,70										
1808	21,39	26,09	42,78	52,17	8	20,18										
1780	21,39	26,09	42,78	52,17	8	17,96										
1764	21,39	26,09	42,78	52,17	8	17,13										
1720	19,86	24,22	39,72	48,44	8	14,71										
1675	19,86	24,22	39,72	48,44	8	12,74										
1644	19,86	24,22	39,72	48,44	8	11,47										
1608	19,10	23,29	38,20	46,58	8	9,74										
1563	19,10	23,29	38,20	46,58	9	8,21										
1520	19,06	23,24	38,11	46,48	9	7,23										
1464	19,06	23,24	38,11	46,48	9	6,40										
1720	23,70	28,90	47,40	57,80	8	38,20										
1763	23,70	28,90	47,40	57,80	8	32,74										
1784	23,70	28,90	47,40	57,80	8	29,93										
1810	22,14	27,00	44,28	54,00	8	26,56										
1830	22,14	27,00	44,28	54,00	8	23,63										
1832	22,14	27,00	44,28	54,00	8	22,24										
1808	21,32	26,00	42,64	52,00	8	20,24										
1786	21,32	26,00	42,64	52,00	8	18,16										
1756	21,32	26,00	42,64	52,00	8	16,47										
1716	20,66	25,20	41,33	50,40	8	15,21										
1682	20,66	25,20	41,33	50,40	8	13,41										
1655	19,93	24,30	39,85	48,60	9	11,92										
1627	19,93	24,30	39,85	48,60	9	10,61										
1619	19,27	23,50	38,54	47,00	9	10,12										
1581	19,27	23,50	38,54	47,00	9	8,69										
1541	18,86	23,00	37,72	46,00	9	7,53										
1499	18,86	23,00	37,72	46,00	9	6,78										
1480	18,08	22,05	36,16	44,10	9	5,75										
1460	17,88	21,80	35,75	43,60	9	4,85										
1440	17,88	21,80	35,75	43,60	9	4,27										
1407	17,88	21,80	35,75	43,60	9	3,78										



ZG94																
Mt _{2max} [Nm]	(F _r =0)	(F _r =0)	(F _{rp} =0)	(F _{rp} =0)	j _t [']	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180	200
3100	23,47	30,56	46,94	61,12	6	3086,81										
3100	23,47	30,56	46,94	61,12	6	2750,07										
3100	24,11	31,39	48,21	62,78	6	2474,55										
3100	24,11	31,39	48,21	62,78	6	2291,72										
3100	26,42	34,40	52,84	68,80	6	2093,85										
3100	26,45	34,44	52,91	68,89	6	1785,76										
3100	26,07	33,95	52,15	67,90	6	1613,56										
3100	25,96	33,80	51,92	67,60	6	1467,85										
3100	22,89	29,80	45,77	59,60	6	1342,96										
3100	22,89	29,80	45,77	59,60	6	1262,79										
3100	22,89	29,80	45,77	59,60	6	1144,06										
3100	23,64	30,78	47,28	61,56	6	1005,55										
3100	23,64	30,78	47,28	61,56	6	876,93										
3100	23,64	30,78	47,28	61,56	6	808,84										
3100	21,95	28,58	43,90	57,17	6	748,32										
3100	21,95	28,58	43,90	57,17	6	645,42										
3100	21,95	28,58	43,90	57,17	6	615,20										
3100	21,20	27,60	42,39	55,20	6	551,22										
3100	21,20	27,60	42,39	55,20	6	470,72										
3100	21,20	27,60	42,39	55,20	6	404,42										
3100	21,06	27,42	42,12	54,85	6	348,88										
3100	20,97	27,30	41,93	54,60	6	287,46										



ZG93																
Mt _{zmax} [Nm]	(F _a =0)	(F _r =0)	(F _{ap} =0)	(F _{rp} =0)	j _t [°]	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180	200
3100	23,58	30,70	47,16	61,40	6	376,28										
3100	23,58	30,70	47,16	61,40	6	342,00										
3100	23,58	30,70	47,16	61,40	6	313,00										
3100	24,27	31,60	48,54	63,20	6	288,14										
3100	27,49	35,80	54,99	71,60	6	263,08										
3100	27,49	35,80	54,99	71,60	6	240,15										
3100	27,90	36,33	55,80	72,65	6	216,31										
3100	27,78	36,17	55,55	72,33	6	188,54										
3100	24,49	31,89	48,98	63,77	6	177,45										
3100	24,49	31,89	48,98	63,77	6	163,69										
3100	24,49	31,89	48,98	63,77	6	147,33										
3100	25,29	32,94	50,59	65,87	6	132,51										
3100	25,29	32,94	50,59	65,87	6	123,69										
3100	25,29	32,94	50,59	65,87	6	108,57										
3100	23,49	30,58	46,98	61,17	6	96,08										
3100	23,49	30,58	46,98	61,17	6	80,95										
3100	23,49	30,58	46,98	61,17	6	68,95										
3100	22,68	29,53	45,36	59,06	6	59,19										
3100	22,68	29,53	45,36	59,06	6	51,11										
3100	22,68	29,53	45,36	59,06	6	44,31										
3100	22,54	29,34	45,07	58,69	6	36,75										



ZG92																
Mt _{zmax} [Nm]	(F _r =0)	(F _r =0)	(F _{ap} =0)	(F _{rp} =0)	j _t [']	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			80	90	100	112	132	160	180	200	225	250
3100	24,33	31,60	48,66	63,20	7	70,09										
3100	24,33	31,60	48,66	63,20	7	62,62										
3100	24,99	32,45	49,98	64,90	7	52,76										
3100	24,99	32,45	49,98	64,90	7	48,24										
3100	28,01	36,37	56,01	72,74	7	43,19										
3100	27,42	35,61	54,84	71,22	7	38,73										
3100	27,03	35,10	54,05	70,20	7	35,01										
3100	26,26	34,10	52,51	68,20	7	31,86										
3100	26,26	34,10	52,51	68,20	7	29,16										
3100	26,26	34,10	52,51	68,20	7	24,78										
3081	26,26	34,10	52,51	68,20	7	22,97										
3040	24,50	31,82	49,01	63,65	7	21,37										
2905	24,50	31,82	49,01	63,65	7	18,64										
2790	24,50	31,82	49,01	63,65	7	16,41										
2680	22,75	29,55	45,51	59,10	7	14,55										
2596	22,75	29,55	45,51	59,10	7	12,97										
2520	22,75	29,55	45,51	59,10	7	11,62										
2428	21,88	28,41	43,76	56,83	7	10,45										
2370	21,88	28,41	43,76	56,83	8	9,92										
2250	21,83	28,35	43,66	56,71	8	8,53										
2150	21,83	28,35	43,66	56,71	8	7,36										
2020	27,15	35,26	54,30	70,52	8	6,36										
1246	27,15	35,26	54,30	70,52	7	29,12										
1528	27,15	35,26	54,30	70,52	7	26,02										
1831	25,36	32,94	50,73	65,88	7	21,92										
1944	25,36	32,94	50,73	65,88	7	20,04										
2071	25,36	32,94	50,73	65,88	7	17,95										
2305	24,42	31,72	48,85	63,44	7	16,09										
2501	24,42	31,72	48,85	63,44	7	14,55										
2629	24,42	31,72	48,85	63,44	7	13,24										
2770	23,67	30,74	47,35	61,49	7	12,12										
2855	23,67	30,74	47,35	61,49	7	10,29										
2855	22,83	29,65	45,65	59,29	7	9,54										
2818	22,83	29,65	45,65	59,29	8	8,88										
2767	22,08	28,67	44,15	57,34	8	7,74										
2702	22,08	28,67	44,15	57,34	8	6,82										
2618	21,61	28,06	43,21	56,12	8	6,04										
2554	21,61	28,06	43,21	56,12	8	5,39										
2473	20,71	26,90	41,43	53,80	8	4,83										
2400	20,48	26,60	40,96	53,19	8	4,34										
2352	20,48	26,60	40,96	53,19	8	4,12										
2151	20,48	26,60	40,96	53,19	8	3,54										
1868	20,48	26,60	40,96	53,19	8	3,06										
1625	20,48	26,60	40,96	53,19	8	2,64										



ZG104															
Mt _{zmax} [Nm]	(F _r =0)	(F _s =0)	(F _{ap} =0)	(F _{rp} =0)	j _t [°]	i	IEC/SMB/SMR								
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180
4900	26,04	32,55	52,07	65,09	5	2893,14									
4900	26,04	32,55	52,07	65,09	5	2577,53									
4900	26,74	33,43	53,48	66,85	5	2319,30									
4900	26,74	33,43	53,48	66,85	5	2147,94									
4900	29,97	37,46	59,94	74,92	5	1962,48									
4900	29,34	36,68	58,69	73,36	5	1673,72									
4900	28,92	36,15	57,84	72,30	5	1512,32									
4900	28,10	35,12	56,19	70,24	5	1375,76									
4900	28,10	35,12	56,19	70,24	5	1258,71									
4900	28,10	35,12	56,19	70,24	5	1183,56									
4900	28,10	35,12	56,19	70,24	5	1072,28									
4900	26,22	32,78	52,45	65,56	5	942,46									
4900	26,22	32,78	52,45	65,56	5	821,92									
4900	26,22	32,78	52,45	65,56	5	758,10									
4900	24,35	30,44	48,70	60,88	5	701,37									
4900	24,35	30,44	48,70	60,88	5	604,93									
4900	24,35	30,44	48,70	60,88	5	576,61									
4900	23,41	29,27	46,83	58,53	5	516,63									
4900	23,41	29,27	46,83	58,53	5	441,18									
4900	23,36	29,20	46,73	58,41	5	379,05									
4900	23,36	29,20	46,73	58,41	5	326,99									
4900	25,20	31,50	50,40	63,00	5	269,43									



ZG103																
Mt _{zmax} [Nm]	(F _r =0)	(F _r =0)	(F _{rp} =0)	(F _{rp} =0)	j _t [']	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180	200
4900	27,59	33,85	55,17	67,70	5	352,68										
4900	27,59	33,85	55,17	67,70	5	320,55										
4900	28,33	34,76	56,66	69,53	5	293,36										
4900	28,33	34,76	56,66	69,53	5	270,06										
4900	31,75	38,96	63,51	77,92	5	246,57										
4900	31,09	38,15	62,18	76,29	5	225,08										
4900	30,64	37,60	61,29	75,20	5	202,74										
4900	29,77	36,53	59,54	73,05	5	176,71										
4900	29,77	36,53	59,54	73,05	5	166,32										
4900	29,77	36,53	59,54	73,05	5	153,42										
4900	29,77	36,53	59,54	73,05	5	138,08										
4900	27,78	34,09	55,57	68,18	5	124,20										
4900	27,78	34,09	55,57	68,18	5	115,93										
4900	27,78	34,09	55,57	68,18	5	101,76										
4900	25,80	31,66	51,60	63,31	5	90,05										
4900	25,80	31,66	51,60	63,31	5	75,87										
4900	25,80	31,66	51,60	63,31	5	64,62										
4900	24,81	30,44	49,61	60,88	5	55,48										
4900	24,81	30,44	49,61	60,88	5	47,91										
4900	24,75	30,37	49,51	60,74	5	41,53										
4900	24,75	30,37	49,51	60,74	5	34,44										



ZG102																
Mt _{zmax} [Nm]	(F _r =0)	(F _r =0)	(F _{ap} =0)	(F _{rp} =0)	j _t [']	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			71	80	90	100	112	132	160	180	200	225
4900	31,60	40,62	63,20	81,23	6	65,69										
4900	31,60	40,62	63,20	81,23	6	58,69										
4900	32,45	41,72	64,91	83,43	6	49,45										
4900	32,45	41,72	64,91	83,43	6	45,22										
4900	36,37	46,75	72,75	93,51	6	40,48										
4900	35,61	45,78	71,23	91,55	6	36,30										
4900	35,10	45,12	70,20	90,24	6	32,81										
4900	34,10	43,83	68,20	87,66	6	29,86										
4900	34,10	43,83	68,20	87,66	6	27,33										
4900	34,10	43,83	68,20	87,66	6	23,22										
4900	34,10	43,83	68,20	87,66	6	21,53										
4900	31,83	40,91	63,65	81,82	6	20,03										
4618	31,83	40,91	63,65	81,82	6	17,47										
4540	31,83	40,91	63,65	81,82	6	15,38										
4470	29,55	37,99	59,11	75,97	6	13,63										
4413	29,55	37,99	59,11	75,97	6	12,16										
4350	29,55	37,99	59,11	75,97	6	10,89										
4280	28,42	36,53	56,83	73,05	7	9,80										
4227	28,42	36,53	56,83	73,05	7	9,30										
4135	28,35	36,45	56,71	72,89	7	7,99										
4036	28,35	36,45	56,71	72,89	7	6,89										
3937	28,01	36,00	56,02	72,00	7	5,96										
2360	28,01	36,00	56,02	72,00	7	28,77										
2524	34,23	44,00	68,46	88,00	7	25,70										
3119	34,85	44,80	69,71	89,60	7	21,65										
3540	38,34	49,28	76,68	98,56	7	19,80										
3877	34,51	44,35	69,01	88,70	7	17,73										
4126	31,06	39,92	62,11	79,83	7	15,90										
4365	27,95	35,93	55,90	71,85	7	14,37										
4410	25,15	32,33	50,31	64,67	7	13,08										
4465	22,64	29,10	45,28	58,20	7	11,97										
4434	20,38	26,19	40,75	52,38	7	10,17										
4400	18,34	23,57	36,68	47,14	7	9,43										
4352	16,50	21,21	33,01	42,43	7	8,77										
4268	14,85	19,09	29,71	38,18	7	7,65										
4082	14,39	18,50	28,79	37,00	7	6,73										
3777	14,08	18,10	28,16	36,20	7	5,97										
3371	13,93	17,90	27,85	35,80	7	5,32										
3021	13,23	17,00	26,45	34,00	7	4,77										
2721	12,68	16,30	25,36	32,60	7	4,29										
2585	11,98	15,40	23,96	30,80	7	4,07										
2222	11,51	14,80	23,03	29,60	7	3,50										
1918	11,13	14,30	22,25	28,60	7	3,02										
1659	10,43	13,40	20,85	26,80	7	2,61										



ZG114																
Mt _{2max} [Nm]	(F _r =0)	(F _r =0)	(F _{rp} =0)	(F _{rp} =0)	j _t [']	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180	200
7952	35,03	46,71	*	*	5	3168,00										
8126	35,03	46,71	*	*	5	2822,40										
8196	35,98	47,97	*	*	5	2539,64										
8200	35,98	47,97	*	*	5	2352,00										
8200	40,32	53,77	*	*	5	2148,92										
8200	39,48	52,64	*	*	5	1832,73										
8200	38,91	51,89	*	*	5	1656,00										
8200	37,80	50,41	*	*	5	1506,46										
8200	37,80	50,41	*	*	5	1378,29										
8200	37,80	50,41	*	*	5	1296,00										
8200	37,80	50,41	*	*	5	1174,15										
8200	35,28	47,04	*	*	5	1032,00										
8200	35,28	47,04	*	*	5	900,00										
8200	35,28	47,04	*	*	5	830,12										
8200	32,76	43,68	*	*	5	768,00										
8200	32,76	43,68	*	*	5	662,40										
8200	32,76	43,68	*	*	5	631,38										
8200	31,50	42,00	*	*	5	565,71										
8200	31,50	42,00	*	*	5	483,10										
8200	31,43	41,91	*	*	5	415,06										
8200	31,43	41,91	*	*	5	358,05										
8200	31,05	41,40	*	*	5	295,02										



ZG113																
Mt _{zmax} [Nm]	(F _r =0)	(F _r =0)	(F _{ap} =0)	(F _{rp} =0)	j _t [°]	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180	200
8200	39,05	51,38	*	*	5	329,85										
8200	39,05	51,38	*	*	5	282,67										
8200	40,10	52,77	*	*	5	258,46										
8200	40,10	52,77	*	*	5	229,33										
8200	44,95	59,14	*	*	5	204,00										
8200	44,01	57,91	*	*	5	192,00										
8200	43,38	57,07	*	*	5	174,77										
8200	42,14	55,45	*	*	5	156,80										
8200	42,14	55,45	*	*	5	142,22										
8200	42,14	55,45	*	*	5	131,37										
8200	42,14	55,45	*	*	5	115,81										
8200	39,33	51,75	*	*	5	102,96										
8200	39,33	51,75	*	*	5	91,64										
8200	39,33	51,75	*	*	5	87,38										
8200	36,52	48,05	*	*	5	75,03										
8200	36,52	48,05	*	*	5	65,00										
8200	36,52	48,05	*	*	5	58,51										
8200	35,12	46,20	*	*	5	49,68										
8200	35,12	46,20	*	*	5	41,90										
8200	35,04	46,10	*	*	5	36,87										
8200	35,04	46,10	*	*	5	32,67										



ZG112																
Mt _{2max} [Nm]	(F _r =0)	(F _r =0)	(F _{rp} =0)	(F _{rp} =0)	j _t [']	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			80	90	100	112	132	160	180	200	225	250
5920	43,61	54,51	*	*	6	63,50										
6920	43,61	54,51	*	*	6	58,15										
7413	44,79	55,98	*	*	6	52,20										
7890	44,79	55,98	*	*	6	46,91										
7992	46,64	58,30	*	*	6	42,50										
8050	46,64	58,30	*	*	6	38,77										
8160	47,60	59,50	*	*	6	35,57										
8200	47,06	58,82	*	*	6	30,38										
8200	47,06	58,82	*	*	6	28,24										
8200	47,06	58,82	*	*	6	26,33										
8200	47,06	58,82	*	*	6	23,10										
8200	43,92	54,90	*	*	6	20,45										
8200	43,92	54,90	*	*	6	18,25										
8200	43,92	54,90	*	*	6	16,38										
8160	40,78	50,98	*	*	6	14,79										
8100	40,78	50,98	*	*	6	13,40										
8000	40,78	50,98	*	*	6	12,77										
7376	39,21	49,02	*	*	6	11,12										
6537	39,21	49,02	*	*	7	9,73										
5814	39,13	48,91	*	*	7	8,55										
4992	39,13	48,91	*	*	7	7,23										
4295	38,65	48,31	*	*	7	6,13										
3637	38,65	48,31	*	*	7	38,81										
4248	47,24	59,05	*	*	7	35,54										
4550	48,10	60,12	*	*	7	31,90										
5205	52,91	66,13	*	*	7	28,67										
5720	47,62	59,52	*	*	7	25,97										
6203	42,85	53,57	*	*	7	23,69										
6516	38,57	48,21	*	*	7	21,74										
6764	34,71	43,39	*	*	7	18,56										
6777	31,24	39,05	*	*	7	17,25										
6794	28,12	35,15	*	*	7	16,09										
6777	25,31	31,63	*	*	7	14,12										
6722	22,77	28,47	*	*	7	12,50										
6606	20,50	25,62	*	*	6	11,15										
6425	19,86	24,83	*	*	6	10,01										
5890	19,43	24,29	*	*	6	9,04										
5470	19,44	24,30	*	*	6	8,19										
5250	19,44	24,30	*	*	6	7,81										
4645	19,44	24,30	*	*	6	6,79										
4081	19,12	23,90	*	*	6	5,95										
3601	19,12	23,90	*	*	6	5,23										
3063	19,92	24,90	*	*	6	4,42										
2601	20,72	25,90	*	*	6	3,74										



ZG124																
Mt _{zmax} [Nm]	(F _a =0)	(F _r =0)	(F _{ap} =0)	(F _{rp} =0)	j _t [']	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180	200
13500	59,56	67,73	*	*	5	1547,69										
13500	59,56	67,73	*	*	5	1406,69										
13500	61,16	69,56	*	*	5	1287,38										
13500	61,16	69,56	*	*	5	1185,12										
13500	68,55	77,96	*	*	5	1082,07										
13500	67,12	76,33	*	*	5	987,73										
13500	66,15	75,23	*	*	5	889,70										
13500	64,27	73,09	*	*	5	775,48										
13500	64,27	73,09	*	*	5	729,87										
13500	64,27	73,09	*	*	5	673,29										
13500	64,27	73,09	*	*	5	605,96										
13500	59,98	68,22	*	*	5	545,04										
13500	59,98	68,22	*	*	5	508,76										
13500	59,98	68,22	*	*	5	446,57										
13500	55,70	63,34	*	*	5	395,19										
13500	55,00	63,00	*	*	5	332,94										
13500	54,80	62,80	*	*	5	283,58										
13500	54,50	62,50	*	*	5	243,47										
13500	54,00	62,40	*	*	5	210,23										
13500	54,00	62,00	*	*	5	182,24										
13500	53,80	60,00	*	*	5	151,15										



ZG123																
Mt _{2max} [Nm]	(F _r =0)	(F _s =0)	(F _{ap} =0)	(F _{rp} =0)	j _t [']	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			80	90	100	112	132	160	180	200	225	250
13500	66,38	60,16	*	*	6	288,28										
13500	68,18	60,16	*	*	6	257,55										
13500	68,18	67,42	*	*	6	216,99										
13500	76,41	66,01	*	*	6	198,43										
13500	74,82	65,06	*	*	6	177,65										
13500	73,74	63,21	*	*	6	159,29										
13500	71,64	63,21	*	*	6	143,99										
13500	71,64	63,21	*	*	6	131,04										
13500	71,64	63,21	*	*	6	119,94										
13500	71,64	58,99	*	*	6	101,91										
13500	66,86	58,99	*	*	6	94,48										
13500	66,86	58,99	*	*	6	87,88										
13500	66,86	54,78	*	*	6	76,66										
13500	62,08	54,78	*	*	6	67,48										
13410	62,08	54,78	*	*	6	59,83										
13331	62,08	52,67	*	*	6	53,35										
13199	59,70	52,67	*	*	6	47,80										
13000	59,70	52,56	*	*	6	42,99										
12752	59,57	52,56	*	*	6	40,82										
12200	59,57	52,40	*	*	6	35,07										
11756	59,40	52,10	*	*	6	30,26										
11096	59,20	51,80	*	*	6	26,16										



ZG122																
Mt _{2max} [Nm]	(F _r =0)	(F _s =0)	(F _{ap} =0)	(F _{rp} =0)	j _t [']	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			100	112	132	160	180	200	225	250	280	315
13500	67,59	70,86	*	*	7	36,23										
13500	67,59	70,86	*	*	7	31,02										
13500	69,42	72,78	*	*	7	28,88										
13000	69,42	72,78	*	*	7	26,97										
12380	72,29	75,79	*	*	7	23,73										
12190	72,29	75,79	*	*	7	21,07										
12000	73,78	77,35	*	*	7	18,86										
11857	72,94	76,47	*	*	7	16,99										
11710	72,94	76,47	*	*	7	15,39										
11522	72,94	76,47	*	*	7	14,00										
11439	72,94	76,47	*	*	7	13,37										
11228	68,08	71,37	*	*	7	11,71										
11002	68,08	71,37	*	*	7	10,32										
9741	68,08	71,37	*	*	7	9,14										
8326	63,21	66,27	*	*	7	7,81										
7148	63,21	66,27	*	*	7	6,70										
6151	63,21	66,27	*	*	7	5,77										

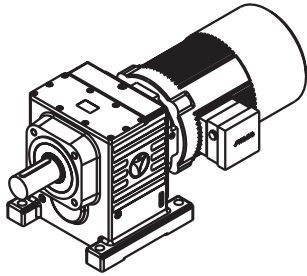
ZG134																
Mt _{zmax} [Nm]	(F _r =0)	(F _r =0)	(F _{ap} =0)	(F _{rp} =0)	j _t [']	i	IEC/SMB/SMR									
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			63	71	80	90	100	112	132	160	180	200
20000	101,24	91,43	*	*	5	1536,94										
20000	101,24	91,43	*	*	5	1396,92										
20000	103,98	93,91	*	*	5	1278,44										
20000	103,98	93,91	*	*	5	1176,89										
20000	108,50	105,25	*	*	5	1074,55										
20000	107,10	103,05	*	*	5	980,87										
20000	106,50	101,57	*	*	5	883,52										
20000	104,10	98,67	*	*	5	770,10										
20000	104,00	98,67	*	*	5	724,80										
20000	103,80	98,67	*	*	5	668,61										
20000	103,50	98,67	*	*	5	601,75										
20000	101,97	92,09	*	*	5	541,26										
20000	101,97	92,09	*	*	5	505,23										
20000	101,97	92,09	*	*	5	443,47										
20000	94,69	85,51	*	*	5	392,45										
20000	93,50	85,05	*	*	5	330,63										
20000	93,16	84,78	*	*	5	281,61										
20000	92,65	84,38	*	*	5	241,77										
20000	91,80	84,24	*	*	5	208,77										
20000	91,80	83,70	*	*	5	180,98										
20000	91,46	81,00	*	*	5	150,10										



ZG133															
Mt _{2max} [Nm]	(F _r =0)	(F _r =0)	(F _{rp} =0)	(F _{rp} =0)	j _t [']	i	IEC/SMB/SMR								
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			90	100	112	132	160	180	200	225	250
20000	96,26	84,22	*	*	6	286,28									
20000	98,86	84,22	*	*	6	255,76									
20000	98,86	94,39	*	*	6	215,49									
20000	102,80	92,42	*	*	6	197,05									
20000	98,50	91,09	*	*	6	176,42									
20000	97,90	88,49	*	*	6	158,18									
20000	97,90	88,49	*	*	6	142,99									
20000	97,90	88,49	*	*	6	130,13									
20000	97,90	88,49	*	*	6	119,11									
20000	97,90	82,59	*	*	6	101,20									
20000	96,95	82,59	*	*	6	93,82									
19783	96,95	82,59	*	*	6	87,27									
19512	96,95	76,69	*	*	6	76,13									
19200	90,02	76,69	*	*	6	67,01									
18860	90,02	76,69	*	*	6	59,41									
18550	90,02	73,74	*	*	6	52,98									
18300	86,56	73,74	*	*	6	47,47									
18010	86,56	73,58	*	*	6	42,69									
17880	86,37	73,58	*	*	6	40,54									
17530	86,37	73,36	*	*	6	34,83									
17150	86,13	72,94	*	*	6	30,05									
16802	85,84	72,52	*	*	6	25,98									

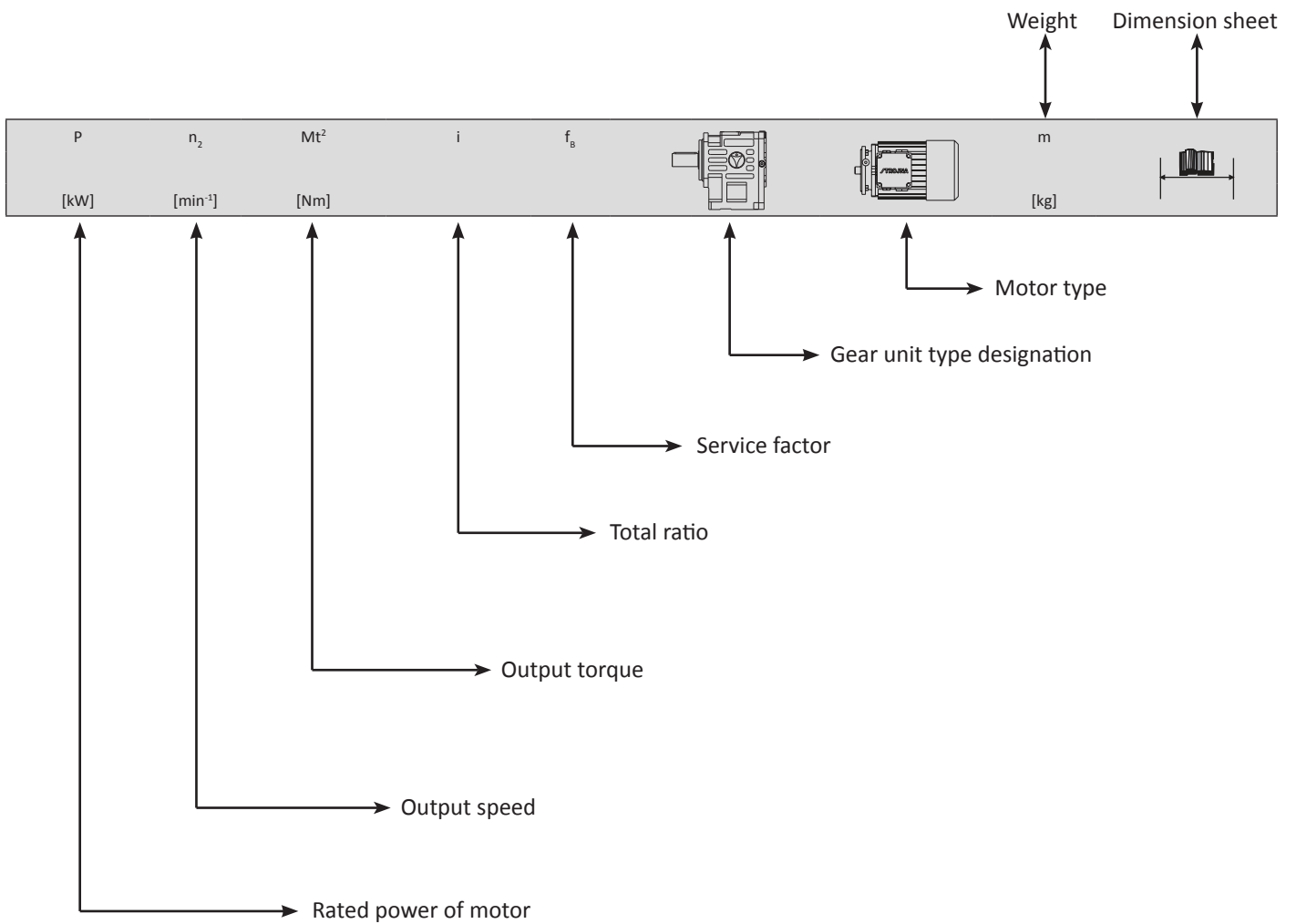


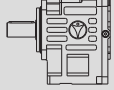


ZG132															
Mt _{2max} [Nm]	(F _r =0)	(F _r =0)	(F _{rp} =0)	(F _{rp} =0)	j _t [']	i	IEC/SMB/SMR								
	F _a [kN]	F _r [kN]	F _{ap} [kN]	F _{rp} [kN]			100	112	132	160	180	200	225	250	280
17426	91,25	88,58	*	*	7	35,98									
16813	91,25	88,58	*	*	7	30,81									
16431	93,71	90,97	*	*	7	28,68									
16060	93,71	90,97	*	*	7	26,78									
15807	97,59	94,74	*	*	7	23,56									
15491	97,59	94,74	*	*	7	20,93									
15314	99,60	96,69	*	*	7	18,73									
14992	98,47	95,58	*	*	7	16,88									
14652	98,47	95,58	*	*	7	15,28									
14421	98,47	95,58	*	*	7	13,90									
14359	98,47	95,58	*	*	7	13,28									
14159	91,90	89,21	*	*	7	11,63									
13693	91,90	89,21	*	*	7	10,25									
13447	91,90	89,21	*	*	7	9,07									
13234	85,34	82,84	*	*	7	7,76									
13123	85,34	82,84	*	*	7	6,66									
12822	85,34	82,84	*	*	7	5,73									

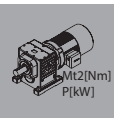


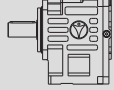


ZG

HELICAL GEAR UNITS

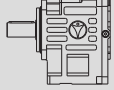




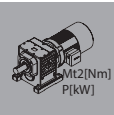
P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,12	0,41	2578	3168,00	3,08	ZG114	SMB	63A4	
	0,46	2298	2822,40	3,54	ZG114	SMB	63A4	
	0,52	2033	2539,64	4,03	ZG114	SMB	63A4	
	0,56	1888	2352,00	4,34	ZG114	SMB	63A4	
	0,61	1733	2148,92	4,73	ZG114	SMB	63A4	
	0,71	1489	1832,73	5,51	ZG114	SMB	63A4	
	0,79	1338	1656,00	6,13	ZG114	SMB	63A4	
	0,87	1215	1506,46	6,75	ZG114	SMB	63A4	344
	0,95	1113	1378,29	7,37	ZG114	SMB	63A4	318
	1,00	1057	1296,00	7,76	ZG114	SMB	63A4	
	1,10	961	1174,15	8,53	ZG114	SMB	63A4	
	1,30	813	1032,00	10,08	ZG114	SMB	63A4	
	1,50	705	900,00	11,64	ZG114	SMR	63A4	
	1,60	661	830,12	12,41	ZG114	SMR	63A4	
	1,70	622	768,00	13,19	ZG114	SMR	63A4	
	0,45	2349	2893,14	2,09	ZG104	SMB	63A4	
	0,51	2073	2577,53	2,36	ZG104	SMB	63A4	
	0,56	1888	2319,30	2,60	ZG104	SMB	63A4	
	0,61	1733	2147,94	2,83	ZG104	SMB	63A4	
	0,67	1578	1962,48	3,11	ZG104	SMB	63A4	
	0,78	1355	1673,72	3,62	ZG104	SMB	63A4	
	0,87	1215	1512,32	4,03	ZG104	SMB	63A4	
	0,95	1113	1375,76	4,40	ZG104	SMB	63A4	
	1,00	1057	1258,71	4,64	ZG104	SMB	63A4	
	1,10	961	1183,56	5,10	ZG104	SMB	63A4	229
	1,20	881	1072,28	5,56	ZG104	SMB	63A4	312
	1,40	755	942,46	6,49	ZG104	SMB	63A4	
	1,60	661	821,92	7,42	ZG104	SMR	63A4	
	1,70	622	758,10	7,88	ZG104	SMR	63A4	
	1,90	556	701,37	8,81	ZG104	SMR	63A4	
	2,20	480	604,93	10,20	ZG104	SMR	63A4	
	2,30	460	576,61	10,66	ZG104	SMR	63A4	
	2,50	423	516,63	11,59	ZG104	SMR	63A4	
	3,00	352	441,18	13,91	ZG104	SMR	63A4	
	0,42	2517	3086,81	1,23	ZG94	SMB	63A4	
	0,48	2202	2750,07	1,41	ZG94	SMB	63A4	
	0,53	1994	2474,55	1,55	ZG94	SMB	63A4	
	0,57	1854	2291,72	1,67	ZG94	SMB	63A4	
	0,63	1678	2093,85	1,85	ZG94	SMB	63A4	
	0,73	1448	1785,76	2,14	ZG94	SMB	63A4	
	0,81	1305	1613,56	2,38	ZG94	SMB	63A4	166
	0,89	1188	1467,85	2,61	ZG94	SMB	63A4	306
	0,98	1079	1342,96	2,87	ZG94	SMB	63A4	
	1,00	1057	1262,79	2,93	ZG94	SMB	63A4	
	1,10	961	1144,06	3,23	ZG94	SMB	63A4	
	1,30	813	1005,55	3,81	ZG94	SMB	63A4	
	1,50	705	876,93	4,40	ZG94	SMR	63A4	
	0,56	1888	2333,83	1,01	ZG84	SMB	63A4	71
								301

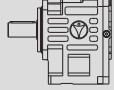




P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,12	0,61	1733	2148,87	1,10	ZG84	SMB 63A4		
	0,67	1578	1944,86	1,20	ZG84	SMB 63A4		
	0,76	1391	1726,21	1,37	ZG84	SMB 63A4		
	0,88	1201	1496,05	1,58	ZG84	SMB 63A4		
	0,97	1090	1346,44	1,74	ZG84	SMB 63A4		
	1,10	961	1219,85	1,98	ZG84	SMB 63A4		
	1,20	881	1111,35	2,16	ZG84	SMB 63A4	71	301
	1,30	813	997,36	2,34	ZG84	SMB 63A4		
	1,40	755	943,66	2,52	ZG84	SMB 63A4		
	1,60	661	822,83	2,88	ZG84	SMB 63A4		
	1,80	587	710,62	3,24	ZG84	SMR 63A4		
	2,10	503	633,62	3,77	ZG84	SMR 63A4		
	2,30	460	565,17	4,13	ZG84	SMR 63A4		
	2,10	514	621,00	3,70	ZG83	SMB 63A4		
	2,40	449	553,25	4,23	ZG83	SMB 63A4	69	300
0,72	1468	1812,60	0,99	ZG74	SMB 63A4			
0,81	1305	1608,82	1,11	ZG74	SMB 63A4			
0,94	1125	1394,31	1,29	ZG74	SMB 63A4			
1,00	1057	1254,88	1,37	ZG74	SMB 63A4			
1,20	881	1136,90	1,65	ZG74	SMB 63A4			
1,30	813	1035,77	1,78	ZG74	SMB 63A4			
1,40	755	929,54	1,92	ZG74	SMB 63A4			
1,50	705	879,49	2,06	ZG74	SMB 63A4	61	298	
1,70	622	766,87	2,33	ZG74	SMB 63A4			
2,00	529	662,30	2,74	ZG74	SMR 63A4			
2,20	480	590,53	3,02	ZG74	SMR 63A4			
2,50	423	526,74	3,43	ZG74	SMR 63A4			
2,80	378	474,06	3,84	ZG74	SMR 63A4			
3,00	352	439,74	4,12	ZG74	SMR 63A4			
2,30	469	578,77	3,09	ZG73	SMB 63A4			
2,50	431	515,63	3,36	ZG73	SMB 63A4			
2,80	385	463,97	3,76	ZG73	SMB 63A4	59	297	
3,00	360	429,69	4,03	ZG73	SMB 63A4			
3,30	327	392,59	4,44	ZG73	SMB 63A4			
1,40	755	958,04	1,09	ZG64	SMB 63A4			
1,50	705	859,78	1,16	ZG64	SMB 63A4			
1,60	661	813,48	1,24	ZG64	SMB 63A4			
1,80	587	709,32	1,40	ZG64	SMB 63A4			
2,10	503	612,59	1,63	ZG64	SMR 63A4			
2,40	440	546,21	1,86	ZG64	SMR 63A4			
2,70	391	487,21	2,09	ZG64	SMR 63A4	43	295	
3,00	352	438,49	2,33	ZG64	SMR 63A4			
3,20	330	406,74	2,48	ZG64	SMR 63A4			
3,70	286	350,05	2,87	ZG64	SMR 63A4			
4,50	235	291,22	3,49	ZG64	SMR 63A4			
5,10	207	257,93	3,96	ZG64	SMR 63A4			
2,40	449	535,33	1,82	ZG63	SMB 63A4			
2,70	399	476,93	2,05	ZG63	SMB 63A4	40	294	

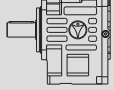




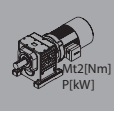
P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,12	3,10	348	429,15	2,36	ZG63	SMB 63A4		
	3,30	327	397,44	2,51	ZG63	SMB 63A4		
	3,60	300	363,13	2,74	ZG63	SMB 63A4		
	4,20	257	309,70	3,19	ZG63	SMB 63A4	40	294
	4,70	229	279,83	3,57	ZG63	SMB 63A4		
	5,10	211	254,56	3,88	ZG63	SMB 63A4		
	5,60	193	232,90	4,26	ZG63	SMB 63A4		
	2,70	399	478,75	1,38	ZG53	SMB 63A4		
	3,10	348	425,43	1,58	ZG53	SMB 63A4		
	3,30	327	391,71	1,68	ZG53	SMB 63A4		
	3,70	292	354,52	1,89	ZG53	SMB 63A4		
	4,20	257	314,66	2,14	ZG53	SMB 63A4		
	4,80	225	272,71	2,45	ZG53	SMB 63A4		
	5,30	204	245,44	2,70	ZG53	SMB 63A4	34	292
	5,90	183	222,36	3,01	ZG53	SMB 63A4		
	6,50	166	202,58	3,31	ZG53	SMB 63A4		
	7,20	150	181,81	3,67	ZG53	SMB 63A4		
	7,60	142	172,02	3,88	ZG53	SMB 63A4		
	8,70	124	149,99	4,44	ZG53	SMB 63A4		
	2,80	385	468,02	1,09	ZG43	SMB 63A4		
	3,10	348	415,88	1,21	ZG43	SMB 63A4		
	3,40	317	382,92	1,32	ZG43	SMB 63A4		
	3,80	284	346,57	1,48	ZG43	SMB 63A4		
	4,30	251	307,60	1,67	ZG43	SMB 63A4		
	4,90	220	266,59	1,91	ZG43	SMB 63A4		
	5,50	196	239,93	2,14	ZG43	SMB 63A4	26	290
	6,00	180	217,37	2,34	ZG43	SMB 63A4		
	6,60	163	198,04	2,57	ZG43	SMB 63A4		
	7,40	146	177,73	2,88	ZG43	SMB 63A4		
	7,80	138	168,16	3,04	ZG43	SMB 63A4		
	8,90	121	146,63	3,47	ZG43	SMB 63A4		
	10,00	108	126,63	3,89	ZG43	SMR 63A4		
	3,90	277	338,34	1,01	ZG33	SMB 63A4		
	4,40	245	300,65	1,14	ZG33	SMB 63A4		
	4,70	229	276,83	1,22	ZG33	SMB 63A4		
	5,20	207	250,55	1,35	ZG33	SMB 63A4		
	5,90	183	222,38	1,53	ZG33	SMB 63A4		
	6,80	159	192,73	1,77	ZG33	SMB 63A4		
	7,60	142	173,45	1,97	ZG33	SMB 63A4		
	8,30	130	157,15	2,15	ZG33	SMB 63A4	23	288
	9,20	117	143,17	2,39	ZG33	SMB 63A4		
	10,00	108	128,48	2,60	ZG33	SMB 63A4		
	11,00	98	121,57	2,86	ZG33	SMB 63A4		
	12,00	90	106,00	3,12	ZG33	SMB 63A4		
	14,00	77	91,55	3,63	ZG33	SMR 63A4		
	16,00	67	81,63	4,15	ZG33	SMR 63A4		
	16,00	69	80,00	2,85	ZG32	SMB 63A4	21	286
	18,00	61	71,27	4,25	ZG32	SMB 63A4		

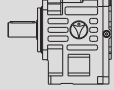




P	n ₂	Mt ₂	i	f _b			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
0,12	6,30	171	207,92	1,05	ZG23	SMB	63A4	18	286		
	7,30	148	180,20	1,22	ZG23	SMB	63A4				
	8,10	133	162,18	1,35	ZG23	SMB	63A4				
	8,90	121	146,93	1,49	ZG23	SMB	63A4				
	9,80	110	133,86	1,64	ZG23	SMB	63A4				
	11,00	98	120,13	1,84	ZG23	SMB	63A4				
	12,00	90	113,66	2,00	ZG23	SMB	63A4				
	13,00	83	99,11	2,17	ZG23	SMB	63A4				
	15,00	72	85,60	2,50	ZG23	SMR	63A4				
	17,00	63	76,32	2,84	ZG23	SMR	63A4				
	19,00	57	68,08	3,17	ZG23	SMR	63A4				
	21,00	51	61,27	3,50	ZG23	SMR	63A4				
	23,00	47	56,83	3,84	ZG23	SMR	63A4				
	27,00	40	48,91	4,51	ZG23	SMR	63A4				
	32,00	34	40,69	5,34	ZG23	SMR	63A4				
	36,00	30	36,04	6,01	ZG23	SMR	63A4				
	18,00	61	74,80	2,94	ZG22	SMB	63A4			16	285
	20,00	55	66,64	3,27	ZG22	SMB	63A4				
	22,00	50	59,96	3,60	ZG22	SMB	63A4				
	24,00	46	55,53	3,93	ZG22	SMB	63A4				
	26,00	42	50,74	4,25	ZG22	SMB	63A4				
	30,00	37	43,27	4,91	ZG22	SMB	63A4				
	34,00	32	39,10	5,56	ZG22	SMB	63A4				
	37,00	30	35,57	6,05	ZG22	SMB	63A4				
	40,00	28	32,54	6,54	ZG22	SMB	63A4				
	43,00	26	30,60	7,03	ZG22	SMB	63A4				
	47,00	23	27,72	7,69	ZG22	SMB	63A4				
	54,00	20	24,37	8,83	ZG22	SMB	63A4				
	62,00	18	21,25	10,14	ZG22	SMR	63A4				
	67,00	16	19,60	10,96	ZG22	SMR	63A4				
	72,00	15	18,13	11,71	ZG22	SMR	63A4				
	84,00	13	15,64	12,90	ZG22	SMR	63A4				
	88,00	13	14,91	13,27	ZG22	SMR	63A4				
	98,00	11	13,36	14,60	ZG22	SMR	63A4				
	33,00	33	39,47	3,03	ZG22	SMB	63A4				
	37,00	30	35,16	4,74	ZG22	SMB	63A4				
41,00	27	31,64	6,37	ZG22	SMB	63A4					
45,00	24	29,30	7,28	ZG22	SMB	63A4					
49,00	22	26,77	8,01	ZG22	SMB	63A4					
57,00	19	22,83	9,32	ZG22	SMB	63A4					
63,00	17	20,63	10,30	ZG22	SMB	63A4					
70,00	16	18,77	11,45	ZG22	SMB	63A4					
76,00	14	17,17	12,22	ZG22	SMB	63A4					
81,00	14	16,15	12,81	ZG22	SMB	63A4					
90,00	12	14,63	13,57	ZG22	SMB	63A4					
102,00	11	12,86	14,83	ZG22	SMB	63A4					
21,00	52	61,44	1,91	ZG12	SMB	63A4	12	284			
24,00	46	54,60	2,18	ZG12	SMB	63A4					

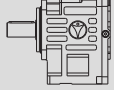




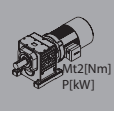
P	n ₂	Mt ₂	i	f _B			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
0,12	26,00	42	50,27	2,36	ZG12	SMB	63A4	12	284
	29,00	38	45,50	2,63	ZG12	SMB	63A4		
	32,00	34	41,38	2,91	ZG12	SMB	63A4		
	36,00	31	36,77	3,27	ZG12	SMB	63A4		
	39,00	28	33,86	3,54	ZG12	SMB	63A4		
	43,00	26	30,64	3,91	ZG12	SMB	63A4		
	48,00	23	27,20	4,36	ZG12	SMB	63A4		
	56,00	20	23,57	5,09	ZG12	SMB	63A4		
	62,00	18	21,21	5,63	ZG12	SMB	63A4		
	68,00	16	19,22	5,93	ZG12	SMB	63A4		
	75,00	15	17,51	6,41	ZG12	SMB	63A4		
	83,00	13	15,71	6,94	ZG12	SMB	63A4		
	88,00	13	14,87	7,04	ZG12	SMB	63A4		
	101,00	11	12,96	7,52	ZG12	SMB	63A4		
	117,00	9	11,20	8,19	ZG12	SMR	63A4		
	131,00	8	9,98	8,81	ZG12	SMR	63A4		
	147,00	7	8,90	9,48	ZG12	SMR	63A4		
	163,00	7	8,01	9,63	ZG12	SMR	63A4		
	176,00	6	7,43	9,75	ZG12	SMR	63A4		
	205,00	5	6,40	10,06	ZG12	SMR	63A4		
246,00	4	5,32	10,73	ZG12	SMR	63A4			
278,00	4	4,71	10,86	ZG12	SMR	63A4			
0,18	0,42	3775	3168,00	2,11	ZG114	SMB	63B4	345	318
	0,47	3374	2822,40	2,41	ZG114	SMB	63B4		
	0,52	3049	2539,64	2,69	ZG114	SMB	63B4		
	0,57	2782	2352,00	2,95	ZG114	SMB	63B4		
	0,62	2557	2148,92	3,21	ZG114	SMB	63B4		
	0,73	2172	1832,73	3,78	ZG114	SMB	63B4		
	0,80	1982	1656,00	4,14	ZG114	SMB	63B4		
	0,88	1802	1506,46	4,55	ZG114	SMB	63B4		
	0,96	1652	1378,29	4,96	ZG114	SMB	63B4		
	1,00	1586	1296,00	5,17	ZG114	SMB	63B4		
	1,10	1441	1174,15	5,69	ZG114	SMB	63B4		
	1,30	1220	1032,00	6,72	ZG114	SMB	63B4		
	1,50	1057	900,00	7,76	ZG114	SMR	63B4		
	1,60	991	830,12	8,27	ZG114	SMR	63B4		
	1,70	933	768,00	8,79	ZG114	SMR	63B4		
	2,00	793	662,40	10,34	ZG114	SMR	63B4		
	2,10	755	631,38	10,86	ZG114	SMR	63B4		
	2,40	661	565,71	12,41	ZG114	SMR	63B4		
	2,80	566	483,10	14,48	ZG114	SMR	63B4		
	0,46	3447	2893,14	1,42	ZG104	SMB	63B4		
0,52	3049	2577,53	1,61	ZG104	SMB	63B4			
0,57	2782	2319,30	1,76	ZG104	SMB	63B4			
0,62	2557	2147,94	1,92	ZG104	SMB	63B4			
0,68	2332	1962,48	2,10	ZG104	SMB	63B4			
0,79	2007	1673,72	2,44	ZG104	SMB	63B4			
0,88	1802	1512,32	2,72	ZG104	SMB	63B4			

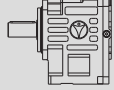




P	n_2	Mt_2	i	f_b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,18	0,97	1635	1375,76	3,00	ZG104	SMB	63B4	
	1,10	1441	1258,71	3,40	ZG104	SMB	63B4	
	1,10	1441	1183,56	3,40	ZG104	SMB	63B4	
	1,20	1321	1072,28	3,71	ZG104	SMB	63B4	
	1,40	1133	942,46	4,33	ZG104	SMB	63B4	
	1,60	991	821,92	4,94	ZG104	SMR	63B4	
	1,80	881	758,10	5,56	ZG104	SMR	63B4	
	1,90	835	701,37	5,87	ZG104	SMR	63B4	230
	2,20	721	604,93	6,80	ZG104	SMR	63B4	312
	2,30	689	576,61	7,11	ZG104	SMR	63B4	
	2,60	610	516,63	8,04	ZG104	SMR	63B4	
	3,00	529	441,18	9,27	ZG104	SMR	63B4	
	3,50	453	379,05	10,82	ZG104	SMR	63B4	
	4,10	387	326,99	12,67	ZG104	SMR	63B4	
	3,80	426	352,68	11,51	ZG103	SMB	63B4	
	4,10	395	320,55	12,42	ZG103	SMB	63B4	227
	4,50	360	293,36	13,63	ZG103	SMB	63B4	310
	4,90	330	270,06	14,84	ZG103	SMB	63B4	
	0,54	2936	2474,55	1,06	ZG94	SMB	63B4	
	0,58	2734	2291,72	1,13	ZG94	SMB	63B4	
0,64	2477	2093,85	1,25	ZG94	SMB	63B4		
0,74	2143	1785,76	1,45	ZG94	SMB	63B4		
0,82	1934	1613,56	1,60	ZG94	SMB	63B4		
0,91	1742	1467,85	1,78	ZG94	SMB	63B4		
0,99	1602	1342,96	1,94	ZG94	SMB	63B4		
1,10	1441	1262,79	2,15	ZG94	SMB	63B4	167	
1,20	1321	1144,06	2,35	ZG94	SMB	63B4	302	
1,30	1220	1005,55	2,54	ZG94	SMB	63B4		
1,50	1057	876,93	2,93	ZG94	SMR	63B4		
1,60	991	808,84	3,13	ZG94	SMR	63B4		
1,80	881	748,32	3,52	ZG94	SMR	63B4		
2,10	755	645,42	4,11	ZG94	SMR	63B4		
2,20	721	615,20	4,30	ZG94	SMR	63B4		
0,89	1782	1496,05	1,07	ZG84	SMB	63B4		
0,99	1602	1346,44	1,19	ZG84	SMB	63B4		
1,10	1441	1219,85	1,32	ZG84	SMB	63B4		
1,20	1321	1111,35	1,44	ZG84	SMB	63B4		
1,30	1220	997,36	1,56	ZG84	SMB	63B4		
1,40	1133	943,66	1,68	ZG84	SMB	63B4		
1,60	991	822,83	1,92	ZG84	SMB	63B4	72	
1,90	835	710,62	2,28	ZG84	SMR	63B4	301	
2,10	755	633,62	2,52	ZG84	SMR	63B4		
2,40	661	565,17	2,88	ZG84	SMR	63B4		
2,60	610	508,66	3,12	ZG84	SMR	63B4		
2,80	566	471,83	3,36	ZG84	SMR	63B4		
3,30	480	406,07	3,95	ZG84	SMR	63B4		
2,10	770	621,00	2,47	ZG83	SMB	63B4	70	
2,40	674	553,25	2,82	ZG83	SMB	63B4	300	

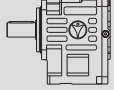




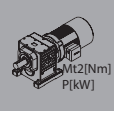
P	n ₂	Mt ₂	i	f _B			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
0,18	2,70	599	497,83	3,17	ZG83	SMB 63B4	70	300	
	2,90	558	461,05	3,41	ZG83	SMB 63B4			
	3,20	506	421,24	3,76	ZG83	SMB 63B4			
	3,70	437	359,26	4,35	ZG83	SMB 63B4			
1,10	1441	1254,88	1,01	ZG74	SMB 63B4	62	298		
1,20	1321	1136,90	1,10	ZG74	SMB 63B4				
1,30	1220	1035,77	1,19	ZG74	SMB 63B4				
1,40	1133	929,54	1,28	ZG74	SMB 63B4				
1,50	1057	879,49	1,37	ZG74	SMB 63B4				
1,70	933	766,87	1,55	ZG74	SMB 63B4				
2,00	793	662,30	1,83	ZG74	SMR 63B4				
2,30	689	590,53	2,10	ZG74	SMR 63B4				
2,50	634	526,74	2,29	ZG74	SMR 63B4				
2,80	566	474,06	2,56	ZG74	SMR 63B4				
3,00	529	439,74	2,74	ZG74	SMR 63B4				
3,50	453	378,45	3,20	ZG74	SMR 63B4				
4,20	378	314,84	3,84	ZG74	SMR 63B4				
4,80	330	278,86	4,39	ZG74	SMR 63B4				
2,30	703	578,77	2,06	ZG73	SMB 63B4			60	297
2,60	622	515,63	2,33	ZG73	SMB 63B4				
2,90	558	463,97	2,60	ZG73	SMB 63B4				
3,10	522	429,69	2,78	ZG73	SMB 63B4				
3,40	476	392,59	3,05	ZG73	SMB 63B4				
4,00	404	334,83	3,58	ZG73	SMB 63B4				
4,40	368	302,54	3,94	ZG73	SMB 63B4				
4,80	337	275,22	4,30	ZG73	SMB 63B4				
1,90	835	709,32	0,98	ZG64	SMB 63B4	43	295		
2,20	721	612,59	1,14	ZG64	SMR 63B4				
2,40	661	546,21	1,24	ZG64	SMR 63B4				
2,70	587	487,21	1,40	ZG64	SMR 63B4				
3,00	529	438,49	1,55	ZG64	SMR 63B4				
3,30	480	406,74	1,71	ZG64	SMR 63B4				
3,80	417	350,05	1,97	ZG64	SMR 63B4				
4,60	345	291,22	2,38	ZG64	SMR 63B4				
5,20	305	257,93	2,69	ZG64	SMR 63B4				
2,50	647	535,33	1,27	ZG63	SMB 63B4			40	294
2,80	578	476,93	1,42	ZG63	SMB 63B4				
3,10	522	429,15	1,57	ZG63	SMB 63B4				
3,30	490	397,44	1,67	ZG63	SMB 63B4				
3,70	437	363,13	1,88	ZG63	SMB 63B4				
4,30	376	309,70	2,18	ZG63	SMB 63B4				
4,80	337	279,83	2,43	ZG63	SMB 63B4				
5,20	311	254,56	2,64	ZG63	SMB 63B4				
5,70	284	232,90	2,89	ZG63	SMB 63B4				
6,10	265	219,00	3,09	ZG63	SMB 63B4				
6,70	241	198,41	3,40	ZG63	SMB 63B4				
7,60	213	174,39	3,85	ZG63	SMB 63B4				
8,70	186	152,08	4,41	ZG63	SMR 63B4				

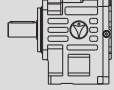




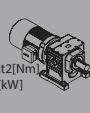
P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
0,18	2,80	578	478,75	0,95	ZG53	SMB	63B4		
	3,10	522	425,43	1,05	ZG53	SMB	63B4		
	3,40	476	391,71	1,16	ZG53	SMB	63B4		
	3,80	426	354,52	1,29	ZG53	SMB	63B4		
	4,20	385	314,66	1,43	ZG53	SMB	63B4		
	4,90	330	272,71	1,67	ZG53	SMB	63B4		
	5,40	300	245,44	1,84	ZG53	SMB	63B4		
	6,00	270	222,36	2,04	ZG53	SMB	63B4	35	292
	6,60	245	202,58	2,24	ZG53	SMB	63B4		
	7,30	222	181,81	2,48	ZG53	SMB	63B4		
	7,70	210	172,02	2,62	ZG53	SMB	63B4		
	8,90	182	149,99	3,03	ZG53	SMB	63B4		
	10,00	162	129,54	3,40	ZG53	SMR	63B4		
	12,00	135	115,50	4,08	ZG53	SMR	63B4		
	13,00	124	103,02	4,42	ZG53	SMR	63B4		
	18,00	92	74,67	4,49	ZG52	SMB	63B4	32	291
	3,80	426	346,57	0,99	ZG43	SMB	63B4		
	4,30	376	307,60	1,12	ZG43	SMB	63B4		
5,00	324	266,59	1,30	ZG43	SMB	63B4			
5,50	294	239,93	1,43	ZG43	SMB	63B4			
6,10	265	217,37	1,58	ZG43	SMB	63B4			
6,70	241	198,04	1,74	ZG43	SMB	63B4			
7,50	216	177,73	1,95	ZG43	SMB	63B4			
7,90	205	168,16	2,05	ZG43	SMB	63B4	27	290	
9,10	178	146,63	2,36	ZG43	SMB	63B4			
11,00	147	126,63	2,86	ZG43	SMR	63B4			
12,00	135	112,91	3,12	ZG43	SMR	63B4			
13,00	124	100,71	3,37	ZG43	SMR	63B4			
15,00	108	90,64	3,89	ZG43	SMR	63B4			
16,00	101	84,08	4,15	ZG43	SMR	63B4			
33,00	50	40,08	4,12	ZG42	SMB	63B4	24	289	
6,00	270	222,38	1,04	ZG33	SMB	63B4			
6,90	234	192,73	1,19	ZG33	SMB	63B4			
7,70	210	173,45	1,33	ZG33	SMB	63B4			
8,50	190	157,15	1,47	ZG33	SMB	63B4			
9,30	174	143,17	1,61	ZG33	SMB	63B4			
10,00	162	128,48	1,73	ZG33	SMB	63B4			
11,00	147	121,57	1,90	ZG33	SMB	63B4			
13,00	124	106,00	2,25	ZG33	SMB	63B4	23	288	
15,00	108	91,55	2,60	ZG33	SMR	63B4			
16,00	101	81,63	2,77	ZG33	SMR	63B4			
18,00	90	72,81	3,12	ZG33	SMR	63B4			
20,00	81	65,53	3,46	ZG33	SMR	63B4			
22,00	74	60,78	3,81	ZG33	SMR	63B4			
25,00	65	52,31	4,33	ZG33	SMR	63B4			
17,00	97	80,00	2,02	ZG32	SMB	63B4			
19,00	87	71,27	2,99	ZG32	SMB	63B4	21	287	
21,00	79	64,13	3,54	ZG32	SMB	63B4			

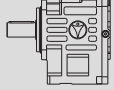




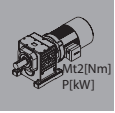
P	n ₂	Mt ₂	i	f _B			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
0,18	22,00	75	59,39	3,73	ZG32	SMB 63B4	21	287		
	25,00	66	54,27	4,24	ZG32	SMB 63B4				
	9,10	178	146,93	1,01	ZG23	SMB 63B4	18	286		
	9,90	163	133,86	1,10	ZG23	SMB 63B4				
	11,00	147	120,13	1,22	ZG23	SMB 63B4				
	12,00	135	113,66	1,34	ZG23	SMB 63B4				
	13,00	124	99,11	1,45	ZG23	SMB 63B4				
	16,00	101	85,60	1,78	ZG23	SMR 63B4				
	17,00	95	76,32	1,89	ZG23	SMR 63B4				
	20,00	81	68,08	2,23	ZG23	SMR 63B4				
	22,00	74	61,27	2,45	ZG23	SMR 63B4				
	23,00	70	56,83	2,56	ZG23	SMR 63B4				
	27,00	60	48,91	3,00	ZG23	SMR 63B4				
	33,00	49	40,69	3,67	ZG23	SMR 63B4				
	37,00	44	36,04	4,12	ZG23	SMR 63B4				
	18,00	92	74,80	1,96	ZG22	SMB 63B4			16	285
	20,00	83	66,64	2,18	ZG22	SMB 63B4				
	22,00	75	59,96	2,40	ZG22	SMB 63B4				
	24,00	69	55,53	2,62	ZG22	SMB 63B4				
	26,00	63	50,74	2,83	ZG22	SMB 63B4				
	31,00	53	43,27	3,38	ZG22	SMB 63B4				
	34,00	49	39,10	3,71	ZG22	SMB 63B4				
	37,00	45	35,57	4,03	ZG22	SMB 63B4				
	41,00	40	32,54	4,47	ZG22	SMB 63B4				
	43,00	38	30,60	4,69	ZG22	SMB 63B4				
	48,00	34	27,72	5,23	ZG22	SMB 63B4				
	55,00	30	24,37	6,00	ZG22	SMB 63B4				
	63,00	26	21,25	6,87	ZG22	SMR 63B4				
	68,00	24	19,60	7,41	ZG22	SMR 63B4				
	73,00	23	18,13	7,91	ZG22	SMR 63B4				
	85,00	19	15,64	8,70	ZG22	SMR 63B4				
	89,00	19	14,91	8,95	ZG22	SMR 63B4				
	100,00	17	13,36	9,93	ZG22	SMR 63B4				
	117,00	14	11,41	10,91	ZG22	SMR 63B4				
	136,00	12	9,80	12,19	ZG22	SMR 63B4				
	157,00	11	8,45	13,41	ZG22	SMR 63B4				
	34,00	49	39,47	2,08	ZG22	SMB 63B4				
	38,00	43	35,16	3,25	ZG22	SMB 63B4				
	42,00	39	31,64	4,35	ZG22	SMB 63B4				
	45,00	37	29,30	4,85	ZG22	SMB 63B4				
	50,00	33	26,77	5,45	ZG22	SMB 63B4				
	58,00	28	22,83	6,32	ZG22	SMB 63B4				
	64,00	26	20,63	6,98	ZG22	SMB 63B4				
	71,00	23	18,77	7,74	ZG22	SMB 63B4				
	77,00	21	17,17	8,26	ZG22	SMB 63B4				
	82,00	20	16,15	8,64	ZG22	SMB 63B4				
	91,00	18	14,63	9,15	ZG22	SMB 63B4				
	103,00	16	12,86	9,98	ZG22	SMB 63B4				

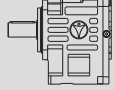




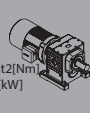
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,18	119,00	14	11,21	11,10	ZG22	SMR 63B4	16	285
	129,00	13	10,34	11,88	ZG22	SMR 63B4		
	139,00	12	9,57	12,46	ZG22	SMR 63B4		
	161,00	10	8,25	13,75	ZG22	SMR 63B4		
	169,00	10	7,87	14,02	ZG22	SMR 63B4		
	22,00	75	61,44	1,33	ZG12	SMB 63B4	12	284
	24,00	69	54,60	1,45	ZG12	SMB 63B4		
	26,00	63	50,27	1,57	ZG12	SMB 63B4		
	29,00	57	45,50	1,76	ZG12	SMB 63B4		
	33,00	50	40,38	2,00	ZG12	SMB 63B4		
	38,00	43	35,00	2,30	ZG12	SMB 63B4		
	42,00	39	31,50	2,54	ZG12	SMB 63B4		
	47,00	35	28,54	2,85	ZG12	SMB 63B4		
	51,00	32	26,00	3,09	ZG12	SMB 63B4		
	57,00	29	23,33	3,45	ZG12	SMB 63B4		
	60,00	28	22,08	3,63	ZG12	SMB 63B4		
	69,00	24	19,25	4,01	ZG12	SMB 63B4		
	80,00	21	16,63	4,41	ZG12	SMR 63B4		
	90,00	18	14,82	4,74	ZG12	SMR 63B4		
	101,00	16	13,22	5,14	ZG12	SMR 63B4		
	112,00	15	11,90	5,36	ZG12	SMR 63B4		
	120,00	14	11,04	5,52	ZG12	SMR 63B4		
	140,00	12	9,50	6,28	ZG12	SMR 63B4		
	168,00	10	7,90	6,92	ZG12	SMR 63B4		
	190,00	9	7,00	7,02	ZG12	SMR 63B4		
	32,00	52	41,38	1,94	ZG12	SMB 63B4		
	36,00	46	36,77	2,18	ZG12	SMB 63B4		
	39,00	42	33,86	2,36	ZG12	SMB 63B4		
	43,00	38	30,64	2,60	ZG12	SMB 63B4		
	49,00	34	27,20	2,97	ZG12	SMB 63B4		
	56,00	29	23,57	3,39	ZG12	SMB 63B4		
	63,00	26	21,21	3,82	ZG12	SMB 63B4		
	69,00	24	19,22	4,01	ZG12	SMB 63B4		
76,00	22	17,51	4,33	ZG12	SMB 63B4			
85,00	19	15,71	4,74	ZG12	SMB 63B4			
89,00	19	14,87	4,74	ZG12	SMB 63B4			
103,00	16	12,96	5,12	ZG12	SMB 63B4			
119,00	14	11,20	5,55	ZG12	SMR 63B4			
133,00	12	9,98	5,96	ZG12	SMR 63B4			
149,00	11	8,90	6,41	ZG12	SMR 63B4			
166,00	10	8,01	6,54	ZG12	SMR 63B4			
179,00	9	7,43	6,61	ZG12	SMR 63B4			
208,00	8	6,40	6,80	ZG12	SMR 63B4			
250,00	7	5,32	7,27	ZG12	SMR 63B4			
282,00	6	4,71	7,34	ZG12	SMR 63B4			
0,25	0,42	5243	3168,00	1,52	ZG114	SMB 71A4	345	318
	0,47	4685	2822,40	1,73	ZG114	SMB 71A4		
	0,53	4155	2539,64	1,97	ZG114	SMB 71A4		

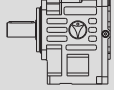




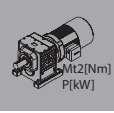
P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,25	0,57	3863	2352,00	2,12	ZG114	SMB 71A4		
	0,62	3552	2148,92	2,31	ZG114	SMB 71A4		
	0,73	3017	1832,73	2,72	ZG114	SMB 71A4		
	0,81	2719	1656,00	3,02	ZG114	SMB 71A4		
	0,89	2474	1506,46	3,31	ZG114	SMB 71A4		
	0,97	2270	1378,29	3,61	ZG114	SMB 71A4		
	1,00	2202	1296,00	3,72	ZG114	SMB 71A4		
	1,10	2002	1174,15	4,10	ZG114	SMB 71A4		
	1,30	1694	1032,00	4,84	ZG114	SMB 71A4	345	318
	1,50	1468	900,00	5,59	ZG114	SMB 71A4		
	1,60	1376	830,12	5,96	ZG114	SMB 71A4		
	1,70	1295	768,00	6,33	ZG114	SMB 71A4		
	2,00	1101	662,40	7,45	ZG114	SMB 71A4		
	2,10	1049	631,38	7,82	ZG114	SMB 71A4		
	2,40	918	565,71	8,94	ZG114	SMB 71A4		
	2,80	786	483,10	10,43	ZG114	SMB 71A4		
	3,20	688	415,06	11,92	ZG114	SMB 71A4		
	3,70	595	358,05	13,78	ZG114	SMB 71A4		
	0,46	4787	2893,14	1,02	ZG104	SMB 71A4		
	0,52	4235	2577,53	1,16	ZG104	SMB 71A4		
	0,58	3797	2319,30	1,29	ZG104	SMB 71A4		
	0,62	3552	2147,94	1,38	ZG104	SMB 71A4		
	0,68	3238	1962,48	1,51	ZG104	SMB 71A4		
	0,80	2753	1673,72	1,78	ZG104	SMB 71A4		
	0,89	2474	1512,32	1,98	ZG104	SMB 71A4		
	0,97	2270	1375,76	2,16	ZG104	SMB 71A4		
	1,10	2002	1258,71	2,45	ZG104	SMB 71A4		
	1,20	1835	1072,28	2,67	ZG104	SMB 71A4	230	312
	1,40	1573	942,46	3,12	ZG104	SMB 71A4		
	1,60	1376	821,92	3,56	ZG104	SMB 71A4		
	1,80	1223	758,10	4,01	ZG104	SMB 71A4		
	1,90	1159	701,37	4,23	ZG104	SMB 71A4		
	2,20	1001	604,93	4,90	ZG104	SMB 71A4		
	2,30	957	576,61	5,12	ZG104	SMB 71A4		
	2,60	847	516,63	5,79	ZG104	SMB 71A4		
	3,00	734	441,18	6,68	ZG104	SMB 71A4		
	3,50	629	379,05	7,79	ZG104	SMB 71A4		
	4,10	537	326,99	9,12	ZG104	SMB 71A4		
	3,80	591	352,68	8,29	ZG103	SMB 71A4		
	4,20	535	320,55	9,16	ZG103	SMB 71A4		
	4,60	488	293,36	10,03	ZG103	SMB 71A4		
	5,00	449	270,06	10,90	ZG103	SMB 71A4	227	310
	5,40	416	246,57	11,78	ZG103	SMB 71A4		
	6,00	375	225,08	13,08	ZG103	SMB 71A4		
	6,60	340	202,74	14,39	ZG103	SMB 71A4		
	0,75	2936	1785,76	1,06	ZG94	SMB 71A4		
	0,83	2653	1613,56	1,17	ZG94	SMB 71A4	167	306
	0,91	2420	1467,85	1,28	ZG94	SMB 71A4		

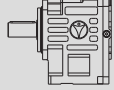




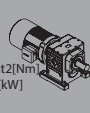
P	n ₂	Mt ₂	i	f _b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
0,25	1,00	2202	1342,96	1,41		ZG94	SMB	71A4	167	306
	1,10	2002	1262,79	1,55		ZG94	SMB	71A4		
	1,20	1835	1144,06	1,69		ZG94	SMB	71A4		
	1,30	1694	1005,55	1,83		ZG94	SMB	71A4		
	1,50	1468	876,93	2,11		ZG94	SMB	71A4		
	1,70	1295	808,84	2,39		ZG94	SMB	71A4		
	1,80	1223	748,32	2,53		ZG94	SMB	71A4		
	2,10	1049	645,42	2,96		ZG94	SMB	71A4		
	2,20	1001	615,20	3,10		ZG94	SMB	71A4		
	2,40	918	551,22	3,38		ZG94	SMB	71A4		
	2,80	786	470,72	3,94		ZG94	SMB	71A4		
	1,20	1835	1111,35	1,04		ZG84	SMB	71A4	72	301
	1,30	1694	997,36	1,12		ZG84	SMB	71A4		
	1,40	1573	943,66	1,21		ZG84	SMB	71A4		
	1,60	1376	822,83	1,38		ZG84	SMB	71A4		
	1,90	1159	710,62	1,64		ZG84	SMB	71A4		
	2,10	1049	633,62	1,81		ZG84	SMB	71A4		
	2,40	918	565,17	2,07		ZG84	SMB	71A4		
	2,60	847	508,66	2,24		ZG84	SMB	71A4		
	2,80	786	471,83	2,42		ZG84	SMB	71A4		
3,30	667	406,07	2,85	ZG84	SMB	71A4				
4,00	551	337,82	3,45	ZG84	SMB	71A4				
4,50	489	299,21	3,88	ZG84	SMB	71A4				
2,20	1021	621,00	1,86	ZG83	SMB	71A4	70	300		
2,40	936	553,25	2,03	ZG83	SMB	71A4				
2,70	832	497,83	2,28	ZG83	SMB	71A4				
2,90	775	461,05	2,45	ZG83	SMB	71A4				
3,20	702	421,24	2,71	ZG83	SMB	71A4				
3,70	607	359,26	3,13	ZG83	SMB	71A4				
4,10	548	324,61	3,47	ZG83	SMB	71A4				
4,50	499	295,30	3,80	ZG83	SMB	71A4				
5,00	449	270,18	4,23	ZG83	SMB	71A4				
5,30	424	254,05	4,48	ZG83	SMB	71A4				
1,50	1468	879,49	0,99	ZG74	SMB	71A4	62	298		
1,70	1295	766,87	1,12	ZG74	SMB	71A4				
2,00	1101	662,30	1,32	ZG74	SMB	71A4				
2,30	957	590,53	1,51	ZG74	SMB	71A4				
2,50	881	526,74	1,65	ZG74	SMB	71A4				
2,80	786	474,06	1,84	ZG74	SMB	71A4				
3,00	734	439,74	1,98	ZG74	SMB	71A4				
3,50	629	378,45	2,30	ZG74	SMB	71A4				
4,30	512	314,84	2,83	ZG74	SMB	71A4				
4,80	459	278,86	3,16	ZG74	SMB	71A4				
2,30	977	578,77	1,48	ZG73	SMB	71A4	60	297		
2,60	864	515,63	1,68	ZG73	SMB	71A4				
2,90	775	463,97	1,87	ZG73	SMB	71A4				
3,10	725	429,69	2,00	ZG73	SMB	71A4				
3,40	661	392,59	2,19	ZG73	SMB	71A4				




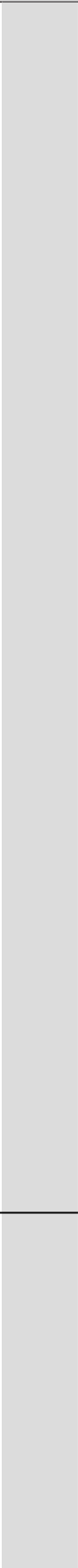


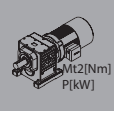
P	n ₂	Mt ₂	i	f _b			m					
[kW]	[min ⁻¹]	[Nm]					[kg]					
0,25	4,00	562	334,83	2,58	ZG73	SMB	71A4	60	297			
	4,40	511	302,54	2,84		SMB	71A4					
	4,90	459	275,22	3,16		SMB	71A4					
	5,30	424	251,80	3,42		SMB	71A4					
	5,70	394	236,77	3,68		SMB	71A4					
	6,20	362	214,51	4,00		SMB	71A4					
	2,80	786	487,21	1,04	ZG64	SMB	71A4	44	295			
	3,10	710	438,49	1,15		SMB	71A4					
	3,30	667	406,74	1,23		SMB	71A4					
	3,80	580	350,05	1,41		SMB	71A4					
	4,60	479	291,22	1,71		SMB	71A4					
	5,20	423	257,93	1,94		SMB	71A4					
	2,80	803	476,93	1,02	ZG63	SMB	71A4	41	294			
	3,10	725	429,15	1,13		SMB	71A4					
	3,40	661	397,44	1,24		SMB	71A4					
	3,70	607	363,13	1,35		SMB	71A4					
	4,30	523	309,70	1,57		SMB	71A4					
	4,80	468	279,83	1,75		SMB	71A4					
	5,30	424	254,56	1,93		SMB	71A4					
	5,80	387	232,90	2,12		SMB	71A4					
	6,10	368	219,00	2,23		SMB	71A4					
	6,80	330	198,41	2,48		SMB	71A4					
	7,70	292	174,39	2,81		SMB	71A4					
	8,80	255	152,08	3,21		SMB	71A4					
	9,60	234	140,27	3,50		SMB	71A4					
	10,00	225	129,78	3,65		SMB	71A4					
	12,00	187	111,93	4,38		SMB	71A4					
	4,30	523	314,66	1,05		ZG53	SMB			71A4	35	292
	4,90	459	272,71	1,20			SMB			71A4		
	5,50	409	245,44	1,35			SMB			71A4		
	6,00	375	222,36	1,47			SMB			71A4		
	6,60	340	202,58	1,62			SMB			71A4		
	7,40	304	181,81	1,81	SMB		71A4					
	7,80	288	172,02	1,91	SMB		71A4					
	8,90	252	149,99	2,18	SMB		71A4					
	10,00	225	129,54	2,45	SMB		71A4					
	12,00	187	115,50	2,94	SMB		71A4					
	13,00	173	103,02	3,18	SMB		71A4					
	14,00	161	92,72	3,43	SMB		71A4					
	16,00	140	86,01	3,92	SMB		71A4					
	18,00	125	74,02	4,41	SMB		71A4					
	18,00	127	74,67	3,23	ZG52	SMB	71A4	32	291			
	5,60	401	239,93	1,05	ZG43	SMB	71A4	27	290			
	6,20	362	217,37	1,16		SMB	71A4					
	6,80	330	198,04	1,27		SMB	71A4					
	7,50	300	177,73	1,40		SMB	71A4					
	8,00	281	168,16	1,50		SMB	71A4					
	9,10	247	146,63	1,70		SMB	71A4					

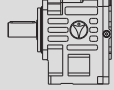




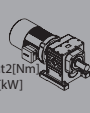
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,25	11,00	204	126,63	2,06	ZG43	SMB 71A4	27	290
	12,00	187	112,91	2,24	ZG43	SMB 71A4		
	13,00	173	100,71	2,43	ZG43	SMB 71A4		
	15,00	150	90,64	2,80	ZG43	SMB 71A4		
	16,00	140	84,08	2,99	ZG43	SMB 71A4		
	19,00	118	72,36	3,55	ZG43	SMB 71A4		
	22,00	102	60,20	4,11	ZG43	SMB 71A4		
	18,00	127	72,99	3,30	ZG42	SMB 71A4	24	289
	20,00	115	66,39	3,66	ZG42	SMB 71A4		
	22,00	104	61,76	4,03	ZG42	SMB 71A4		
	33,00	69	40,08	2,96	ZG42	SMB 71A4		
	37,00	62	36,45	4,42	ZG42	SMB 71A4		
	7,70	292	173,45	0,96	ZG33	SMB 71A4	23	288
	8,50	264	157,15	1,06	ZG33	SMB 71A4		
	9,40	239	143,17	1,17	ZG33	SMB 71A4		
	10,00	225	128,48	1,25	ZG33	SMB 71A4		
	11,00	204	121,57	1,37	ZG33	SMB 71A4		
	13,00	173	106,00	1,62	ZG33	SMB 71A4		
	15,00	150	91,55	1,87	ZG33	SMB 71A4		
	16,00	140	81,63	1,99	ZG33	SMB 71A4		
	18,00	125	72,81	2,24	ZG33	SMB 71A4		
20,00	112	65,53	2,49	ZG33	SMB 71A4			
22,00	102	60,78	2,74	ZG33	SMB 71A4			
26,00	86	52,31	3,24	ZG33	SMB 71A4			
31,00	72	43,52	3,86	ZG33	SMB 71A4			
35,00	64	38,55	4,36	ZG33	SMB 71A4			
17,00	135	80,00	1,45	ZG32	SMB 71A4	22	287	
19,00	121	71,27	2,15	ZG32	SMB 71A4			
21,00	109	64,13	2,55	ZG32	SMB 71A4			
23,00	100	59,39	2,81	ZG32	SMB 71A4			
25,00	92	54,27	3,05	ZG32	SMB 71A4			
29,00	79	46,28	3,54	ZG32	SMB 71A4			
32,00	72	41,82	3,91	ZG32	SMB 71A4			
35,00	66	38,04	4,27	ZG32	SMB 71A4			
12,00	187	113,66	0,96	ZG23	SMB 71A4	19	286	
14,00	161	99,11	1,12	ZG23	SMB 71A4			
16,00	140	85,60	1,28	ZG23	SMB 71A4			
18,00	125	76,32	1,44	ZG23	SMB 71A4			
20,00	112	68,08	1,60	ZG23	SMB 71A4			
22,00	102	61,27	1,76	ZG23	SMB 71A4			
24,00	94	56,83	1,92	ZG23	SMB 71A4			
27,00	83	48,91	2,16	ZG23	SMB 71A4			
33,00	68	40,69	2,64	ZG23	SMB 71A4			
37,00	61	36,04	2,96	ZG23	SMB 71A4			
18,00	127	74,80	1,41	ZG22	SMB 71A4	17	285	
20,00	115	66,64	1,57	ZG22	SMB 71A4			
22,00	104	59,96	1,73	ZG22	SMB 71A4			
24,00	96	55,53	1,88	ZG22	SMB 71A4			

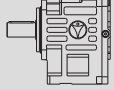




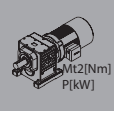
P	n ₂	Mt ₂	i	f _B			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
0,25	26,00	88	50,74	2,04		ZG22	SMB	71A4			
	31,00	74	43,27	2,43		ZG22	SMB	71A4			
	34,00	67	39,10	2,67		ZG22	SMB	71A4			
	38,00	60	35,57	2,98		ZG22	SMB	71A4			
	41,00	56	32,54	3,22		ZG22	SMB	71A4			
	44,00	52	30,60	3,45		ZG22	SMB	71A4			
	48,00	48	27,72	3,77		ZG22	SMB	71A4			
	55,00	42	24,37	4,32		ZG22	SMB	71A4			
	63,00	36	21,25	4,95		ZG22	SMB	71A4			
	68,00	34	19,60	5,34		ZG22	SMB	71A4			
	74,00	31	18,13	5,78		ZG22	SMB	71A4			
	86,00	27	15,64	6,34		ZG22	SMB	71A4			
	90,00	25	14,91	6,52		ZG22	SMB	71A4			
	100,00	23	13,36	7,15		ZG22	SMB	71A4			
	117,00	20	11,41	7,86		ZG22	SMB	71A4			
	137,00	17	9,80	8,84		ZG22	SMB	71A4			
	159,00	14	8,45	9,78		ZG22	SMB	71A4			
	34,00	67	39,47	1,50		ZG22	SMB	71A4			
	38,00	60	35,16	2,34		ZG22	SMB	71A4		17	285
	42,00	55	31,64	3,13		ZG22	SMB	71A4			
	46,00	50	29,30	3,57		ZG22	SMB	71A4			
	50,00	46	26,77	3,93		ZG22	SMB	71A4			
	59,00	39	22,83	4,63		ZG22	SMB	71A4			
	65,00	35	20,63	5,10		ZG22	SMB	71A4			
	71,00	32	18,77	5,57		ZG22	SMB	71A4			
	78,00	29	17,17	6,02		ZG22	SMB	71A4			
	83,00	28	16,15	6,30		ZG22	SMB	71A4			
	92,00	25	14,63	6,66		ZG22	SMB	71A4			
	104,00	22	12,86	7,26		ZG22	SMB	71A4			
	120,00	19	11,21	8,06		ZG22	SMB	71A4			
	130,00	18	10,34	8,62		ZG22	SMB	71A4			
	140,00	16	9,57	9,04		ZG22	SMB	71A4			
	162,00	14	8,25	9,96		ZG22	SMB	71A4			
	170,00	13	7,87	10,16	ZG22	SMB	71A4				
	190,00	12	7,05	11,10	ZG22	SMB	71A4				
	223,00	10	6,02	12,84	ZG22	SMB	71A4				
	259,00	9	5,17	14,46	ZG22	SMB	71A4				
	22,00	104	61,44	0,96	ZG12	SMB	71A4				
	25,00	92	54,60	1,09	ZG12	SMB	71A4				
	27,00	85	50,27	1,18	ZG12	SMB	71A4				
	29,00	79	45,50	1,26	ZG12	SMB	71A4				
	33,00	69	40,38	1,44	ZG12	SMB	71A4				
	38,00	60	35,00	1,66	ZG12	SMB	71A4	13	284		
	43,00	53	31,50	1,88	ZG12	SMB	71A4				
	47,00	49	28,54	2,05	ZG12	SMB	71A4				
	52,00	44	26,00	2,27	ZG12	SMB	71A4				
	57,00	40	23,33	2,49	ZG12	SMB	71A4				
	61,00	38	22,08	2,66	ZG12	SMB	71A4				

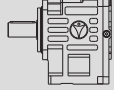




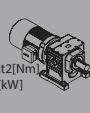
P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
0,25	70,00	33	19,25	2,93	ZG12	SMB 71A4			
	81,00	28	16,63	3,21	ZG12	SMB 71A4			
	90,00	25	14,82	3,41	ZG12	SMB 71A4			
	101,00	23	13,22	3,70	ZG12	SMB 71A4			
	113,00	20	11,90	3,89	ZG12	SMB 71A4			
	121,00	19	11,04	4,01	ZG12	SMB 71A4			
	141,00	16	9,50	4,55	ZG12	SMB 71A4			
	170,00	13	7,90	5,04	ZG12	SMB 71A4			
	191,00	12	7,00	5,08	ZG12	SMB 71A4			
	32,00	72	41,38	1,40	ZG12	SMB 71A4			
	36,00	64	36,77	1,57	ZG12	SMB 71A4			
	40,00	57	33,86	1,74	ZG12	SMB 71A4			
	44,00	52	30,64	1,92	ZG12	SMB 71A4			
	49,00	47	27,20	2,14	ZG12	SMB 71A4			
	57,00	40	23,57	2,49	ZG12	SMB 71A4	13	284	
	63,00	36	21,21	2,75	ZG12	SMB 71A4			
	70,00	33	19,22	2,93	ZG12	SMB 71A4			
	77,00	30	17,51	3,16	ZG12	SMB 71A4			
	85,00	27	15,71	3,41	ZG12	SMB 71A4			
	90,00	25	14,87	3,45	ZG12	SMB 71A4			
	103,00	22	12,96	3,68	ZG12	SMB 71A4			
	120,00	19	11,20	4,03	ZG12	SMB 71A4			
	134,00	17	9,98	4,32	ZG12	SMB 71A4			
	150,00	15	8,90	4,64	ZG12	SMB 71A4			
	167,00	14	8,01	4,73	ZG12	SMB 71A4			
	180,00	13	7,43	4,79	ZG12	SMB 71A4			
	209,00	11	6,40	4,92	ZG12	SMB 71A4			
	252,00	9	5,32	5,28	ZG12	SMB 71A4			
	284,00	8	4,71	5,33	ZG12	SMB 71A4			
	0,37	0,42	7760	3168,00	1,02	ZG114	SMB 71B4		
		0,47	6934	2822,40	1,17	ZG114	SMB 71B4		
		0,53	6149	2539,64	1,33	ZG114	SMB 71B4		
0,57		5718	2352,00	1,43	ZG114	SMB 71B4			
0,62		5257	2148,92	1,56	ZG114	SMB 71B4			
0,73		4465	1832,73	1,84	ZG114	SMB 71B4			
0,81		4024	1656,00	2,04	ZG114	SMB 71B4			
0,89		3662	1506,46	2,24	ZG114	SMB 71B4			
0,97		3360	1378,29	2,44	ZG114	SMB 71B4			
1,00		3259	1296,00	2,52	ZG114	SMB 71B4	346	318	
1,10		2963	1174,15	2,77	ZG114	SMB 71B4			
1,30		2507	1032,00	3,27	ZG114	SMB 71B4			
1,50		2173	900,00	3,77	ZG114	SMR 71B4			
1,60		2037	830,12	4,03	ZG114	SMR 71B4			
1,70		1917	768,00	4,28	ZG114	SMR 71B4			
2,00		1630	662,40	5,03	ZG114	SMR 71B4			
2,10		1552	631,38	5,28	ZG114	SMR 71B4			
2,40		1358	565,71	6,04	ZG114	SMR 71B4			
2,80	1164	483,10	7,04	ZG114	SMR 71B4				

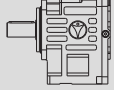


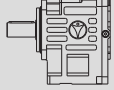

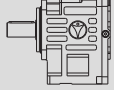

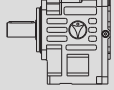

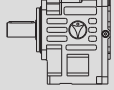

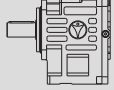



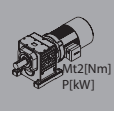
P	n ₂	Mt ₂	i	f _B			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
0,37	3,20	1018	415,06	8,05	ZG114	SMR 71B4	346	318	
	3,70	881	358,05	9,31	ZG114	SMR 71B4			
0,68	4793	1962,48	1,02	ZG104	SMB 71B4	231	312		
0,80	4074	1673,72	1,20	ZG104	SMB 71B4				
0,89	3662	1512,32	1,34	ZG104	SMB 71B4				
0,97	3360	1375,76	1,46	ZG104	SMB 71B4				
1,10	2963	1258,71	1,65	ZG104	SMB 71B4				
1,20	2716	1072,28	1,80	ZG104	SMB 71B4				
1,40	2328	942,46	2,10	ZG104	SMB 71B4				
1,60	2037	821,92	2,41	ZG104	SMR 71B4				
1,80	1811	758,10	2,71	ZG104	SMR 71B4				
1,90	1715	701,37	2,86	ZG104	SMR 71B4				
2,20	1481	604,93	3,31	ZG104	SMR 71B4				
2,30	1417	576,61	3,46	ZG104	SMR 71B4				
2,60	1254	516,63	3,91	ZG104	SMR 71B4				
3,00	1086	441,18	4,51	ZG104	SMR 71B4				
3,50	931	379,05	5,26	ZG104	SMR 71B4				
4,10	795	326,99	6,16	ZG104	SMR 71B4				
3,80	875	352,68	5,60	ZG103	SMB 71B4			228	310
4,20	792	320,55	6,19	ZG103	SMB 71B4				
4,60	723	293,36	6,78	ZG103	SMB 71B4				
5,00	665	270,06	7,37	ZG103	SMB 71B4				
5,40	616	246,57	7,96	ZG103	SMB 71B4				
6,00	554	225,08	8,84	ZG103	SMB 71B4				
6,60	504	202,74	9,72	ZG103	SMB 71B4				
7,60	438	176,71	11,20	ZG103	SMR 71B4				
8,10	411	166,32	11,93	ZG103	SMR 71B4				
8,70	382	153,42	12,82	ZG103	SMR 71B4				
9,70	343	138,08	14,29	ZG103	SMR 71B4				
1,00	3259	1342,96	0,95	ZG94	SMB 71B4	168	306		
1,10	2963	1262,79	1,05	ZG94	SMB 71B4				
1,20	2716	1144,06	1,14	ZG94	SMB 71B4				
1,30	2507	1005,55	1,24	ZG94	SMB 71B4				
1,50	2173	876,93	1,43	ZG94	SMR 71B4				
1,70	1917	808,84	1,62	ZG94	SMR 71B4				
1,80	1811	748,32	1,71	ZG94	SMR 71B4				
2,10	1552	645,42	2,00	ZG94	SMR 71B4				
2,20	1481	615,20	2,09	ZG94	SMR 71B4				
2,40	1358	551,22	2,28	ZG94	SMR 71B4				
2,80	1164	470,72	2,66	ZG94	SMR 71B4				
3,30	988	404,42	3,14	ZG94	SMR 71B4				
3,80	858	348,88	3,61	ZG94	SMR 71B4				
3,60	924	376,28	3,36	ZG93	SMB 71B4			165	304
3,90	853	342,00	3,64	ZG93	SMB 71B4				
4,30	773	313,00	4,01	ZG93	SMB 71B4				
4,70	708	288,14	4,38	ZG93	SMB 71B4				
1,90	1715	710,62	1,11	ZG84	SMR 71B4	73	301		
2,10	1552	633,62	1,22	ZG84	SMR 71B4				

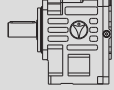




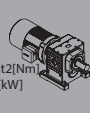
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,37	2,40	1358	565,17	1,40	ZG84	SMR 71B4	73	301
	2,60	1254	508,66	1,52	ZG84	SMR 71B4		
	2,80	1164	471,83	1,63	ZG84	SMR 71B4		
	3,30	988	406,07	1,92	ZG84	SMR 71B4		
	4,00	815	337,82	2,33	ZG84	SMR 71B4		
	4,50	724	299,21	2,62	ZG84	SMR 71B4		
	2,20	1512	621,00	1,26	ZG83	SMB 71B4	71	300
	2,40	1386	553,25	1,37	ZG83	SMB 71B4		
	2,70	1232	497,83	1,54	ZG83	SMB 71B4		
	2,90	1147	461,05	1,66	ZG83	SMB 71B4		
	3,20	1039	421,24	1,83	ZG83	SMB 71B4		
	3,70	899	359,26	2,11	ZG83	SMB 71B4		
	4,10	811	324,61	2,34	ZG83	SMB 71B4		
	4,50	739	295,30	2,57	ZG83	SMB 71B4		
	5,00	665	270,18	2,86	ZG83	SMB 71B4		
	5,30	627	254,05	3,03	ZG83	SMB 71B4		
	5,80	573	230,16	3,31	ZG83	SMB 71B4		
	6,60	504	202,30	3,77	ZG83	SMB 71B4		
	7,60	438	176,42	4,34	ZG83	SMR 71B4		
	2,30	1417	590,53	1,02	ZG74	SMR 71B4	63	298
	2,50	1304	526,74	1,11	ZG74	SMR 71B4		
2,80	1164	474,06	1,25	ZG74	SMR 71B4			
3,00	1086	439,74	1,33	ZG74	SMR 71B4			
3,50	931	378,45	1,56	ZG74	SMR 71B4			
4,30	758	314,84	1,91	ZG74	SMR 71B4			
4,80	679	278,86	2,14	ZG74	SMR 71B4			
2,30	1446	578,77	1,00	ZG73	SMB 71B4	61	297	
2,60	1279	515,63	1,13	ZG73	SMB 71B4			
2,90	1147	463,97	1,26	ZG73	SMB 71B4			
3,10	1073	429,69	1,35	ZG73	SMB 71B4			
3,40	978	392,59	1,48	ZG73	SMB 71B4			
4,00	831	334,83	1,74	ZG73	SMB 71B4			
4,40	756	302,54	1,92	ZG73	SMB 71B4			
4,90	679	275,22	2,14	ZG73	SMB 71B4			
5,30	627	251,80	2,31	ZG73	SMB 71B4			
5,70	583	236,77	2,49	ZG73	SMB 71B4			
6,20	536	214,51	2,70	ZG73	SMB 71B4			
7,10	468	188,54	3,10	ZG73	SMB 71B4			
8,10	411	164,42	3,53	ZG73	SMR 71B4			
8,80	378	151,66	3,84	ZG73	SMR 71B4			
9,60	346	140,31	4,19	ZG73	SMR 71B4			
3,80	858	350,05	0,96	ZG64	SMR 71B4	44	295	
4,60	709	291,22	1,16	ZG64	SMR 71B4			
5,20	627	257,93	1,31	ZG64	SMR 71B4			
4,30	773	309,70	1,06	ZG63	SMB 71B4	41	294	
4,80	693	279,83	1,18	ZG63	SMB 71B4			
5,30	627	254,56	1,31	ZG63	SMB 71B4			
5,80	573	232,90	1,43	ZG63	SMB 71B4			

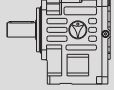




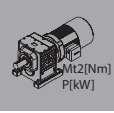
P	n ₂	Mt ₂	i	f _B			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
0,37	6,10	545	219,00	1,50			41	295			
	6,80	489	198,41	1,68					ZG63	SMB	71B4
	7,70	432	174,39	1,90					ZG63	SMB	71B4
	8,80	378	152,08	2,17					ZG63	SMR	71B4
	9,60	346	140,27	2,37					ZG63	SMR	71B4
	10,00	333	129,78	2,47					ZG63	SMR	71B4
	12,00	277	111,93	2,96					ZG63	SMR	71B4
	13,00	256	106,69	3,21					ZG63	SMR	71B4
	14,00	238	95,60	3,45					ZG63	SMR	71B4
	16,00	208	81,63	3,95					ZG63	SMR	71B4
	6,00	554	222,36	0,99			36	292			
	6,60	504	202,58	1,09					ZG53	SMB	71B4
	7,40	449	181,81	1,22					ZG53	SMB	71B4
	7,80	426	172,02	1,29					ZG53	SMB	71B4
	8,90	374	149,99	1,47					ZG53	SMB	71B4
	10,00	333	129,54	1,65					ZG53	SMR	71B4
	12,00	277	115,50	1,98					ZG53	SMR	71B4
	13,00	256	103,02	2,15					ZG53	SMR	71B4
	14,00	238	92,72	2,32					ZG53	SMR	71B4
	16,00	208	86,01	2,65					ZG53	SMR	71B4
	18,00	185	74,02	2,98	ZG53	SMR	71B4				
	22,00	151	61,58	3,64	ZG53	SMR	71B4				
	25,00	133	54,54	4,13	ZG53	SMR	71B4				
	18,00	189	74,67	2,19			33	291			
	20,00	170	67,91	3,08					ZG52	SMB	71B4
	21,00	162	63,18	3,34					ZG52	SMB	71B4
	25,00	136	54,25	4,04					ZG52	SMB	71B4
	27,00	126	49,19	4,38					ZG52	SMB	71B4
	8,00	416	168,16	1,01			28	290			
	9,10	365	146,63	1,15					ZG43	SMB	71B4
	11,00	302	126,63	1,39					ZG43	SMR	71B4
	12,00	277	112,91	1,52					ZG43	SMR	71B4
	13,00	256	100,71	1,64					ZG43	SMR	71B4
	15,00	222	90,64	1,89					ZG43	SMR	71B4
	16,00	208	84,08	2,02					ZG43	SMR	71B4
	19,00	175	72,36	2,40					ZG43	SMR	71B4
	22,00	151	60,20	2,78					ZG43	SMR	71B4
	25,00	133	53,32	3,16					ZG43	SMR	71B4
	18,00	189	72,99	2,23			25	289			
	20,00	170	66,39	2,48					ZG42	SMB	71B4
	22,00	154	61,76	2,72					ZG42	SMB	71B4
	25,00	136	53,03	3,09					ZG42	SMB	71B4
	28,00	121	48,09	3,47					ZG42	SMB	71B4
	30,00	113	44,87	3,71					ZG42	SMB	71B4
	33,00	103	40,77	4,08					ZG42	SMB	71B4
	36,00	94	37,11	4,46					ZG42	SMB	71B4
	33,00	103	40,08	2,00					ZG42	SMB	71B4
	37,00	92	36,45	2,99					ZG42	SMB	71B4

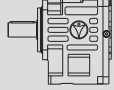




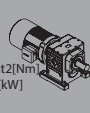
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,37	40,00	85	33,91	3,54	ZG42	SMB 71B4	25	289
13,00	256	106,00	1,09	ZG33	SMB 71B4			
15,00	222	91,55	1,26	ZG33	SMR 71B4			
16,00	208	81,63	1,35	ZG33	SMR 71B4			
18,00	185	72,81	1,52	ZG33	SMR 71B4			
20,00	166	65,53	1,68	ZG33	SMR 71B4	25	288	
22,00	151	60,78	1,85	ZG33	SMR 71B4			
26,00	128	52,31	2,19	ZG33	SMR 71B4			
31,00	107	43,52	2,61	ZG33	SMR 71B4			
35,00	95	38,55	2,95	ZG33	SMR 71B4			
17,00	200	80,00	0,98	ZG32	SMB 71B4			
19,00	179	71,27	1,46	ZG32	SMB 71B4			
21,00	162	64,13	1,72	ZG32	SMB 71B4			
23,00	148	59,39	1,90	ZG32	SMB 71B4			
25,00	136	54,27	2,06	ZG32	SMB 71B4			
29,00	117	46,28	2,39	ZG32	SMB 71B4	23	287	
32,00	106	41,82	2,64	ZG32	SMB 71B4			
35,00	97	38,04	2,89	ZG32	SMB 71B4			
39,00	87	34,81	3,22	ZG32	SMB 71B4			
41,00	83	32,73	3,38	ZG32	SMB 71B4			
45,00	75	29,65	3,71	ZG32	SMB 71B4			
51,00	67	26,06	4,21	ZG32	SMB 71B4			
18,00	185	76,32	0,97	ZG23	SMR 71B4			
20,00	166	68,08	1,08	ZG23	SMR 71B4			
22,00	151	61,27	1,19	ZG23	SMR 71B4			
24,00	139	56,83	1,30	ZG23	SMR 71B4	20	286	
27,00	123	48,91	1,46	ZG23	SMR 71B4			
33,00	101	40,69	1,79	ZG23	SMR 71B4			
37,00	90	36,04	2,00	ZG23	SMR 71B4			
18,00	189	74,80	0,95	ZG22	SMB 71B4			
20,00	170	66,64	1,06	ZG22	SMB 71B4			
22,00	154	59,96	1,17	ZG22	SMB 71B4			
24,00	141	55,53	1,27	ZG22	SMB 71B4			
26,00	131	50,74	1,38	ZG22	SMB 71B4			
31,00	109	43,27	1,64	ZG22	SMB 71B4			
34,00	100	39,10	1,80	ZG22	SMB 71B4			
38,00	89	35,57	2,02	ZG22	SMB 71B4			
41,00	83	32,54	2,17	ZG22	SMB 71B4			
44,00	77	30,60	2,33	ZG22	SMB 71B4	17	285	
48,00	71	27,72	2,55	ZG22	SMB 71B4			
55,00	62	24,37	2,92	ZG22	SMB 71B4			
63,00	54	21,25	3,34	ZG22	SMR 71B4			
68,00	50	19,60	3,61	ZG22	SMR 71B4			
74,00	46	18,13	3,90	ZG22	SMR 71B4			
86,00	39	15,64	4,28	ZG22	SMR 71B4			
90,00	38	14,91	4,40	ZG22	SMR 71B4			
100,00	34	13,36	4,83	ZG22	SMR 71B4			
117,00	29	11,41	5,31	ZG22	SMR 71B4			

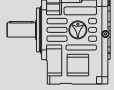




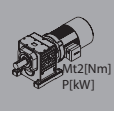
P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,37	137,00	25	9,80	5,97	ZG22	SMR	71B4	
	159,00	21	8,45	6,61	ZG22	SMR	71B4	
	34,00	100	39,47	1,01	ZG22	SMB	71B4	
	38,00	89	35,16	1,58	ZG22	SMB	71B4	
	42,00	81	31,64	2,12	ZG22	SMB	71B4	
	46,00	74	29,30	2,41	ZG22	SMB	71B4	
	50,00	68	26,77	2,65	ZG22	SMB	71B4	
	59,00	58	22,83	3,13	ZG22	SMB	71B4	
	65,00	52	20,63	3,45	ZG22	SMB	71B4	
	71,00	48	18,77	3,77	ZG22	SMB	71B4	
	78,00	44	17,17	4,07	ZG22	SMB	71B4	
	83,00	41	16,15	4,26	ZG22	SMB	71B4	17
	92,00	37	14,63	4,50	ZG22	SMB	71B4	285
	104,00	33	12,86	4,90	ZG22	SMB	71B4	
	120,00	28	11,21	5,45	ZG22	SMR	71B4	
	130,00	26	10,34	5,82	ZG22	SMR	71B4	
	140,00	24	9,57	6,11	ZG22	SMR	71B4	
	162,00	21	8,25	6,73	ZG22	SMR	71B4	
	170,00	20	7,87	6,86	ZG22	SMR	71B4	
	190,00	18	7,05	7,50	ZG22	SMR	71B4	
	223,00	15	6,02	8,67	ZG22	SMR	71B4	
	259,00	13	5,17	9,77	ZG22	SMR	71B4	
	300,00	11	4,46	10,52	ZG22	SMR	71B4	
	33,00	103	40,38	0,97	ZG12	SMB	71B4	
	38,00	89	35,00	1,12	ZG12	SMB	71B4	
	43,00	79	31,50	1,27	ZG12	SMB	71B4	
	47,00	72	28,54	1,38	ZG12	SMB	71B4	
	52,00	65	26,00	1,53	ZG12	SMB	71B4	
	57,00	60	23,33	1,68	ZG12	SMB	71B4	
	61,00	56	22,08	1,80	ZG12	SMB	71B4	
	70,00	48	19,25	1,98	ZG12	SMB	71B4	
	81,00	42	16,63	2,17	ZG12	SMR	71B4	
	90,00	38	14,82	2,31	ZG12	SMR	71B4	
	101,00	34	13,22	2,50	ZG12	SMR	71B4	
	113,00	30	11,90	2,63	ZG12	SMR	71B4	
	121,00	28	11,04	2,71	ZG12	SMR	71B4	14
	141,00	24	9,50	3,07	ZG12	SMR	71B4	284
	170,00	20	7,90	3,41	ZG12	SMR	71B4	
	191,00	18	7,00	3,43	ZG12	SMR	71B4	
	36,00	94	36,77	1,06	ZG12	SMB	71B4	
	40,00	85	33,86	1,18	ZG12	SMB	71B4	
	44,00	77	30,64	1,30	ZG12	SMB	71B4	
	49,00	69	27,20	1,44	ZG12	SMB	71B4	
	57,00	60	23,57	1,68	ZG12	SMB	71B4	
	63,00	54	21,21	1,86	ZG12	SMB	71B4	
	70,00	48	19,22	1,98	ZG12	SMB	71B4	
	77,00	44	17,51	2,13	ZG12	SMB	71B4	
	85,00	40	15,71	2,30	ZG12	SMB	71B4	

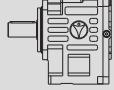




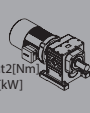
P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
0,37	90,00	38	14,87	2,33	ZG12	SMB	71B4	14	284
	103,00	33	12,96	2,49	ZG12	SMB	71B4		
	120,00	28	11,20	2,72	ZG12	SMR	71B4		
	134,00	25	9,98	2,92	ZG12	SMR	71B4		
	150,00	23	8,90	3,14	ZG12	SMR	71B4		
	167,00	20	8,01	3,20	ZG12	SMR	71B4		
	180,00	19	7,43	3,24	ZG12	SMR	71B4		
	209,00	16	6,40	3,33	ZG12	SMR	71B4		
	252,00	13	5,32	3,56	ZG12	SMR	71B4		
	284,00	12	4,71	3,60	ZG12	SMR	71B4		
0,55	0,58	8353	2352,00	0,98	ZG114	SMB	80A4	348	318
	0,64	7569	2148,92	1,08	ZG114	SMB	80A4		
	0,75	6459	1832,73	1,27	ZG114	SMB	80A4		
	0,83	5837	1656,00	1,40	ZG114	SMB	80A4		
	0,91	5323	1506,46	1,54	ZG114	SMB	80A4		
	1,00	4844	1378,29	1,69	ZG114	SMB	80A4		
	1,10	4404	1296,00	1,86	ZG114	SMB	80A4		
	1,20	4037	1174,15	2,03	ZG114	SMB	80A4		
	1,30	3726	1032,00	2,20	ZG114	SMB	80A4		
	1,50	3229	900,00	2,54	ZG114	SMR	80A4		
	1,70	2849	830,12	2,88	ZG114	SMR	80A4		
	1,80	2691	768,00	3,05	ZG114	SMR	80A4		
	2,10	2307	662,40	3,55	ZG114	SMR	80A4		
	2,20	2202	631,38	3,72	ZG114	SMR	80A4		
	2,40	2018	565,71	4,06	ZG114	SMR	80A4		
	1,00	4844	1375,76	1,01	ZG104	SMB	80A4		
	1,10	4404	1258,71	1,11	ZG104	SMB	80A4		
	1,20	4037	1183,56	1,21	ZG104	SMB	80A4		
	1,30	3726	1072,28	1,31	ZG104	SMB	80A4		
	1,50	3229	942,46	1,52	ZG104	SMB	80A4		
	1,70	2849	821,92	1,72	ZG104	SMR	80A4		
	1,80	2691	758,10	1,82	ZG104	SMR	80A4		
	2,00	2422	701,37	2,02	ZG104	SMR	80A4		
	2,30	2106	604,93	2,33	ZG104	SMR	80A4		
2,40	2018	576,61	2,43	ZG104	SMR	80A4			
2,70	1794	516,63	2,73	ZG104	SMR	80A4			
3,10	1562	441,18	3,14	ZG104	SMR	80A4			
3,60	1345	379,05	3,64	ZG104	SMR	80A4			
4,20	1153	326,99	4,25	ZG104	SMR	80A4			
3,90	1267	352,68	3,87	ZG103	SMB	80A4	230	310	
4,30	1149	320,55	4,26	ZG103	SMB	80A4			
1,60	3027	876,93	1,02	ZG94	SMR	80A4	170	306	
1,70	2849	808,84	1,09	ZG94	SMR	80A4			
1,80	2691	748,32	1,15	ZG94	SMR	80A4			
2,10	2307	645,42	1,34	ZG94	SMR	80A4			
2,20	2202	615,20	1,41	ZG94	SMR	80A4			
2,50	1937	551,22	1,60	ZG94	SMR	80A4			
2,90	1670	470,72	1,86	ZG94	SMR	80A4			

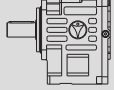




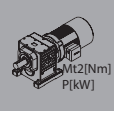
P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,55	3,40	1424	404,42	2,18	ZG94	SMR 80A4		
	3,90	1242	348,88	2,50	ZG94	SMR 80A4	170	306
	4,80	1009	287,46	3,07	ZG94	SMR 80A4		
	3,70	1336	376,28	2,32	ZG93	SMB 80A4		
	4,00	1235	342,00	2,51	ZG93	SMB 80A4		
	4,40	1123	313,00	2,76	ZG93	SMB 80A4		
	4,80	1029	288,14	3,01	ZG93	SMB 80A4	167	304
	5,20	950	263,08	3,26	ZG93	SMB 80A4		
	5,70	867	240,15	3,57	ZG93	SMB 80A4		
	6,40	772	216,31	4,01	ZG93	SMB 80A4		
	2,70	1794	508,66	1,06	ZG84	SMR 80A4		
	2,90	1670	471,83	1,14	ZG84	SMR 80A4		
	3,40	1424	406,07	1,33	ZG84	SMR 80A4	75	301
	4,10	1181	337,82	1,61	ZG84	SMR 80A4		
	4,60	1053	299,21	1,80	ZG84	SMR 80A4		
	2,50	1977	553,25	0,96	ZG83	SMB 80A4		
	2,80	1765	497,83	1,08	ZG83	SMB 80A4		
	3,00	1647	461,05	1,15	ZG83	SMB 80A4		
	3,30	1498	421,24	1,27	ZG83	SMB 80A4		
	3,80	1300	359,26	1,46	ZG83	SMB 80A4		
4,20	1177	324,61	1,61	ZG83	SMB 80A4			
4,70	1051	295,30	1,81	ZG83	SMB 80A4			
5,10	969	270,18	1,96	ZG83	SMB 80A4	73	300	
5,40	915	254,05	2,08	ZG83	SMB 80A4			
6,00	823	230,16	2,31	ZG83	SMB 80A4			
6,80	727	202,30	2,61	ZG83	SMB 80A4			
7,80	633	176,42	3,00	ZG83	SMR 80A4			
8,40	588	162,72	3,23	ZG83	SMR 80A4			
9,10	543	150,55	3,50	ZG83	SMR 80A4			
11,00	449	129,85	4,23	ZG83	SMR 80A4			
3,60	1345	378,45	1,08	ZG74	SMR 80A4			
4,40	1101	314,84	1,32	ZG74	SMR 80A4	65	298	
4,90	988	278,86	1,47	ZG74	SMR 80A4			
3,50	1412	392,59	1,03	ZG73	SMB 80A4			
4,10	1205	334,83	1,20	ZG73	SMB 80A4			
4,50	1098	302,54	1,32	ZG73	SMB 80A4			
5,00	988	275,22	1,47	ZG73	SMB 80A4			
5,50	898	251,80	1,61	ZG73	SMB 80A4			
5,80	852	236,77	1,70	ZG73	SMB 80A4			
6,40	772	214,51	1,88	ZG73	SMB 80A4	63	297	
7,30	677	188,54	2,14	ZG73	SMB 80A4			
8,40	588	164,42	2,46	ZG73	SMR 80A4			
9,10	543	151,66	2,67	ZG73	SMR 80A4			
9,80	504	140,31	2,87	ZG73	SMR 80A4			
11,00	449	121,02	3,23	ZG73	SMR 80A4			
12,00	411	115,35	3,52	ZG73	SMR 80A4			
13,00	380	103,35	3,81	ZG73	SMR 80A4			
5,90	837	232,90	0,98	ZG63	SMB 80A4	43	294	

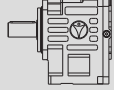




P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,55	6,30	784	219,00	1,04	ZG63	SMB	80A4	
	6,90	716	198,41	1,14	ZG63	SMB	80A4	
	7,90	625	174,39	1,31	ZG63	SMB	80A4	
	9,00	549	152,08	1,49	ZG63	SMR	80A4	
	9,80	504	140,27	1,63	ZG63	SMR	80A4	
	11,00	449	129,78	1,82	ZG63	SMR	80A4	44
	12,00	412	111,93	1,99	ZG63	SMR	80A4	294
	13,00	380	106,69	2,16	ZG63	SMR	80A4	
	14,00	353	95,60	2,32	ZG63	SMR	80A4	
	17,00	290	81,63	2,82	ZG63	SMR	80A4	
	20,00	247	70,14	3,32	ZG63	SMR	80A4	
	23,00	215	60,50	3,82	ZG63	SMR	80A4	
	21,00	240	65,26	3,41	ZG62	SMB	80A4	
	23,00	219	59,31	3,74	ZG62	SMB	80A4	42
	25,00	201	54,28	4,06	ZG62	SMB	80A4	293
	34,00	148	39,93	3,65	ZG62	SMB	80A4	
	9,20	537	149,99	1,02	ZG53	SMB	80A4	
	11,00	449	129,54	1,22	ZG53	SMR	80A4	
	12,00	412	115,50	1,34	ZG53	SMR	80A4	
	13,00	380	103,02	1,45	ZG53	SMR	80A4	
15,00	329	92,72	1,67	ZG53	SMR	80A4	38	
16,00	309	86,01	1,78	ZG53	SMR	80A4	292	
19,00	260	74,02	2,11	ZG53	SMR	80A4		
22,00	224	61,58	2,45	ZG53	SMR	80A4		
25,00	197	54,54	2,78	ZG53	SMR	80A4		
18,00	280	74,67	1,47	ZG52	SMB	80A4		
20,00	252	67,91	2,07	ZG52	SMB	80A4		
22,00	229	63,18	2,35	ZG52	SMB	80A4		
25,00	201	54,25	2,72	ZG52	SMB	80A4		
28,00	180	49,19	3,05	ZG52	SMB	80A4	35	
30,00	168	45,90	3,27	ZG52	SMB	80A4	291	
33,00	152	41,71	3,60	ZG52	SMB	80A4		
36,00	140	37,97	3,93	ZG52	SMB	80A4		
40,00	126	34,55	4,36	ZG52	SMB	80A4		
12,00	412	112,91	1,02	ZG43	SMR	80A4		
14,00	353	100,71	1,19	ZG43	SMR	80A4		
15,00	329	90,64	1,27	ZG43	SMR	80A4		
16,00	308	84,08	1,36	ZG43	SMR	80A4	30	
19,00	260	72,36	1,61	ZG43	SMR	80A4	290	
23,00	214	60,20	1,95	ZG43	SMR	80A4		
26,00	190	53,32	2,21	ZG43	SMR	80A4		
19,00	265	72,99	1,58	ZG42	SMB	80A4		
21,00	240	66,39	1,75	ZG42	SMB	80A4		
22,00	229	61,76	1,83	ZG42	SMB	80A4		
26,00	194	53,03	2,16	ZG42	SMB	80A4	27	
29,00	173	48,09	2,41	ZG42	SMB	80A4	289	
31,00	162	44,87	2,58	ZG42	SMB	80A4		
34,00	148	40,77	2,83	ZG42	SMB	80A4		

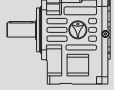




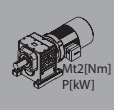
P	n ₂	Mt ₂	i	f _B			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
0,55	37,00	136	37,11	3,08	ZG42	SMB	80A4	27	289
	41,00	123	33,78	3,41	ZG42	SMB	80A4		
	46,00	109	29,80	3,83	ZG42	SMB	80A4		
	51,00	99	27,05	4,25	ZG42	SMR	80A4		
	34,00	148	40,08	1,39	ZG42	SMB	80A4		
	38,00	132	36,45	2,06	ZG42	SMB	80A4		
	41,00	123	33,91	2,44	ZG42	SMB	80A4		
	47,00	107	29,12	3,16	ZG42	SMB	80A4		
	52,00	97	26,41	3,82	ZG42	SMB	80A4		
	56,00	90	24,64	4,41	ZG42	SMB	80A4		
17,00	290	81,63	0,96	ZG33	SMR	80A4	26	288	
19,00	260	72,81	1,08	ZG33	SMR	80A4			
21,00	235	65,53	1,19	ZG33	SMR	80A4			
23,00	214	60,78	1,30	ZG33	SMR	80A4			
26,00	190	52,31	1,47	ZG33	SMR	80A4			
32,00	154	43,52	1,81	ZG33	SMR	80A4			
36,00	137	38,55	2,04	ZG33	SMR	80A4			
19,00	265	71,27	0,98	ZG32	SMB	80A4			
21,00	240	64,13	1,16	ZG32	SMB	80A4			
23,00	219	59,39	1,28	ZG32	SMB	80A4			
25,00	201	54,27	1,39	ZG32	SMB	80A4			
30,00	168	46,28	1,67	ZG32	SMB	80A4			
33,00	152	41,82	1,83	ZG32	SMB	80A4			
36,00	140	38,04	2,00	ZG32	SMB	80A4			
40,00	126	34,81	2,22	ZG32	SMB	80A4			
42,00	120	32,73	2,33	ZG32	SMB	80A4	25	287	
46,00	109	29,65	2,55	ZG32	SMB	80A4			
53,00	95	26,06	2,94	ZG32	SMB	80A4			
61,00	82	22,73	3,39	ZG32	SMR	80A4			
66,00	76	20,96	3,66	ZG32	SMR	80A4			
71,00	71	19,39	3,94	ZG32	SMR	80A4			
82,00	61	16,73	4,34	ZG32	SMR	80A4			
86,00	58	15,94	4,45	ZG32	SMR	80A4			
28,00	176	48,91	1,02	ZG23	SMR	80A4			
34,00	145	40,69	1,24	ZG23	SMR	80A4			22
38,00	130	36,04	1,38	ZG23	SMR	80A4			
27,00	186	50,74	0,96	ZG22	SMB	80A4			
32,00	157	43,27	1,14	ZG22	SMB	80A4	20	285	
35,00	144	39,10	1,25	ZG22	SMB	80A4			
39,00	129	35,57	1,39	ZG22	SMB	80A4			
42,00	120	32,54	1,50	ZG22	SMB	80A4			
45,00	112	30,60	1,61	ZG22	SMB	80A4			
50,00	100	27,72	1,78	ZG22	SMB	80A4			
56,00	90	24,37	2,00	ZG22	SMB	80A4			
65,00	77	21,25	2,32	ZG22	SMR	80A4			
70,00	72	19,60	2,50	ZG22	SMR	80A4			
76,00	66	18,13	2,70	ZG22	SMR	80A4			
88,00	57	15,64	2,95	ZG22	SMR	80A4			

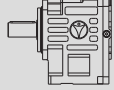




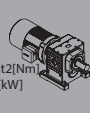
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,55	92,00	54	14,91	3,03	ZG22	SMR	80A4	
	103,00	49	13,36	3,35	ZG22	SMR	80A4	
	121,00	41	11,41	3,69	ZG22	SMR	80A4	
	140,00	36	9,80	4,11	ZG22	SMR	80A4	
	39,00	129	35,16	1,09	ZG22	SMB	80A4	
	43,00	117	31,64	1,46	ZG22	SMB	80A4	
	47,00	107	29,30	1,66	ZG22	SMB	80A4	
	51,00	98	26,77	1,82	ZG22	SMB	80A4	
	60,00	84	22,83	2,14	ZG22	SMB	80A4	20
	67,00	75	20,63	2,39	ZG22	SMB	80A4	285
	73,00	69	18,77	2,60	ZG22	SMB	80A4	
	80,00	63	17,17	2,81	ZG22	SMB	80A4	
	85,00	59	16,15	2,93	ZG22	SMB	80A4	
	94,00	53	14,63	3,09	ZG22	SMB	80A4	
	107,00	47	12,86	3,39	ZG22	SMB	80A4	
	123,00	41	11,21	3,75	ZG22	SMR	80A4	
	133,00	37	10,34	4,01	ZG22	SMR	80A4	
	144,00	35	9,57	4,22	ZG22	SMR	80A4	
	48,00	105	28,54	0,95	ZG12	SMB	80A4	
	53,00	95	26,00	1,05	ZG12	SMB	80A4	
	59,00	85	23,33	1,17	ZG12	SMB	80A4	
	62,00	81	22,08	1,23	ZG12	SMB	80A4	
71,00	71	19,25	1,35	ZG12	SMB	80A4		
83,00	60	16,63	1,50	ZG12	SMR	80A4		
93,00	54	14,82	1,60	ZG12	SMR	80A4		
104,00	48	13,22	1,73	ZG12	SMR	80A4		
116,00	43	11,90	1,82	ZG12	SMR	80A4		
125,00	40	11,04	1,88	ZG12	SMR	80A4		
145,00	34	9,50	2,13	ZG12	SMR	80A4		
174,00	29	7,90	2,35	ZG12	SMR	80A4		
196,00	25	7,00	2,37	ZG12	SMR	80A4		
51,00	98	27,20	1,01	ZG12	SMB	80A4		
58,00	87	23,57	1,15	ZG12	SMB	80A4	15	
65,00	77	21,21	1,29	ZG12	SMB	80A4	284	
72,00	70	19,22	1,37	ZG12	SMB	80A4		
79,00	63	17,51	1,47	ZG12	SMB	80A4		
88,00	57	15,71	1,60	ZG12	SMB	80A4		
92,00	54	14,87	1,60	ZG12	SMB	80A4		
106,00	47	12,96	1,72	ZG12	SMB	80A4		
123,00	41	11,20	1,88	ZG12	SMR	80A4		
138,00	36	9,98	2,02	ZG12	SMR	80A4		
154,00	32	8,90	2,17	ZG12	SMR	80A4		
172,00	29	8,01	2,22	ZG12	SMR	80A4		
185,00	27	7,43	2,24	ZG12	SMR	80A4		
215,00	23	6,40	2,30	ZG12	SMR	80A4		
258,00	19	5,32	2,45	ZG12	SMR	80A4		
292,00	17	4,71	2,49	ZG12	SMR	80A4		
0,75	0,83	7959	1656,00	1,03	ZG114	SMB	80B4	349
							318	

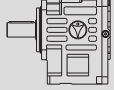




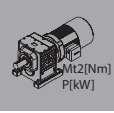
P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,75	0,91	7259	1506,46	1,13	ZG114	SMB	80B4	
	1	6606	1378,29	1,24	ZG114	SMB	80B4	
	1,1	6005	1296,00	1,37	ZG114	SMB	80B4	
	1,2	5505	1174,15	1,49	ZG114	SMB	80B4	
	1,3	5082	1032,00	1,61	ZG114	SMB	80B4	
	1,5	4404	900,00	1,86	ZG114	SMR	80B4	
	1,7	3886	830,12	2,11	ZG114	SMR	80B4	349
	1,8	3670	768,00	2,23	ZG114	SMR	80B4	318
	2,1	3146	662,40	2,61	ZG114	SMR	80B4	
	2,2	3003	631,38	2,73	ZG114	SMR	80B4	
	2,4	2752	565,71	2,98	ZG114	SMR	80B4	
	2,8	2359	483,10	3,48	ZG114	SMR	80B4	
	3,3	2001	415,06	4,10	ZG114	SMR	80B4	
	1,3	5081	1072,28	0,96	ZG104	SMB	80B4	
	1,5	4404	942,46	1,11	ZG104	SMB	80B4	
	1,7	3886	821,92	1,26	ZG104	SMR	80B4	
	1,8	3670	758,10	1,34	ZG104	SMR	80B4	
	2	3303	701,37	1,48	ZG104	SMR	80B4	
	2,3	2872	604,93	1,71	ZG104	SMR	80B4	
	2,4	2752	576,61	1,78	ZG104	SMR	80B4	234
	2,7	2446	516,63	2,00	ZG104	SMR	80B4	312
	3,1	2131	441,18	2,30	ZG104	SMR	80B4	
	3,6	1835	379,05	2,67	ZG104	SMR	80B4	
	4,2	1573	326,99	3,12	ZG104	SMR	80B4	
	5,1	1295	269,43	3,78	ZG104	SMR	80B4	
	3,9	1728	352,68	2,83	ZG103	SMB	80B4	
	4,3	1567	320,55	3,13	ZG103	SMB	80B4	
	4,7	1434	293,36	3,42	ZG103	SMB	80B4	
	5,1	1321	270,06	3,71	ZG103	SMB	80B4	231
	5,6	1203	246,57	4,07	ZG103	SMB	80B4	310
	6,1	1105	225,08	4,43	ZG103	SMB	80B4	
	2,1	3146	645,42	0,99	ZG94	SMR	80B4	
	2,2	3003	615,20	1,03	ZG94	SMR	80B4	
	2,5	2642	551,22	1,17	ZG94	SMR	80B4	
	2,9	2278	470,72	1,36	ZG94	SMR	80B4	171
	3,4	1943	404,42	1,60	ZG94	SMR	80B4	306
	3,9	1694	348,88	1,83	ZG94	SMR	80B4	
	4,8	1376	287,46	2,25	ZG94	SMR	80B4	
	3,7	1822	376,28	1,70	ZG93	SMB	80B4	
	4	1685	342,00	1,84	ZG93	SMB	80B4	
	4,4	1532	313,00	2,02	ZG93	SMB	80B4	
	4,8	1404	288,14	2,21	ZG93	SMB	80B4	
	5,2	1296	263,08	2,39	ZG93	SMB	80B4	
	5,7	1182	240,15	2,62	ZG93	SMB	80B4	168
	6,4	1053	216,31	2,94	ZG93	SMB	80B4	304
	7,3	923	188,54	3,36	ZG93	SMR	80B4	
	7,7	875	177,45	3,54	ZG93	SMR	80B4	
	8,4	802	163,69	3,86	ZG93	SMR	80B4	

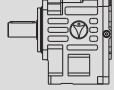




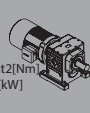
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,75	9,3	724	147,33	4,28	ZG93	SMR 80B4	168	304
	3,4	1943	406,07	0,98	ZG84	SMR 80B4		
	4,1	1611	337,82	1,18	ZG84	SMR 80B4	76	301
	4,6	1436	299,21	1,32	ZG84	SMR 80B4		
	3,8	1774	359,26	1,07	ZG83	SMB 80B4		
	4,2	1605	324,61	1,18	ZG83	SMB 80B4		
	4,7	1434	295,30	1,32	ZG83	SMB 80B4		
	5,1	1321	270,18	1,44	ZG83	SMB 80B4		
	5,4	1248	254,05	1,52	ZG83	SMB 80B4		
	6	1123	230,16	1,69	ZG83	SMB 80B4		
	6,8	991	202,30	1,92	ZG83	SMB 80B4	74	300
	7,8	864	176,42	2,20	ZG83	SMR 80B4		
	8,4	802	162,72	2,37	ZG83	SMR 80B4		
	9,1	740	150,55	2,56	ZG83	SMR 80B4		
	11	612	129,85	3,10	ZG83	SMR 80B4		
	12	561	110,89	3,38	ZG83	SMR 80B4		
	15	449	94,70	4,23	ZG83	SMR 80B4		
	4,4	1501	314,84	0,97	ZG74	SMR 80B4	66	298
	4,9	1348	278,86	1,08	ZG74	SMR 80B4		
	4,5	1498	302,54	0,97	ZG73	SMB 80B4		
	5	1348	275,22	1,08	ZG73	SMB 80B4		
	5,5	1225	251,80	1,18	ZG73	SMB 80B4		
	5,8	1162	236,77	1,25	ZG73	SMB 80B4		
	6,4	1053	214,51	1,38	ZG73	SMB 80B4		
	7,3	923	188,54	1,57	ZG73	SMB 80B4		
	8,4	802	164,42	1,81	ZG73	SMR 80B4	64	297
	9,1	740	151,66	1,96	ZG73	SMR 80B4		
	9,8	687	140,31	2,11	ZG73	SMR 80B4		
	11	612	121,02	2,37	ZG73	SMR 80B4		
	12	561	115,35	2,58	ZG73	SMR 80B4		
	13	518	103,35	2,80	ZG73	SMR 80B4		
	16	421	88,26	3,44	ZG73	SMR 80B4		
	18	374	75,83	3,87	ZG73	SMR 80B4		
	7,9	853	174,39	0,96	ZG63	SMB 80B4		
	9	749	152,08	1,09	ZG63	SMR 80B4		
	9,8	687	140,27	1,19	ZG63	SMR 80B4		
	11	612	129,78	1,34	ZG63	SMR 80B4		
	12	561	111,93	1,46	ZG63	SMR 80B4		
	13	518	106,69	1,58	ZG63	SMR 80B4	44	294
	14	481	95,60	1,70	ZG63	SMR 80B4		
	17	396	81,63	2,07	ZG63	SMR 80B4		
	20	337	70,14	2,43	ZG63	SMR 80B4		
23	293	60,50	2,80	ZG63	SMR 80B4			
28	240	49,85	3,41	ZG63	SMR 80B4			
21	327	65,26	2,50	ZG53	SMB 80B4			
23	299	59,31	2,74	ZG53	SMB 80B4	42	292	
25	275	54,28	2,98	ZG53	SMB 80B4			
28	245	49,97	3,34	ZG53	SMB 80B4			

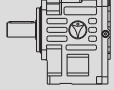




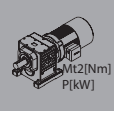
P	n ₂	Mt ₂	i	f _B			m					
[kW]	[min ⁻¹]	[Nm]					[kg]					
0,75	30	229	45,63	3,58		ZG53	SMB	80B4	42	292		
	33	208	41,65	3,93		ZG53	SMB	80B4				
	37	185	37,51	4,38		ZG53	SMB	80B4				
	34	202	39,93	2,67		ZG53	SMB	80B4				
	38	181	36,29	3,44		ZG53	SMB	80B4				
	41	167	33,21	4,00		ZG53	SMB	80B4				
	12	561	115,50	0,98		ZG53	SMR	80B4	38	292		
	13	518	103,02	1,06		ZG53	SMR	80B4				
	15	449	92,72	1,22		ZG53	SMR	80B4				
	16	421	86,01	1,31		ZG53	SMR	80B4				
	19	354	74,02	1,55		ZG53	SMR	80B4				
	22	306	61,58	1,79		ZG53	SMR	80B4				
	25	269	54,54	2,04		ZG53	SMR	80B4				
	18	382	74,67	1,08		ZG52	SMB	80B4			35	291
	20	344	67,91	1,52		ZG52	SMB	80B4				
	22	312	63,18	1,72		ZG52	SMB	80B4				
	25	275	54,25	1,99		ZG52	SMB	80B4				
	28	245	49,19	2,24		ZG52	SMB	80B4				
	30	229	45,90	2,40		ZG52	SMB	80B4				
	33	208	41,71	2,64		ZG52	SMB	80B4				
	36	191	37,97	2,88		ZG52	SMB	80B4				
40	172	34,55	3,20	ZG52	SMB	80B4						
45	152	30,48	3,60	ZG52	SMB	80B4						
50	137	27,67	4,00	ZG52	SMR	80B4						
54	127	25,29	4,32	ZG52	SMR	80B4						
16	421	84,08	1,00	ZG43	SMR	80B4	31	290				
19	354	72,36	1,18	ZG43	SMR	80B4						
23	293	60,20	1,43	ZG43	SMR	80B4						
26	259	53,32	1,62	ZG43	SMR	80B4						
19	362	72,99	1,16	ZG42	SMB	80B4			28	289		
21	327	66,39	1,28	ZG42	SMB	80B4						
22	312	61,76	1,34	ZG42	SMB	80B4						
26	264	53,03	1,59	ZG42	SMB	80B4						
29	237	48,09	1,77	ZG42	SMB	80B4						
31	221	44,87	1,89	ZG42	SMB	80B4						
34	202	40,77	2,08	ZG42	SMB	80B4						
37	185	37,11	2,26	ZG42	SMB	80B4						
41	167	33,78	2,50	ZG42	SMB	80B4						
46	149	29,80	2,81	ZG42	SMB	80B4						
51	134	27,05	3,11	ZG42	SMR	80B4						
56	122	24,72	3,42	ZG42	SMR	80B4						
59	116	23,35	3,60	ZG42	SMR	80B4						
67	102	20,39	4,09	ZG42	SMR	80B4						
34	202	40,08	1,02	ZG42	SMB	80B4						
38	181	36,45	1,51	ZG42	SMB	80B4						
41	167	33,91	1,79	ZG42	SMB	80B4						
47	146	29,12	2,32	ZG42	SMB	80B4						
52	132	26,41	2,80	ZG42	SMB	80B4						

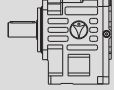




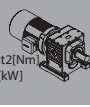
P	n ₂	Mt ₂	i	f _b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
0,75	56	122	24,64	3,23	ZG42	SMB 80B4	28	289		
	61	112	22,39	3,54	ZG42	SMB 80B4				
	67	102	20,38	3,90	ZG42	SMB 80B4				
	74	92	18,55	4,30	ZG42	SMB 80B4				
	23	293	60,78	0,96	ZG33	SMR 80B4	27	288		
	26	259	52,31	1,08	ZG33	SMR 80B4				
	32	210	43,52	1,33	ZG33	SMR 80B4				
	36	187	38,55	1,50	ZG33	SMR 80B4				
	25	275	54,27	1,02	ZG32	SMB 80B4	25	287		
	30	229	46,28	1,22	ZG32	SMB 80B4				
	33	208	41,82	1,34	ZG32	SMB 80B4				
	36	191	38,04	1,47	ZG32	SMB 80B4				
	40	171	34,81	1,63	ZG32	SMB 80B4				
	42	163	32,73	1,71	ZG32	SMB 80B4				
	46	149	29,65	1,87	ZG32	SMB 80B4				
	53	129	26,06	2,16	ZG32	SMB 80B4				
	61	112	22,73	2,48	ZG32	SMR 80B4				
	66	104	20,96	2,69	ZG32	SMR 80B4				
	71	96	19,39	2,89	ZG32	SMR 80B4				
	82	83	16,73	3,18	ZG32	SMR 80B4				
	86	80	15,94	3,26	ZG32	SMR 80B4				
	96	71	14,29	3,56	ZG32	SMR 80B4				
	113	60	12,20	3,94	ZG32	SMR 80B4				
	131	52	10,48	4,40	ZG32	SMR 80B4				
	38	177	36,04	1,01	ZG23	SMR 80B4			22	286
	39	176	35,57	1,02	ZG22	SMB 80B4			20	285
	42	163	32,54	1,10	ZG22	SMB 80B4				
	45	152	30,60	1,18	ZG22	SMB 80B4				
	50	137	27,72	1,31	ZG22	SMB 80B4				
	56	122	24,37	1,47	ZG22	SMB 80B4				
	65	105	21,25	1,70	ZG22	SMR 80B4				
	70	98	19,60	1,83	ZG22	SMR 80B4				
	76	90	18,13	1,98	ZG22	SMR 80B4				
88	78	15,64	2,16	ZG22	SMR 80B4					
92	74	14,91	2,22	ZG22	SMR 80B4					
103	67	13,36	2,46	ZG22	SMR 80B4					
121	56	11,41	2,71	ZG22	SMR 80B4					
140	49	9,80	3,01	ZG22	SMR 80B4					
163	42	8,45	3,34	ZG22	SMR 80B4					
197	35	6,97	3,84	ZG22	SMR 80B4					
43	160	31,64	1,07	ZG22	SMB 80B4					
47	146	29,30	1,22	ZG22	SMB 80B4					
51	134	26,77	1,33	ZG22	SMB 80B4					
60	114	22,83	1,57	ZG22	SMB 80B4					
67	102	20,63	1,75	ZG22	SMB 80B4					
73	94	18,77	1,91	ZG22	SMB 80B4					
80	86	17,17	2,06	ZG22	SMB 80B4					
85	81	16,15	2,15	ZG22	SMB 80B4					

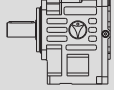




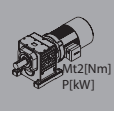
P	n ₂	Mt ₂	i	f _B			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
0,75	94	73	14,63	2,27	ZG22	SMB	80B4	20	285		
	107	64	12,86	2,49	ZG22	SMB	80B4				
	123	55	11,21	2,75	ZG22	SMR	80B4				
	133	51	10,34	2,94	ZG22	SMR	80B4				
	144	47	9,57	3,10	ZG22	SMR	80B4				
	167	41	8,25	3,42	ZG22	SMR	80B4				
	175	39	7,87	3,49	ZG22	SMR	80B4				
	195	35	7,05	3,80	ZG22	SMR	80B4				
	228	30	6,02	4,38	ZG22	SMR	80B4				
	71	96	19,25	0,99	ZG12	SMB	80B4			16	284
	83	82	16,63	1,10	ZG12	SMR	80B4				
	93	74	14,82	1,18	ZG12	SMR	80B4				
	104	66	13,22	1,27	ZG12	SMR	80B4				
	116	59	11,90	1,33	ZG12	SMR	80B4				
	125	55	11,04	1,38	ZG12	SMR	80B4				
	145	47	9,50	1,56	ZG12	SMR	80B4				
	174	39	7,90	1,72	ZG12	SMR	80B4				
	196	35	7,00	1,74	ZG12	SMR	80B4				
	72	95	19,22	1,00	ZG12	SMB	80B4				
	79	87	17,51	1,08	ZG12	SMB	80B4				
	88	78	15,71	1,18	ZG12	SMB	80B4				
	92	74	14,87	1,18	ZG12	SMB	80B4				
	106	65	12,96	1,26	ZG12	SMB	80B4				
	123	56	11,20	1,38	ZG12	SMR	80B4				
	138	49	9,98	1,48	ZG12	SMR	80B4				
	154	44	8,90	1,59	ZG12	SMR	80B4				
	172	40	8,01	1,63	ZG12	SMR	80B4				
	185	37	7,43	1,64	ZG12	SMR	80B4				
215	32	6,40	1,69	ZG12	SMR	80B4					
258	26	5,32	1,80	ZG12	SMR	80B4					
292	23	4,71	1,83	ZG12	SMR	80B4					
1,10	0,92	10532	1536,94	1,90	ZG134	SMB	90S4	715	330		
	1	9689	1396,92	2,06	ZG134	SMB	90S4				
	1,1	8808	1278,44	2,27	ZG134	SMB	90S4				
	1,2	8074	1176,89	2,48	ZG134	SMB	90S4				
	1,3	7453	1074,55	2,68	ZG134	SMB	90S4				
	1,4	6921	980,87	2,89	ZG134	SMB	90S4				
	1,6	6055	883,52	3,30	ZG134	SMB	90S4				
	1,8	5383	770,10	3,72	ZG134	SMB	90S4				
	1,9	5099	724,80	3,92	ZG134	SMB	90S4				
	2,1	4614	668,61	4,33	ZG134	SMR	90S4				
	0,91	10647	1547,69	1,27	ZG124	SMB	90S4	503	124		
	1	9689	1406,69	1,39	ZG124	SMB	90S4				
	1,1	8808	1287,38	1,53	ZG124	SMB	90S4				
	1,2	8074	1185,12	1,67	ZG124	SMB	90S4				
	1,3	7453	1082,07	1,81	ZG124	SMB	90S4				
	1,4	6921	987,73	1,95	ZG124	SMB	90S4				
	1,6	6055	889,70	2,23	ZG124	SMB	90S4				

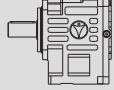




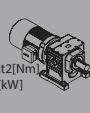
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
1,10	1,8	5383	775,48	2,51	ZG124	SMB	90S4	
	1,9	5099	729,87	2,65	ZG124	SMB	90S4	
	2,1	4614	673,29	2,93	ZG124	SMR	90S4	
	2,3	4212	605,96	3,20	ZG124	SMR	90S4	503 324
	2,6	3726	545,04	3,62	ZG124	SMR	90S4	
	2,8	3460	508,76	3,90	ZG124	SMR	90S4	
	3,2	3028	446,57	4,46	ZG124	SMR	90S4	
	1,2	8074	1174,15	1,02	ZG114	SMB	90S4	
1,4	6921	1032,00	1,18	ZG114	SMB	90S4		
1,6	6056	900,00	1,35	ZG114	SMB	90S4		
1,7	5699	830,12	1,44	ZG114	SMB	90S4		
1,8	5383	768,00	1,52	ZG114	SMR	90S4		
2,1	4614	662,40	1,78	ZG114	SMR	90S4	353 318	
2,2	4404	631,38	1,86	ZG114	SMR	90S4		
2,5	3875	565,71	2,12	ZG114	SMR	90S4		
2,9	3341	483,10	2,45	ZG114	SMR	90S4		
3,4	2849	415,06	2,88	ZG114	SMR	90S4		
3,9	2484	358,05	3,30	ZG114	SMR	90S4		
4,8	2018	295,02	4,06	ZG114	SMR	90S4		
1,9	5099	758,10	0,96	ZG104	SMB	90S4		
2	4844	701,37	1,01	ZG104	SMR	90S4		
2,3	4212	604,93	1,16	ZG104	SMR	90S4		
2,4	4037	576,61	1,21	ZG104	SMR	90S4		
2,7	3588	516,63	1,37	ZG104	SMR	90S4	238 312	
3,2	3028	441,18	1,62	ZG104	SMR	90S4		
3,7	2618	379,05	1,87	ZG104	SMR	90S4		
4,3	2253	326,99	2,17	ZG104	SMR	90S4		
5,2	1863	269,43	2,63	ZG104	SMR	90S4		
4	2471	352,68	1,98	ZG103	SMB	90S4		
4,4	2247	320,55	2,18	ZG103	SMB	90S4		
4,8	2059	293,36	2,38	ZG103	SMB	90S4		
5,2	1901	270,06	2,58	ZG103	SMB	90S4		
5,7	1734	246,57	2,82	ZG103	SMB	90S4	235 310	
6,3	1569	225,08	3,12	ZG103	SMB	90S4		
7	1412	202,74	3,47	ZG103	SMB	90S4		
8	1235	176,71	3,96	ZG103	SMB	90S4		
8,5	1163	166,32	4,21	ZG103	SMB	90S4		
3	3229	470,72	0,96	ZG94	SMR	90S4		
3,5	2768	404,42	1,12	ZG94	SMR	90S4	175 306	
4	2422	348,88	1,28	ZG94	SMR	90S4		
4,9	1977	287,46	1,57	ZG94	SMR	90S4		
3,7	2672	376,28	1,16	ZG93	SMB	90S4		
4,1	2411	342,00	1,29	ZG93	SMB	90S4		
4,5	2197	313,00	1,41	ZG93	SMB	90S4		
4,9	2017	288,14	1,54	ZG93	SMB	90S4	172 304	
5,4	1831	263,08	1,69	ZG93	SMB	90S4		
5,9	1675	240,15	1,85	ZG93	SMB	90S4		
6,5	1521	216,31	2,04	ZG93	SMB	90S4		

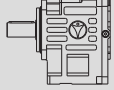




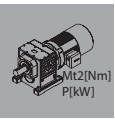
P	n ₂	Mt ₂	i	f _B			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
1,10	7,5	1318	188,54	2,35	ZG93	SMB	90S4	172	304	
	7,9	1251	177,45	2,48	ZG93	SMB	90S4			
	8,6	1149	163,69	2,70	ZG93	SMR	90S4			
	9,6	1029	147,33	3,01	ZG93	SMR	90S4			
	11	898	132,51	3,45	ZG93	SMR	90S4			
	13	760	108,57	4,08	ZG93	SMR	90S4			
	5,2	1901	270,18	1,00	ZG83	SMB	90S4	78	300	
	5,6	1765	254,05	1,08	ZG83	SMB	90S4			
	6,1	1620	230,16	1,17	ZG83	SMB	90S4			
	7	1412	202,30	1,35	ZG83	SMB	90S4			
	8	1235	176,42	1,54	ZG83	SMB	90S4			
	8,7	1136	162,72	1,67	ZG83	SMB	90S4			
	9,4	1051	150,55	1,81	ZG83	SMR	90S4			
	11	898	129,85	2,11	ZG83	SMR	90S4			
	13	760	110,89	2,50	ZG83	SMR	90S4			
	15	659	94,70	2,88	ZG83	SMR	90S4			
17	581	81,36	3,27	ZG83	SMR	90S4				
20	494	70,19	3,84	ZG83	SMR	90S4				
6,6	1498	214,51	0,97	ZG73	SMB	90S4	68			297
7,5	1318	188,54	1,10	ZG73	SMB	90S4				
8,6	1149	164,42	1,26	ZG73	SMB	90S4				
9,3	1063	151,66	1,36	ZG73	SMB	90S4				
10	988	140,31	1,47	ZG73	SMR	90S4				
12	823	121,02	1,76	ZG73	SMR	90S4				
14	706	103,35	2,05	ZG73	SMR	90S4				
16	617	88,26	2,35	ZG73	SMR	90S4				
19	520	75,83	2,79	ZG73	SMR	90S4				
22	449	65,41	3,23	ZG73	SMR	90S4				
26	380	53,90	3,81	ZG73	SMR	90S4				
13	760	111,93	1,08	ZG63	SMR	90S4		48	294	
15	659	95,60	1,24	ZG63	SMR	90S4				
17	581	81,63	1,41	ZG63	SMR	90S4				
20	494	70,14	1,66	ZG63	SMR	90S4				
23	429	60,50	1,91	ZG63	SMR	90S4				
28	353	49,85	2,32	ZG63	SMR	90S4				
22	458	65,26	1,79	ZG62	SMB	90S4	46			293
24	420	59,31	1,95	ZG62	SMB	90S4				
26	388	54,28	2,11	ZG62	SMB	90S4				
28	360	49,97	2,28	ZG62	SMB	90S4				
31	325	45,63	2,52	ZG62	SMB	90S4				
34	296	41,65	2,76	ZG62	SMB	90S4				
38	265	37,51	3,07	ZG62	SMB	90S4				
43	234	32,70	3,43	ZG62	SMB	90S4				
46	219	30,77	3,63	ZG62	SMB	90S4				
50	201	28,39	3,89	ZG62	SMR	90S4				
55	183	25,55	4,15	ZG62	SMR	90S4				
61	165	22,98	4,47	ZG62	SMR	90S4				
35	288	39,93	1,88	ZG62	SMB	90S4				

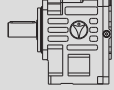




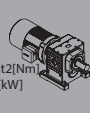
P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
1,10	39	258	36,29	2,40	ZG62	SMB 90S4	46	293	
	42	240	33,21	2,79	ZG62	SMB 90S4			
	46	219	30,58	3,27	ZG62	SMB 90S4			
	51	197	27,92	3,82	ZG62	SMB 90S4			
	55	183	25,48	4,36	ZG62	SMB 90S4			
	19	520	74,02	1,06	ZG53	SMR 90S4	43	292	
	23	429	61,58	1,28	ZG53	SMR 90S4			
	26	380	54,54	1,45	ZG53	SMR 90S4			
	21	480	67,91	1,09	ZG52	SMB 90S4	40	291	
	22	458	63,18	1,18	ZG52	SMB 90S4			
	26	388	54,25	1,41	ZG52	SMB 90S4			
	29	347	49,19	1,58	ZG52	SMB 90S4			
	31	325	45,90	1,69	ZG52	SMB 90S4			
	34	296	41,71	1,85	ZG52	SMB 90S4			
	37	272	37,97	2,02	ZG52	SMB 90S4			
	41	246	34,55	2,24	ZG52	SMB 90S4			
	46	219	30,48	2,51	ZG52	SMB 90S4			
	51	197	27,67	2,78	ZG52	SMB 90S4			
	56	180	25,29	3,05	ZG52	SMB 90S4			
	59	171	23,88	3,22	ZG52	SMR 90S4			
68	148	20,85	3,71	ZG52	SMR 90S4				
76	132	18,54	4,14	ZG52	SMR 90S4				
23	429	60,20	0,98	ZG43	SMR 90S4	35			290
26	380	53,32	1,10	ZG43	SMR 90S4				
23	438	61,76	0,96	ZG42	SMB 90S4	32			289
27	373	53,03	1,12	ZG42	SMB 90S4				
29	347	48,09	1,21	ZG42	SMB 90S4				
31	325	44,87	1,29	ZG42	SMB 90S4				
35	288	40,77	1,46	ZG42	SMB 90S4				
38	265	37,11	1,58	ZG42	SMB 90S4				
42	240	33,78	1,75	ZG42	SMB 90S4				
47	214	29,80	1,96	ZG42	SMB 90S4				
52	194	27,05	2,16	ZG42	SMB 90S4				
57	177	24,72	2,37	ZG42	SMB 90S4				
60	168	23,35	2,50	ZG42	SMR 90S4				
69	146	20,39	2,87	ZG42	SMR 90S4				
78	129	18,12	3,25	ZG42	SMR 90S4				
85	118	16,51	3,54	ZG42	SMR 90S4				
98	102	14,34	3,90	ZG42	SMR 90S4				
112	90	12,55	4,31	ZG42	SMR 90S4				
39	258	36,45	1,06	ZG42	SMB 90S4				
42	240	33,91	1,25	ZG42	SMB 90S4				
48	210	29,12	1,61	ZG42	SMB 90S4				
53	190	26,41	1,95	ZG42	SMB 90S4				
57	177	24,64	2,24	ZG42	SMB 90S4				
63	160	22,39	2,49	ZG42	SMB 90S4				
69	146	20,38	2,74	ZG42	SMB 90S4				
76	132	18,55	3,01	ZG42	SMB 90S4				

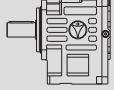




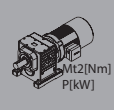
P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
1,10	86	117	16,36	3,41	ZG42	SMB 90S4	32	289
	95	106	14,85	3,77	ZG42	SMB 90S4		
	104	97	13,58	4,12	ZG42	SMB 90S4		
	110	91	12,82	4,36	ZG42	SMR 90S4		
	37	267	38,55	1,05	ZG33	SMR 90S4	31	288
	37	272	38,04	1,03	ZG32	SMB 90S4	30	287
	41	246	34,81	1,14	ZG32	SMB 90S4		
	43	234	32,73	1,19	ZG32	SMB 90S4		
	48	210	29,65	1,33	ZG32	SMB 90S4		
	54	186	26,06	1,50	ZG32	SMB 90S4		
	62	162	22,73	1,72	ZG32	SMB 90S4		
	67	150	20,96	1,86	ZG32	SMB 90S4		
	73	138	19,39	2,03	ZG32	SMR 90S4		
	84	120	16,73	2,22	ZG32	SMR 90S4		
	88	114	15,94	2,28	ZG32	SMR 90S4		
	99	101	14,29	2,50	ZG32	SMR 90S4		
	116	86	12,20	2,76	ZG32	SMR 90S4		
	135	74	10,48	3,09	ZG32	SMR 90S4		
	156	64	9,04	3,40	ZG32	SMR 90S4		
	189	53	7,45	3,90	ZG32	SMR 90S4		
	58	173	24,37	1,03	ZG22	SMB 90S4		
	66	152	21,25	1,18	ZG22	SMB 90S4		
	72	140	19,60	1,28	ZG22	SMB 90S4		
	78	129	18,13	1,38	ZG22	SMR 90S4		
	90	112	15,64	1,51	ZG22	SMR 90S4		
	95	106	14,91	1,56	ZG22	SMR 90S4		
	106	95	13,36	1,72	ZG22	SMR 90S4		
	124	81	11,41	1,89	ZG22	SMR 90S4		
	144	70	9,80	2,11	ZG22	SMR 90S4		
	167	60	8,45	2,33	ZG22	SMR 90S4		
	202	50	6,97	2,68	ZG22	SMR 90S4		
	62	162	22,83	1,11	ZG22	SMB 90S4		
	68	148	20,63	1,21	ZG22	SMB 90S4		
	75	134	18,77	1,34	ZG22	SMB 90S4		
82	123	17,17	1,44	ZG22	SMB 90S4			
87	116	16,15	1,50	ZG22	SMB 90S4			
96	105	14,63	1,58	ZG22	SMB 90S4			
110	91	12,86	1,74	ZG22	SMB 90S4			
126	80	11,21	1,92	ZG22	SMB 90S4			
136	74	10,34	2,05	ZG22	SMB 90S4			
147	68	9,57	2,16	ZG22	SMR 90S4			
171	59	8,25	2,39	ZG22	SMR 90S4			
179	56	7,87	2,43	ZG22	SMR 90S4			
200	50	7,05	2,66	ZG22	SMR 90S4			
234	43	6,02	3,06	ZG22	SMR 90S4			
273	37	5,17	3,46	ZG22	SMR 90S4			
316	32	4,46	3,73	ZG22	SMR 90S4			
384	26	3,68	4,26	ZG22	SMR 90S4			

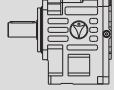




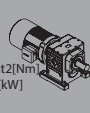
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
1,10	128	78	11,04	0,96	ZG12	SMR	90S4	
	148	68	9,50	1,09	ZG12	SMR	90S4	
	178	56	7,90	1,20	ZG12	SMR	90S4	
	201	50	7,00	1,22	ZG12	SMR	90S4	
	126	80	11,20	0,96	ZG12	SMB	90S4	
	141	71	9,98	1,03	ZG12	SMB	90S4	20
	158	63	8,90	1,11	ZG12	SMR	90S4	284
	176	57	8,01	1,13	ZG12	SMR	90S4	
	190	53	7,43	1,15	ZG12	SMR	90S4	
	220	45	6,40	1,18	ZG12	SMR	90S4	
	265	38	5,32	1,26	ZG12	SMR	90S4	
	299	33	4,71	1,27	ZG12	SMR	90S4	
1,50	0,91	14519	1536,94	1,38	ZG134	SMB	90L4	
	1	13212	1396,92	1,51	ZG134	SMB	90L4	
	1,1	12011	1278,44	1,67	ZG134	SMB	90L4	
	1,2	11010	1176,89	1,82	ZG134	SMB	90L4	
	1,3	10163	1074,55	1,97	ZG134	SMB	90L4	
	1,4	9437	980,87	2,12	ZG134	SMB	90L4	
	1,6	8258	883,52	2,42	ZG134	SMB	90L4	717
	1,8	7340	770,10	2,72	ZG134	SMB	90L4	330
	1,9	6954	724,80	2,88	ZG134	SMB	90L4	
	2,1	6291	668,61	3,18	ZG134	SMR	90L4	
	2,3	5744	601,75	3,48	ZG134	SMR	90L4	
	2,6	5081	541,26	3,94	ZG134	SMR	90L4	
	2,8	4718	505,23	4,24	ZG134	SMR	90L4	
	1	13212	1406,69	1,02	ZG124	SMB	90L4	
	1,1	12011	1287,38	1,12	ZG124	SMB	90L4	
	1,2	11010	1185,12	1,23	ZG124	SMB	90L4	
	1,3	10163	1082,07	1,33	ZG124	SMB	90L4	
	1,4	9437	987,73	1,43	ZG124	SMB	90L4	
	1,6	8258	889,70	1,63	ZG124	SMB	90L4	
	1,8	7340	775,48	1,84	ZG124	SMB	90L4	506
	1,9	6954	729,87	1,94	ZG124	SMB	90L4	324
	2,1	6291	673,29	2,15	ZG124	SMR	90L4	
	2,3	5744	605,96	2,35	ZG124	SMR	90L4	
	2,6	5082	545,04	2,66	ZG124	SMR	90L4	
	2,8	4718	508,76	2,86	ZG124	SMR	90L4	
	3,1	4262	446,57	3,17	ZG124	SMR	90L4	
	3,6	3670	395,19	3,68	ZG124	SMR	90L4	
	1,6	8258	900,00	0,99	ZG114	SMB	90L4	
	1,7	7772	830,12	1,06	ZG114	SMB	90L4	
	1,8	7340	768,00	1,12	ZG114	SMR	90L4	
2,1	6291	662,40	1,30	ZG114	SMR	90L4		
2,2	6005	631,38	1,37	ZG114	SMR	90L4	356	
2,5	5285	565,71	1,55	ZG114	SMR	90L4	318	
2,9	4556	483,10	1,80	ZG114	SMR	90L4		
3,4	3886	415,06	2,11	ZG114	SMR	90L4		
3,9	3388	358,05	2,42	ZG114	SMR	90L4		

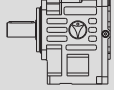
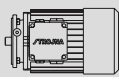



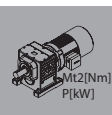
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
1,50	4,8	2752	295,02	2,98	ZG114	SMR 90L4	356	318
	2,7	4893	516,63	1,00	ZG104	SMR 90L4		
	3,2	4129	441,18	1,19	ZG104	SMR 90L4		
	3,7	3571	379,05	1,37	ZG104	SMR 90L4	240	312
	4,3	3072	326,99	1,59	ZG104	SMR 90L4		
	5,2	2540	269,43	1,93	ZG104	SMR 90L4		
	4	3370	352,68	1,45	ZG103	SMB 90L4		
	4,4	3064	320,55	1,60	ZG103	SMB 90L4		
	4,8	2808	293,36	1,74	ZG103	SMB 90L4		
	5,2	2592	270,06	1,89	ZG103	SMB 90L4		
	5,7	2365	246,57	2,07	ZG103	SMB 90L4		
	6,2	2174	225,08	2,25	ZG103	SMB 90L4		
	6,9	1954	202,74	2,51	ZG103	SMB 90L4	238	310
	8	1685	176,71	2,91	ZG103	SMB 90L4		
	8,4	1605	166,32	3,05	ZG103	SMB 90L4		
	9,2	1465	153,42	3,34	ZG103	SMR 90L4		
	10	1348	138,08	3,63	ZG103	SMR 90L4		
	11	1225	124,20	4,00	ZG103	SMR 90L4		
	12	1123	115,93	4,36	ZG103	SMR 90L4		
	4,9	2696	287,46	1,15	ZG94	SMR 90L4	177	306
	4,5	2996	313,00	1,03	ZG93	SMB 90L4		
	4,9	2751	288,14	1,13	ZG93	SMB 90L4		
	5,3	2543	263,08	1,22	ZG93	SMB 90L4		
	5,9	2285	240,15	1,36	ZG93	SMB 90L4		
	6,5	2074	216,31	1,49	ZG93	SMB 90L4		
	7,5	1797	188,54	1,72	ZG93	SMB 90L4		
	7,9	1706	177,45	1,82	ZG93	SMB 90L4	175	304
	8,6	1567	163,69	1,98	ZG93	SMR 90L4		
	9,5	1419	147,33	2,18	ZG93	SMR 90L4		
	11	1225	132,51	2,53	ZG93	SMR 90L4		
	13	1037	108,57	2,99	ZG93	SMR 90L4		
	15	898	96,08	3,45	ZG93	SMR 90L4		
	6,9	1954	202,30	0,97	ZG83	SMB 90L4		
	8	1685	176,42	1,13	ZG83	SMB 90L4		
	8,6	1567	162,72	1,21	ZG83	SMB 90L4		
	9,3	1449	150,55	1,31	ZG83	SMR 90L4		
	11	1225	129,85	1,55	ZG83	SMR 90L4		
	13	1037	110,89	1,83	ZG83	SMR 90L4	81	300
	15	898	94,70	2,11	ZG83	SMR 90L4		
	17	793	81,36	2,40	ZG83	SMR 90L4		
	20	674	70,19	2,82	ZG83	SMR 90L4		
	24	561	57,83	3,38	ZG83	SMR 90L4		
	9,3	1449	151,66	1,00	ZG73	SMB 90L4		
	10	1348	140,31	1,08	ZG73	SMR 90L4		
	12	1123	121,02	1,29	ZG73	SMR 90L4	71	297
	14	963	103,35	1,51	ZG73	SMR 90L4		
	16	842	88,26	1,72	ZG73	SMR 90L4		
	19	709	75,83	2,04	ZG73	SMR 90L4		

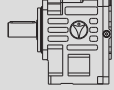




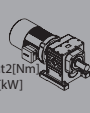
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
1,50	21	642	65,41	2,26	ZG73	SMR 90L4	71	297
	26	518	53,90	2,80	ZG73	SMR 90L4		
	17	793	81,63	1,03	ZG63	SMR 90L4	52	294
	20	674	70,14	1,22	ZG63	SMR 90L4		
	23	586	60,50	1,40	ZG63	SMR 90L4		
	28	481	49,85	1,70	ZG63	SMR 90L4		
	22	625	65,26	1,31	ZG62	SMB 90L4		
	24	573	59,31	1,43	ZG62	SMB 90L4	50	293
	26	529	54,28	1,55	ZG62	SMB 90L4		
	28	491	49,97	1,67	ZG62	SMB 90L4		
	31	443	45,63	1,85	ZG62	SMB 90L4		
	34	404	41,65	2,03	ZG62	SMB 90L4		
	37	371	37,51	2,19	ZG62	SMB 90L4		
	43	319	32,70	2,52	ZG62	SMB 90L4		
	46	300	30,77	2,66	ZG62	SMB 90L4		
	49	280	28,39	2,79	ZG62	SMR 90L4		
	55	250	25,55	3,04	ZG62	SMR 90L4		
	61	225	22,98	3,28	ZG62	SMR 90L4		
	65	211	21,45	3,40	ZG62	SMR 90L4		
	75	183	18,83	3,75	ZG62	SMR 90L4		
	84	163	16,66	4,04	ZG62	SMR 90L4		
	35	393	39,93	1,38	ZG62	SMB 90L4		
	39	352	36,29	1,76	ZG62	SMB 90L4		
	42	327	33,21	2,05	ZG62	SMB 90L4		
	46	300	30,58	2,40	ZG62	SMB 90L4		
	50	275	27,92	2,75	ZG62	SMB 90L4		
	55	250	25,48	3,20	ZG62	SMB 90L4		
	61	225	22,95	3,64	ZG62	SMB 90L4		
	70	196	20,01	4,17	ZG62	SMB 90L4		
	75	183	18,83	4,42	ZG62	SMB 90L4		
	26	518	54,54	1,06	ZG53	SMR 90L4	45	292
	26	529	54,25	1,04	ZG52	SMB 90L4	42	291
	29	474	49,19	1,16	ZG52	SMB 90L4		
	31	443	45,90	1,24	ZG52	SMB 90L4		
	34	404	41,71	1,36	ZG52	SMB 90L4		
	37	371	37,97	1,48	ZG52	SMB 90L4		
	41	335	34,55	1,64	ZG52	SMB 90L4		
	46	299	30,48	1,84	ZG52	SMB 90L4		
	51	269	27,67	2,04	ZG52	SMB 90L4		
	56	245	25,29	2,24	ZG52	SMB 90L4		
	59	233	23,88	2,36	ZG52	SMR 90L4		
	67	205	20,85	2,68	ZG52	SMR 90L4		
	76	181	18,54	3,04	ZG52	SMR 90L4		
	83	165	16,89	3,32	ZG52	SMR 90L4		
	96	143	14,67	3,67	ZG52	SMR 90L4		
	109	126	12,83	4,02	ZG52	SMR 90L4		
	34	404	40,77	1,04	ZG42	SMB 90L4		
	38	362	37,11	1,16	ZG42	SMB 90L4		

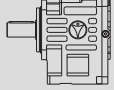




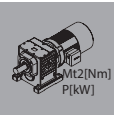
P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
1,50	42	327	33,78	1,28	ZG42	SMB	90L4	
	47	292	29,80	1,43	ZG42	SMB	90L4	
	52	264	27,05	1,59	ZG42	SMB	90L4	
	57	241	24,72	1,74	ZG42	SMB	90L4	
	60	229	23,35	1,83	ZG42	SMR	90L4	
	69	199	20,39	2,11	ZG42	SMR	90L4	
	78	176	18,12	2,38	ZG42	SMR	90L4	
	85	161	16,51	2,59	ZG42	SMR	90L4	
	98	140	14,34	2,86	ZG42	SMR	90L4	
	112	122	12,55	3,16	ZG42	SMR	90L4	
	48	286	29,12	1,18	ZG42	SMB	90L4	
	53	259	26,41	1,43	ZG42	SMB	90L4	35
	57	241	24,64	1,64	ZG42	SMB	90L4	289
	63	218	22,39	1,83	ZG42	SMB	90L4	
	69	199	20,38	2,01	ZG42	SMB	90L4	
	76	181	18,55	2,21	ZG42	SMB	90L4	
	86	160	16,36	2,50	ZG42	SMB	90L4	
	95	144	14,85	2,76	ZG42	SMB	90L4	
	103	133	13,58	2,99	ZG42	SMB	90L4	
	110	125	12,82	3,20	ZG42	SMR	90L4	
	126	109	11,19	3,66	ZG42	SMR	90L4	
	141	97	9,95	4,06	ZG42	SMR	90L4	
	155	88	9,06	4,43	ZG42	SMR	90L4	
	47	292	29,65	0,96	ZG32	SMB	90L4	
	54	254	26,06	1,10	ZG32	SMB	90L4	
	62	221	22,73	1,26	ZG32	SMB	90L4	
	67	205	20,96	1,36	ZG32	SMB	90L4	
	72	191	19,39	1,47	ZG32	SMR	90L4	
	84	163	16,73	1,63	ZG32	SMR	90L4	
	88	156	15,94	1,67	ZG32	SMR	90L4	32
	98	140	14,29	1,82	ZG32	SMR	90L4	287
	115	119	12,20	2,01	ZG32	SMR	90L4	
	134	102	10,48	2,25	ZG32	SMR	90L4	
	155	88	9,04	2,48	ZG32	SMR	90L4	
	189	72	7,45	2,86	ZG32	SMR	90L4	
	77	178	18,13	1,00	ZG22	SMR	90L4	
	90	152	15,64	1,11	ZG22	SMR	90L4	
	94	146	14,91	1,13	ZG22	SMR	90L4	
	105	131	13,36	1,25	ZG22	SMR	90L4	
	123	111	11,41	1,38	ZG22	SMR	90L4	
	143	96	9,80	1,54	ZG22	SMR	90L4	
	166	82	8,45	1,70	ZG22	SMR	90L4	27
	202	68	6,97	1,97	ZG22	SMR	90L4	285
	75	183	18,77	0,98	ZG22	SMB	90L4	
	82	167	17,17	1,05	ZG22	SMB	90L4	
	87	158	16,15	1,10	ZG22	SMB	90L4	
	96	143	14,63	1,16	ZG22	SMB	90L4	
	109	126	12,86	1,27	ZG22	SMB	90L4	

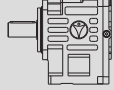




P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
2,20	7,3	2708	192,00	3,03	ZG113	SMB	100L4	
	8,1	2441	174,77	3,36	ZG113	SMB	100L4	
	9	2197	156,80	3,73	ZG113	SMR	100L4	356 316
	9,9	1997	142,22	4,11	ZG113	SMR	100L4	
	4,3	4506	326,99	1,09	ZG104	SMR	100L4	
	5,2	3726	269,43	1,31	ZG104	SMR	100L4	245 312
	4,4	4494	320,55	1,09	ZG103	SMB	100L4	
	4,8	4119	293,36	1,19	ZG103	SMB	100L4	
	5,2	3802	270,06	1,29	ZG103	SMB	100L4	
	5,7	3469	246,57	1,41	ZG103	SMB	100L4	
	6,3	3138	225,08	1,56	ZG103	SMB	100L4	
	7	2824	202,74	1,73	ZG103	SMB	100L4	
	8	2471	176,71	1,98	ZG103	SMB	100L4	
	8,5	2326	166,32	2,11	ZG103	SMB	100L4	242 310
	9,2	2149	153,42	2,28	ZG103	SMB	100L4	
	10	1977	138,08	2,48	ZG103	SMR	100L4	
	11	1797	124,20	2,73	ZG103	SMR	100L4	
	12	1647	115,93	2,97	ZG103	SMR	100L4	
	14	1412	101,76	3,47	ZG103	SMR	100L4	
16	1235	90,05	3,96	ZG103	SMR	100L4		
6,5	3042	216,31	1,02	ZG93	SMB	100L4		
7,5	2636	188,54	1,18	ZG93	SMB	100L4		
7,9	2503	177,45	1,24	ZG93	SMB	100L4		
8,6	2299	163,69	1,35	ZG93	SMB	100L4		
9,6	2059	147,33	1,50	ZG93	SMR	100L4		
11	1797	132,51	1,72	ZG93	SMR	100L4		
13	1521	108,57	2,04	ZG93	SMR	100L4	180 304	
15	1318	96,08	2,35	ZG93	SMR	100L4		
17	1163	80,95	2,67	ZG93	SMR	100L4		
20	988	68,95	3,14	ZG93	SMR	100L4		
24	823	59,19	3,76	ZG93	SMR	100L4		
28	706	51,11	4,39	ZG93	SMR	100L4		
11	1797	129,85	1,06	ZG83	SMR	100L4		
13	1521	110,89	1,25	ZG83	SMR	100L4		
15	1318	94,70	1,44	ZG83	SMR	100L4		
17	1163	81,36	1,63	ZG83	SMR	100L4	86 300	
20	988	70,19	1,92	ZG83	SMR	100L4		
24	823	57,83	2,31	ZG83	SMR	100L4		
22	917	64,66	2,07	ZG82	SMB	100L4		
25	807	55,41	2,35	ZG82	SMB	100L4		
28	720	50,66	2,64	ZG82	SMB	100L4		
31	650	44,95	2,92	ZG82	SMB	100L4		
35	576	39,99	3,30	ZG82	SMB	100L4		
37	545	37,64	3,48	ZG82	SMB	100L4	85 299	
41	492	34,26	3,86	ZG82	SMB	100L4		
46	438	30,74	4,33	ZG82	SMR	100L4		
37	545	38,20	3,15	ZG82	SMB	100L4		
43	469	32,74	3,76	ZG82	SMB	100L4		

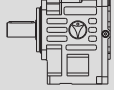




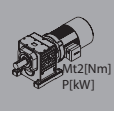
P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
2,20	47	429	29,93	4,16	ZG82	SMB 100L4	85	299
	14	1412	103,35	1,03	ZG73	SMR 100L4		
	16	1235	88,26	1,17	ZG73	SMR 100L4		
	19	1040	75,83	1,39	ZG73	SMR 100L4	75	297
	22	898	65,41	1,61	ZG73	SMR 100L4		
	26	760	53,90	1,91	ZG73	SMR 100L4		
	23	877	60,26	1,60	ZG72	SMB 100L4		
	27	747	51,64	1,91	ZG72	SMB 100L4		
	30	672	47,22	2,16	ZG72	SMB 100L4		
	34	593	41,90	2,44	ZG72	SMB 100L4		
	38	531	37,27	2,73	ZG72	SMB 100L4		
	40	504	35,08	2,87	ZG72	SMB 100L4	74	296
	44	458	31,93	3,16	ZG72	SMB 100L4		
	49	411	28,65	3,52	ZG72	SMR 100L4		
	54	373	25,98	3,88	ZG72	SMR 100L4		
	59	342	24,00	4,24	ZG72	SMR 100L4		
	23	859	60,50	0,95	ZG63	SMR 100L4		
	28	706	49,85	1,16	ZG63	SMR 100L4	56	294
	24	840	59,31	0,98	ZG62	SMB 100L4		
	26	776	54,28	1,06	ZG62	SMB 100L4		
	28	720	49,97	1,14	ZG62	SMB 100L4		
	31	650	45,63	1,26	ZG62	SMB 100L4		
	34	593	41,65	1,38	ZG62	SMB 100L4		
	38	531	37,51	1,53	ZG62	SMB 100L4		
	43	469	32,70	1,72	ZG62	SMB 100L4		
	46	438	30,77	1,82	ZG62	SMB 100L4		
	50	403	28,39	1,94	ZG62	SMB 100L4		
	55	366	25,55	2,07	ZG62	SMR 100L4		
	61	330	22,98	2,23	ZG62	SMR 100L4		
	66	305	21,45	2,36	ZG62	SMR 100L4		
	75	269	18,83	2,56	ZG62	SMR 100L4		
	85	237	16,66	2,78	ZG62	SMR 100L4		
	100	201	14,04	3,15	ZG62	SMR 100L4		
	118	171	11,96	3,58	ZG62	SMR 100L4	54	293
	137	147	10,27	4,00	ZG62	SMR 100L4		
	159	126	8,86	4,46	ZG62	SMR 100L4		
	39	517	36,29	1,20	ZG62	SMB 100L4		
	42	480	33,21	1,40	ZG62	SMB 100L4		
	46	438	30,58	1,63	ZG62	SMB 100L4		
	51	395	27,92	1,91	ZG62	SMB 100L4		
	55	366	25,48	2,18	ZG62	SMB 100L4		
	61	330	22,95	2,48	ZG62	SMB 100L4		
	70	288	20,01	2,84	ZG62	SMB 100L4		
	75	269	18,83	3,01	ZG62	SMB 100L4		
	81	249	17,37	3,21	ZG62	SMB 100L4		
	90	224	15,63	3,55	ZG62	SMR 100L4		
	100	201	14,06	3,88	ZG62	SMR 100L4		
	107	188	13,13	4,10	ZG62	SMR 100L4		

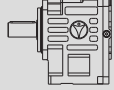




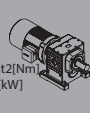
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
2,20	37	545	37,97	1,01	ZG52	SMB	100L4	
	41	492	34,55	1,12	ZG52	SMB	100L4	
	46	438	30,48	1,25	ZG52	SMB	100L4	
	51	395	27,67	1,39	ZG52	SMB	100L4	
	56	360	25,29	1,53	ZG52	SMB	100L4	
	59	342	23,88	1,61	ZG52	SMB	100L4	
	68	296	20,85	1,85	ZG52	SMR	100L4	
	76	265	18,54	2,07	ZG52	SMR	100L4	47 291
	84	240	16,89	2,29	ZG52	SMR	100L4	
	96	210	14,67	2,50	ZG52	SMR	100L4	
	110	183	12,83	2,77	ZG52	SMR	100L4	
	133	151	10,61	3,18	ZG52	SMR	100L4	
	159	126	8,85	3,62	ZG52	SMR	100L4	
	190	106	7,42	4,11	ZG52	SMR	100L4	
	214	94	6,60	4,50	ZG52	SMR	100L4	
	47	429	29,80	0,98	ZG42	SMB	100L4	
	52	388	27,05	1,08	ZG42	SMB	100L4	
	57	354	24,72	1,19	ZG42	SMB	100L4	
	60	336	23,35	1,25	ZG42	SMB	100L4	
	69	292	20,39	1,44	ZG42	SMR	100L4	
78	258	18,12	1,62	ZG42	SMR	100L4		
85	237	16,51	1,77	ZG42	SMR	100L4		
98	205	14,34	1,95	ZG42	SMR	100L4		
112	180	12,55	2,15	ZG42	SMR	100L4		
136	148	10,37	2,49	ZG42	SMR	100L4		
163	123	8,65	2,84	ZG42	SMR	100L4		
194	104	7,25	3,20	ZG42	SMR	100L4		
219	92	6,45	3,52	ZG42	SMR	100L4		
53	380	26,41	0,97	ZG42	SMB	100L4	40 289	
57	354	24,64	1,12	ZG42	SMB	100L4		
63	320	22,39	1,25	ZG42	SMB	100L4		
69	292	20,38	1,37	ZG42	SMB	100L4		
76	265	18,55	1,51	ZG42	SMB	100L4		
86	234	16,36	1,70	ZG42	SMB	100L4		
95	212	14,85	1,88	ZG42	SMB	100L4		
104	194	13,58	2,06	ZG42	SMB	100L4		
110	183	12,82	2,18	ZG42	SMB	100L4		
126	160	11,19	2,50	ZG42	SMR	100L4		
142	142	9,95	2,79	ZG42	SMR	100L4		
156	129	9,06	3,04	ZG42	SMR	100L4		
179	112	7,87	3,42	ZG42	SMR	100L4		
205	98	6,89	3,84	ZG42	SMR	100L4		
248	81	5,70	4,49	ZG42	SMR	100L4		
73	276	19,39	1,01	ZG32	SMB	100L4		
84	240	16,73	1,11	ZG32	SMR	100L4		
88	229	15,94	1,14	ZG32	SMR	100L4	37 287	
99	203	14,29	1,25	ZG32	SMR	100L4		
116	173	12,20	1,38	ZG32	SMR	100L4		

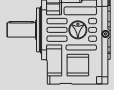




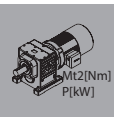
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
2,20	135	149	10,48	1,55	ZG32	SMR 100L4		
	156	129	9,04	1,70	ZG32	SMR 100L4	37	287
	189	106	7,45	1,95	ZG32	SMR 100L4		
	126	160	11,21	0,96	ZG22	SMB 100L4		
	136	148	10,34	1,02	ZG22	SMB 100L4		
	147	137	9,57	1,08	ZG22	SMB 100L4		
	171	118	8,25	1,19	ZG22	SMR 100L4		
	179	112	7,87	1,22	ZG22	SMR 100L4	32	285
	200	100	7,05	1,33	ZG22	SMR 100L4		
	234	86	6,02	1,53	ZG22	SMR 100L4		
	273	74	5,17	1,73	ZG22	SMR 100L4		
	316	63	4,46	1,86	ZG22	SMR 100L4		
	384	52	3,68	2,13	ZG22	SMR 100L4		
	3,00	1,3	20327	1074,55	0,98	ZG134	SMB 100Ld4	
1,4		18875	980,87	1,06	ZG134	SMB 100Ld4		
1,6		16516	883,52	1,21	ZG134	SMB 100Ld4		
1,8		14681	770,10	1,36	ZG134	SMB 100Ld4		
1,9		13908	724,80	1,44	ZG134	SMB 100Ld4		
2,1		12583	668,61	1,59	ZG134	SMB 100Ld4		
2,3		11489	601,75	1,74	ZG134	SMR 100Ld4	725	330
2,6		10163	541,26	1,97	ZG134	SMR 100Ld4		
2,8		9437	505,23	2,12	ZG134	SMR 100Ld4		
3,2		8258	443,47	2,42	ZG134	SMR 100Ld4		
3,6		7340	392,45	2,72	ZG134	SMR 100Ld4		
4,3		6145	330,63	3,25	ZG134	SMR 100Ld4		
5		5285	281,61	3,78	ZG134	SMR 100Ld4		
5,8		4556	241,77	4,39	ZG134	SMR 100Ld4		
1,9		13908	729,87	0,97	ZG124	SMB 100Ld4		
2,1		12583	673,29	1,07	ZG124	SMB 100Ld4		
2,3		11489	605,96	1,17	ZG124	SMR 100Ld4		
2,6		10163	545,04	1,33	ZG124	SMR 100Ld4		
2,8		9437	508,76	1,43	ZG124	SMR 100Ld4		
3,2		8258	446,57	1,63	ZG124	SMR 100Ld4	513	324
3,6		7340	395,19	1,84	ZG124	SMR 100Ld4		
4,2		6291	332,94	2,15	ZG124	SMR 100Ld4		
5		5285	283,58	2,55	ZG124	SMR 100Ld4		
5,8		4556	243,47	2,96	ZG124	SMR 100Ld4		
6,7		3944	210,23	3,42	ZG124	SMR 100Ld4		
7,7		3431	182,24	3,93	ZG124	SMR 100Ld4		
3,4		7772	415,06	1,06	ZG114	SMR 100Ld4		
3,9		6775	358,05	1,21	ZG114	SMR 100Ld4	363	318
4,8		5505	295,02	1,49	ZG114	SMR 100Ld4		
4,3		6270	329,85	1,31	ZG113	SMB 100Ld4		
5		5393	282,67	1,52	ZG113	SMB 100Ld4		
5,5		4902	258,46	1,67	ZG113	SMB 100Ld4	358	316
6,1	4420	229,33	1,85	ZG113	SMB 100Ld4			
6,9	3908	204,00	2,10	ZG113	SMB 100Ld4			
7,3	3693	192,00	2,22	ZG113	SMB 100Ld4			

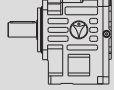




P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
3,00	8,1	3329	174,77	2,46	ZG113	SMB 100Ld4	358	316
	9	2996	156,80	2,74	ZG113	SMR 100Ld4		
	9,9	2723	142,22	3,01	ZG113	SMR 100Ld4		
	11	2451	131,37	3,35	ZG113	SMR 100Ld4		
	12	2247	115,81	3,65	ZG113	SMR 100Ld4		
	14	1926	102,96	4,26	ZG113	SMR 100Ld4		
	5,2	5082	269,43	0,96	ZG104	SMR 100Ld4	247	312
	5,7	4730	246,57	1,04	ZG103	SMB 100Ld4	244	310
	6,3	4280	225,08	1,14	ZG103	SMB 100Ld4		
	7	3852	202,74	1,27	ZG103	SMB 100Ld4		
	8	3370	176,71	1,45	ZG103	SMB 100Ld4		
	8,5	3172	166,32	1,54	ZG103	SMB 100Ld4		
	9,2	2931	153,42	1,67	ZG103	SMB 100Ld4		
	10	2696	138,08	1,82	ZG103	SMR 100Ld4		
	11	2451	124,20	2,00	ZG103	SMR 100Ld4		
	12	2247	115,93	2,18	ZG103	SMR 100Ld4		
	14	1926	101,76	2,54	ZG103	SMR 100Ld4		
	16	1685	90,05	2,91	ZG103	SMR 100Ld4		
	19	1419	75,87	3,45	ZG103	SMR 100Ld4		
22	1225	64,62	4,00	ZG103	SMR 100Ld4			
8,6	3135	163,69	0,99	ZG93	SMB 100Ld4	181		
9,6	2808	147,33	1,10	ZG93	SMR 100Ld4			
11	2451	132,51	1,26	ZG93	SMR 100Ld4			
13	2074	108,57	1,49	ZG93	SMR 100Ld4			
15	1797	96,08	1,72	ZG93	SMR 100Ld4			
17	1586	80,95	1,95	ZG93	SMR 100Ld4			
20	1348	68,95	2,30	ZG93	SMR 100Ld4			
24	1123	59,19	2,76	ZG93	SMR 100Ld4			
28	963	51,11	3,22	ZG93	SMR 100Ld4			
32	842	44,31	3,68	ZG93	SMR 100Ld4			
15	1797	94,70	1,06	ZG83	SMR 100Ld4	87	300	
17	1586	81,36	1,20	ZG83	SMR 100Ld4			
20	1348	70,19	1,41	ZG83	SMR 100Ld4			
24	1123	57,83	1,69	ZG83	SMR 100Ld4			
22	1250	64,66	1,52	ZG82	SMB 100Ld4	86	299	
25	1100	55,41	1,73	ZG82	SMB 100Ld4			
28	982	50,66	1,93	ZG82	SMB 100Ld4			
31	887	44,95	2,14	ZG82	SMB 100Ld4			
35	786	39,99	2,42	ZG82	SMB 100Ld4			
37	743	37,64	2,55	ZG82	SMB 100Ld4			
41	671	34,26	2,83	ZG82	SMB 100Ld4			
46	598	30,74	3,18	ZG82	SMR 100Ld4			
51	539	27,88	3,52	ZG82	SMR 100Ld4			
55	500	25,75	3,80	ZG82	SMR 100Ld4			
62	443	22,70	4,18	ZG82	SMR 100Ld4			
37	743	38,20	2,31	ZG82	SMB 100Ld4			
43	640	32,74	2,76	ZG82	SMB 100Ld4			
47	585	29,93	3,05	ZG82	SMB 100Ld4			

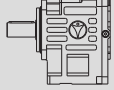




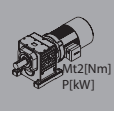
P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
3,00	53	519	26,56	3,49	ZG82	SMB 100Ld4		
	60	458	23,63	3,99	ZG82	SMB 100Ld4	86	299
	63	436	22,24	4,19	ZG82	SMB 100Ld4		
	19	1419	75,83	1,02	ZG73	SMR 100Ld4		
	22	1225	65,41	1,18	ZG73	SMR 100Ld4	77	297
	26	1037	53,90	1,40	ZG73	SMR 100Ld4		
	23	1196	60,26	1,17	ZG72	SMB 100Ld4		
	27	1019	51,64	1,40	ZG72	SMB 100Ld4		
	30	917	47,22	1,58	ZG72	SMB 100Ld4		
	34	809	41,90	1,79	ZG72	SMB 100Ld4		
	38	724	37,27	2,00	ZG72	SMB 100Ld4		
	40	687	35,08	2,11	ZG72	SMB 100Ld4		
	44	625	31,93	2,32	ZG72	SMB 100Ld4	76	296
	49	561	28,65	2,58	ZG72	SMR 100Ld4		
	54	509	25,98	2,85	ZG72	SMR 100Ld4		
	59	466	24,00	3,11	ZG72	SMR 100Ld4		
	67	410	21,16	3,47	ZG72	SMR 100Ld4		
	75	366	18,81	3,75	ZG72	SMR 100Ld4		
	84	327	16,74	4,07	ZG72	SMR 100Ld4		
	88	312	15,96	4,22	ZG72	SMR 100Ld4		
	34	809	41,65	1,01	ZG62	SMB 100Ld4		
	38	724	37,51	1,12	ZG62	SMB 100Ld4		
	43	639	32,70	1,26	ZG62	SMB 100Ld4		
	46	598	30,77	1,33	ZG62	SMB 100Ld4		
	50	550	28,39	1,42	ZG62	SMB 100Ld4		
	55	500	25,55	1,52	ZG62	SMR 100Ld4		
	61	451	22,98	1,64	ZG62	SMR 100Ld4		
	66	416	21,45	1,73	ZG62	SMR 100Ld4		
	75	366	18,83	1,88	ZG62	SMR 100Ld4		
	85	323	16,66	2,04	ZG62	SMR 100Ld4		
	100	275	14,04	2,31	ZG62	SMR 100Ld4		
	118	233	11,96	2,62	ZG62	SMR 100Ld4		
	137	200	10,27	2,93	ZG62	SMR 100Ld4		
159	173	8,86	3,27	ZG62	SMR 100Ld4	56	293	
183	150	7,68	3,59	ZG62	SMR 100Ld4			
42	655	33,21	1,02	ZG62	SMB 100Ld4			
46	598	30,58	1,20	ZG62	SMB 100Ld4			
51	539	27,92	1,40	ZG62	SMB 100Ld4			
55	500	25,48	1,60	ZG62	SMB 100Ld4			
61	451	22,95	1,82	ZG62	SMB 100Ld4			
70	393	20,01	2,09	ZG62	SMB 100Ld4			
75	366	18,83	2,21	ZG62	SMB 100Ld4			
81	339	17,37	2,36	ZG62	SMB 100Ld4			
90	305	15,63	2,60	ZG62	SMR 100Ld4			
100	275	14,06	2,84	ZG62	SMR 100Ld4			
107	257	13,13	3,01	ZG62	SMR 100Ld4			
122	225	11,52	3,37	ZG62	SMR 100Ld4			
138	199	10,20	3,77	ZG62	SMR 100Ld4			

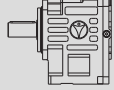




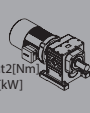
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
3,00	164	167	8,59	4,38	ZG62	SMR 100Ld4	56	293
	51	539	27,67	1,02	ZG52	SMB 100Ld4		
	56	491	25,29	1,12	ZG52	SMB 100Ld4		
	59	466	23,88	1,18	ZG52	SMB 100Ld4		
	68	404	20,85	1,36	ZG52	SMR 100Ld4		
	76	362	18,54	1,52	ZG52	SMR 100Ld4		
	84	327	16,89	1,68	ZG52	SMR 100Ld4	49	291
	96	286	14,67	1,84	ZG52	SMR 100Ld4		
	110	250	12,83	2,03	ZG52	SMR 100Ld4		
	133	206	10,61	2,33	ZG52	SMR 100Ld4		
	159	173	8,85	2,66	ZG52	SMR 100Ld4		
	190	144	7,42	3,01	ZG52	SMR 100Ld4		
	214	128	6,60	3,30	ZG52	SMR 100Ld4		
	69	398	20,39	1,05	ZG42	SMR 100Ld4		
	78	352	18,12	1,19	ZG42	SMR 100Ld4		
	85	323	16,51	1,30	ZG42	SMR 100Ld4		
	98	280	14,34	1,43	ZG42	SMR 100Ld4		
	112	245	12,55	1,58	ZG42	SMR 100Ld4		
	136	202	10,37	1,82	ZG42	SMR 100Ld4		
	163	168	8,65	2,08	ZG42	SMR 100Ld4		
	194	141	7,25	2,35	ZG42	SMR 100Ld4		
	219	125	6,45	2,58	ZG42	SMR 100Ld4		
	69	398	20,38	1,00	ZG42	SMB 100Ld4		
	76	362	18,55	1,10	ZG42	SMB 100Ld4		
	86	319	16,36	1,25	ZG42	SMB 100Ld4	41	289
	95	289	14,85	1,38	ZG42	SMB 100Ld4		
	104	264	13,58	1,51	ZG42	SMB 100Ld4		
	110	250	12,82	1,60	ZG42	SMB 100Ld4		
	126	218	11,19	1,83	ZG42	SMR 100Ld4		
	142	193	9,95	2,04	ZG42	SMR 100Ld4		
	156	176	9,06	2,23	ZG42	SMR 100Ld4		
	179	153	7,87	2,51	ZG42	SMR 100Ld4		
	205	134	6,89	2,82	ZG42	SMR 100Ld4		
248	110	5,70	3,29	ZG42	SMR 100Ld4			
297	92	4,75	3,79	ZG42	SMR 100Ld4			
354	77	3,98	4,32	ZG42	SMR 100Ld4			
116	237	12,20	1,01	ZG32	SMR 100Ld4			
135	203	10,48	1,13	ZG32	SMR 100Ld4	39	287	
156	176	9,04	1,25	ZG32	SMR 100Ld4			
189	145	7,45	1,43	ZG32	SMR 100Ld4			
4,00	1,8	19574	770,10	1,02	ZG134	SMB 112M4		
	2	17617	724,80	1,14	ZG134	SMB 112M4		
	2,1	16778	668,61	1,19	ZG134	SMB 112M4		
	2,4	14681	601,75	1,36	ZG134	SMR 112M4	730	330
	2,6	13551	541,26	1,48	ZG134	SMR 112M4		
	2,8	12583	505,23	1,59	ZG134	SMR 112M4		
	3,2	11010	443,47	1,82	ZG134	SMR 112M4		
	3,6	9787	392,45	2,04	ZG134	SMR 112M4		

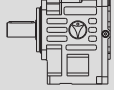




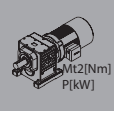
P	n ₂	Mt ₂	i	f _B			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
4,00	4,3	8194	330,63	2,44	ZG134	SMR 112M4	730	330	
	5	7046	281,61	2,84	ZG134	SMR 112M4			
	5,9	5971	241,77	3,35	ZG134	SMR 112M4			
	6,8	5181	208,77	3,86	ZG134	SMR 112M4			
	7,8	4517	180,98	4,43	ZG134	SMR 112M4			
	2,6	13551	545,04	1,00	ZG124	SMR 112M4	518	324	
	2,8	12583	508,76	1,07	ZG124	SMR 112M4			
	3,2	11010	446,57	1,23	ZG124	SMR 112M4			
	3,6	9787	395,19	1,38	ZG124	SMR 112M4			
	4,3	8194	332,94	1,65	ZG124	SMR 112M4			
5	7046	283,58	1,92	ZG124	SMR 112M4				
5,8	6074	243,47	2,22	ZG124	SMR 112M4				
6,8	5181	210,23	2,61	ZG124	SMR 112M4				
7,8	4517	182,24	2,99	ZG124	SMR 112M4				
9,4	3748	151,15	3,60	ZG124	SMR 112M4				
4,8	7340	295,02	1,12	ZG114	SMR 112M4	368	318		
4,3	8361	329,85	0,98	ZG113	SMB 112M4	364	316		
5	7190	282,67	1,14	ZG113	SMB 112M4				
5,5	6537	258,46	1,25	ZG113	SMB 112M4				
6,2	5799	229,33	1,41	ZG113	SMB 112M4				
7	5136	204,00	1,60	ZG113	SMB 112M4				
7,4	4858	192,00	1,69	ZG113	SMB 112M4				
8,1	4438	174,77	1,85	ZG113	SMB 112M4				
9,1	3950,	156,80	2,08	ZG113	SMR 112M4				
10	3595	142,22	2,28	ZG113	SMR 112M4				
11	3268	131,37	2,51	ZG113	SMR 112M4				
12	2996	115,81	2,74	ZG113	SMR 112M4				
14	2568	102,96	3,19	ZG113	SMR 112M4				
15	2396	91,64	3,42	ZG113	SMR 112M4				
16	2247	87,38	3,65	ZG113	SMR 112M4				
19	1892	75,03	4,33	ZG113	SMR 112M4				
7	5136	202,74	0,95	ZG103	SMB 112M4			250	310
8	4494	176,71	1,09	ZG103	SMB 112M4				
8,5	4229	166,32	1,16	ZG103	SMB 112M4				
9,3	3866	153,42	1,27	ZG103	SMB 112M4				
10	3595	138,08	1,36	ZG103	SMR 112M4				
11	3268	124,20	1,50	ZG103	SMR 112M4				
12	2996	115,93	1,64	ZG103	SMR 112M4				
14	2568	101,76	1,91	ZG103	SMR 112M4				
16	2247	90,05	2,18	ZG103	SMR 112M4				
19	1892	75,87	2,59	ZG103	SMR 112M4				
22	1634	64,62	3,00	ZG103	SMR 112M4				
26	1382	55,48	3,54	ZG103	SMR 112M4				
30	1198	47,91	4,09	ZG103	SMR 112M4				
13	2765	108,57	1,12	ZG93	SMR 112M4	187	304		
15	2396	96,08	1,29	ZG93	SMR 112M4				
18	1997	80,95	1,55	ZG93	SMR 112M4				
21	1712	68,95	1,81	ZG93	SMR 112M4				

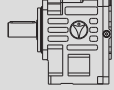




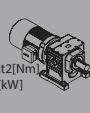
P	n ₂	Mt ₂	i	f _b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
4,00	24	1498	59,19	2,07	ZG93	SMR 112M4	187	304		
	28	1284	51,11	2,41	ZG93	SMR 112M4				
	32	1123	44,31	2,76	ZG93	SMR 112M4				
	39	921	36,75	3,36	ZG93	SMR 112M4				
	20	1797	70,19	1,06	ZG83	SMR 112M4	93	300		
	25	1438	57,83	1,32	ZG83	SMR 112M4				
	22	1667	64,66	1,14	ZG82	SMB 112M4	92	299		
	26	1411	55,41	1,35	ZG82	SMB 112M4				
	28	1310	50,66	1,45	ZG82	SMB 112M4				
	32	1146	44,95	1,66	ZG82	SMB 112M4				
	36	1019	39,99	1,86	ZG82	SMB 112M4				
	38	965	37,64	1,97	ZG82	SMB 112M4				
	41	894	34,26	2,12	ZG82	SMB 112M4				
	46	797	30,74	2,38	ZG82	SMR 112M4				
	51	719	27,88	2,64	ZG82	SMR 112M4				
	55	667	25,75	2,85	ZG82	SMR 112M4				
	63	582	22,70	3,19	ZG82	SMR 112M4				
	70	524	20,18	3,45	ZG82	SMR 112M4				
	79	464	17,96	3,83	ZG82	SMR 112M4				
	83	442	17,13	3,99	ZG82	SMR 112M4				
	37	991	38,20	1,73	ZG82	SMB 112M4				
	43	853	32,74	2,07	ZG82	SMB 112M4				
	47	780	29,93	2,29	ZG82	SMB 112M4				
	53	692	26,56	2,61	ZG82	SMB 112M4				
	60	611	23,63	2,99	ZG82	SMB 112M4				
	64	573	22,24	3,20	ZG82	SMB 112M4				
	70	524	20,24	3,45	ZG82	SMB 112M4				
	78	470	18,16	3,80	ZG82	SMR 112M4				
	86	426	16,47	4,12	ZG82	SMR 112M4				
	93	394	15,21	4,35	ZG82	SMR 112M4				
	26	1382	53,90	1,05	ZG73	SMR 112M4			83	297
	27	1358	51,64	1,05	ZG72	SMB 112M4				
	30	1222	47,22	1,19	ZG72	SMB 112M4			82	296
34	1079	41,90	1,34	ZG72	SMB 112M4					
38	965	37,27	1,50	ZG72	SMB 112M4					
40	917	35,08	1,58	ZG72	SMB 112M4					
44	833	31,93	1,74	ZG72	SMB 112M4					
50	733	28,65	1,98	ZG72	SMR 112M4					
55	667	25,98	2,17	ZG72	SMR 112M4					
59	621	24,00	2,33	ZG72	SMR 112M4					
67	547	21,16	2,60	ZG72	SMR 112M4					
75	489	18,81	2,81	ZG72	SMR 112M4					
85	431	16,74	3,09	ZG72	SMR 112M4					
89	412	15,96	3,20	ZG72	SMR 112M4					
104	352	13,71	3,62	ZG72	SMR 112M4					
120	305	11,88	4,03	ZG72	SMR 112M4					
133	275	10,69	4,34	ZG72	SMR 112M4					
46	797	30,77	1,00	ZG62	SMB 112M4	61	293			

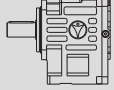




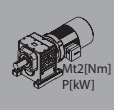
P	n ₂	Mt ₂	i	f _B			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
4,00	50	733	28,39	1,07	ZG62	SMB	112M4				
	56	655	25,55	1,16	ZG62	SMR	112M4				
	62	591	22,98	1,25	ZG62	SMR	112M4				
	66	556	21,45	1,30	ZG62	SMR	112M4				
	75	489	18,83	1,41	ZG62	SMR	112M4				
	85	431	16,66	1,53	ZG62	SMR	112M4				
	101	363	14,04	1,75	ZG62	SMR	112M4				
	119	308	11,96	1,99	ZG62	SMR	112M4				
	138	265	10,27	2,22	ZG62	SMR	112M4				
	160	229	8,86	2,47	ZG62	SMR	112M4				
	185	198	7,68	2,72	ZG62	SMR	112M4				
	223	164	6,37	3,19	ZG62	SMR	112M4				
	51	719	27,92	1,05	ZG62	SMB	112M4	61	293		
	56	655	25,48	1,22	ZG62	SMB	112M4				
	62	591	22,95	1,39	ZG62	SMB	112M4				
	71	516	20,01	1,59	ZG62	SMB	112M4				
	75	489	18,83	1,66	ZG62	SMB	112M4				
	82	447	17,37	1,79	ZG62	SMB	112M4				
	91	403	15,63	1,97	ZG62	SMR	112M4				
	101	363	14,06	2,15	ZG62	SMR	112M4				
	108	339	13,13	2,28	ZG62	SMR	112M4				
	123	298	11,52	2,55	ZG62	SMR	112M4				
139	264	10,20	2,85	ZG62	SMR	112M4					
165	222	8,59	3,31	ZG62	SMR	112M4					
194	189	7,32	3,78	ZG62	SMR	112M4					
226	162	6,28	4,24	ZG62	SMR	112M4					
68	539	20,85	1,02	ZG52	SMR	112M4					
77	476	18,54	1,15	ZG52	SMR	112M4					
84	436	16,89	1,26	ZG52	SMR	112M4					
97	378	14,67	1,39	ZG52	SMR	112M4					
111	330	12,83	1,54	ZG52	SMR	112M4	55			291	
134	273	10,61	1,76	ZG52	SMR	112M4					
160	229	8,85	2,01	ZG52	SMR	112M4					
191	192	7,42	2,27	ZG52	SMR	112M4					
215	170	6,60	2,48	ZG52	SMR	112M4					
96	382	14,85	1,05	ZG42	SMB	112M4					
105	349	13,58	1,14	ZG42	SMB	112M4					
111	330	12,82	1,21	ZG42	SMB	112M4					
127	288	11,19	1,38	ZG42	SMR	112M4					
143	256	9,95	1,54	ZG42	SMR	112M4					
157	233	9,06	1,68	ZG42	SMR	112M4					
180	203	7,87	1,89	ZG42	SMR	112M4	47	289			
206	178	6,89	2,12	ZG42	SMR	112M4					
249	147	5,70	2,48	ZG42	SMR	112M4					
299	122	4,75	2,86	ZG42	SMR	112M4					
357	102	3,98	3,27	ZG42	SMR	112M4					
401	91	3,54	3,50	ZG42	SMR	112M4					
5,50	2,4	20186	601,75	0,99	ZG134	SMB			132S4	755	330

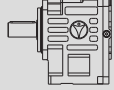




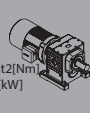
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
5,50	2,7	17943	541,26	1,11	ZG134	SMB 132S4	755	330
	2,9	16706	505,23	1,20	ZG134	SMB 132S4		
	3,3	14681	443,47	1,36	ZG134	SMR 132S4		
	3,7	13093	392,45	1,53	ZG134	SMR 132S4		
	4,4	11010	330,63	1,82	ZG134	SMR 132S4		
	5,1	9500	281,61	2,11	ZG134	SMR 132S4		
	6	8074	241,77	2,48	ZG134	SMR 132S4		
	6,9	7021	208,77	2,85	ZG134	SMR 132S4		
	8	6055	180,98	3,30	ZG134	SMR 132S4		
	9,7	4994	150,10	4,00	ZG134	SMR 132S4		
5,1	9693	286,28	2,06	ZG133	SMB 132S4	696	328	
5,7	8673	255,76	2,31	ZG133	SMB 132S4			
6,7	7378	215,49	2,71	ZG133	SMB 132S4			
7,4	6680	197,05	2,99	ZG133	SMB 132S4			
8,2	6028	176,42	3,32	ZG133	SMB 132S4			
9,2	5373	158,18	3,72	ZG133	SMB 132S4			
10	4943	142,99	4,05	ZG133	SMB 132S4			
11	4494	130,13	4,45	ZG133	SMB 132S4			
3,7	13093	395,19	1,03	ZG124	SMR 132S4	543	324	
4,4	11010	332,94	1,23	ZG124	SMR 132S4			
5,1	9500	283,58	1,42	ZG124	SMR 132S4			
6	8074	243,47	1,67	ZG124	SMR 132S4			
6,9	7021	210,23	1,92	ZG124	SMR 132S4			
8	6055	182,24	2,23	ZG124	SMR 132S4			
9,6	5046	151,15	2,68	ZG124	SMR 132S4			
5	9887	288,28	1,37	ZG123	SMB 132S4	503	322	
5,6	8827	257,55	1,53	ZG123	SMB 132S4			
6,7	7378	216,99	1,83	ZG123	SMB 132S4			
7,3	6772	198,43	1,99	ZG123	SMB 132S4			
8,2	6028	177,65	2,24	ZG123	SMB 132S4			
9,1	5432	159,29	2,49	ZG123	SMB 132S4			
10	4943	143,99	2,73	ZG123	SMB 132S4			
11	4494	131,04	3,00	ZG123	SMB 132S4			
12	4119	119,94	3,28	ZG123	SMB 132S4			
14	3531	101,91	3,82	ZG123	SMR 132S4			
15	3295	94,48	4,10	ZG123	SMR 132S4			
6,3	7847	229,33	1,04	ZG113	SMB 132S4	389	316	
7,1	6962	204,00	1,18	ZG113	SMB 132S4			
7,6	6504	192,00	1,26	ZG113	SMB 132S4			
8,3	5956	174,77	1,38	ZG113	SMB 132S4			
9,2	5373	156,80	1,53	ZG113	SMB 132S4			
10	4943	142,22	1,66	ZG113	SMB 132S4			
11	4494	131,37	1,82	ZG113	SMB 132S4			
13	3802	115,81	2,16	ZG113	SMR 132S4			
14	3531	102,96	2,32	ZG113	SMR 132S4			
16	3089	91,64	2,65	ZG113	SMR 132S4			
17	2908	87,38	2,82	ZG113	SMR 132S4			
19	2601	75,03	3,15	ZG113	SMR 132S4			

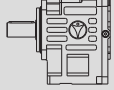




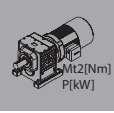
P	n ₂	Mt ₂	i	f _b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
5,50	22	2247	65,00	3,65	ZG113	SMR 132S4	389	316		
	25	1977	58,51	4,15	ZG113	SMR 132S4				
	23	2193	63,50	2,70	ZG112	SMB 132S4	362	314		
	25	2017	58,15	3,43	ZG112	SMB 132S4				
	28	1801	52,20	4,11	ZG112	SMB 132S4				
	37	1363	38,81	2,67	ZG112	SMB 132S4				
	41	1230	35,54	3,45	ZG112	SMB 132S4				
	45	1121	31,90	4,06	ZG112	SMB 132S4				
	11	4494	138,08	1,09	ZG103	SMB 132S4			275	310
	12	4119	124,20	1,19	ZG103	SMB 132S4				
	13	3802	115,93	1,29	ZG103	SMB 132S4				
	14	3531	101,76	1,39	ZG103	SMR 132S4				
	16	3089	90,05	1,59	ZG103	SMR 132S4				
	19	2601	75,87	1,88	ZG103	SMR 132S4				
	22	2247	64,62	2,18	ZG103	SMR 132S4				
	26	1901	55,48	2,58	ZG103	SMR 132S4				
	30	1647	47,91	2,97	ZG103	SMR 132S4				
	35	1412	41,53	3,47	ZG103	SMR 132S4				
	42	1177	34,44	4,16	ZG103	SMR 132S4				
	22	2292	65,69	2,14	ZG102	SMB 132S4	248	308		
	25	2017	58,69	2,43	ZG102	SMB 132S4				
	29	1739	49,45	2,82	ZG102	SMB 132S4				
	32	1576	45,22	3,11	ZG102	SMB 132S4				
	36	1401	40,48	3,50	ZG102	SMB 132S4				
	40	1261	36,30	3,89	ZG102	SMB 132S4				
	44	1146	32,81	4,27	ZG102	SMB 132S4				
	50	1009	28,77	2,34	ZG102	SMB 132S4				
	56	900	25,70	2,80	ZG102	SMB 132S4				
	67	752	21,65	4,14	ZG102	SMB 132S4				
	18	2746	80,95	1,13	ZG93	SMR 132S4	212	304		
	21	2354	68,95	1,32	ZG93	SMR 132S4				
	24	2059	59,19	1,50	ZG93	SMR 132S4				
	28	1765	51,11	1,76	ZG93	SMR 132S4				
	33	1498	44,31	2,07	ZG93	SMR 132S4				
	39	1267	36,75	2,45	ZG93	SMR 132S4				
	21	2402	70,09	1,29	ZG92	SMB 132S4			185	302
	23	2193	62,62	1,41	ZG92	SMB 132S4				
	27	1868	52,76	1,66	ZG92	SMB 132S4				
	30	1681	48,24	1,84	ZG92	SMB 132S4				
	34	1483	43,19	2,09	ZG92	SMB 132S4				
	37	1363	38,73	2,27	ZG92	SMB 132S4				
	41	1230	35,01	2,52	ZG92	SMB 132S4				
	46	1096	31,86	2,83	ZG92	SMB 132S4				
	50	1008	29,16	3,07	ZG92	SMB 132S4				
	59	855	24,78	3,63	ZG92	SMR 132S4				
	63	800	22,97	3,85	ZG92	SMR 132S4				
	68	741	21,37	4,10	ZG92	SMR 132S4				
	78	646	18,64	4,49	ZG92	SMR 132S4				

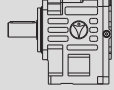




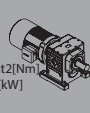
P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
5,50	50	1008	29,12	1,24	ZG92	SMB	132S4	185	302
	56	900	26,02	1,70	ZG92	SMB	132S4		
	66	764	21,92	2,40	ZG92	SMB	132S4		
	72	700	20,04	2,77	ZG92	SMB	132S4		
	81	622	17,95	3,33	ZG92	SMB	132S4		
	90	560	16,09	4,11	ZG92	SMB	132S4		
	26	1940	55,41	0,98	ZG82	SMB	132S4		
	29	1739	50,66	1,09	ZG82	SMB	132S4		
	32	1576	44,95	1,21	ZG82	SMB	132S4		
	36	1401	39,99	1,36	ZG82	SMB	132S4		
	39	1293	37,64	1,47	ZG82	SMB	132S4		
	42	1201	34,26	1,58	ZG82	SMB	132S4		
	47	1073	30,74	1,77	ZG82	SMB	132S4		
	52	970	27,88	1,96	ZG82	SMB	132S4		
	56	900	25,75	2,11	ZG82	SMB	132S4		
	64	788	22,70	2,36	ZG82	SMR	132S4		
	72	700	20,18	2,58	ZG82	SMR	132S4		
	81	622	17,96	2,86	ZG82	SMR	132S4		
	85	593	17,13	2,97	ZG82	SMR	132S4		
99	509	14,71	3,38	ZG82	SMR	132S4	117	299	
114	442	12,74	3,79	ZG82	SMR	132S4			
126	400	11,47	4,11	ZG82	SMR	132S4			
44	1146	32,74	1,54	ZG82	SMB	132S4			
48	1051	29,93	1,70	ZG82	SMB	132S4			
55	917	26,56	1,97	ZG82	SMB	132S4			
61	826	23,63	2,21	ZG82	SMB	132S4			
65	776	22,24	2,36	ZG82	SMB	132S4			
72	700	20,24	2,58	ZG82	SMB	132S4			
80	630	18,16	2,83	ZG82	SMB	132S4			
88	573	16,47	3,06	ZG82	SMB	132S4			
95	531	15,21	3,23	ZG82	SMB	132S4			
108	467	13,41	3,60	ZG82	SMR	132S4			
122	413	11,92	4,00	ZG82	SMR	132S4			
137	368	10,61	4,42	ZG82	SMR	132S4			
35	1441	41,90	1,01	ZG72	SMB	132S4	107	296	
39	1293	37,27	1,12	ZG72	SMB	132S4			
41	1230	35,08	1,18	ZG72	SMB	132S4			
45	1121	31,93	1,29	ZG72	SMB	132S4			
51	989	28,65	1,47	ZG72	SMB	132S4			
56	900	25,98	1,61	ZG72	SMB	132S4			
60	840	24,00	1,72	ZG72	SMB	132S4			
69	731	21,16	1,95	ZG72	SMR	132S4			
77	655	18,81	2,10	ZG72	SMR	132S4			
87	579	16,74	2,30	ZG72	SMR	132S4			
91	554	15,96	2,38	ZG72	SMR	132S4			
106	475	13,71	2,68	ZG72	SMR	132S4			
122	413	11,88	2,98	ZG72	SMR	132S4			
136	370	10,69	3,23	ZG72	SMR	132S4			






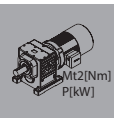
P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
5,50	160	315	9,08	3,68	ZG72	SMR 132S4	107	296
	189	266	7,66	4,17	ZG72	SMR 132S4		
	68	741	21,45	0,97	ZG62	SMB 132S4	86	293
	77	655	18,83	1,05	ZG62	SMR 132S4		
	87	579	16,66	1,14	ZG62	SMR 132S4		
	103	489	14,04	1,30	ZG62	SMR 132S4		
	121	416	11,96	1,47	ZG62	SMR 132S4		
	141	357	10,27	1,65	ZG62	SMR 132S4		
	164	307	8,86	1,84	ZG62	SMR 132S4		
	189	266	7,68	2,02	ZG62	SMR 132S4		
	228	221	6,37	2,37	ZG62	SMR 132S4		
	63	800	22,95	1,02	ZG62	SMB 132S4		
	72	700	20,01	1,17	ZG62	SMB 132S4		
	77	655	18,83	1,24	ZG62	SMB 132S4		
	83	607	17,37	1,32	ZG62	SMB 132S4		
	93	542	15,63	1,47	ZG62	SMB 132S4		
	103	489	14,06	1,60	ZG62	SMB 132S4		
	110	458	13,13	1,69	ZG62	SMB 132S4		
	126	400	11,52	1,90	ZG62	SMR 132S4		
	142	355	10,20	2,11	ZG62	SMR 132S4		
	169	298	8,59	2,46	ZG62	SMR 132S4		
	198	254	7,32	2,81	ZG62	SMR 132S4		
	231	218	6,28	3,15	ZG62	SMR 132S4		
	267	188	5,42	3,49	ZG62	SMR 132S4		
	308	163	4,70	3,88	ZG62	SMR 132S4		
	99	509	14,67	1,03	ZG52	SMR 132S4	79	291
	113	446	12,83	1,14	ZG52	SMR 132S4		
	137	368	10,61	1,31	ZG52	SMR 132S4		
	164	307	8,85	1,50	ZG52	SMR 132S4		
	195	258	7,42	1,69	ZG52	SMR 132S4		
	220	229	6,60	1,85	ZG52	SMR 132S4		
	7,50	3,3	20019	443,47	1,00	ZG134	SMR 132M4	766
3,7		17855	392,45	1,12	ZG134	SMR 132M4		
4,4		15014	330,63	1,33	ZG134	SMR 132M4		
5,1		12953	281,61	1,54	ZG134	SMR 132M4		
6		11010	241,77	1,82	ZG134	SMR 132M4		
6,9		9574	208,77	2,09	ZG134	SMR 132M4		
8		8258	180,98	2,42	ZG134	SMR 132M4		
9,7		6810	150,10	2,94	ZG134	SMR 132M4		
5,1		13218	286,28	1,51	ZG133	SMB 132M4	707	328
5,7		11826	255,76	1,69	ZG133	SMB 132M4		
6,7		10061	215,49	1,99	ZG133	SMB 132M4		
7,4		9109	197,05	2,20	ZG133	SMB 132M4		
8,2		8221	176,42	2,43	ZG133	SMB 132M4		
9,2		7327	158,18	2,73	ZG133	SMB 132M4		
10		6741	142,99	2,97	ZG133	SMB 132M4		
11		6128	130,13	3,26	ZG133	SMB 132M4		
12		5617	119,11	3,56	ZG133	SMB 132M4		

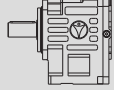


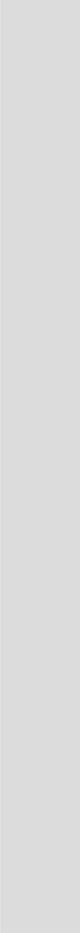
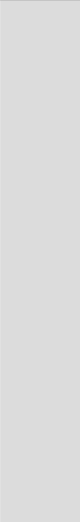
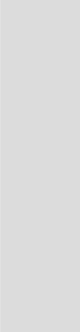


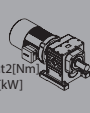
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
7,50	14	4815	101,20	4,15	ZG133	SMR 132M4	707	328
	15	4494	93,82	4,45	ZG133	SMR 132M4		
5,1	12953	283,58	1,04	ZG124	SMR 132M4	554	324	
6	11010	243,47	1,23	ZG124	SMR 132M4			
6,9	9574	210,23	1,41	ZG124	SMR 132M4			
8	8258	182,24	1,63	ZG124	SMR 132M4			
9,6	6881	151,15	1,96	ZG124	SMR 132M4			
5	13482	288,28	1,00	ZG123	SMB 132M4			
5,6	12038	257,55	1,12	ZG123	SMB 132M4	514	322	
6,7	10061	216,99	1,34	ZG123	SMB 132M4			
7,3	9234	198,43	1,46	ZG123	SMB 132M4			
8,2	8221	177,65	1,64	ZG123	SMB 132M4			
9,1	7408	159,29	1,82	ZG123	SMB 132M4			
10	6741	143,99	2,00	ZG123	SMB 132M4			
11	6128	131,04	2,20	ZG123	SMB 132M4			
12	5617	119,94	2,40	ZG123	SMB 132M4			
14	4815	101,91	2,80	ZG123	SMR 132M4			
15	4494	94,48	3,00	ZG123	SMR 132M4			
17	3965	87,88	3,40	ZG123	SMR 132M4			
19	3548	76,66	3,80	ZG123	SMR 132M4			
21	3210	67,48	4,21	ZG123	SMR 132M4			
8,3	8122	174,77	1,01	ZG113	SMB 132M4			400
9,2	7327	156,80	1,12	ZG113	SMB 132M4			
10	6741	142,22	1,22	ZG113	SMB 132M4			
11	6128	131,37	1,34	ZG113	SMB 132M4			
13	5185	115,81	1,58	ZG113	SMR 132M4			
14	4815	102,96	1,70	ZG113	SMR 132M4			
16	4213	91,64	1,95	ZG113	SMR 132M4			
17	3965	87,38	2,07	ZG113	SMR 132M4			
19	3548	75,03	2,31	ZG113	SMR 132M4			
22	3064	65,00	2,68	ZG113	SMR 132M4			
25	2696	58,51	3,04	ZG113	SMR 132M4			
29	2324	49,68	3,53	ZG113	SMR 132M4			
35	1926	41,90	4,26	ZG113	SMR 132M4			
23	2990	63,50	1,98	ZG112	SMB 132M4	373	314	
25	2751	58,15	2,51	ZG112	SMB 132M4			
28	2456	52,20	3,02	ZG112	SMB 132M4			
31	2218	46,91	3,56	ZG112	SMB 132M4			
34	2023	42,50	3,95	ZG112	SMB 132M4			
37	1859	38,77	4,33	ZG112	SMB 132M4			
41	1677	35,54	2,53	ZG112	SMB 132M4			
45	1528	31,90	2,98	ZG112	SMB 132M4			
51	1348	28,67	3,86	ZG112	SMB 132M4			
14	4815	101,76	1,02	ZG103	SMR 132M4			286
16	4213	90,05	1,16	ZG103	SMR 132M4			
19	3548	75,87	1,38	ZG103	SMR 132M4			
22	3064	64,62	1,60	ZG103	SMR 132M4			
26	2592	55,48	1,89	ZG103	SMR 132M4			

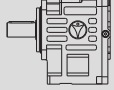




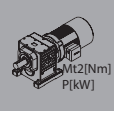
P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
7,50	30	2247	47,91	2,18	ZG103	SMR 132M4		
	35	1926	41,53	2,54	ZG103	SMR 132M4	286	310
	42	1605	34,44	3,05	ZG103	SMR 132M4		
	22	3126	65,69	1,57	ZG102	SMB 132M4		
	25	2751	58,69	1,78	ZG102	SMB 132M4		
	29	2372	49,45	2,07	ZG102	SMB 132M4		
	32	2149	45,22	2,28	ZG102	SMB 132M4		
	36	1910	40,48	2,56	ZG102	SMB 132M4		
	40	1719	36,30	2,85	ZG102	SMB 132M4		
	44	1563	32,81	3,13	ZG102	SMB 132M4	259	308
	49	1403	29,86	3,49	ZG102	SMB 132M4		
	53	1297	27,33	3,78	ZG102	SMB 132M4		
	62	1109	23,22	4,42	ZG102	SMR 132M4		
	50	1375	28,77	1,72	ZG102	SMB 132M4		
	56	1228	25,70	2,05	ZG102	SMB 132M4		
	67	1026	21,65	3,04	ZG102	SMB 132M4		
	73	942	19,80	3,76	ZG102	SMB 132M4		
	21	3210	68,95	0,97	ZG93	SMR 132M4		
	24	2808	59,19	1,10	ZG93	SMR 132M4		
	28	2407	51,11	1,29	ZG93	SMR 132M4	223	304
	33	2042	44,31	1,52	ZG93	SMR 132M4		
	39	1728	36,75	1,79	ZG93	SMR 132M4		
	23	2990	62,62	1,04	ZG92	SMB 132M4		
	27	2547	52,76	1,22	ZG92	SMB 132M4		
	30	2292	48,24	1,35	ZG92	SMB 132M4		
	34	2023	43,19	1,53	ZG92	SMB 132M4		
	37	1859	38,73	1,67	ZG92	SMB 132M4		
	41	1677	35,01	1,85	ZG92	SMB 132M4		
	46	1495	31,86	2,07	ZG92	SMB 132M4		
	50	1375	29,16	2,25	ZG92	SMB 132M4		
	59	1165	24,78	2,66	ZG92	SMR 132M4		
	63	1091	22,97	2,82	ZG92	SMR 132M4		
	68	1011	21,37	3,01	ZG92	SMR 132M4	196	302
	78	881	18,64	3,29	ZG92	SMR 132M4		
	88	781	16,41	3,57	ZG92	SMR 132M4		
	100	687	14,55	3,90	ZG92	SMR 132M4		
	56	1228	26,02	1,24	ZG92	SMB 132M4		
	66	1042	21,92	1,76	ZG92	SMB 132M4		
	72	955	20,04	2,03	ZG92	SMB 132M4		
	81	849	17,95	2,44	ZG92	SMB 132M4		
	90	764	16,09	3,02	ZG92	SMB 132M4		
	100	687	14,55	3,64	ZG92	SMR 132M4		
	110	625	13,24	4,20	ZG92	SMB 132M4		
	36	1910	39,99	0,99	ZG82	SMB 132M4		
	39	1763	37,64	1,08	ZG82	SMB 132M4		
	42	1637	34,26	1,16	ZG82	SMB 132M4	128	299
	47	1463	30,74	1,30	ZG82	SMB 132M4		
	52	1322	27,88	1,44	ZG82	SMB 132M4		

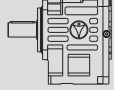




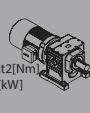
P	n ₂	Mt ₂	i	f _b			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
7,50	56	1228	25,75	1,55		ZG82	SMB	132M4			
	64	1074	22,70	1,73		ZG82	SMR	132M4			
	72	955	20,18	1,89		ZG82	SMR	132M4			
	81	849	17,96	2,10		ZG82	SMR	132M4			
	85	809	17,13	2,18		ZG82	SMR	132M4			
	99	694	14,71	2,48		ZG82	SMR	132M4			
	114	603	12,74	2,78		ZG82	SMR	132M4			
	126	545	11,47	3,01		ZG82	SMR	132M4			
	149	461	9,74	3,48		ZG82	SMR	132M4			
	177	388	8,21	4,02		ZG82	SMR	132M4			
	44	1563	32,74	1,13		ZG82	SMB	132M4			
	48	1433	29,93	1,24		ZG82	SMB	132M4			
	55	1250	26,56	1,45		ZG82	SMB	132M4		128	299
	61	1127	23,63	1,62		ZG82	SMB	132M4			
	65	1058	22,24	1,73		ZG82	SMB	132M4			
	72	955	20,24	1,89		ZG82	SMB	132M4			
	80	859	18,16	2,08		ZG82	SMB	132M4			
	88	781	16,47	2,25		ZG82	SMB	132M4			
	95	724	15,21	2,37		ZG82	SMB	132M4			
	108	636	13,41	2,64		ZG82	SMR	132M4			
	122	563	11,92	2,94	ZG82	SMR	132M4				
	137	502	10,61	3,24	ZG82	SMR	132M4				
	143	481	10,12	3,37	ZG82	SMR	132M4				
	167	411	8,69	3,84	ZG82	SMR	132M4				
	193	356	7,53	4,32	ZG82	SMR	132M4				
	51	1348	28,65	1,08		ZG72	SMB	132M4			
	56	1228	25,98	1,18		ZG72	SMB	132M4			
	60	1146	24,00	1,26		ZG72	SMB	132M4			
	69	996	21,16	1,43		ZG72	SMR	132M4			
	77	893	18,81	1,54		ZG72	SMR	132M4			
	87	790	16,74	1,68		ZG72	SMR	132M4			
	91	755	15,96	1,75		ZG72	SMR	132M4			
	106	648	13,71	1,97		ZG72	SMR	132M4		118	296
	122	563	11,88	2,18		ZG72	SMR	132M4			
	136	505	10,69	2,37		ZG72	SMR	132M4			
	160	429	9,08	2,70		ZG72	SMR	132M4			
	189	363	7,66	3,06		ZG72	SMR	132M4			
	215	319	6,74	3,31		ZG72	SMR	132M4			
	243	283	5,97	3,61		ZG72	SMR	132M4			
	103	667	14,04	0,95		ZG62	SMR	132M4			
	121	568	11,96	1,08		ZG62	SMR	132M4			
	141	487	10,27	1,21		ZG62	SMR	132M4			
	164	419	8,86	1,35		ZG62	SMR	132M4			
	189	363	7,68	1,48		ZG62	SMR	132M4		97	293
	228	301	6,37	1,74		ZG62	SMR	132M4			
	83	828	17,37	0,97		ZG62	SMB	132M4			
	93	739	15,63	1,07		ZG62	SMB	132M4			
	103	667	14,06	1,17		ZG62	SMB	132M4			

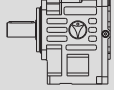




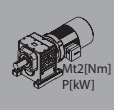
P	n ₂	Mt ₂	i	f _B			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
7,50	110	625	13,13	1,24	ZG62	SMB	132M4	97	293
	126	545	11,52	1,39	ZG62	SMR	132M4		
	142	484	10,20	1,55	ZG62	SMR	132M4		
	169	407	8,59	1,81	ZG62	SMR	132M4		
	198	347	7,32	2,06	ZG62	SMR	132M4		
	231	297	6,28	2,31	ZG62	SMR	132M4		
	267	257	5,42	2,56	ZG62	SMR	132M4		
	308	223	4,70	2,84	ZG62	SMR	132M4		
	372	184	3,90	3,31	ZG62	SMR	132M4		
9,20	4,4	18418	330,63	1,09	ZG134	SMR	132Ma4	777	330
	5,1	15890	281,61	1,26	ZG134	SMR	132Ma4		
	6	13506	241,77	1,48	ZG134	SMR	132Ma4		
	6,9	11744	208,77	1,70	ZG134	SMR	132Ma4		
	8	10129	180,98	1,97	ZG134	SMR	132Ma4		
	9,6	8441	150,10	2,37	ZG134	SMR	132Ma4		
	5	16538	286,28	1,21	ZG133	SMB	132Ma4	718	328
	5,6	14766	255,76	1,35	ZG133	SMB	132Ma4		
	6,7	12342	215,49	1,62	ZG133	SMB	132Ma4		
	7,3	11327	197,05	1,77	ZG133	SMB	132Ma4		
	8,2	10084	176,42	1,98	ZG133	SMB	132Ma4		
	9,1	9087	158,18	2,20	ZG133	SMB	132Ma4		
	10	8269	142,99	2,42	ZG133	SMB	132Ma4		
	11	7517	130,13	2,66	ZG133	SMB	132Ma4		
	12	6891	119,11	2,90	ZG133	SMB	132Ma4		
	14	5906	101,20	3,39	ZG133	SMR	132Ma4		
	15	5512	93,82	3,63	ZG133	SMR	132Ma4		
	17	4864	87,27	4,07	ZG133	SMR	132Ma4		
	19	4352	76,13	4,48	ZG133	SMR	132Ma4		
	5,9	13735	243,47	0,98	ZG124	SMR	132Ma4	565	324
	6,8	11917	210,23	1,13	ZG124	SMR	132Ma4		
	7,9	10258	182,24	1,32	ZG124	SMR	132Ma4		
	9,5	8530	151,15	1,58	ZG124	SMR	132Ma4		
	6,6	12529	216,99	1,08	ZG123	SMB	132Ma4	525	322
	7,3	11327	198,43	1,19	ZG123	SMB	132Ma4		
	8,1	10209	177,65	1,32	ZG123	SMB	132Ma4		
	9	9188	159,29	1,47	ZG123	SMB	132Ma4		
	10	8269	143,99	1,63	ZG123	SMB	132Ma4		
	11	7517	131,04	1,80	ZG123	SMB	132Ma4		
	12	6891	119,94	1,96	ZG123	SMB	132Ma4		
	14	5906	101,91	2,29	ZG123	SMR	132Ma4		
	15	5512	94,48	2,45	ZG123	SMR	132Ma4		
	16	5168	87,88	2,61	ZG123	SMR	132Ma4		
19	4352	76,66	3,10	ZG123	SMR	132Ma4			
21	3937	67,48	3,43	ZG123	SMR	132Ma4			
24	3445	59,83	3,89	ZG123	SMR	132Ma4			
10	8269	142,22	0,99	ZG113	SMB	132Ma4	411	316	
11	7517	131,37	1,09	ZG113	SMB	132Ma4			
12	6891	115,81	1,19	ZG113	SMR	132Ma4			

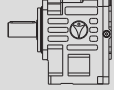




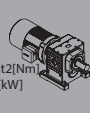
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
9,20	14	5906	102,96	1,39	ZG113	SMR	132Ma4	
	16	5168	91,64	1,59	ZG113	SMR	132Ma4	
	16	5168	87,38	1,59	ZG113	SMR	132Ma4	
	19	4352	75,03	1,88	ZG113	SMR	132Ma4	
	22	3758	65,00	2,18	ZG113	SMR	132Ma4	411
	25	3307	58,51	2,48	ZG113	SMR	132Ma4	316
	29	2851	49,68	2,88	ZG113	SMR	132Ma4	
	34	2432	41,90	3,37	ZG113	SMR	132Ma4	
	39	2120	36,87	3,87	ZG113	SMR	132Ma4	
	44	1879	32,67	4,36	ZG113	SMR	132Ma4	
	23	3668	63,50	1,61	ZG112	SMB	132Ma4	
	25	3375	58,15	2,05	ZG112	SMB	132Ma4	
	28	3013	52,20	2,46	ZG112	SMB	132Ma4	
31	2721	46,91	2,90	ZG112	SMB	132Ma4		
34	2481	42,50	3,22	ZG112	SMB	132Ma4		
37	2280	38,77	3,53	ZG112	SMB	132Ma4		
40	2109	35,57	3,87	ZG112	SMB	132Ma4	384	
37	2280	38,81	1,59	ZG112	SMB	132Ma4	314	
41	2058	35,54	2,06	ZG112	SMB	132Ma4		
45	1875	31,90	2,43	ZG112	SMB	132Ma4		
50	1687	28,67	3,08	ZG112	SMB	132Ma4		
55	1534	25,97	3,73	ZG112	SMB	132Ma4		
61	1383	23,69	4,48	ZG112	SMB	132Ma4		
19	4352	75,87	1,13	ZG103	SMR	132Ma4		
22	3758	64,62	1,30	ZG103	SMR	132Ma4		
26	3180	55,48	1,54	ZG103	SMR	132Ma4	297	
30	2756	47,91	1,78	ZG103	SMR	132Ma4	310	
35	2362	41,53	2,07	ZG103	SMR	132Ma4		
42	1968	34,44	2,49	ZG103	SMR	132Ma4		
22	3835	65,69	1,28	ZG102	SMB	132Ma4		
25	3375	58,69	1,45	ZG102	SMB	132Ma4		
29	2909	49,45	1,68	ZG102	SMB	132Ma4		
32	2636	45,22	1,86	ZG102	SMB	132Ma4		
36	2343	40,48	2,09	ZG102	SMB	132Ma4		
40	2109	36,30	2,32	ZG102	SMB	132Ma4		
44	1917	32,81	2,56	ZG102	SMB	132Ma4		
48	1757	29,86	2,79	ZG102	SMB	132Ma4		
53	1592	27,33	3,08	ZG102	SMB	132Ma4		
62	1360	23,22	3,60	ZG102	SMR	132Ma4	270	
67	1259	21,53	3,89	ZG102	SMR	132Ma4	308	
72	1171	20,03	4,18	ZG102	SMR	132Ma4		
82	1029	17,47	4,49	ZG102	SMR	132Ma4		
50	1687	28,77	1,40	ZG102	SMB	132Ma4		
56	1506	25,70	1,68	ZG102	SMB	132Ma4		
66	1278	21,65	2,44	ZG102	SMB	132Ma4		
73	1155	19,80	3,06	ZG102	SMB	132Ma4		
81	1041	17,73	3,72	ZG102	SMB	132Ma4		
91	927	15,90	4,45	ZG102	SMB	132Ma4		

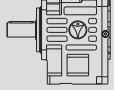




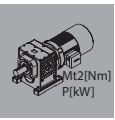
P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
9,20	28	2953	51,11	1,05	ZG93	SMR 132Ma4		
	32	2584	44,31	1,20	ZG93	SMR 132Ma4	234	304
	39	2120	36,75	1,46	ZG93	SMR 132Ma4		
	27	3125	52,76	0,99	ZG92	SMB 132Ma4		
	30	2812	48,24	1,10	ZG92	SMB 132Ma4		
	33	2556	43,19	1,21	ZG92	SMB 132Ma4		
	37	2280	38,73	1,36	ZG92	SMB 132Ma4		
	41	2058	35,01	1,51	ZG92	SMB 132Ma4		
	45	1875	31,86	1,65	ZG92	SMB 132Ma4		
	49	1722	29,16	1,80	ZG92	SMB 132Ma4		
	58	1454	24,78	2,13	ZG92	SMR 132Ma4		
	63	1339	22,97	2,30	ZG92	SMR 132Ma4		
	67	1259	21,37	2,41	ZG92	SMR 132Ma4		
	77	1095	18,64	2,65	ZG92	SMR 132Ma4	207	302
	88	958	16,41	2,91	ZG92	SMR 132Ma4		
	99	852	14,55	3,14	ZG92	SMR 132Ma4		
	55	1534	26,02	1,00	ZG92	SMB 132Ma4		
	66	1278	21,92	1,43	ZG92	SMB 132Ma4		
	72	1171	20,04	1,66	ZG92	SMB 132Ma4		
	80	1054	17,95	1,96	ZG92	SMB 132Ma4		
	89	948	16,09	2,43	ZG92	SMB 132Ma4		
	99	852	14,55	2,93	ZG92	SMR 132Ma4		
	109	774	13,24	3,40	ZG92	SMB 132Ma4		
	119	709	12,12	3,91	ZG92	SMB 132Ma4		
	47	1795	30,74	1,06	ZG82	SMB 132Ma4		
	52	1622	27,88	1,17	ZG82	SMB 132Ma4		
	56	1506	25,75	1,26	ZG82	SMB 132Ma4		
	63	1339	22,70	1,39	ZG82	SMR 132Ma4		
	71	1188	20,18	1,52	ZG82	SMR 132Ma4		
	80	1054	17,96	1,69	ZG82	SMR 132Ma4		
	84	1004	17,13	1,76	ZG82	SMR 132Ma4		
	98	861	14,71	2,00	ZG82	SMR 132Ma4		
	113	746	12,74	2,24	ZG82	SMR 132Ma4		
	126	669	11,47	2,45	ZG82	SMR 132Ma4		
	148	570	9,74	2,82	ZG82	SMR 132Ma4		
	175	482	8,21	3,24	ZG82	SMR 132Ma4		
	225	375	6,40	3,90	ZG82	SMR 132Ma4	139	299
	48	1757	29,93	1,01	ZG82	SMB 132Ma4		
	54	1562	26,56	1,16	ZG82	SMB 132Ma4		
	61	1383	23,63	1,32	ZG82	SMB 132Ma4		
	65	1298	22,24	1,41	ZG82	SMB 132Ma4		
	71	1188	20,24	1,52	ZG82	SMB 132Ma4		
	79	1068	18,16	1,67	ZG82	SMB 132Ma4		
	87	969	16,47	1,81	ZG82	SMB 132Ma4		
	95	888	15,21	1,93	ZG82	SMB 132Ma4		
	107	788	13,41	2,13	ZG82	SMR 132Ma4		
	121	697	11,92	2,37	ZG82	SMR 132Ma4		
	136	620	10,61	2,62	ZG82	SMR 132Ma4		

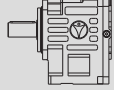




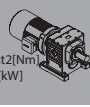
P	n ₂	Mt ₂	i	f _b			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
9,20	142	594	10,12	2,72	ZG82	SMR 132Ma4	139	299			
	166	508	8,69	3,11	ZG82	SMR 132Ma4					
	191	441	7,53	3,49	ZG82	SMR 132Ma4					
	213	396	6,78	3,78	ZG82	SMR 132Ma4					
	250	337	5,75	4,38	ZG82	SMR 132Ma4					
	60	1406	24,00	1,03	ZG72	SMB 132Ma4	129	296			
	68	1240	21,16	1,15	ZG72	SMR 132Ma4					
	77	1095	18,81	1,25	ZG72	SMR 132Ma4					
	86	981	16,74	1,36	ZG72	SMR 132Ma4					
	90	937	15,96	1,41	ZG72	SMR 132Ma4					
	105	803	13,71	1,59	ZG72	SMR 132Ma4					
	121	697	11,88	1,77	ZG72	SMR 132Ma4					
	135	625	10,69	1,92	ZG72	SMR 132Ma4					
	159	530	9,08	2,19	ZG72	SMR 132Ma4					
	188	448	7,66	2,48	ZG72	SMR 132Ma4					
	214	394	6,74	2,69	ZG72	SMR 132Ma4					
	241	350	5,97	2,92	ZG72	SMR 132Ma4					
	11,00	5,1	18998	281,61	1,05	ZG134			SMR 160M4	791	330
		6	16149	241,77	1,24	ZG134			SMR 160M4		
		6,9	14042	208,77	1,42	ZG134			SMR 160M4		
8		12111	180,98	1,65	ZG134	SMR 160M4					
9,6		10093	150,10	1,98	ZG134	SMR 160M4					
6,7		14757	215,49	1,36	ZG133	SMB 160M4	732	316			
7,3		13544	197,05	1,48	ZG133	SMB 160M4					
8,2		12057	176,42	1,66	ZG133	SMB 160M4					
9,1		10865	158,18	1,84	ZG133	SMB 160M4					
10		9887	142,99	2,02	ZG133	SMB 160M4					
11		8988	130,13	2,23	ZG133	SMB 160M4					
12		8239	119,11	2,43	ZG133	SMB 160M4					
14		7062	101,20	2,83	ZG133	SMB 160M4					
15		6591	93,82	3,03	ZG133	SMB 160M4					
17		5816	87,27	3,40	ZG133	SMR 160M4					
19		5203	76,13	3,75	ZG133	SMR 160M4					
21		4708	67,01	4,08	ZG133	SMR 160M4					
7,9		12265	182,24	1,10	ZG124	SMR 160M4			579	324	
9,5		10199	151,15	1,32	ZG124	SMR 160M4					
7,3		13544	198,43	1,00	ZG123	SMB 160M4	539	322			
8,1		12206	177,65	1,11	ZG123	SMB 160M4					
9		10985	159,29	1,23	ZG123	SMB 160M4					
10		9887	143,99	1,37	ZG123	SMB 160M4					
11		8988	131,04	1,50	ZG123	SMB 160M4					
12		8239	119,94	1,64	ZG123	SMB 160M4					
14		7062	101,91	1,91	ZG123	SMB 160M4					
15		6591	94,48	2,05	ZG123	SMB 160M4					
16		6179	87,88	2,18	ZG123	SMR 160M4					
19	5203	76,66	2,59	ZG123	SMR 160M4						
21	4708	67,48	2,87	ZG123	SMR 160M4						
24	4119	59,83	3,26	ZG123	SMR 160M4						






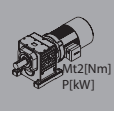
P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
11,00	27	3661	53,35	3,64	ZG123	SMR 160M4		
	30	3295	47,80	4,00	ZG123	SMR 160M4	539	322
	33	2996	42,99	4,34	ZG123	SMR 160M4		
	12	8239	115,81	1,00	ZG113	SMB 160M4		
	14	7062	102,96	1,16	ZG113	SMB 160M4		
	16	6179	91,64	1,33	ZG113	SMB 160M4		
	19	5203	75,03	1,58	ZG113	SMR 160M4		
	22	4494	65,00	1,82	ZG113	SMR 160M4	425	316
	25	3954	58,51	2,07	ZG113	SMR 160M4		
	29	3409	49,68	2,41	ZG113	SMR 160M4		
	34	2908	41,90	2,82	ZG113	SMR 160M4		
	39	2535	36,87	3,23	ZG113	SMR 160M4		
	44	2247	32,67	3,65	ZG113	SMR 160M4		
	23	4386	63,50	1,35	ZG112	SMB 160M4		
	25	4035	58,15	1,71	ZG112	SMB 160M4		
	28	3603	52,20	2,06	ZG112	SMB 160M4		
	31	3254	46,91	2,42	ZG112	SMB 160M4		
	34	2967	42,50	2,69	ZG112	SMB 160M4		
	37	2726	38,77	2,95	ZG112	SMB 160M4		
	40	2522	35,57	3,24	ZG112	SMB 160M4		
	47	2146	30,38	3,82	ZG112	SMB 160M4		
	51	1978	28,24	4,15	ZG112	SMB 160M4	398	314
	55	1834	26,33	4,47	ZG112	SMR 160M4		
	37	2726	38,81	1,33	ZG112	SMB 160M4		
	41	2460	35,54	1,73	ZG112	SMB 160M4		
	45	2242	31,90	2,03	ZG112	SMB 160M4		
	50	2017	28,67	2,58	ZG112	SMB 160M4		
	55	1834	25,97	3,12	ZG112	SMB 160M4		
	61	1653	23,69	3,75	ZG112	SMB 160M4		
	66	1528	21,74	4,26	ZG112	SMB 160M4		
	22	4494	64,62	1,09	ZG103	SMR 160M4		
	26	3802	55,48	1,29	ZG103	SMR 160M4		
	30	3295	47,91	1,49	ZG103	SMR 160M4	311	310
	35	2824	41,53	1,73	ZG103	SMR 160M4		
	42	2354	34,44	2,08	ZG103	SMR 160M4		
	29	3478	49,45	1,41	ZG102	SMB 160M4		
	32	3152	45,22	1,55	ZG102	SMB 160M4		
	36	2802	40,48	1,75	ZG102	SMB 160M4		
	40	2522	36,30	1,94	ZG102	SMB 160M4		
	44	2292	32,81	2,14	ZG102	SMB 160M4		
	48	2101	29,86	2,33	ZG102	SMB 160M4		
	53	1903	27,33	2,57	ZG102	SMB 160M4	284	308
	62	1627	23,22	3,01	ZG102	SMB 160M4		
	67	1505	21,53	3,25	ZG102	SMB 160M4		
	72	1401	20,03	3,50	ZG102	SMR 160M4		
	82	1230	17,47	3,75	ZG102	SMR 160M4		
	94	1073	15,38	4,23	ZG102	SMR 160M4		
	66	1528	21,65	2,04	ZG102	SMB 160M4		

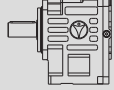




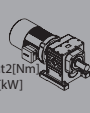
P	n ₂	Mt ₂	i	f _b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
11,00	73	1382	19,80	2,56	ZG102	SMB 160M4	284	308		
	81	1245	17,73	3,11	ZG102	SMB 160M4				
	91	1108	15,90	3,72	ZG102	SMB 160M4				
	100	1008	14,37	4,33	ZG102	SMB 160M4				
	32	3089	44,31	1,00	ZG93	SMR 160M4	248	304		
	39	2535	36,75	1,22	ZG93	SMR 160M4				
	33	3057	43,19	1,01	ZG92	SMB 160M4				
	37	2726	38,73	1,14	ZG92	SMB 160M4				
	41	2460	35,01	1,26	ZG92	SMB 160M4				
	45	2242	31,86	1,38	ZG92	SMB 160M4				
	49	2058	29,16	1,51	ZG92	SMB 160M4				
	58	1739	24,78	1,78	ZG92	SMB 160M4				
	63	1601	22,97	1,92	ZG92	SMB 160M4				
	67	1505	21,37	2,02	ZG92	SMR 160M4				
	77	1310	18,64	2,22	ZG92	SMR 160M4				
	88	1146	16,41	2,43	ZG92	SMR 160M4				
	99	1019	14,55	2,63	ZG92	SMR 160M4				
	111	908	12,97	2,86	ZG92	SMR 160M4				
	124	813	11,62	3,10	ZG92	SMR 160M4			221	302
	138	731	10,45	3,32	ZG92	SMR 160M4				
145	695	9,92	3,41	ZG92	SMR 160M4					
169	596	8,53	3,77	ZG92	SMR 160M4					
66	1528	21,92	1,20	ZG92	SMB 160M4					
72	1401	20,04	1,39	ZG92	SMB 160M4					
80	1261	17,95	1,64	ZG92	SMB 160M4					
89	1133	16,09	2,03	ZG92	SMB 160M4					
99	1019	14,55	2,45	ZG92	SMR 160M4					
109	925	13,24	2,84	ZG92	SMB 160M4					
119	847	12,12	3,27	ZG92	SMB 160M4					
140	720	10,29	3,96	ZG92	SMB 160M4					
151	668	9,54	4,27	ZG92	SMB 160M4					
65	1552	22,24	1,18	ZG82	SMB 160M4	153	299			
71	1420	20,24	1,27	ZG82	SMB 160M4					
79	1277	18,16	1,40	ZG82	SMB 160M4					
87	1159	16,47	1,51	ZG82	SMB 160M4					
95	1062	15,21	1,62	ZG82	SMB 160M4					
107	942	13,41	1,78	ZG82	SMB 160M4					
121	833	11,92	1,98	ZG82	SMB 160M4					
136	741	10,61	2,19	ZG82	SMB 160M4					
142	710	10,12	2,28	ZG82	SMR 160M4					
166	607	8,69	2,60	ZG82	SMR 160M4					
191	528	7,53	2,92	ZG82	SMR 160M4					
213	473	6,78	3,16	ZG82	SMR 160M4					
250	403	5,75	3,67	ZG82	SMR 160M4					
297	339	4,85	4,30	ZG82	SMR 160M4					
68	1483	21,16	0,96	ZG72	SMB 160M4			143	296	
77	1310	18,81	1,05	ZG72	SMB 160M4					
86	1173	16,74	1,14	ZG72	SMB 160M4					

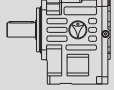
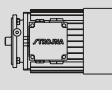



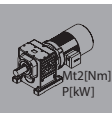
P	n ₂	Mt ₂	i	f _B			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
11,00	90	1121	15,96	1,18	ZG72	SMR 160M4	143	296		
	105	960	13,71	1,33	ZG72	SMR 160M4				
	121	833	11,88	1,48	ZG72	SMR 160M4				
	135	747	10,69	1,60	ZG72	SMR 160M4				
	159	634	9,08	1,83	ZG72	SMR 160M4				
	188	536	7,66	2,07	ZG72	SMR 160M4				
	214	471	6,74	2,25	ZG72	SMR 160M4				
	241	418	5,97	2,44	ZG72	SMR 160M4				
15,00	6,9	19149	208,77	1,04	ZG134	SMR 160L4	820	330		
	8	16516	180,98	1,21	ZG134	SMR 160L4				
	9,6	13763	150,10	1,45	ZG134	SMR 160L4				
	6,7	20123	215,49	0,99	ZG133	SMB 160L4	761	328		
	7,3	18469	197,05	1,08	ZG133	SMB 160L4				
	8,2	16442	176,42	1,22	ZG133	SMB 160L4				
	9,1	14816	158,18	1,35	ZG133	SMB 160L4				
	10	13482	142,99	1,48	ZG133	SMB 160L4				
	11	12256	130,13	1,63	ZG133	SMB 160L4				
	12	11235	119,11	1,78	ZG133	SMB 160L4				
	14	9630	101,20	2,08	ZG133	SMB 160L4				
	15	8988	93,82	2,23	ZG133	SMB 160L4				
	17	7930	87,27	2,49	ZG133	SMR 160L4				
	19	7096	76,13	2,75	ZG133	SMR 160L4				
	21	6420	67,01	2,99	ZG133	SMR 160L4				
	24	5617	59,41	3,36	ZG133	SMR 160L4				
	27	4993	52,98	3,71	ZG133	SMR 160L4				
	30	4494	47,47	4,07	ZG133	SMR 160L4				
	9,5	13908	151,15	0,97	ZG124	SMR 160L4			568	322
	10	13482	143,99	1,00	ZG123	SMB 160L4				
	11	12256	131,04	1,10	ZG123	SMB 160L4				
	12	11235	119,94	1,20	ZG123	SMB 160L4				
	14	9630	101,91	1,40	ZG123	SMB 160L4				
	15	8988	94,48	1,50	ZG123	SMB 160L4				
	16	8426	87,88	1,60	ZG123	SMR 160L4				
	19	7096	76,66	1,90	ZG123	SMR 160L4				
	21	6420	67,48	2,10	ZG123	SMR 160L4				
	24	5617	59,83	2,39	ZG123	SMR 160L4				
	27	4993	53,35	2,67	ZG123	SMR 160L4				
	30	4494	47,80	2,94	ZG123	SMR 160L4				
	33	4085	42,99	3,18	ZG123	SMR 160L4				
	35	3852	40,82	3,31	ZG123	SMR 160L4				
41	3288	35,07	3,71	ZG123	SMR 160L4					
40	3439	36,23	3,93	ZG122	SMB 160L4	454	316			
16	8426	91,64	0,97	ZG113	SMB 160L4					
16	8426	87,38	0,97	ZG113	SMR 160L4					
19	7096	75,03	1,16	ZG113	SMR 160L4					
22	6128	65,00	1,34	ZG113	SMR 160L4					
25	5393	58,51	1,52	ZG113	SMR 160L4					
29	4649	49,68	1,76	ZG113	SMR 160L4					

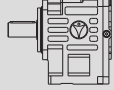




P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
15,00	34	3965	41,90	2,07	ZG113	SMR 160L4		
	39	3457	36,87	2,37	ZG113	SMR 160L4	454	316
	44	3064	32,67	2,68	ZG113	SMR 160L4		
	23	5981	63,50	0,99	ZG112	SMB 160L4		
	25	5503	58,15	1,26	ZG112	SMB 160L4		
	28	4913	52,20	1,51	ZG112	SMB 160L4		
	31	4437	46,91	1,78	ZG112	SMB 160L4		
	34	4046	42,50	1,98	ZG112	SMB 160L4		
	37	3718	38,77	2,16	ZG112	SMB 160L4		
	40	3439	35,57	2,37	ZG112	SMB 160L4		
	47	2927	30,38	2,80	ZG112	SMB 160L4		
	51	2697	28,24	3,04	ZG112	SMB 160L4		
	55	2501	26,33	3,28	ZG112	SMR 160L4		
	62	2218	23,10	3,70	ZG112	SMR 160L4	427	314
	70	1965	20,45	4,17	ZG112	SMR 160L4		
	37	3718	38,81	0,98	ZG112	SMB 160L4		
	41	3355	35,54	1,27	ZG112	SMB 160L4		
	45	3057	31,90	1,49	ZG112	SMB 160L4		
	50	2751	28,67	1,89	ZG112	SMB 160L4		
	55	2501	25,97	2,29	ZG112	SMB 160L4		
	61	2255	23,69	2,75	ZG112	SMB 160L4		
	66	2084	21,74	3,13	ZG112	SMB 160L4		
	78	1763	18,56	3,83	ZG112	SMB 160L4		
	83	1657	17,25	4,09	ZG112	SMB 160L4		
	89	1545	16,09	4,40	ZG112	SMR 160L4		
	30	4494	47,91	1,09	ZG103	SMR 160L4		
	35	3852	41,53	1,27	ZG103	SMR 160L4	340	310
	42	3210	34,44	1,53	ZG103	SMR 160L4		
	29	4744	49,45	1,03	ZG102	SMB 160L4		
	32	4299	45,22	1,14	ZG102	SMB 160L4		
	36	3821	40,48	1,28	ZG102	SMB 160L4		
	40	3439	36,30	1,42	ZG102	SMB 160L4		
	44	3126	32,81	1,57	ZG102	SMB 160L4		
	48	2866	29,86	1,71	ZG102	SMB 160L4		
	53	2595	27,33	1,89	ZG102	SMB 160L4		
	62	2218	23,22	2,21	ZG102	SMB 160L4		
	67	2053	21,53	2,39	ZG102	SMB 160L4		
	72	1910	20,03	2,56	ZG102	SMR 160L4		
	82	1677	17,47	2,75	ZG102	SMR 160L4	313	308
	94	1463	15,38	3,10	ZG102	SMR 160L4		
	106	1297	13,63	3,44	ZG102	SMR 160L4		
	118	1165	12,16	3,79	ZG102	SMR 160L4		
	132	1042	10,89	4,17	ZG102	SMR 160L4		
	66	2084	21,65	1,50	ZG102	SMB 160L4		
	73	1884	19,80	1,88	ZG102	SMB 160L4		
	81	1698	17,73	2,28	ZG102	SMB 160L4		
	91	1511	15,90	2,73	ZG102	SMB 160L4		
	100	1375	14,37	3,17	ZG102	SMB 160L4		

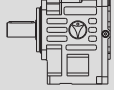




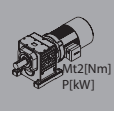
P	n ₂	Mt ₂	i	f _B			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
15,00	110	1250	13,08	3,53	ZG102	SMB	160L4	313	308
	120	1146	11,97	3,89	ZG102	SMB	160L4		
	45	3057	31,86	1,01	ZG92	SMB	160L4	250	302
	49	2807	29,16	1,10	ZG92	SMB	160L4		
	58	2372	24,78	1,31	ZG92	SMB	160L4		
	63	2183	22,97	1,41	ZG92	SMB	160L4		
	67	2053	21,37	1,48	ZG92	SMR	160L4		
	77	1786	18,64	1,63	ZG92	SMR	160L4		
	88	1563	16,41	1,78	ZG92	SMR	160L4		
	99	1389	14,55	1,93	ZG92	SMR	160L4		
	111	1239	12,97	2,09	ZG92	SMR	160L4		
	124	1109	11,62	2,27	ZG92	SMR	160L4		
	138	996	10,45	2,44	ZG92	SMR	160L4		
	145	948	9,92	2,50	ZG92	SMR	160L4		
	169	814	8,53	2,76	ZG92	SMR	160L4		
	72	1910	20,04	1,02	ZG92	SMB	160L4		
	80	1719	17,95	1,20	ZG92	SMB	160L4		
	89	1545	16,09	1,49	ZG92	SMB	160L4		
	99	1389	14,55	1,80	ZG92	SMR	160L4		
	109	1262	13,24	2,08	ZG92	SMB	160L4		
	119	1156	12,12	2,40	ZG92	SMB	160L4		
	140	982	10,29	2,91	ZG92	SMB	160L4		
	151	911	9,54	3,13	ZG92	SMB	160L4		
	162	849	8,88	3,32	ZG92	SMR	160L4		
	186	739	7,74	3,74	ZG92	SMR	160L4		
	211	652	6,82	4,14	ZG92	SMR	160L4		
	80	1719	17,96	1,04	ZG82	SMB	160L4	182	299
	84	1637	17,13	1,08	ZG82	SMR	160L4		
	98	1403	14,71	1,23	ZG82	SMR	160L4		
	113	1217	12,74	1,38	ZG82	SMR	160L4		
	126	1091	11,47	1,51	ZG82	SMR	160L4		
	148	929	9,74	1,73	ZG82	SMR	160L4		
	175	786	8,21	1,99	ZG82	SMR	160L4		
	225	611	6,40	2,39	ZG82	SMR	160L4		
	79	1741	18,16	1,03	ZG82	SMB	160L4		
	87	1581	16,47	1,11	ZG82	SMB	160L4		
	95	1448	15,21	1,18	ZG82	SMB	160L4		
	107	1285	13,41	1,31	ZG82	SMB	160L4		
	121	1137	11,92	1,46	ZG82	SMB	160L4		
	136	1011	10,61	1,61	ZG82	SMB	160L4		
	142	968	10,12	1,67	ZG82	SMR	160L4		
	166	828	8,69	1,91	ZG82	SMR	160L4		
	191	720	7,53	2,14	ZG82	SMR	160L4		
	213	645	6,78	2,32	ZG82	SMR	160L4		
	250	550	5,75	2,69	ZG82	SMR	160L4		
	297	463	4,85	3,15	ZG82	SMR	160L4		
	337	408	4,27	3,53	ZG82	SMR	160L4		
	381	361	3,78	3,90	ZG82	SMR	160L4		

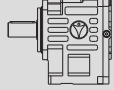




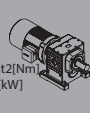
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
18,50	8,1	20118	180,98	0,99	ZG134	SMR 180M4	842	330
	9,7	16799	150,10	1,19	ZG134	SMR 180M4		
	8,3	20034	176,42	1,00	ZG133	SMB 180M4	783	328
	9,2	18074	158,18	1,11	ZG133	SMB 180M4		
	10	16628	142,99	1,20	ZG133	SMB 180M4		
	11	15116	130,13	1,32	ZG133	SMB 180M4		
	12	13857	119,11	1,44	ZG133	SMB 180M4		
	14	11877	101,20	1,68	ZG133	SMB 180M4		
	16	10392	93,82	1,92	ZG133	SMB 180M4		
	17	9781	87,27	2,02	ZG133	SMB 180M4		
	19	8751	76,13	2,23	ZG133	SMR 180M4		
	22	7558	67,01	2,54	ZG133	SMR 180M4		
	25	6651	59,41	2,84	ZG133	SMR 180M4		
	28	5938	52,98	3,12	ZG133	SMR 180M4		
	31	5364	47,47	3,41	ZG133	SMR 180M4		
	34	4890	42,69	3,68	ZG133	SMR 180M4		
	36	4619	40,54	3,87	ZG133	SMR 180M4		
	42	3959	34,83	4,43	ZG133	SMR 180M4		
	41	4138	35,98	4,21	ZG132	SMB 180M4	741	326
	12	13857	119,94	0,97	ZG123	SMB 180M4	590	322
	14	11877	101,91	1,14	ZG123	SMB 180M4		
	15	11085	94,48	1,22	ZG123	SMB 180M4		
	17	9781	87,88	1,38	ZG123	SMB 180M4		
	19	8751	76,66	1,54	ZG123	SMR 180M4		
	22	7558	67,48	1,79	ZG123	SMR 180M4		
	24	6928	59,83	1,94	ZG123	SMR 180M4		
	27	6158	53,35	2,16	ZG123	SMR 180M4		
	31	5364	47,80	2,46	ZG123	SMR 180M4		
	34	4890	42,99	2,66	ZG123	SMR 180M4		
	36	4619	40,82	2,76	ZG123	SMR 180M4		
	42	3959	35,07	3,08	ZG123	SMR 180M4		
	48	3464	30,26	3,39	ZG123	SMR 180M4		
	56	2969	26,16	3,74	ZG123	SMR 180M4		
	40	4241	36,23	3,18	ZG122	SMB 180M4	545	320
	47	3610	31,02	3,74	ZG122	SMB 180M4		
	51	3327	28,88	4,06	ZG122	SMB 180M4		
	54	3142	26,97	4,14	ZG122	SMR 180M4		
	22	7558	65,00	1,08	ZG113	SMR 180M4	476	316
	25	6651	58,51	1,23	ZG113	SMR 180M4		
	29	5733	49,68	1,43	ZG113	SMR 180M4		
	35	4751	41,90	1,73	ZG113	SMR 180M4		
	40	4157	36,87	1,97	ZG113	SMR 180M4		
	45	3695	32,67	2,22	ZG113	SMR 180M4		
	25	6787	58,15	1,02	ZG112	SMB 180M4		
	28	6059	52,20	1,22	ZG112	SMB 180M4		
	31	5473	46,91	1,44	ZG112	SMB 180M4		
	34	4990	42,50	1,60	ZG112	SMB 180M4		
	38	4465	38,77	1,80	ZG112	SMB 180M4		

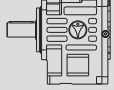




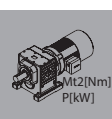
P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
18,50	41	4138	35,57	1,97	ZG112	SMB 180M4		
	48	3534	30,38	2,32	ZG112	SMB 180M4		
	52	3263	28,24	2,51	ZG112	SMB 180M4		
	55	3085	26,33	2,66	ZG112	SMB 180M4		
	63	2693	23,10	3,04	ZG112	SMR 180M4		
	71	2389	20,45	3,43	ZG112	SMR 180M4		
	80	2120	18,25	3,87	ZG112	SMR 180M4		
	89	1906	16,38	4,30	ZG112	SMR 180M4		
	41	4138	35,54	1,03	ZG112	SMB 180M4	449	314
	46	3688	31,90	1,23	ZG112	SMB 180M4		
	51	3327	28,67	1,56	ZG112	SMB 180M4		
	56	3029	25,97	1,89	ZG112	SMB 180M4		
	62	2736	23,69	2,27	ZG112	SMB 180M4		
	67	2532	21,74	2,57	ZG112	SMB 180M4		
	79	2147	18,56	3,15	ZG112	SMB 180M4		
	85	1996	17,25	3,39	ZG112	SMB 180M4		
	91	1864	16,09	3,64	ZG112	SMB 180M4		
	103	1647	14,12	4,11	ZG112	SMR 180M4		
	35	4751	41,53	1,03	ZG103	SMR 180M4	362	310
	42	3959	34,44	1,24	ZG103	SMR 180M4		
36	4713	40,48	1,04	ZG102	SMB 180M4			
40	4241	36,30	1,16	ZG102	SMB 180M4			
44	3856	32,81	1,27	ZG102	SMB 180M4			
49	3462	29,86	1,42	ZG102	SMB 180M4			
53	3201	27,33	1,53	ZG102	SMB 180M4			
63	2693	23,22	1,82	ZG102	SMB 180M4			
68	2495	21,53	1,96	ZG102	SMB 180M4			
73	2324	20,03	2,11	ZG102	SMB 180M4			
84	2019	17,47	2,29	ZG102	SMR 180M4			
95	1786	15,38	2,54	ZG102	SMR 180M4			
107	1585	13,63	2,82	ZG102	SMR 180M4			
120	1413	12,16	3,12	ZG102	SMR 180M4			
134	1266	10,89	3,44	ZG102	SMR 180M4	335	308	
149	1138	9,80	3,76	ZG102	SMR 180M4			
157	1080	9,30	3,91	ZG102	SMR 180M4			
183	927	7,99	4,46	ZG102	SMR 180M4			
74	2292	19,80	1,54	ZG102	SMB 180M4			
82	2069	17,73	1,87	ZG102	SMB 180M4			
92	1844	15,90	2,24	ZG102	SMB 180M4			
102	1663	14,37	2,62	ZG102	SMB 180M4			
112	1514	13,08	2,91	ZG102	SMB 180M4			
122	1390	11,97	3,21	ZG102	SMB 180M4			
144	1178	10,17	3,76	ZG102	SMB 180M4			
155	1094	9,43	4,02	ZG102	SMB 180M4			
166	1022	8,77	4,26	ZG102	SMB 180M4			
59	2875	24,78	1,08	ZG92	SMB 180M4	272	302	
64	2651	22,97	1,16	ZG92	SMB 180M4			
68	2495	21,37	1,22	ZG92	SMB 180M4			

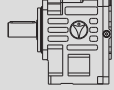




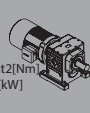
P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
18,50	78	2175	18,64	1,34	ZG92	SMR	180M4		
	89	1906	16,41	1,46	ZG92	SMR	180M4		
	100	1696	14,55	1,58	ZG92	SMR	180M4		
	113	1501	12,97	1,73	ZG92	SMR	180M4		
	126	1346	11,62	1,87	ZG92	SMR	180M4		
	140	1211	10,45	2,00	ZG92	SMR	180M4		
	147	1154	9,92	2,05	ZG92	SMR	180M4		
	171	992	8,53	2,27	ZG92	SMR	180M4		
	198	856	7,36	2,51	ZG92	SMR	180M4		
	230	737	6,36	2,74	ZG92	SMR	180M4		
	81	2094	17,95	0,99	ZG92	SMB	180M4		
	91	1864	16,09	1,24	ZG92	SMB	180M4	272	302
	100	1696	14,55	1,47	ZG92	SMR	180M4		
	110	1542	13,24	1,70	ZG92	SMB	180M4		
	121	1402	12,12	1,98	ZG92	SMB	180M4		
	142	1194	10,29	2,39	ZG92	SMB	180M4		
	153	1109	9,54	2,57	ZG92	SMB	180M4		
	164	1034	8,88	2,72	ZG92	SMB	180M4		
	189	897	7,74	3,08	ZG92	SMR	180M4		
	214	792	6,82	3,41	ZG92	SMR	180M4		
	242	701	6,04	3,73	ZG92	SMR	180M4		
	271	626	5,39	4,08	ZG92	SMR	180M4		
	302	561	4,83	4,40	ZG92	SMR	180M4		
	122	1390	11,92	1,19	ZG82	SMB	180M4		
	138	1229	10,61	1,32	ZG82	SMB	180M4		
	144	1178	10,12	1,37	ZG82	SMB	180M4		
	168	1009	8,69	1,57	ZG82	SMR	180M4		
	194	874	7,53	1,76	ZG82	SMR	180M4	204	299
	215	789	6,78	1,90	ZG82	SMR	180M4		
	254	668	5,75	2,22	ZG82	SMR	180M4		
301	563	4,85	2,59	ZG82	SMR	180M4			
342	496	4,27	2,90	ZG82	SMR	180M4			
386	439	3,78	3,20	ZG82	SMR	180M4			
22,00	9,7	19978	150,10	1,00	ZG134	SMR	180L4	857	330
	10	19774	142,99	1,01	ZG133	SMB	180L4		
	11	17976	130,13	1,11	ZG133	SMB	180L4		
	12	16478	119,11	1,21	ZG133	SMB	180L4		
	14	14124	101,20	1,42	ZG133	SMB	180L4		
	16	12359	93,82	1,62	ZG133	SMB	180L4		
	17	11632	87,27	1,70	ZG133	SMB	180L4		
	19	10407	76,13	1,87	ZG133	SMR	180L4		
	22	8988	67,01	2,14	ZG133	SMR	180L4	798	328
	25	7909	59,41	2,38	ZG133	SMR	180L4		
	28	7062	52,98	2,63	ZG133	SMR	180L4		
	31	6378	47,47	2,87	ZG133	SMR	180L4		
	34	5816	42,69	3,10	ZG133	SMR	180L4		
	36	5492	40,54	3,26	ZG133	SMR	180L4		
	42	4708	34,83	3,72	ZG133	SMR	180L4		

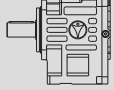




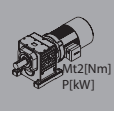
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
22,00	49	4035	30,05	4,25	ZG133	SMR 180L4	798	328
	41	4921	35,98	3,54	ZG132	SMB 180L4		
	47	4293	30,81	3,92	ZG132	SMB 180L4	756	326
	51	3956	28,68	4,15	ZG132	SMB 180L4		
	55	3668	26,78	4,38	ZG132	SMR 180L4		
	14	14124	101,91	0,96	ZG123	SMB 180L4		
	15	13182	94,48	1,02	ZG123	SMB 180L4		
	17	11632	87,88	1,16	ZG123	SMB 180L4		
	19	10407	76,66	1,30	ZG123	SMR 180L4		
	22	8988	67,48	1,50	ZG123	SMR 180L4		
	24	8239	59,83	1,63	ZG123	SMR 180L4		
	27	7323	53,35	1,82	ZG123	SMR 180L4	605	322
	31	6378	47,80	2,07	ZG123	SMR 180L4		
	34	5816	42,99	2,24	ZG123	SMR 180L4		
	36	5492	40,82	2,32	ZG123	SMR 180L4		
	42	4708	35,07	2,59	ZG123	SMR 180L4		
	48	4119	30,26	2,85	ZG123	SMR 180L4		
	56	3531	26,16	3,14	ZG123	SMR 180L4		
	40	5044	36,23	2,68	ZG122	SMB 180L4		
	47	4293	31,02	3,14	ZG122	SMB 180L4		
	51	3956	28,88	3,41	ZG122	SMB 180L4	560	320
	54	3736	26,97	3,48	ZG122	SMR 180L4		
	62	3254	23,73	3,80	ZG122	SMR 180L4		
	69	2924	21,07	4,17	ZG122	SMR 180L4		
	25	7909	58,51	1,04	ZG113	SMR 180L4		
	29	6818	49,68	1,20	ZG113	SMR 180L4		
	35	5649	41,90	1,45	ZG113	SMR 180L4	491	316
	40	4943	36,87	1,66	ZG113	SMR 180L4		
	45	4394	32,67	1,87	ZG113	SMR 180L4		
	28	7206	52,20	1,03	ZG112	SMB 180L4		
	31	6509	46,91	1,21	ZG112	SMB 180L4		
	34	5934	42,50	1,35	ZG112	SMB 180L4		
	38	5310	38,77	1,52	ZG112	SMB 180L4		
	41	4921	35,57	1,66	ZG112	SMB 180L4		
	48	4203	30,38	1,95	ZG112	SMB 180L4		
	52	3880	28,24	2,11	ZG112	SMB 180L4		
	55	3668	26,33	2,24	ZG112	SMB 180L4		
	63	3202	23,10	2,56	ZG112	SMR 180L4		
	71	2841	20,45	2,89	ZG112	SMR 180L4	464	314
	80	2522	18,25	3,25	ZG112	SMR 180L4		
	89	2267	16,38	3,62	ZG112	SMR 180L4		
	99	2038	14,79	4,00	ZG112	SMR 180L4		
	109	1851	13,40	4,38	ZG112	SMR 180L4		
	46	4386	31,90	1,04	ZG112	SMB 180L4		
	51	3956	28,67	1,32	ZG112	SMB 180L4		
	56	3603	25,97	1,59	ZG112	SMB 180L4		
	62	3254	23,69	1,91	ZG112	SMB 180L4		
	67	3011	21,74	2,16	ZG112	SMB 180L4		

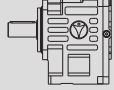




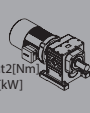
P	n ₂	Mt ₂	i	f _b			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
22,00	79	2554	18,56	2,65	ZG112	SMB	180L4	464	314		
	85	2373	17,25	2,85	ZG112	SMB	180L4				
	91	2217	16,09	3,06	ZG112	SMB	180L4				
	103	1959	14,12	3,46	ZG112	SMR	180L4				
	117	1724	12,50	3,90	ZG112	SMR	180L4				
	131	1540	11,15	4,29	ZG112	SMR	180L4				
	42	4708	34,44	1,04	ZG103	SMR	180L4			377	310
	40	5044	36,30	0,97	ZG102	SMB	180L4			350	308
	44	4585	32,81	1,07	ZG102	SMB	180L4				
	49	4117	29,86	1,19	ZG102	SMB	180L4				
	53	3807	27,33	1,29	ZG102	SMB	180L4				
	63	3202	23,22	1,53	ZG102	SMB	180L4				
	68	2967	21,53	1,65	ZG102	SMB	180L4				
	73	2764	20,03	1,77	ZG102	SMB	180L4				
	84	2402	17,47	1,92	ZG102	SMR	180L4				
	95	2124	15,38	2,14	ZG102	SMR	180L4				
	107	1885	13,63	2,37	ZG102	SMR	180L4				
	120	1681	12,16	2,62	ZG102	SMR	180L4				
	134	1505	10,89	2,89	ZG102	SMR	180L4				
	149	1354	9,80	3,16	ZG102	SMR	180L4				
157	1285	9,30	3,29	ZG102	SMR	180L4					
183	1102	7,99	3,75	ZG102	SMR	180L4					
212	951	6,89	4,24	ZG102	SMR	180L4					
74	2726	19,80	1,30	ZG102	SMB	180L4					
82	2460	17,73	1,58	ZG102	SMB	180L4					
92	2193	15,90	1,88	ZG102	SMB	180L4					
102	1978	14,37	2,21	ZG102	SMB	180L4					
112	1801	13,08	2,45	ZG102	SMB	180L4					
122	1653	11,97	2,70	ZG102	SMB	180L4					
144	1401	10,17	3,16	ZG102	SMB	180L4					
155	1301	9,43	3,38	ZG102	SMB	180L4					
166	1215	8,77	3,58	ZG102	SMB	180L4					
191	1056	7,65	4,04	ZG102	SMR	180L4					
217	929	6,73	4,39	ZG102	SMR	180L4					
64	3152	22,97	0,98	ZG92	SMB	180L4	287	302			
68	2967	21,37	1,02	ZG92	SMB	180L4					
78	2586	18,64	1,12	ZG92	SMR	180L4					
89	2267	16,41	1,23	ZG92	SMR	180L4					
100	2017	14,55	1,33	ZG92	SMR	180L4					
113	1785	12,97	1,45	ZG92	SMR	180L4					
126	1601	11,62	1,57	ZG92	SMR	180L4					
140	1441	10,45	1,68	ZG92	SMR	180L4					
147	1372	9,92	1,73	ZG92	SMR	180L4					
171	1180	8,53	1,91	ZG92	SMR	180L4					
198	1019	7,36	2,11	ZG92	SMR	180L4					
230	877	6,36	2,30	ZG92	SMR	180L4					
91	2217	16,09	1,04	ZG92	SMB	180L4					
100	2017	14,55	1,24	ZG92	SMR	180L4					






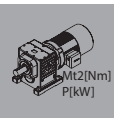
P	n ₂	Mt ₂	i	f _B			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
22,00	110	1834	13,24	1,43	ZG92	SMB	180L4		
	121	1667	12,12	1,66	ZG92	SMB	180L4		
	142	1421	10,29	2,01	ZG92	SMB	180L4		
	153	1318	9,54	2,16	ZG92	SMB	180L4		
	164	1230	8,88	2,29	ZG92	SMB	180L4		
	189	1067	7,74	2,59	ZG92	SMR	180L4		
	214	942	6,82	2,87	ZG92	SMR	180L4		
	242	833	6,04	3,14	ZG92	SMR	180L4	287	302
	271	744	5,39	3,43	ZG92	SMR	180L4		
	302	668	4,83	3,70	ZG92	SMR	180L4		
	336	600	4,34	4,00	ZG92	SMR	180L4		
	354	570	4,12	4,13	ZG92	SMR	180L4		
	412	489	3,54	4,39	ZG92	SMR	180L4		
	478	422	3,06	4,43	ZG92	SMR	180L4		
	552	365	2,64	4,45	ZG92	SMR	180L4		
30,00	15	17976	101,20	1,11	ZG133	SMB	200L4		
	16	16853	93,82	1,19	ZG133	SMB	200L4		
	17	15861	87,27	1,25	ZG133	SMB	200L4		
	19	14192	76,13	1,37	ZG133	SMR	200L4		
	22	12256	67,01	1,57	ZG133	SMR	200L4		
	25	10786	59,41	1,75	ZG133	SMR	200L4		
	28	9630	52,98	1,93	ZG133	SMR	200L4	873	328
	31	8698	47,47	2,10	ZG133	SMR	200L4		
	34	7930	42,69	2,27	ZG133	SMR	200L4		
	36	7490	40,54	2,39	ZG133	SMR	200L4		
	42	6420	34,83	2,73	ZG133	SMR	200L4		
	49	5503	30,05	3,12	ZG133	SMR	200L4		
	57	4730	25,98	3,55	ZG133	SMR	200L4		
	41	6711	35,98	2,60	ZG132	SMB	200L4		
	48	5732	30,81	2,93	ZG132	SMB	200L4		
	51	5395	28,68	3,05	ZG132	SMB	200L4		
	55	5002	26,78	3,21	ZG132	SMR	200L4	831	326
	62	4437	23,56	3,56	ZG132	SMR	200L4		
	70	3930	20,93	3,94	ZG132	SMR	200L4		
	78	3527	18,73	4,34	ZG132	SMR	200L4		
	19	14192	76,66	0,95	ZG123	SMR	200L4		
	22	12256	67,48	1,10	ZG123	SMR	200L4		
	25	10786	59,83	1,24	ZG123	SMR	200L4		
	28	9630	53,35	1,38	ZG123	SMR	200L4		
	31	8698	47,80	1,52	ZG123	SMR	200L4	680	322
	34	7930	42,99	1,64	ZG123	SMR	200L4		
	36	7490	40,82	1,70	ZG123	SMR	200L4		
	42	6420	35,07	1,90	ZG123	SMR	200L4		
	49	5503	30,26	2,14	ZG123	SMR	200L4		
	56	4815	26,16	2,30	ZG123	SMR	200L4		
41	6711	36,23	2,01	ZG122	SMB	200L4			
47	5854	31,02	2,31	ZG122	SMB	200L4	635	320	
51	5395	28,88	2,50	ZG122	SMB	200L4			

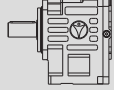




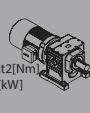
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
30,00	55	5002	26,97	2,60	ZG122	SMR	200L4	
	62	4438	23,73	2,79	ZG122	SMR	200L4	
	70	3930	21,07	3,10	ZG122	SMR	200L4	
	78	3527	18,86	3,40	ZG122	SMR	200L4	635
	87	3162	16,99	3,75	ZG122	SMR	200L4	320
	96	2866	15,39	4,09	ZG122	SMR	200L4	
	105	2620	14,00	4,40	ZG122	SMR	200L4	
	35	7861	42,50	1,02	ZG112	SMB	200L4	
	38	7240	38,77	1,11	ZG112	SMB	200L4	
	41	6711	35,57	1,22	ZG112	SMB	200L4	
	48	5732	30,38	1,43	ZG112	SMB	200L4	
	52	5291	28,24	1,55	ZG112	SMB	200L4	
	56	4913	26,33	1,67	ZG112	SMB	200L4	
	64	4299	23,10	1,91	ZG112	SMR	200L4	
	72	3821	20,45	2,15	ZG112	SMR	200L4	
	81	3396	18,25	2,41	ZG112	SMR	200L4	
	90	3057	16,38	2,68	ZG112	SMR	200L4	
	99	2779	14,79	2,94	ZG112	SMR	200L4	
	110	2501	13,40	3,24	ZG112	SMR	200L4	
	115	2392	12,77	3,34	ZG112	SMR	200L4	
	132	2084	11,12	3,54	ZG112	SMR	200L4	
	151	1822	9,73	3,59	ZG112	SMR	200L4	
	172	1600	8,55	3,63	ZG112	SMR	200L4	
	203	1355	7,23	3,68	ZG112	SMR	200L4	
240	1146	6,13	3,75	ZG112	SMR	200L4		
51	5395	28,67	0,96	ZG112	SMB	200L4	539	
57	4827	25,97	1,18	ZG112	SMB	200L4	314	
62	4438	23,69	1,40	ZG112	SMB	200L4		
68	4046	21,74	1,61	ZG112	SMB	200L4		
79	3483	18,56	1,94	ZG112	SMB	200L4		
85	3237	17,25	2,09	ZG112	SMB	200L4		
91	3023	16,09	2,25	ZG112	SMB	200L4		
104	2645	14,12	2,56	ZG112	SMR	200L4		
118	2331	12,50	2,88	ZG112	SMR	200L4		
132	2084	11,15	3,17	ZG112	SMR	200L4		
147	1871	10,01	3,43	ZG112	SMR	200L4		
163	1688	9,04	3,49	ZG112	SMR	200L4		
180	1528	8,19	3,58	ZG112	SMR	200L4		
188	1463	7,81	3,59	ZG112	SMR	200L4		
216	1273	6,79	3,65	ZG112	SMR	200L4		
247	1114	5,95	3,66	ZG112	SMR	200L4		
281	979	5,23	3,68	ZG112	SMR	200L4		
333	826	4,42	3,71	ZG112	SMR	200L4		
393	700	3,74	3,71	ZG112	SMR	200L4		
54	5095	27,33	0,96	ZG102	SMB	200L4		
63	4367	23,22	1,12	ZG102	SMB	200L4	425	
68	4046	21,53	1,21	ZG102	SMB	200L4	308	
73	3769	20,03	1,30	ZG102	SMB	200L4		

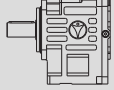




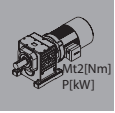
P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
30,00	84	3275	17,47	1,41	ZG102	SMR	200L4	
	96	2866	15,38	1,58	ZG102	SMR	200L4	
	108	2547	13,63	1,75	ZG102	SMR	200L4	
	121	2274	12,16	1,94	ZG102	SMR	200L4	
	135	2038	10,89	2,13	ZG102	SMR	200L4	
	150	1834	9,80	2,33	ZG102	SMR	200L4	
	158	1741	9,30	2,43	ZG102	SMR	200L4	
	184	1495	7,99	2,77	ZG102	SMR	200L4	
	213	1291	6,89	3,12	ZG102	SMR	200L4	
	247	1114	5,96	3,53	ZG102	SMR	200L4	
	74	3718	19,80	0,95	ZG102	SMB	200L4	
	83	3315	17,73	1,17	ZG102	SMB	200L4	
	92	2990	15,90	1,38	ZG102	SMB	200L4	
	102	2697	14,37	1,62	ZG102	SMB	200L4	
	112	2456	13,08	1,80	ZG102	SMB	200L4	425
	123	2237	11,97	2,00	ZG102	SMB	200L4	308
	145	1897	10,17	2,34	ZG102	SMB	200L4	
	156	1763	9,43	2,49	ZG102	SMB	200L4	
	168	1637	8,77	2,66	ZG102	SMB	200L4	
	192	1433	7,65	2,98	ZG102	SMR	200L4	
	218	1262	6,73	3,23	ZG102	SMR	200L4	
	246	1118	5,97	3,38	ZG102	SMR	200L4	
	276	996	5,32	3,38	ZG102	SMR	200L4	
	308	893	4,77	3,38	ZG102	SMR	200L4	
	343	802	4,29	3,39	ZG102	SMR	200L4	
	361	762	4,07	3,39	ZG102	SMR	200L4	
	420	655	3,50	3,39	ZG102	SMR	200L4	
	487	565	3,02	3,39	ZG102	SMR	200L4	
	563	488	2,61	3,39	ZG102	SMR	200L4	
	101	2724	14,55	0,98	ZG92	SMR	200L4	
	113	2435	12,97	1,07	ZG92	SMR	200L4	
	126	2183	11,62	1,15	ZG92	SMR	200L4	
	141	1951	10,45	1,24	ZG92	SMR	200L4	
	148	1859	9,92	1,27	ZG92	SMR	200L4	
	172	1599	8,53	1,41	ZG92	SMR	200L4	
	200	1375	7,36	1,56	ZG92	SMR	200L4	
	231	1191	6,36	1,70	ZG92	SMR	200L4	
	111	2478	13,24	1,06	ZG92	SMB	200L4	
	121	2274	12,12	1,22	ZG92	SMB	200L4	362
	143	1924	10,29	1,48	ZG92	SMB	200L4	302
	154	1786	9,54	1,60	ZG92	SMB	200L4	
	166	1657	8,88	1,70	ZG92	SMB	200L4	
	190	1448	7,74	1,91	ZG92	SMR	200L4	
	216	1273	6,82	2,12	ZG92	SMR	200L4	
	243	1132	6,04	2,31	ZG92	SMR	200L4	
	273	1007	5,39	2,53	ZG92	SMR	200L4	
	304	905	4,83	2,73	ZG92	SMR	200L4	
	338	814	4,34	2,95	ZG92	SMR	200L4	

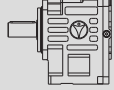




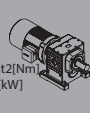
P	n ₂	Mt ₂	i	f _b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
30,00	356	773	4,12	3,04	ZG92	SMR 200L4	362	302		
	415	663	3,54	3,24	ZG92	SMR 200L4				
	481	572	3,06	3,27	ZG92	SMR 200L4				
	556	495	2,64	3,28	ZG92	SMR 200L4				
37,00	16	20785	93,82	0,96	ZG133	SMB 225S4	938	328		
	17	19563	87,27	1,01	ZG133	SMB 225S4				
	19	17503	76,13	1,11	ZG133	SMB 225S4				
	22	15116	67,01	1,27	ZG133	SMR 225S4				
	25	13303	59,41	1,42	ZG133	SMR 225S4				
	28	11877	52,98	1,56	ZG133	SMR 225S4				
	31	10728	47,47	1,71	ZG133	SMR 225S4				
	34	9781	42,69	1,84	ZG133	SMR 225S4				
	36	9238	40,54	1,94	ZG133	SMR 225S4				
	42	7918	34,83	2,21	ZG133	SMR 225S4				
	49	6787	30,05	2,53	ZG133	SMR 225S4				
	57	5834	25,98	2,88	ZG133	SMR 225S4				
	41	8277	35,98	2,11	ZG132	SMB 225S4			896	326
	48	7070	30,81	2,38	ZG132	SMB 225S4				
	51	6654	28,68	2,47	ZG132	SMB 225S4				
	55	6170	26,78	2,60	ZG132	SMB 225S4				
	62	5473	23,56	2,89	ZG132	SMR 225S4				
	70	4848	20,93	3,20	ZG132	SMR 225S4				
	78	4350	18,73	3,52	ZG132	SMR 225S4				
	87	3900	16,88	3,84	ZG132	SMR 225S4				
	96	3535	15,28	4,14	ZG132	SMR 225S4				
	25	13302	59,83	1,01	ZG123	SMR 225S4	745	322		
	28	11877	53,35	1,12	ZG123	SMR 225S4				
	31	10728	47,80	1,23	ZG123	SMR 225S4				
	34	9781	42,99	1,33	ZG123	SMR 225S4				
	36	9238	40,82	1,38	ZG123	SMR 225S4				
	42	7918	35,07	1,54	ZG123	SMR 225S4				
	49	6787	30,26	1,73	ZG123	SMR 225S4				
	56	5938	26,16	1,87	ZG123	SMR 225S4				
	41	8277	36,23	1,63	ZG123	SMB 225S4				
	47	7220	31,02	1,87	ZG123	SMB 225S4				
	51	6654	28,88	2,03	ZG122	SMB 225S4			700	320
55	6170	26,97	2,11	ZG122	SMB 225S4					
62	5473	23,73	2,26	ZG122	SMR 225S4					
70	4848	21,07	2,51	ZG122	SMR 225S4					
78	4350	18,86	2,76	ZG122	SMR 225S4					
87	3900	16,99	3,04	ZG122	SMR 225S4					
96	3535	15,39	3,31	ZG122	SMR 225S4					
105	3232	14,00	3,57	ZG122	SMR 225S4					
110	3085	13,37	3,71	ZG122	SMR 225S4					
126	2693	11,71	4,17	ZG122	SMR 225S4					
41	8277	35,57	0,99	ZG112	SMB 225S4	604	314			
48	7070	30,38	1,16	ZG112	SMB 225S4					
52	6526	28,24	1,26	ZG112	SMB 225S4					

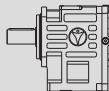
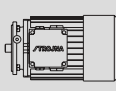



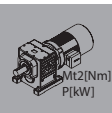
P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
37,00	56	6060	26,33	1,35	ZG112	SMB	225S4	
	64	5302	23,10	1,55	ZG112	SMB	225S4	
	72	4713	20,45	1,74	ZG112	SMR	225S4	
	81	4189	18,25	1,96	ZG112	SMR	225S4	
	90	3770	16,38	2,17	ZG112	SMR	225S4	
	99	3427	14,79	2,38	ZG112	SMR	225S4	
	110	3085	13,40	2,63	ZG112	SMR	225S4	
	115	2950	12,77	2,71	ZG112	SMR	225S4	
	132	2570	11,12	2,87	ZG112	SMR	225S4	
	151	2247	9,73	2,91	ZG112	SMR	225S4	
	172	1973	8,55	2,95	ZG112	SMR	225S4	
	203	1671	7,23	2,99	ZG112	SMR	225S4	
	240	1414	6,13	3,04	ZG112	SMR	225S4	
	57	5953	25,97	0,96	ZG112	SMB	225S4	
	62	5473	23,69	1,13	ZG112	SMB	225S4	
	68	4990	21,74	1,31	ZG112	SMB	225S4	604
	79	4295	18,56	1,57	ZG112	SMB	225S4	314
	85	3992	17,25	1,70	ZG112	SMB	225S4	
	91	3729	16,09	1,82	ZG112	SMB	225S4	
	104	3263	14,12	2,08	ZG112	SMB	225S4	
	118	2875	12,50	2,34	ZG112	SMR	225S4	
	132	2570	11,15	2,57	ZG112	SMR	225S4	
	147	2308	10,01	2,78	ZG112	SMR	225S4	
	163	2081	9,04	2,83	ZG112	SMR	225S4	
	180	1885	8,19	2,90	ZG112	SMR	225S4	
	188	1805	7,81	2,91	ZG112	SMR	225S4	
	216	1571	6,79	2,96	ZG112	SMR	225S4	
	247	1373	5,95	2,97	ZG112	SMR	225S4	
	281	1207	5,23	2,98	ZG112	SMR	225S4	
	333	1019	4,42	3,01	ZG112	SMR	225S4	
	393	863	3,74	3,01	ZG112	SMR	225S4	
	68	4990	21,53	0,98	ZG102	SMB	225S4	
	73	4648	20,03	1,05	ZG102	SMB	225S4	
	84	4040	17,47	1,14	ZG102	SMB	225S4	
	96	3535	15,38	1,28	ZG102	SMR	225S4	
	108	3142	13,63	1,42	ZG102	SMR	225S4	
	121	2804	12,16	1,57	ZG102	SMR	225S4	
	135	2513	10,89	1,73	ZG102	SMR	225S4	
	150	2262	9,80	1,89	ZG102	SMR	225S4	
	158	2147	9,30	1,97	ZG102	SMR	225S4	490
	184	1844	7,99	2,24	ZG102	SMR	225S4	308
	213	1593	6,89	2,53	ZG102	SMR	225S4	
	247	1373	5,96	2,87	ZG102	SMR	225S4	
	102	3327	14,37	1,31	ZG102	SMB	225S4	
	112	3029	13,08	1,46	ZG102	SMB	225S4	
	123	2759	11,97	1,62	ZG102	SMB	225S4	
	145	2340	10,17	1,89	ZG102	SMB	225S4	
	156	2175	9,43	2,02	ZG102	SMB	225S4	

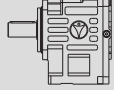




P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
37,00	168	2020	8,77	2,15	ZG102	SMB 225S4	490	308
	192	1767	7,65	2,41	ZG102	SMB 225S4		
	218	1556	6,73	2,62	ZG102	SMR 225S4		
	246	1379	5,97	2,74	ZG102	SMR 225S4		
	276	1229	5,32	2,74	ZG102	SMR 225S4		
	308	1101	4,77	2,74	ZG102	SMR 225S4		
	343	989	4,29	2,75	ZG102	SMR 225S4		
	361	940	4,07	2,75	ZG102	SMR 225S4		
	420	808	3,50	2,75	ZG102	SMR 225S4		
	487	696	3,02	2,75	ZG102	SMR 225S4		
	563	602	2,61	2,75	ZG102	SMR 225S4		
45,00	22	18385	67,01	1,04	ZG133	SMR 225M4	970	328
	25	16179	59,41	1,17	ZG133	SMR 225M4		
	28	14445	52,98	1,28	ZG133	SMR 225M4		
	31	13047	47,47	1,40	ZG133	SMR 225M4		
	34	11896	42,69	1,51	ZG133	SMR 225M4		
	36	11235	40,54	1,59	ZG133	SMR 225M4		
	42	9630	34,83	1,82	ZG133	SMR 225M4		
	49	8254	30,05	2,08	ZG133	SMR 225M4		
	57	7096	25,98	2,37	ZG133	SMR 225M4		
	41	10066	35,98	1,73	ZG133	SMB 225M4		
	48	8598	30,81	1,96	ZG133	SMB 225M4		
	51	8092	28,68	2,03	ZG133	SMB 225M4		
	55	7504	26,78	2,14	ZG133	SMB 225M4		
	62	6657	23,56	2,37	ZG133	SMR 225M4		
	70	5896	20,93	2,63	ZG132	SMR 225M4		
	78	5291	18,73	2,89	ZG132	SMR 225M4		
	87	4744	16,88	3,16	ZG132	SMR 225M4		
	96	4299	15,28	3,41	ZG132	SMR 225M4		
	106	3893	13,90	3,70	ZG132	SMR 225M4		
	111	3718	13,28	3,86	ZG132	SMR 225M4		
	126	3275	11,63	4,32	ZG132	SMR 225M4		
	31	13047	47,80	1,01	ZG123	SMR 225M4	777	322
	34	11896	42,99	1,09	ZG123	SMR 225M4		
	36	11235	40,82	1,13	ZG123	SMR 225M4		
	42	9630	35,07	1,27	ZG123	SMR 225M4		
	49	8254	30,26	1,42	ZG123	SMR 225M4		
56	7222	26,16	1,54	ZG123	SMR 225M4			
41	10066	36,23	1,34	ZG122	SMB 225M4	732	320	
47	8781	31,02	1,54	ZG122	SMB 225M4			
51	8092	28,88	1,67	ZG122	SMB 225M4			
55	7504	26,97	1,73	ZG122	SMB 225M4			
62	6657	23,73	1,86	ZG122	SMR 225M4			
70	5896	21,07	2,07	ZG122	SMR 225M4			
78	5291	18,86	2,27	ZG122	SMR 225M4			
87	4744	16,99	2,50	ZG122	SMR 225M4			
96	4299	15,39	2,72	ZG122	SMR 225M4			
105	3930	14,00	2,93	ZG122	SMR 225M4			

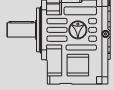




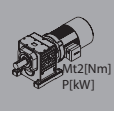
P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
45,00	110	3752	13,37	3,05	ZG122	SMR 225M4	732	314
	126	3275	11,71	3,43	ZG122	SMR 225M4		
	142	2906	10,32	3,79	ZG122	SMR 225M4		
	161	2563	9,14	3,80	ZG122	SMR 225M4		
	188	2195	7,81	3,79	ZG112	SMR 225M4		
	219	1884	6,70	3,79	ZG112	SMR 225M4		
	255	1618	5,77	3,80	ZG112	SMR 225M4		
	48	8598	30,38	0,95	ZG112	SMB 225M4		
	52	7937	28,24	1,03	ZG112	SMB 225M4		
	56	7370	26,33	1,11	ZG112	SMB 225M4		
	64	6448	23,10	1,27	ZG112	SMB 225M4		
	72	5732	20,45	1,43	ZG112	SMR 225M4		
	81	5095	18,25	1,61	ZG112	SMR 225M4		
	90	4586	16,38	1,79	ZG112	SMR 225M4		
	99	4169	14,79	1,96	ZG112	SMR 225M4		
	110	3752	13,40	2,16	ZG112	SMR 225M4		
	115	3589	12,77	2,23	ZG112	SMR 225M4		
	132	3126	11,12	2,36	ZG112	SMR 225M4		
	151	2733	9,73	2,39	ZG112	SMR 225M4		
	172	2399	8,55	2,42	ZG112	SMR 225M4		
	203	2033	7,23	2,46	ZG112	SMR 225M4		
	240	1719	6,13	2,50	ZG112	SMR 225M4		
	68	6069	21,74	1,07	ZG112	SMB 225M4		
	79	5224	18,56	1,29	ZG112	SMB 225M4		
	85	4855	17,25	1,40	ZG112	SMB 225M4		
	91	4535	16,09	1,50	ZG112	SMB 225M4		
	104	3968	14,12	1,71	ZG112	SMB 225M4		
	118	3497	12,50	1,92	ZG112	SMR 225M4		
	132	3126	11,15	2,11	ZG112	SMR 225M4		
	147	2807	10,01	2,29	ZG112	SMR 225M4		
	163	2532	9,04	2,33	ZG112	SMR 225M4		
	180	2292	8,19	2,39	ZG112	SMR 225M4		
	188	2195	7,81	2,39	ZG112	SMR 225M4		
	216	1910	6,79	2,43	ZG112	SMR 225M4		
247	1670	5,95	2,44	ZG112	SMR 225M4			
281	1468	5,23	2,45	ZG112	SMR 225M4			
333	1239	4,42	2,47	ZG112	SMR 225M4			
393	1050	3,74	2,48	ZG112	SMR 225M4			
55,00	25	19774	59,41	0,95	ZG133	SMB 250M4	1053	328
	28	17655	52,98	1,05	ZG133	SMR 250M4		
	31	15947	47,47	1,15	ZG133	SMR 250M4		
	35	14124	42,69	1,28	ZG133	SMR 250M4		
	37	13361	40,54	1,34	ZG133	SMR 250M4		
	42	11770	34,83	1,49	ZG133	SMR 250M4		
	49	10089	30,05	1,70	ZG133	SMR 250M4		
	57	8673	25,98	1,94	ZG133	SMR 250M4		
	41	12303	35,98	1,42	ZG132	SMB 250M4	1011	326
	48	10509	30,81	1,60	ZG132	SMB 250M4		

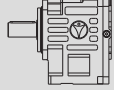




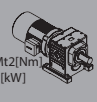
P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
55,00	52	9700	28,68	1,69	ZG132	SMB	250M4		
	55	9171	26,78	1,75	ZG132	SMB	250M4		
	63	8007	23,56	1,97	ZG132	SMB	250M4		
	71	7104	20,93	2,18	ZG132	SMR	250M4		
	79	6385	18,73	2,40	ZG132	SMR	250M4		
	88	5732	16,88	2,62	ZG132	SMR	250M4	1011	326
	97	5200	15,28	2,82	ZG132	SMR	250M4		
	106	4759	13,90	3,03	ZG132	SMR	250M4		
	111	4544	13,28	3,16	ZG132	SMR	250M4		
	127	3972	11,63	3,56	ZG132	SMR	250M4		
	144	3503	10,25	3,91	ZG132	SMR	250M4		
	163	3094	9,07	4,35	ZG132	SMR	250M4		
	42	11770	35,07	1,04	ZG123	SMR	250M4		
	49	10089	30,26	1,17	ZG123	SMR	250M4	860	322
	57	8673	26,16	1,28	ZG123	SMR	250M4		
	41	12303	36,23	1,10	ZG122	SMB	250M4		
48	10509	31,02	1,28	ZG122	SMB	250M4			
51	9891	28,88	1,36	ZG122	SMB	250M4			
55	9171	26,97	1,42	ZG122	SMB	250M4			
62	8136	23,73	1,52	ZG122	SMB	250M4			
70	7206	21,07	1,69	ZG122	SMR	250M4			
78	6467	18,86	1,86	ZG122	SMR	250M4			
87	5798	16,99	2,04	ZG122	SMR	250M4			
96	5254	15,39	2,23	ZG122	SMR	250M4	815	320	
106	4759	14,00	2,42	ZG122	SMR	250M4			
111	4544	13,37	2,52	ZG122	SMR	250M4			
126	4003	11,71	2,80	ZG122	SMR	250M4			
143	3527	10,32	3,12	ZG122	SMR	250M4			
162	3114	9,14	3,13	ZG122	SMR	250M4			
190	2655	7,81	3,14	ZG122	SMR	250M4			
221	2282	6,70	3,13	ZG122	SMR	250M4			
257	1962	5,77	3,13	ZG122	SMR	250M4			
64	7882	23,10	1,04	ZG112	SMB	250M4			
72	7006	20,45	1,17	ZG112	SMB	250M4			
81	6227	18,25	1,32	ZG112	SMB	250M4			
90	5605	16,38	1,46	ZG112	SMR	250M4			
100	5044	14,79	1,62	ZG112	SMR	250M4			
110	4586	13,40	1,77	ZG112	SMR	250M4			
116	4348	12,77	1,84	ZG112	SMR	250M4			
133	3792	11,12	1,94	ZG112	SMR	250M4	719	314	
152	3318	9,73	1,97	ZG112	SMR	250M4			
173	2916	8,55	1,99	ZG112	SMR	250M4			
205	2460	7,23	2,03	ZG112	SMR	250M4			
242	2084	6,13	2,06	ZG112	SMR	250M4			
80	6305	18,56	1,07	ZG112	SMB	250M4			
86	5865	17,25	1,16	ZG112	SMB	250M4			
92	5483	16,09	1,24	ZG112	SMB	250M4			
105	4804	14,12	1,41	ZG112	SMB	250M4			

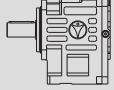




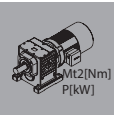
P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
55,00	118	4275	12,50	1,57	ZG112	SMB 250M4		
	133	3792	11,15	1,74	ZG112	SMB 250M4		
	148	3408	10,01	1,89	ZG112	SMR 250M4		
	164	3076	9,04	1,91	ZG112	SMR 250M4		
	181	2787	8,19	1,96	ZG112	SMR 250M4		
	190	2655	7,81	1,98	ZG112	SMR 250M4	719	314
	218	2314	6,79	2,01	ZG112	SMR 250M4		
	249	2026	5,95	2,01	ZG112	SMR 250M4		
	283	1782	5,23	2,02	ZG112	SMR 250M4		
	335	1505	4,42	2,03	ZG112	SMR 250M4		
	395	1277	3,74	2,04	ZG112	SMR 250M4		
	109	4627	13,63	0,97	ZG102	SMB 250M4		
	122	4134	12,16	1,07	ZG102	SMR 250M4		
	136	3709	10,89	1,17	ZG102	SMR 250M4		
	151	3340	9,80	1,28	ZG102	SMR 250M4		
	159	3172	9,30	1,33	ZG102	SMR 250M4		
	185	2726	7,99	1,52	ZG102	SMR 250M4		
	215	2346	6,89	1,72	ZG102	SMR 250M4		
	248	2034	5,96	1,94	ZG102	SMR 250M4		
	146	3455	10,17	1,28	ZG102	SMB 250M4		
157	3213	9,43	1,37	ZG102	SMB 250M4			
169	2985	8,77	1,46	ZG102	SMB 250M4	605	308	
193	2613	7,65	1,63	ZG102	SMB 250M4			
220	2293	6,73	1,78	ZG102	SMB 250M4			
248	2034	5,97	1,86	ZG102	SMB 250M4			
278	1814	5,32	1,86	ZG102	SMR 250M4			
310	1627	4,77	1,86	ZG102	SMR 250M4			
345	1462	4,29	1,86	ZG102	SMR 250M4			
363	1389	4,07	1,86	ZG102	SMR 250M4			
423	1192	3,50	1,86	ZG102	SMR 250M4			
490	1030	3,02	1,86	ZG102	SMR 250M4			
567	889	2,61	1,86	ZG102	SMR 250M4			
75,00	37	18219	40,54	0,98	ZG133	SMR 280S4		
	42	16050	34,83	1,09	ZG133	SMR 280S4	1188	328
	49	13757	30,05	1,25	ZG133	SMR 280S4		
	57	11826	25,98	1,42	ZG133	SMR 280S4		
	71	9688	20,93	1,60	ZG132	SMR 280S4		
	79	8707	18,73	1,76	ZG132	SMR 280S4		
	88	7816	16,88	1,92	ZG132	SMR 280S4		
	97	7091	15,28	2,07	ZG132	SMR 280S4		
	106	6489	13,90	2,22	ZG132	SMR 280S4		
	111	6197	13,28	2,32	ZG132	SMR 280S4	1146	326
	127	5416	11,63	2,61	ZG132	SMR 280S4		
	144	4777	10,25	2,87	ZG132	SMR 280S4		
	163	4220	9,07	3,19	ZG132	SMR 280S4		
	191	3601	7,76	3,67	ZG132	SMR 280S4		
	222	3098	6,66	4,24	ZG132	SMR 280S4		
	70	9826	21,07	1,24	ZG122	SMR 280S4	950	320



P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
75,00	78	8819	18,86	1,36	ZG122	SMR 280S4		
	87	7906	16,99	1,50	ZG122	SMR 280S4		
	96	7165	15,39	1,63	ZG122	SMR 280S4		
	106	6489	14,00	1,78	ZG122	SMR 280S4		
	111	6197	13,37	1,85	ZG122	SMR 280S4		
	126	5459	11,71	2,06	ZG122	SMR 280S4	950	320
	143	4810	10,32	2,29	ZG122	SMR 280S4		
	162	4246	9,14	2,29	ZG122	SMR 280S4		
	190	3620	7,81	2,30	ZG122	SMR 280S4		
	221	3112	6,70	2,30	ZG122	SMR 280S4		
	257	2676	5,77	2,30	ZG122	SMR 280S4		
90,00	49	16509	30,05	1,04	ZG133	SMR 280M4	1246	328
	57	14192	25,98	1,18	ZG133	SMR 280M4		
	71	11626	20,93	1,33	ZG132	SMR 280M4		
	79	10449	18,73	1,47	ZG132	SMR 280M4		
	88	9380	16,88	1,60	ZG132	SMR 280M4		
	97	8510	15,28	1,72	ZG132	SMR 280M4		
	106	7787	13,90	1,85	ZG132	SMR 280M4		
	111	7436	13,28	1,93	ZG132	SMR 280M4	1204	326
	127	6500	11,63	2,18	ZG132	SMR 280M4		
	144	5732	10,25	2,39	ZG132	SMR 280M4		
	163	5064	9,07	2,66	ZG132	SMR 280M4		
	191	4321	7,76	3,06	ZG132	SMR 280M4		
	222	3718	6,66	3,53	ZG132	SMR 280M4		
	258	3199	5,73	4,01	ZG132	SMR 280M4		
	110,00	70	11792	21,07	1,03	ZG122	SMR 280M4	
78		10582	18,86	1,13	ZG122	SMR 280M4		
87		9488	16,99	1,25	ZG122	SMR 280M4		
96		8598	15,39	1,36	ZG122	SMR 280M4		
106		7787	14,00	1,48	ZG122	SMR 280M4		
111		7436	13,37	1,54	ZG122	SMR 280M4		
126		6551	11,71	1,71	ZG122	SMR 280M4	1008	320
143		5772	10,32	1,91	ZG122	SMR 280M4		
162		5095	9,14	1,91	ZG122	SMR 280M4		
190		4344	7,81	1,92	ZG122	SMR 280M4		
221		3735	6,70	1,91	ZG122	SMR 280M4		
257		3211	5,77	1,92	ZG122	SMR 280M4		
110,00		79	12770	18,73	1,20	ZG132	SMR 315S4	
	88	11464	16,88	1,31	ZG132	SMR 315S4		
	97	10401	15,28	1,41	ZG132	SMR 315S4		
	107	9429	13,90	1,53	ZG132	SMR 315S4		
	112	9008	13,28	1,59	ZG132	SMR 315S4		
	127	7944	11,63	1,78	ZG132	SMR 315S4	1351	326
	145	6957	10,25	1,97	ZG132	SMR 315S4		
	163	6189	9,07	2,17	ZG132	SMR 315S4		
	191	5282	7,76	2,51	ZG132	SMR 315S4		
	223	4524	6,66	2,90	ZG132	SMR 315S4		
	259	3895	5,73	3,29	ZG132	SMR 315S4		



P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
110,00	87	11596	16,99	1,02	ZG122	SMR 315S4	1155	320
	96	10509	15,39	1,11	ZG122	SMR 315S4		
	106	9517	14,00	1,21	ZG122	SMR 315S4		
	111	9089	13,37	1,26	ZG122	SMR 315S4		
	127	7944	11,71	1,41	ZG122	SMR 315S4		
	144	7006	10,32	1,57	ZG122	SMR 315S4		
	162	6227	9,14	1,56	ZG122	SMR 315S4		
	190	5310	7,81	1,57	ZG122	SMR 315S4		
	221	4565	6,70	1,57	ZG122	SMR 315S4		
	257	3925	5,77	1,57	ZG122	SMR 315S4		
132,00	79	15325	18,73	1,00	ZG132	SMR 315M4	1451	326
	88	13757	16,88	1,09	ZG132	SMR 315M4		
	97	12481	15,28	1,17	ZG132	SMR 315M4		
	106	11421	13,90	1,26	ZG132	SMR 315M4		
	111	10907	13,28	1,32	ZG132	SMR 315M4		
	127	9532	11,63	1,49	ZG132	SMR 315M4		
	144	8407	10,25	1,63	ZG132	SMR 315M4		
	163	7427	9,07	1,81	ZG132	SMR 315M4		
	190	6372	7,76	2,08	ZG132	SMR 315M4		
	222	5453	6,66	2,41	ZG132	SMR 315M4		
	258	4692	5,73	2,73	ZG132	SMR 315M4		
	106	11421	14,00	1,01	ZG122	SMR 315M4		
	110	11006	13,37	1,04	ZG122	SMR 315M4		
	126	9608	11,71	1,17	ZG122	SMR 315M4		
	143	8466	10,32	1,30	ZG122	SMR 315M4		
	162	7473	9,14	1,30	ZG122	SMR 315M4		
	189	6405	7,81	1,30	ZG122	SMR 315M4		
	220	5503	6,70	1,30	ZG122	SMR 315M4		
256	4729	5,77	1,30	ZG122	SMR 315M4			
160,00	97	15128	15,28	0,97	ZG132	SMR 315Mk4	1688	326
	107	13714	13,90	1,05	ZG132	SMR 315Mk4		
	112	13102	13,28	1,10	ZG132	SMR 315Mk4		
	128	11464	11,63	1,24	ZG132	SMR 315Mk4		
	145	10120	10,25	1,35	ZG132	SMR 315Mk4		
	164	8948	9,07	1,50	ZG132	SMR 315Mk4		
	192	7643	7,76	1,73	ZG132	SMR 315Mk4		
	223	6580	6,66	1,99	ZG132	SMR 315Mk4		
	259	5666	5,73	2,26	ZG132	SMR 315Mk4		
	127	11555	11,71	0,97	ZG122	SMR 315Mk4		
	144	10190	10,32	1,08	ZG122	SMR 315Mk4		
	163	9003	9,14	1,08	ZG122	SMR 315Mk4		
	190	7723	7,81	1,08	ZG122	SMR 315Mk4		
	222	6610	6,70	1,08	ZG122	SMR 315Mk4		
	258	5687	5,77	1,08	ZG122	SMR 315Mk4		

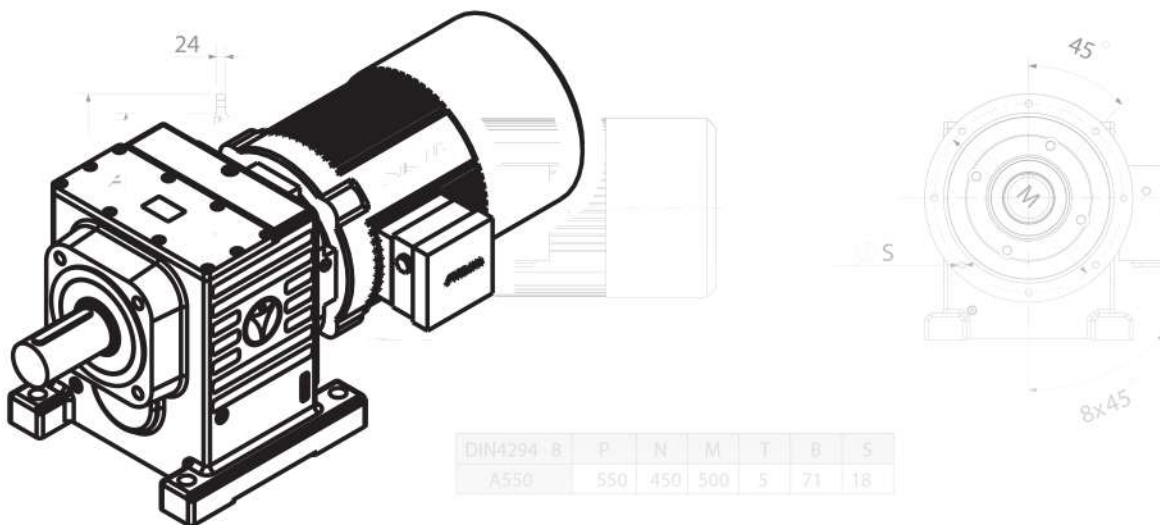
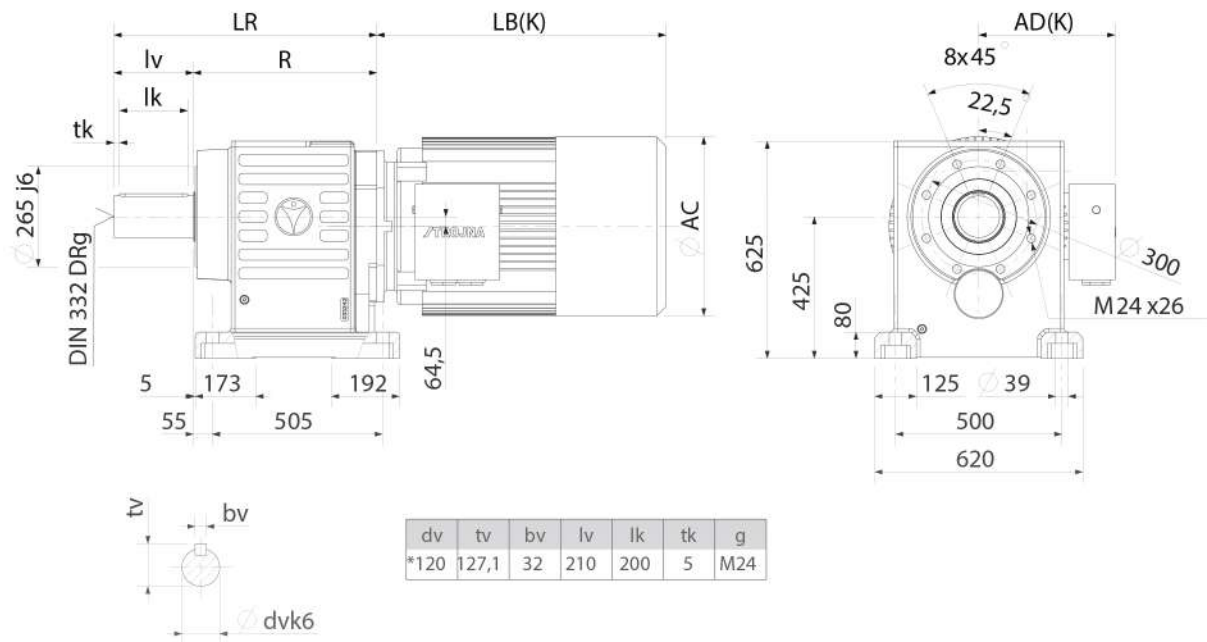




ZG

HELICAL GEAR UNITS

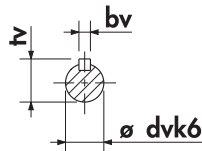
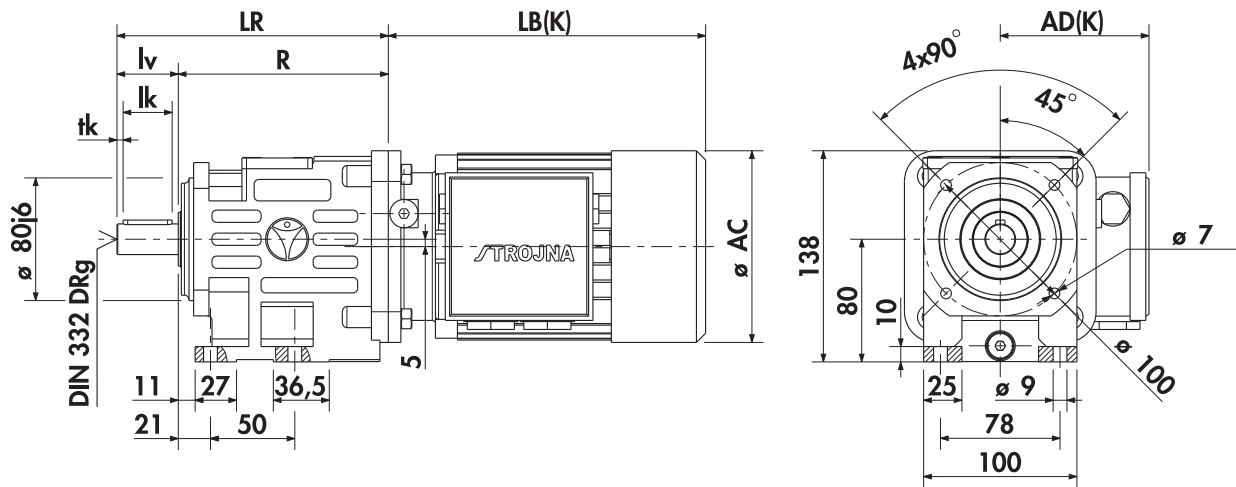
Dimension sheets - Geared motors



Drawings are for reference dimensions only and subject to change.

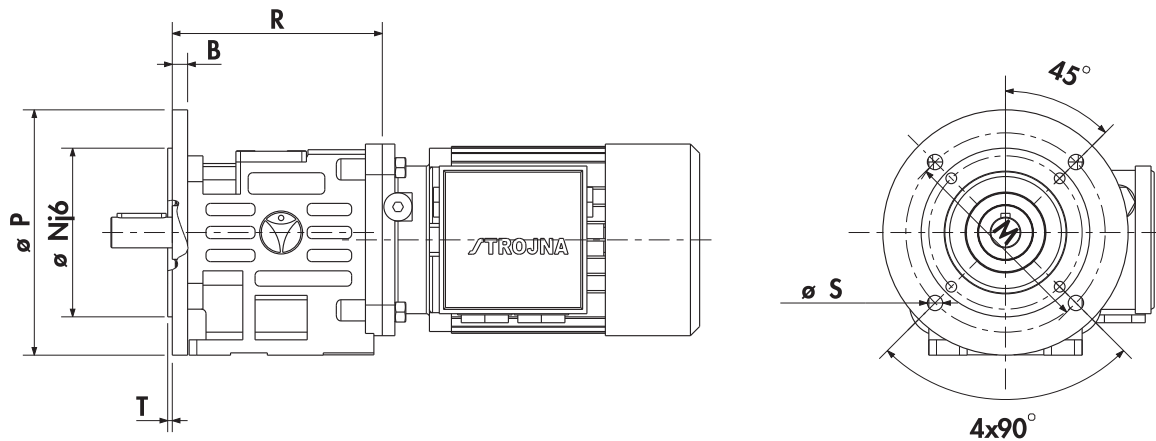
We reserve the right to change technical data or dimensions due to modifications.

ZG12V...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*20	22.5	6	40	30	5	M6
25	28	8	50	40	5	M10

ZG12P/V...SMB/SMR



DIN42948	P	N	M	T	B	S
A160	160	110	130	3,5	10	10

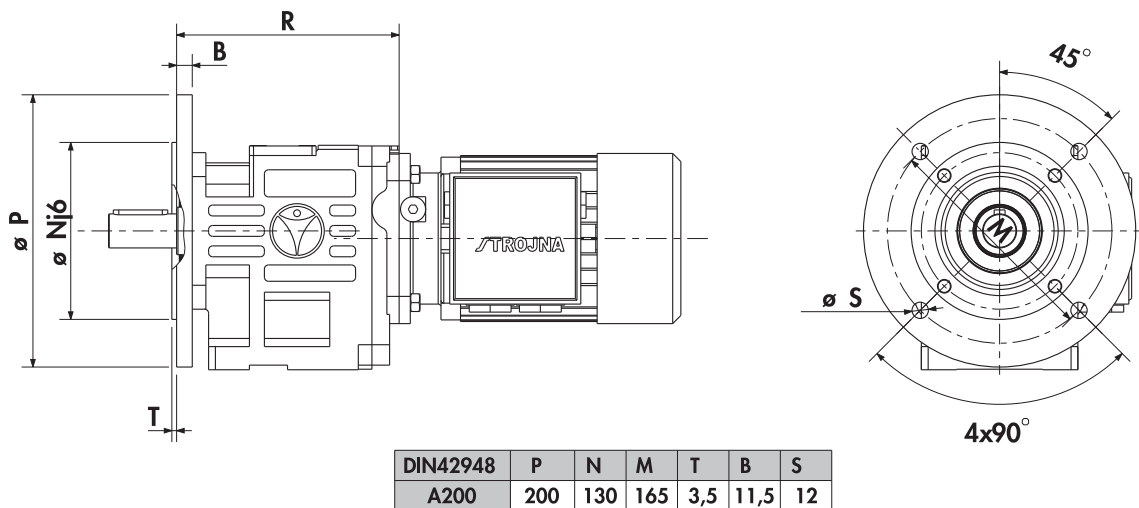
SMB/SMR	63	71	80	90S	90L
LB	207	223	251	276	301
AD	97	105	110	121	121
LBK	260	280	311	360	385
ADK	125	137	147	164	164
AC	125	140	154	170	170
R	137	137	137	137	137
LR	177	177	177	177	177

* Standard

ZG22V...SMB/SMR



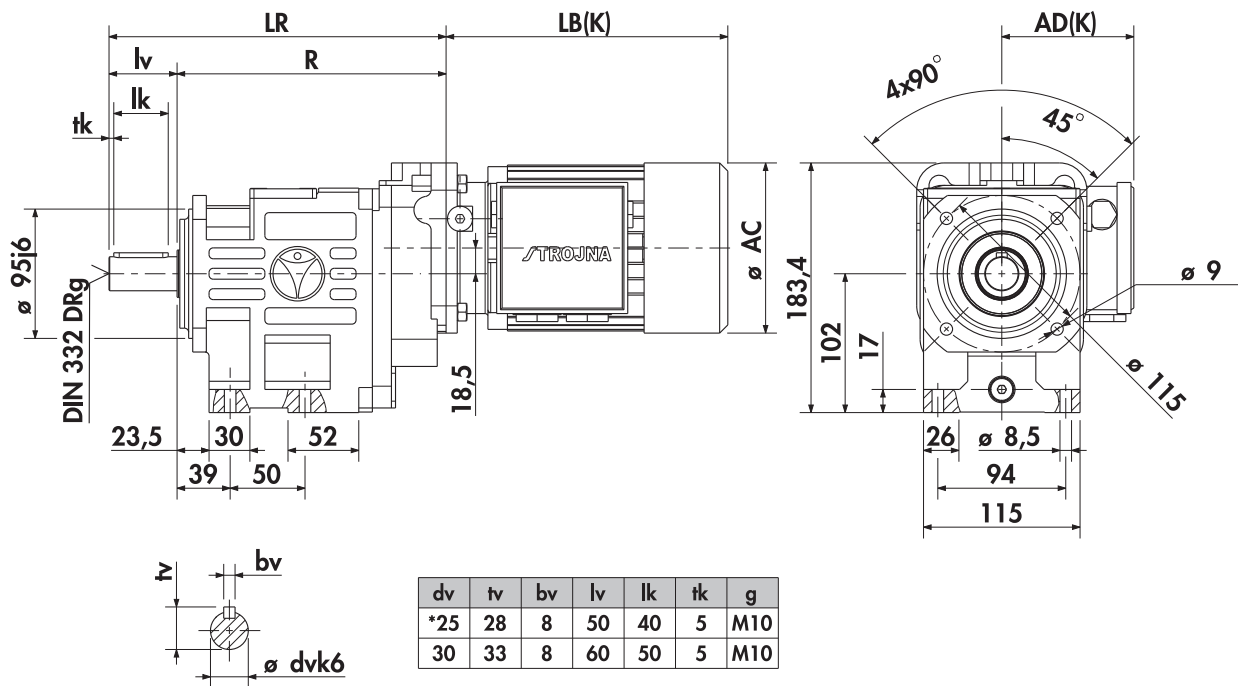
ZG22P/V...SMB/SMR



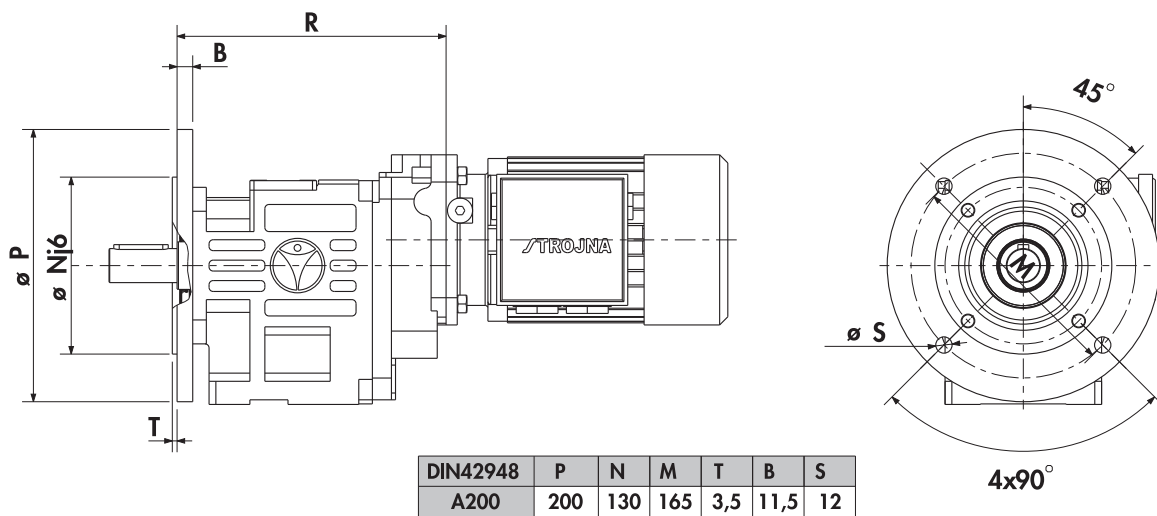
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Ma	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301	329	334											
AD	97	105	110	121	121	157	169											
LBK	260	280	311	360	385	418	434											
ADK	125	137	147	164	164	174	199											
AC	125	140	154	170	170	193	216											
R	163	163	163	163	163	167	167											
LR	213	213	213	213	213	217	217											

* Standard

ZG23V...SMB/SMR



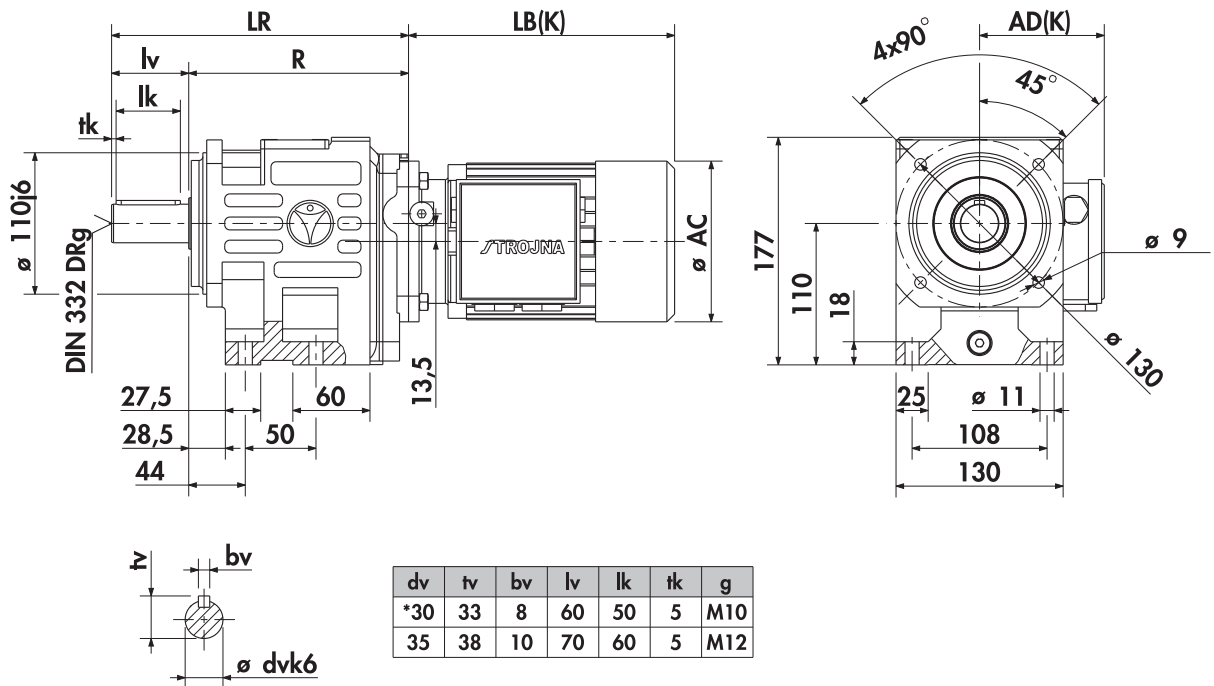
ZG23P/V...SMB/SMR



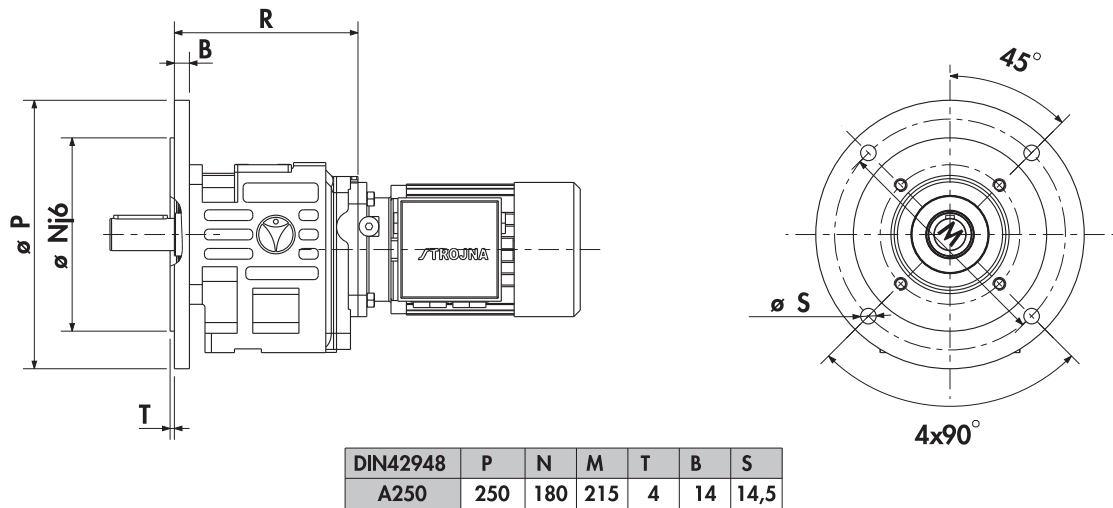
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132M α	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301													
AD	97	105	110	121	121													
LBK	260	280	311	360	385													
ADK	125	137	147	164	164													
AC	125	140	154	170	170													
R	198	198	198	198	198													
LR	248	248	248	248	248													

* Standard

ZG32V...SMB/SMR



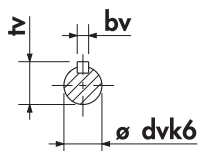
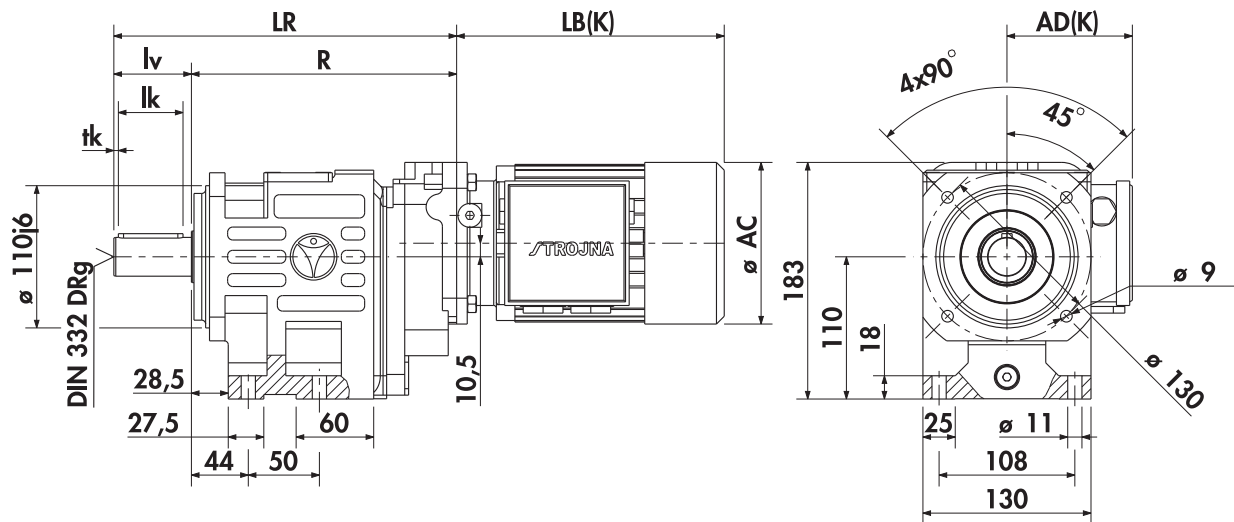
ZG32P/V...SMB/SMR



SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Mα	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301	329	334											
AD	97	105	110	121	121	157	169											
LBK	260	280	311	360	385	418	434											
ADK	125	137	147	164	164	174	199											
AC	125	140	154	170	170	193	216											
R	170	170	170	170	170	174	174											
LR	231	231	231	231	231	235	235											

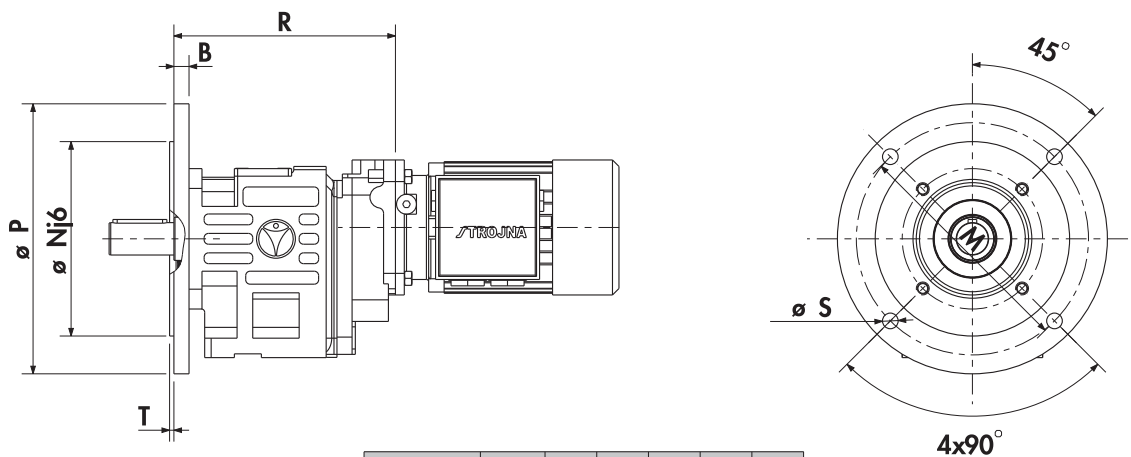
* Standard

ZG33V...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*30	33	8	60	50	5	M10
35	38	10	70	60	5	M12

ZG33P/V...SMB/SMR

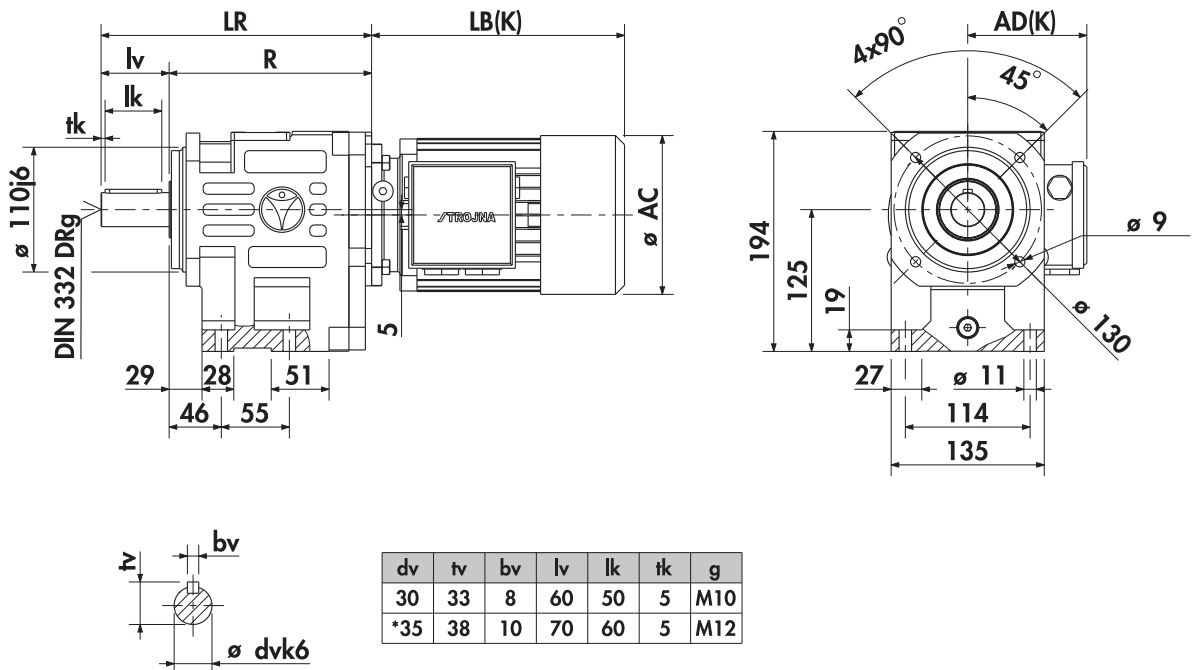


DIN4294 8	P	N	M	T	B	S
A250	250	180	215	4	11	14,5

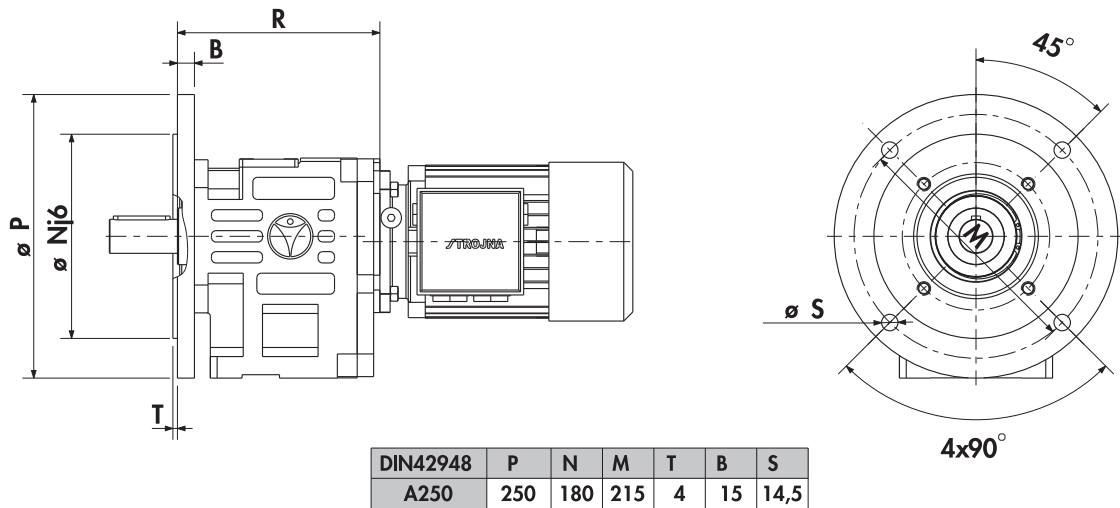
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132M α	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301													
AD	97	105	110	121	121													
LBK	260	280	311	360	385													
ADK	125	137	147	164	164													
AC	125	140	154	170	170													
R	206	206	206	206	206													
LR	265	265	265	265	265													

* Standard

ZG42V...SMB/SMR



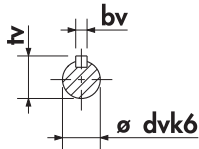
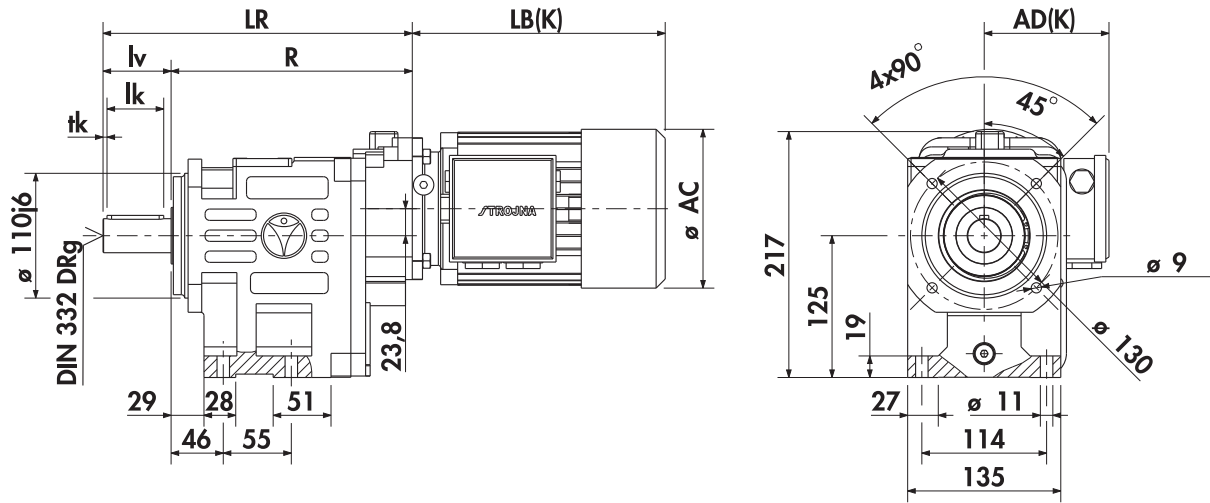
ZG42P/V...SMB/SMR



SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Mα	160M	160L	180M	180L	200L	225S	225M	250M	
LB	207	223	251	276	301	329	334	337	415	415									
AD	97	105	110	121	121	157	169	190	190	190									
LBK	260	280	311	360	385	418	434	492	532	532									
ADK	125	137	147	164	164	174	199	183	183	183									
AC	125	140	154	170	170	193	216	247	247	247									
R	179	179	179	179	179	183	183	196	196	196									
LR	248	248	248	248	248	253	253	266	266	266									

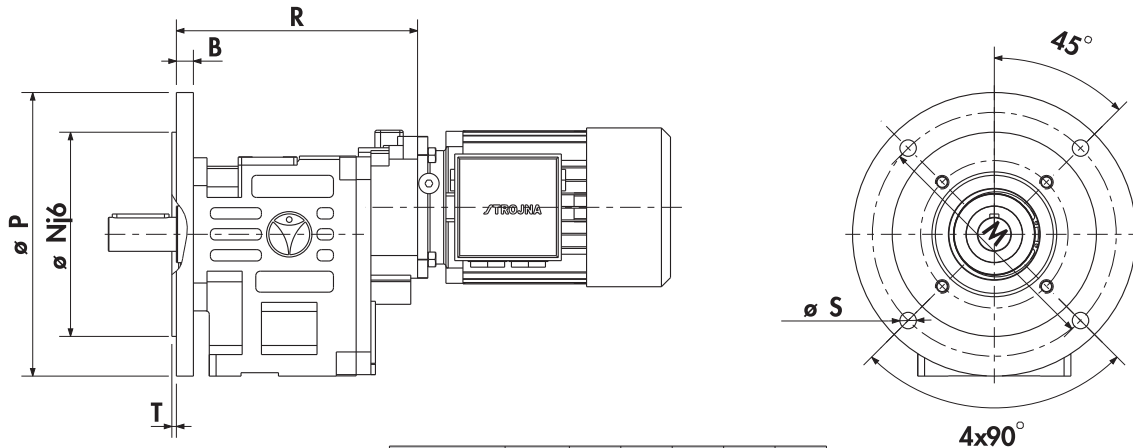
* Standard

ZG43V...SMB/SMR



dv	tv	bv	lv	lk	tk	g
30	33	8	60	50	5	M10
*35	38	10	70	60	5	M12

ZG43P/V...SMB/SMR

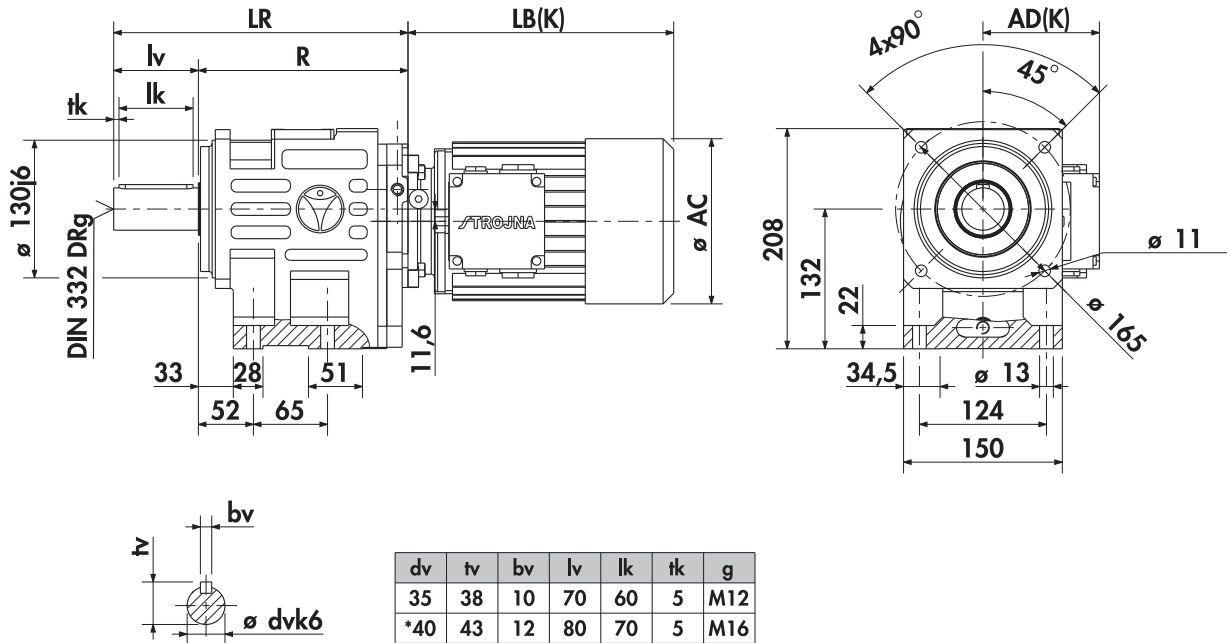


DIN42948	P	N	M	T	B	S
A250	250	180	215	4	15	14,5

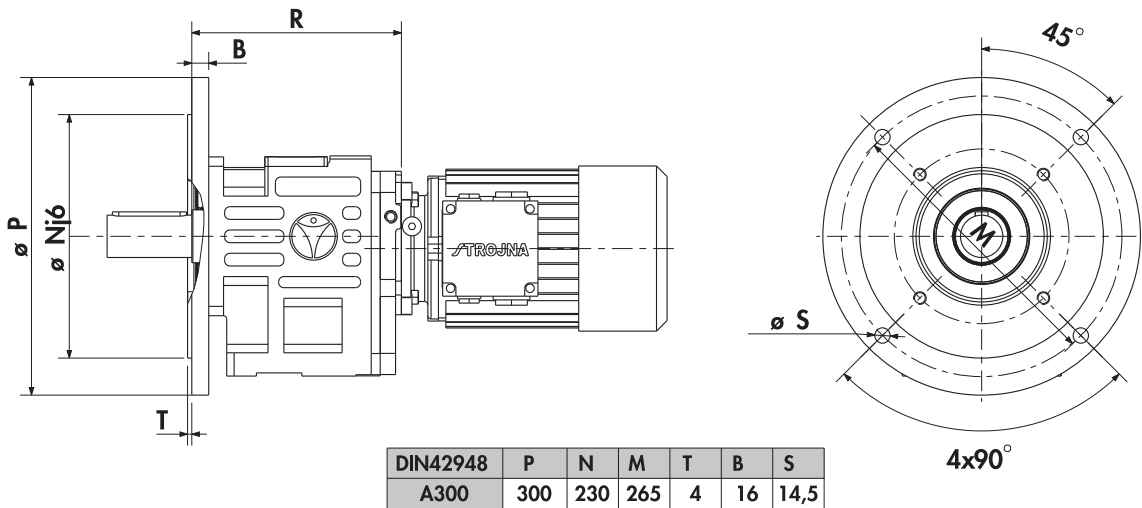
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132M α	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301													
AD	97	105	110	121	121													
LBK	260	280	311	360	385													
ADK	125	137	147	164	164													
AC	125	140	154	170	170													
R	213	213	213	213	213													
LR	283	283	283	283	283													

* Standard

ZG52V...SMB/SMR



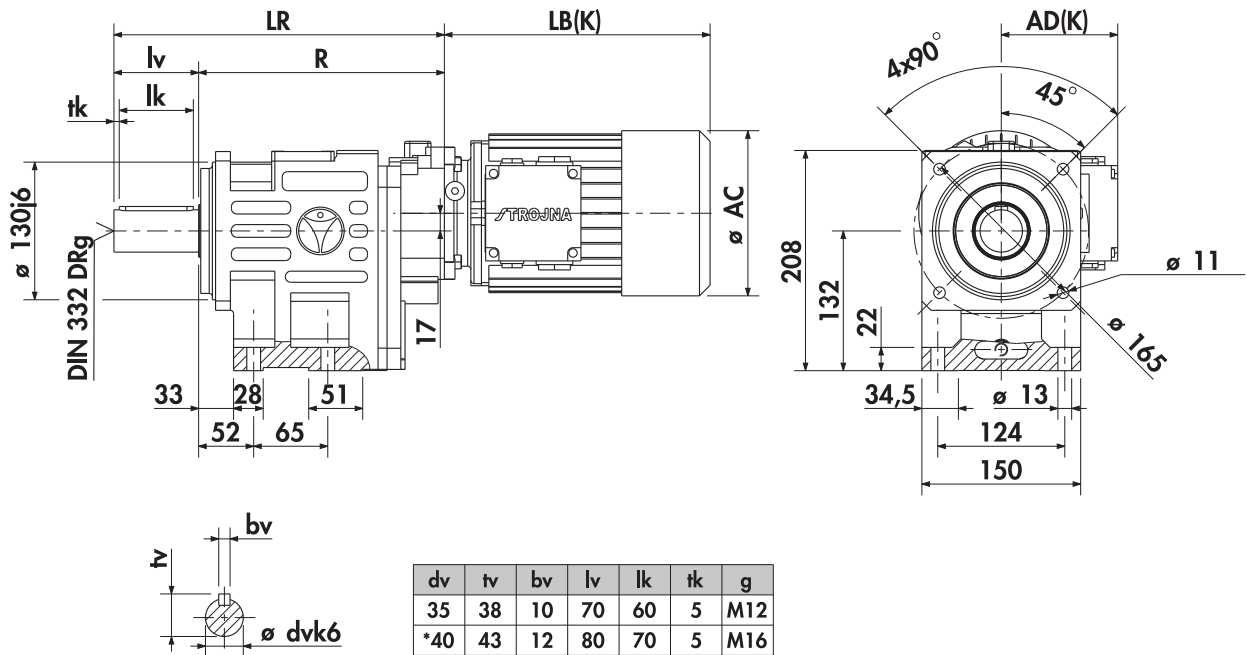
ZG52P/V...SMB/SMR



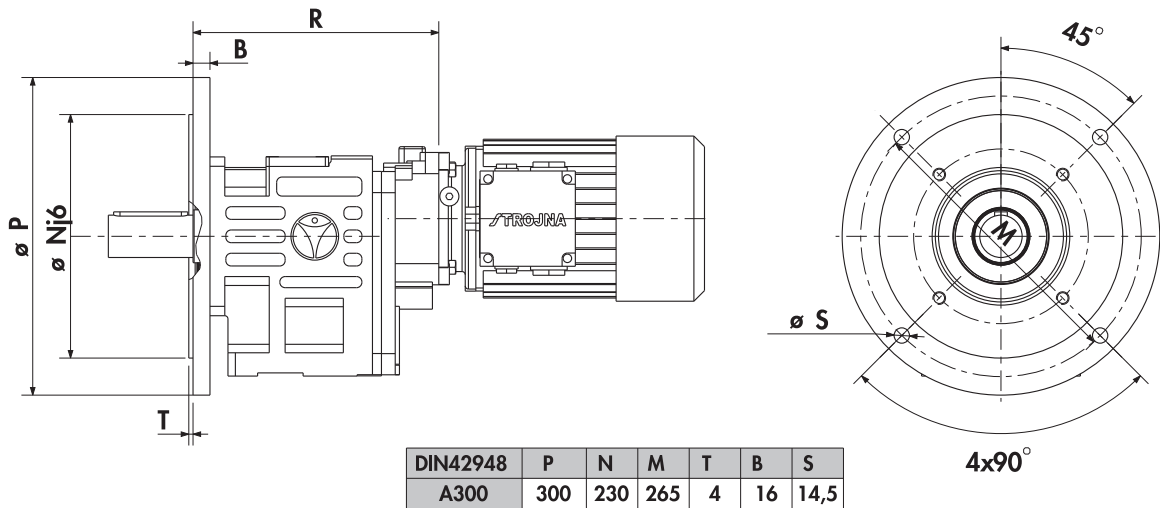
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Mα	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301	329	334	377	415	415								
AD	97	105	110	121	121	157	169	190	190	190								
LBK	260	280	311	360	385	418	434	492	532	532								
ADK	125	137	147	164	164	174	199	183	183	183								
AC	125	140	154	170	170	193	216	247	247	247								
R	197	197	197	197	197	201	201	214	214	214								
LR	278	278	278	278	278	282	282	295	295	295								

* Standard

ZG53V...SMB/SMR



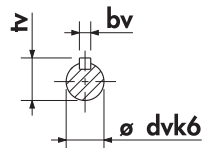
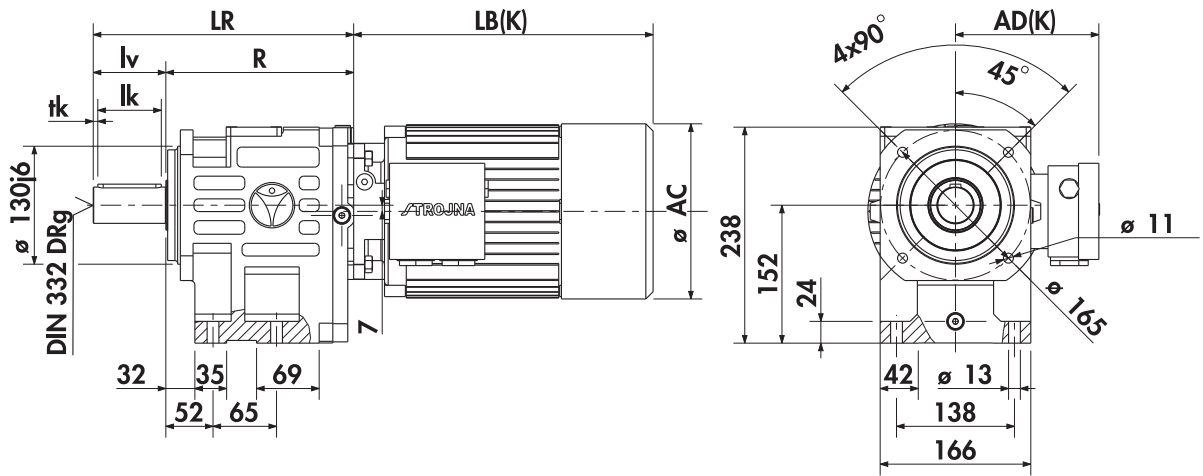
ZG53P/V...SMB/SMR



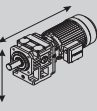
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132M α	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301													
AD	97	105	110	121	121													
LBK	260	280	311	360	385													
ADK	125	137	147	164	164													
AC	125	140	154	170	170													
R	233	233	233	233	233													
LR	312	312	312	312	312													

* Standard

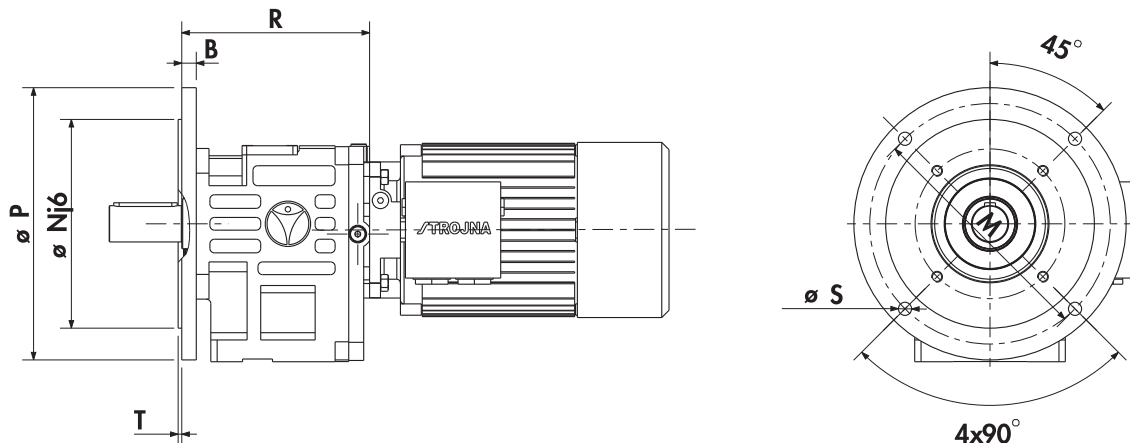
ZG62V...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*40	43	12	80	70	5	M16
45	48,5	14	90	80	5	M16



ZG62P/V...SMB/SMR

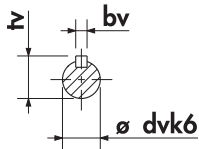
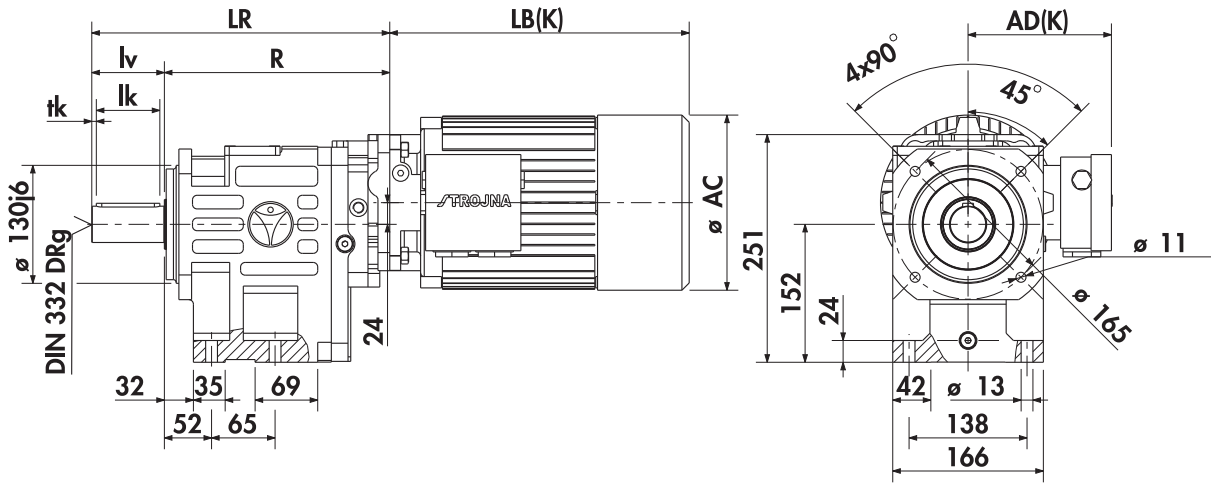


DIN42948	P	N	M	T	B	S
A300	300	230	265	4	16	14,5

SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132M α	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301	329	334	377	415	415	489	533	554	592				
AD	97	105	110	121	121	157	169	190	190	190	246	246	260	260				
LBK	260	280	311	360	385	418	434	492	532	532	613	657	739	777				
ADK	125	137	147	164	164	174	199	183	183	183	246	246	260	260				
AC	125	140	154	170	170	193	216	247	247	247	285	285	323	323				
R	203	203	203	203	203	207	207	220	220	220	229	229	229	229				
LR	283	283	283	283	283	287	287	300	300	300	309	309	309	309				

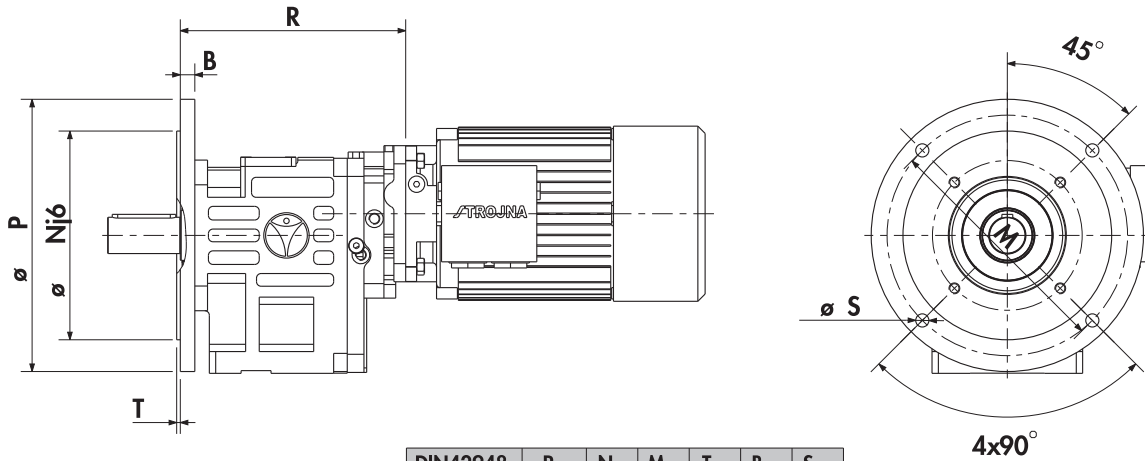
* Standard

ZG63V...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*40	43	12	80	70	5	M16
45	48,5	14	90	80	5	M16

ZG63P/V...SMB/SMR

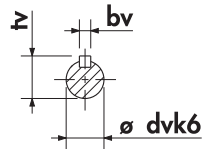
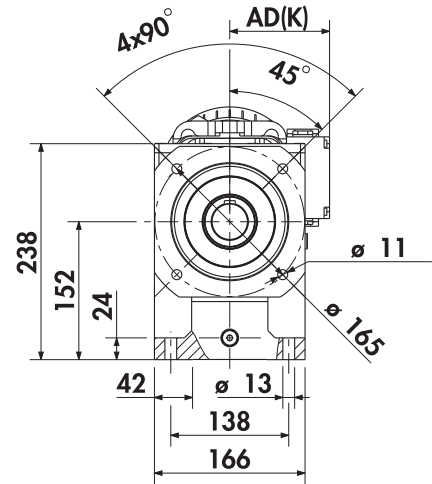
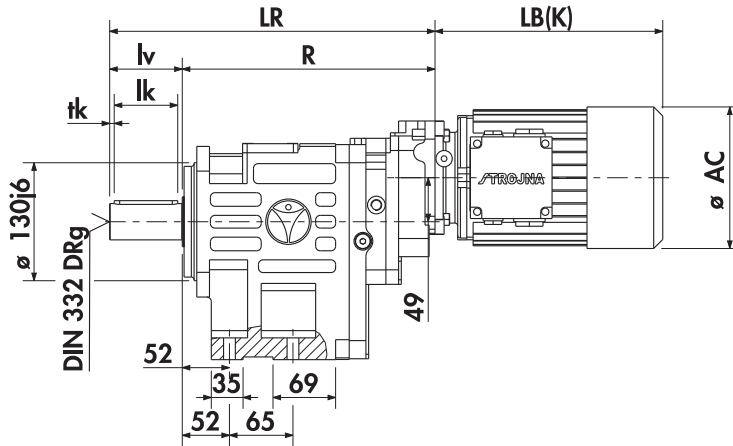


DIN42948	P	N	M	T	B	S
A300	300	230	265	4	16	14,5

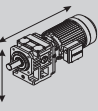
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132M α	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301	329	334											
AD	97	105	110	121	121	157	169											
LBK	260	280	311	360	385	418	434											
ADK	125	137	147	164	164	174	199											
AC	125	140	154	170	170	193	216											
R	244	244	244	244	244	248	248											
LR	324	324	324	324	324	328	328											

* Standard

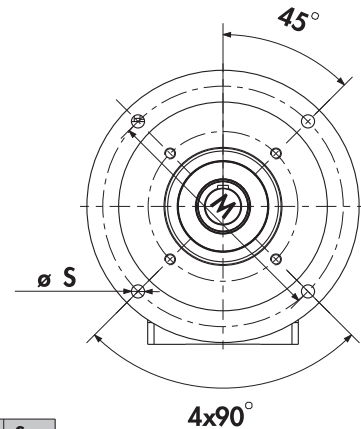
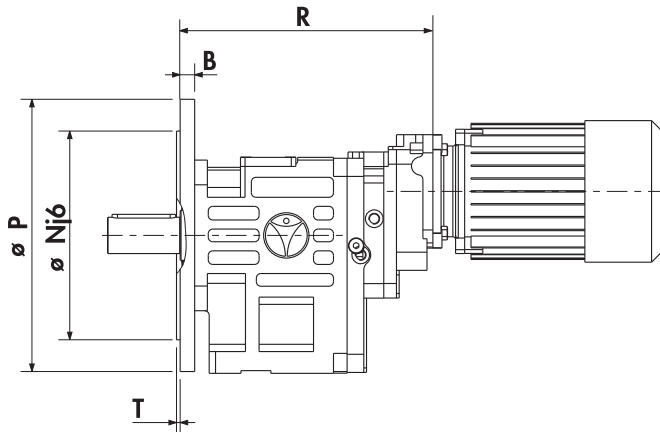
ZG64V...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*40	43	12	80	70	5	M16
45	48,5	14	90	80	5	M16



ZG64P/V...SMB/SMR

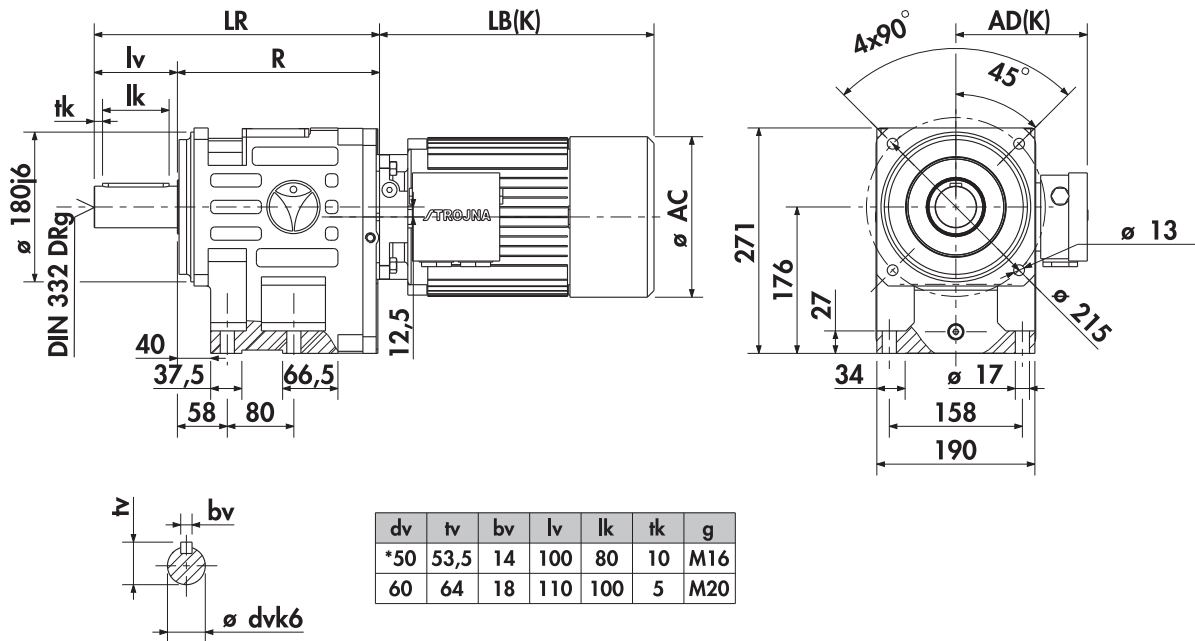


DIN42948	P	N	M	T	B	S
A300	300	230	265	4	16	14,5

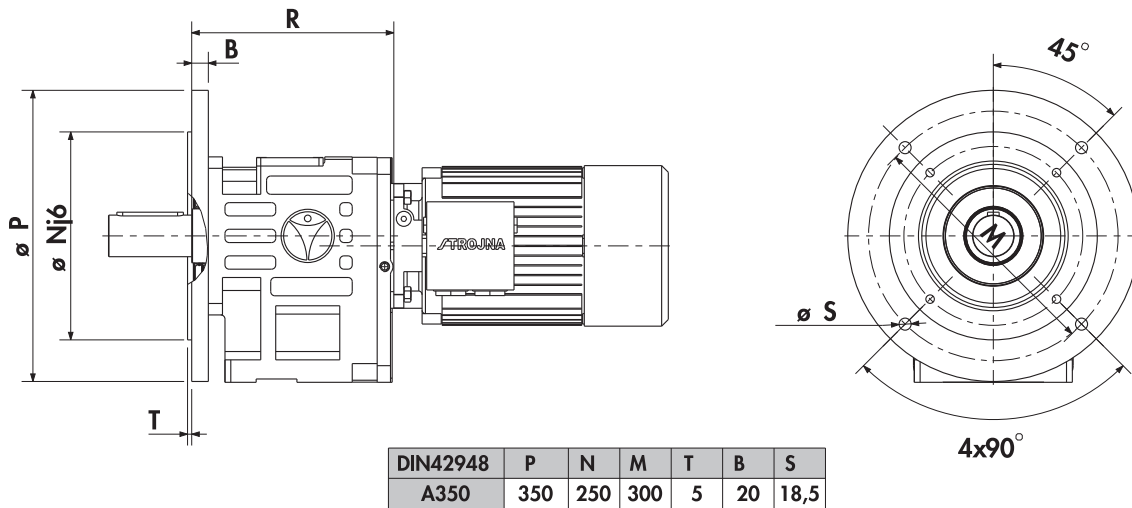
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Mα	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301													
AD	97	105	110	121	121													
LBK	260	280	311	360	385													
ADK	125	137	147	164	164													
AC	125	140	154	170	170													
R	279	279	279	279	279													
LR	359	359	359	359	359													

* Standard

ZG72V...SMB/SMR



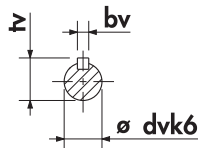
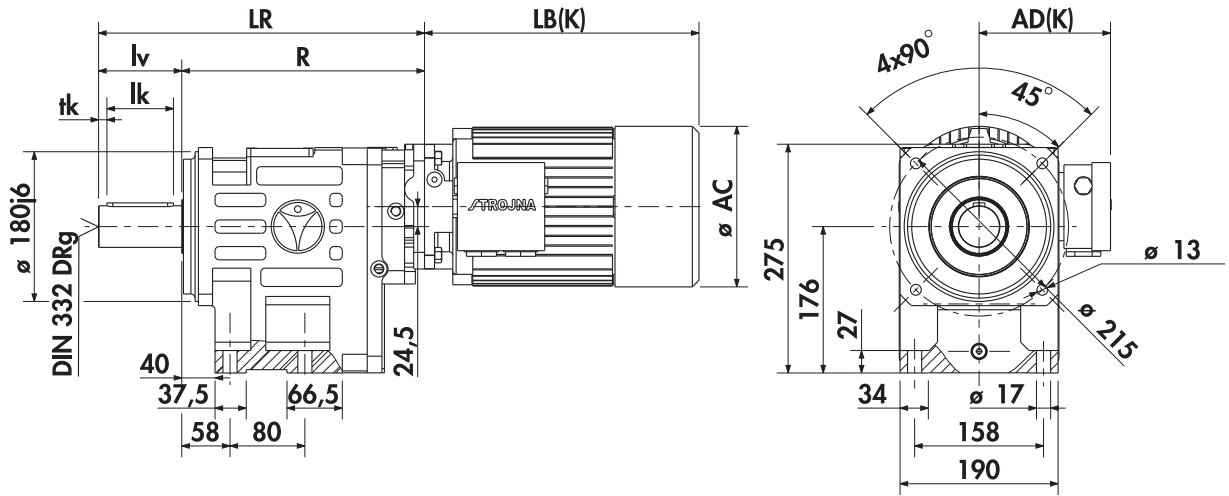
ZG72P/V...SMB/SMR



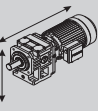
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132M α	160M	160L	180M	180L	200L	225S	225M	250M	
LB						329	334	377	415	415	489	533	554	592					
AD						157	169	190	190	190	246	246	260	260					
LBK						418	434	492	532	532	611	655	739	777					
ADK						174	199	183	183	183	246	246	260	260					
AC						193	216	247	247	247	285	285	323	323					
R						243	243	256	256	256	264	264	264	264					
LR						343	343	356	356	356	364	364	364	364					

* Standard

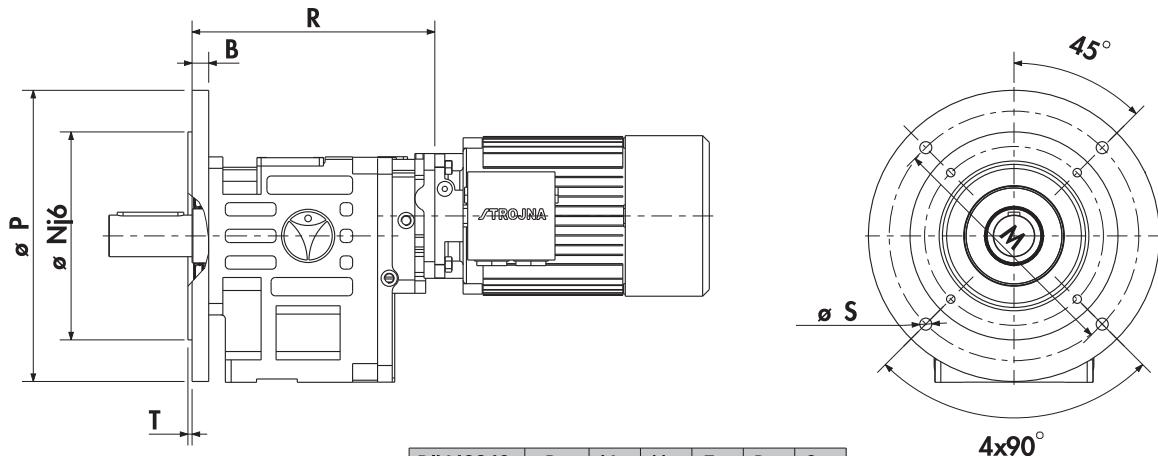
ZG73V...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*50	53,5	14	100	80	10	M16
60	64	18	110	100	5	M20



ZG73P/V...SMB/SMR

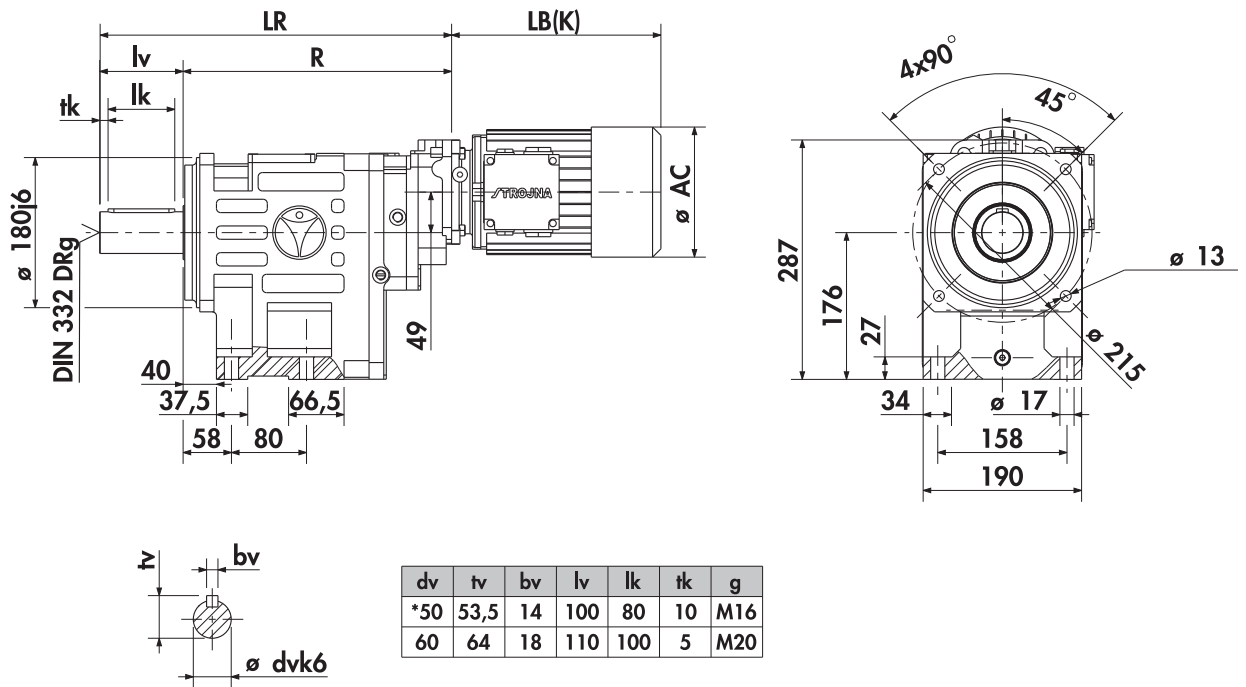


DIN42948	P	N	M	T	B	S
A350	350	250	300	5	20	18,5

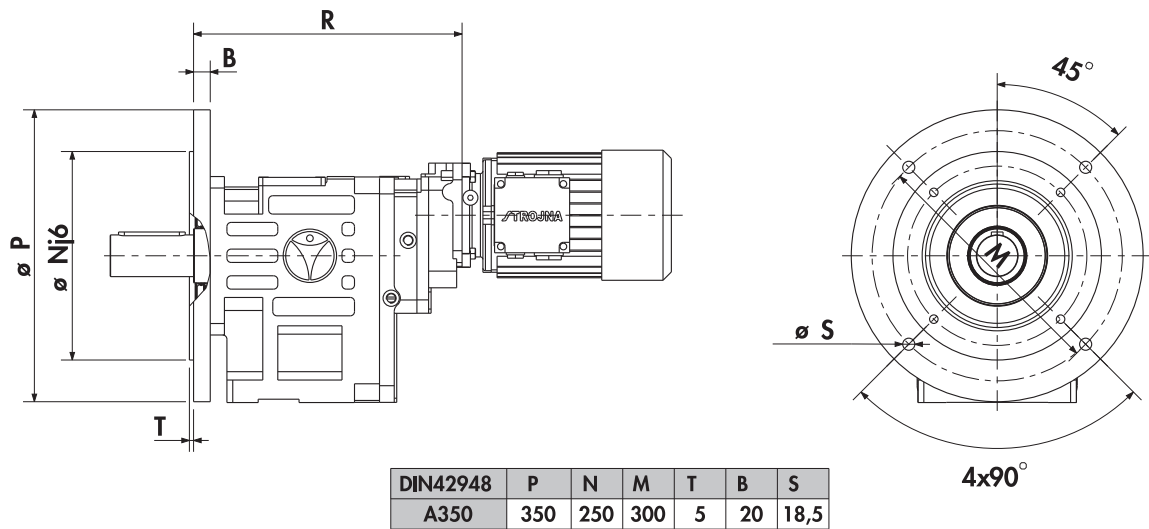
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132M α	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301	329	334											
AD	97	105	110	121	121	157	169											
LBK	260	280	311	360	385	418	434											
ADK	125	137	147	164	164	174	199											
AC	125	140	154	170	170	193	216											
R	288	288	288	288	288	292	292											
LR	388	388	388	388	388	392	392											

* Standard

ZG74V...SMB/SMR



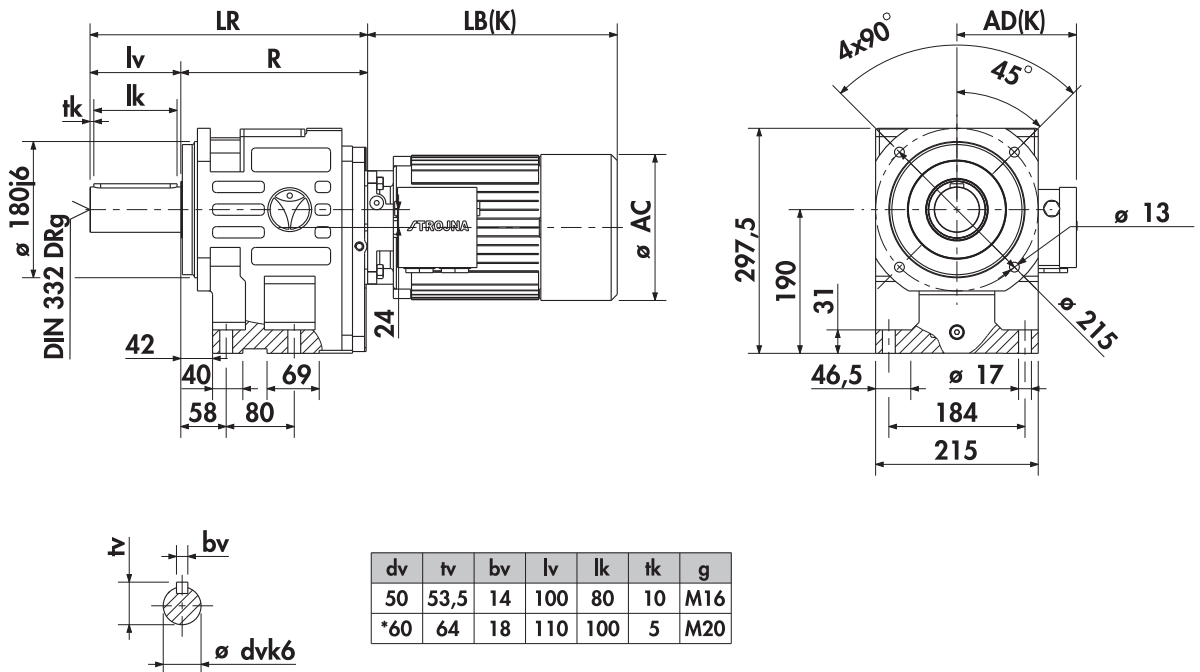
ZG74P/V...SMB/SMR



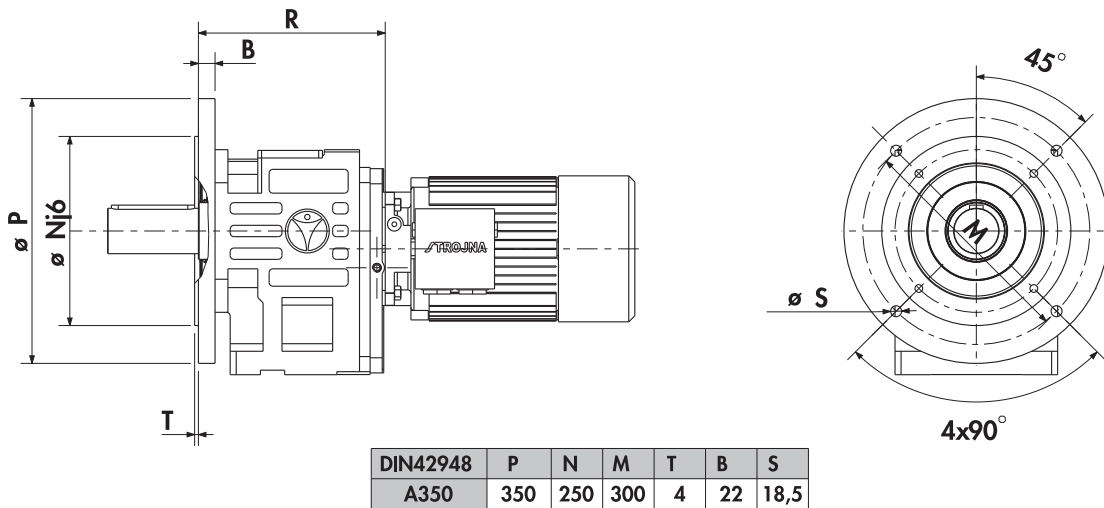
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132M α	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301													
AD	97	105	110	121	121													
LBK	260	280	311	360	385													
ADK	125	137	147	164	164													
AC	125	140	154	170	170													
R	322	322	322	322	322													
LR	422	422	422	422	422													

* Standard

ZG82V...SMB/SMR



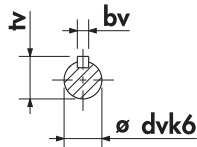
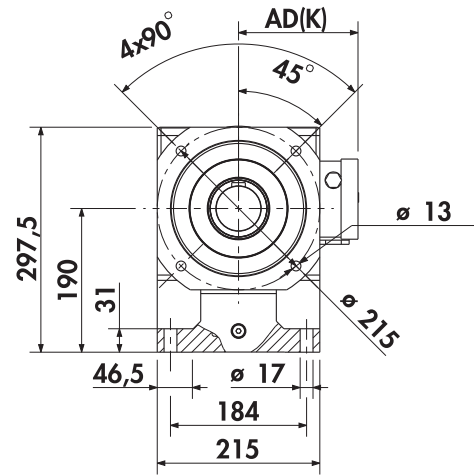
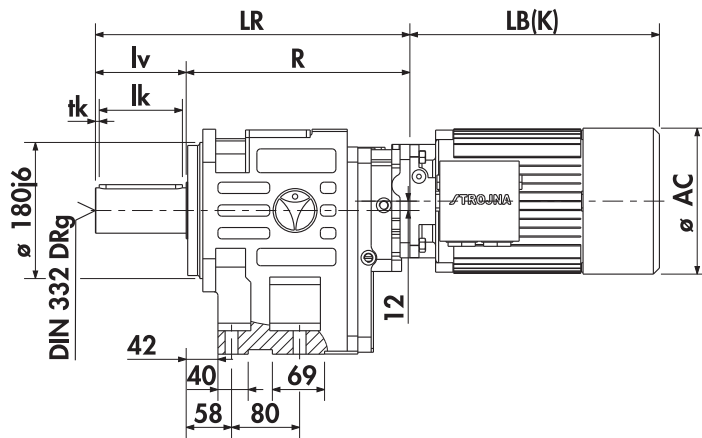
ZG82P/V...SMB/SMR



SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132M α	160M	160L	180M	180L	200L	225S	225M	250M	
LB						329	334	377	415	415	489	533	554	592					
AD						157	169	190	190	190	246	246	260	260					
LBK						418	434	492	532	532	611	655	739	777					
ADK						174	199	183	183	183	246	246	260	260					
AC						193	216	247	247	247	285	285	323	323					
R						247	247	260	260	260	268	268	268	268					
LR						357	357	370	370	370	378	378	378	378					

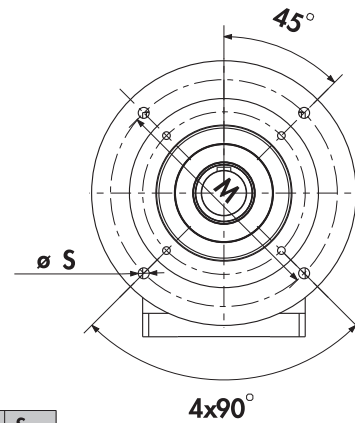
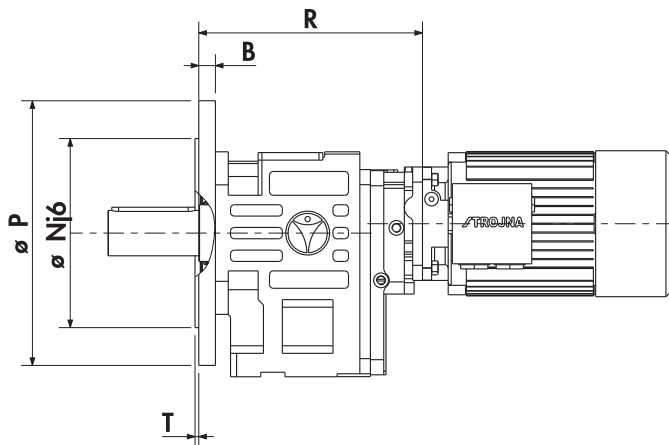
* Standard

ZG83V...SMB/SMR



dv	tv	bv	lv	lk	tk	g
50	53,5	14	100	80	10	M16
*60	64	18	110	100	5	M20

ZG83P/V...SMB/SMR

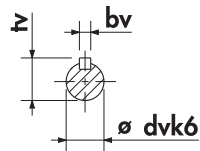
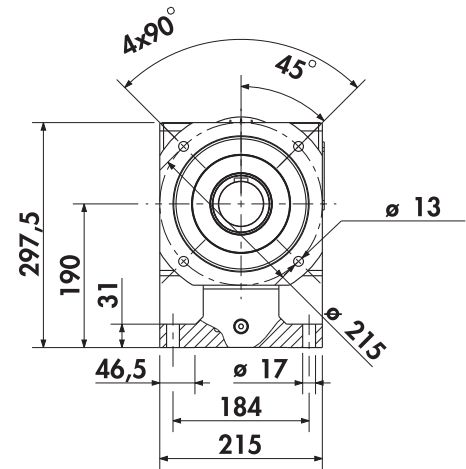
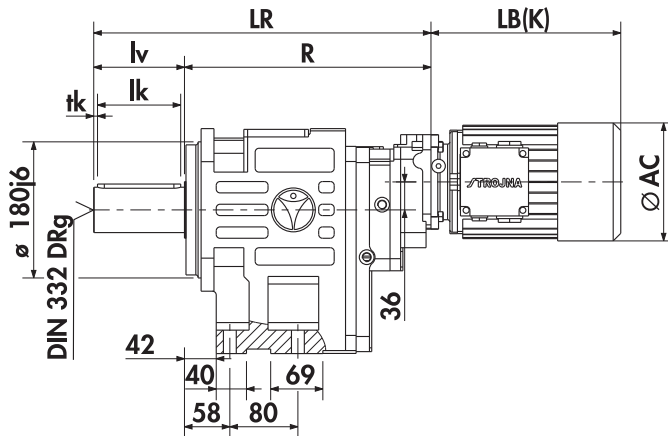


DIN42948	P	N	M	T	B	S
A350	350	250	300	4	20	18,5

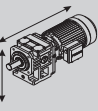
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Mα	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301	329	334											
AD	97	105	110	121	121	157	169											
LBK	260	280	311	360	385	418	434											
ADK	125	137	147	164	164	174	199											
AC	125	140	154	170	170	193	216											
R	292	292	292	292	292	296	296											
LR	402	402	402	402	402	406	406											

* Standard

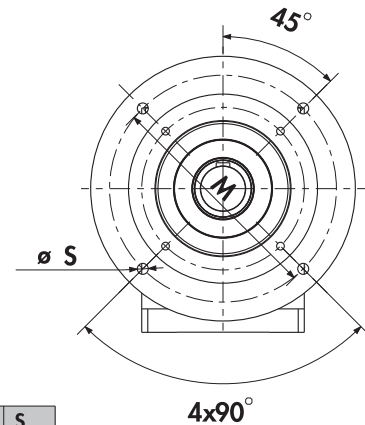
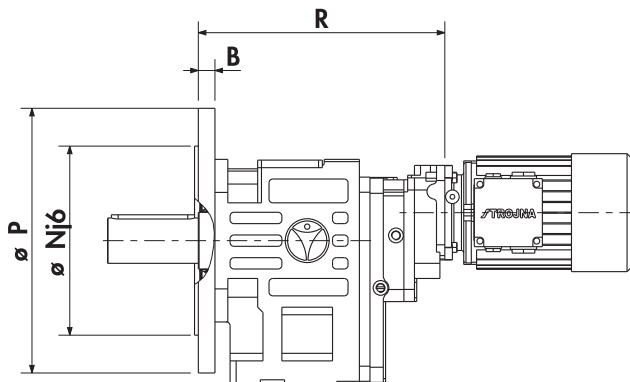
ZG84V...SMB/SMR



dv	tv	bv	lv	lk	tk	g
50	53,5	14	100	80	10	M16
*60	64	18	110	100	5	M20



ZG84P/V...SMB/SMR

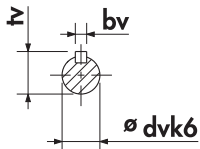
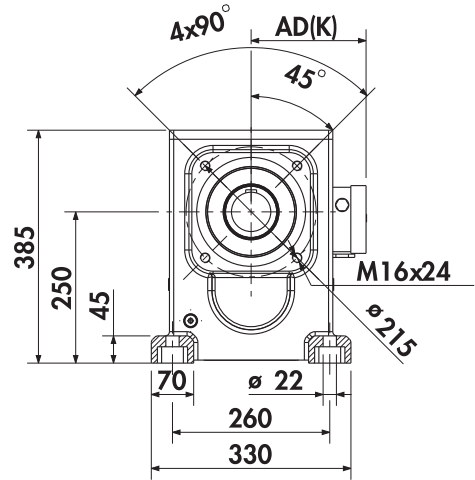
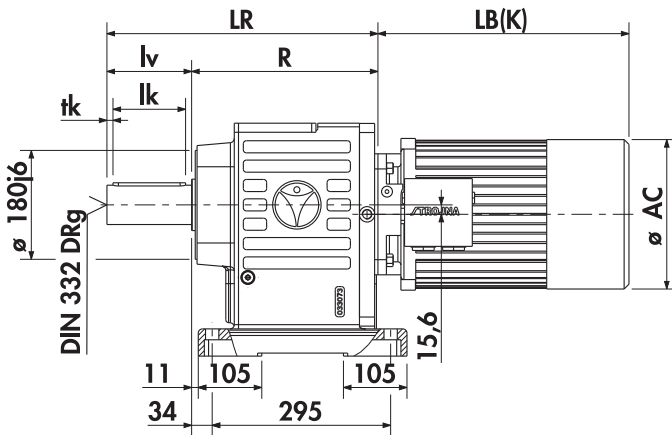


DIN42948	P	N	M	T	B	S
A350	350	250	300	4	20	18,5

SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Mα	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301													
AD	97	105	110	121	121													
LBK	260	280	311	360	385													
ADK	125	137	147	164	164													
AC	125	140	154	170	170													
R	326	326	326	326	326													
LR	436	436	436	436	436													

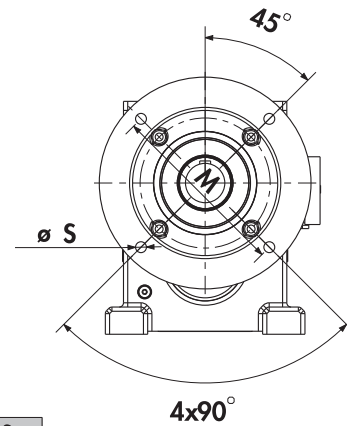
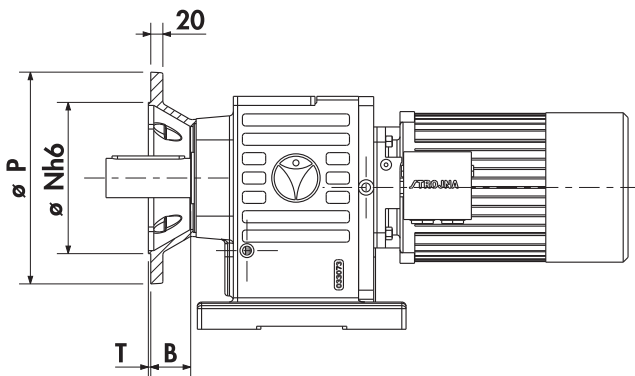
* Standard

ZG92V...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*60	64	18	110	100	5	M20
70	74,5	20	120	100	10	M20

ZG92P/V...SMB/SMR

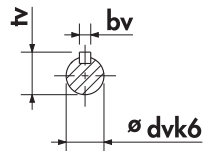
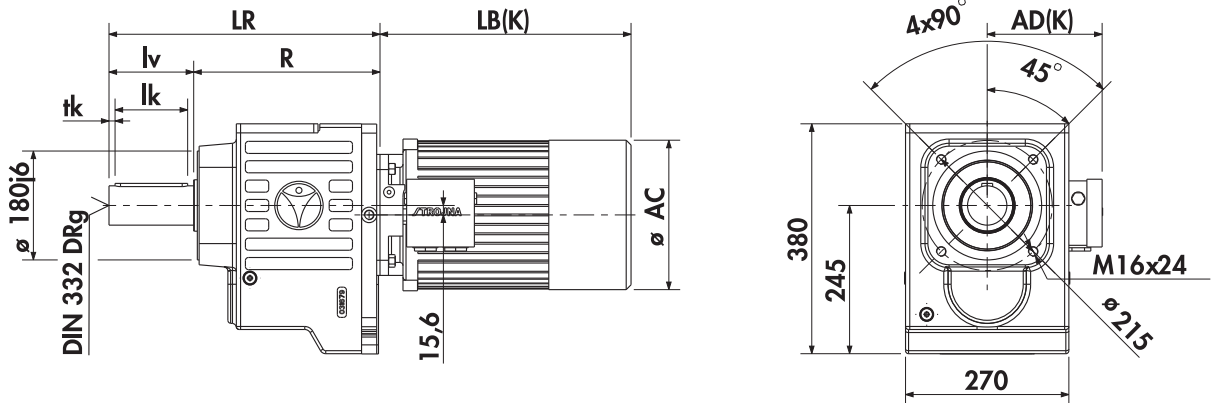


DIN42948	P	N	M	T	B	S
A350	350	250	300	4	66	18

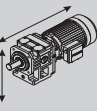
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Ma	160M	160L	180M	180L	200L	225S	225M	250M
LB								377	415	415	489	533	554	592	658	667	702	
AD								190	190	190	246	246	260	260	299	337	337	
LBK								492	532	532	611	655	739	777	828	848	873	
ADK								183	183	183	246	246	260	260	299	337	337	
AC								247	247	247	285	285	323	323	369	418	418	
R								308	308	308	317	317	317	317	332	332	332	
LR								418	418	418	427	427	427	427	442	442	442	

* Standard

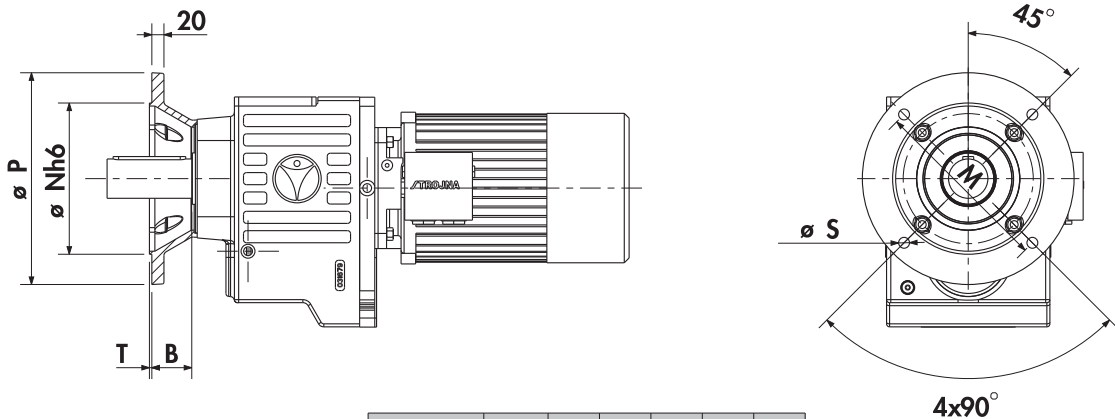
ZG92FV...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*60	64	18	110	100	5	M20
70	74,5	20	120	100	10	M20



ZG92FP/V...SMB/SMR

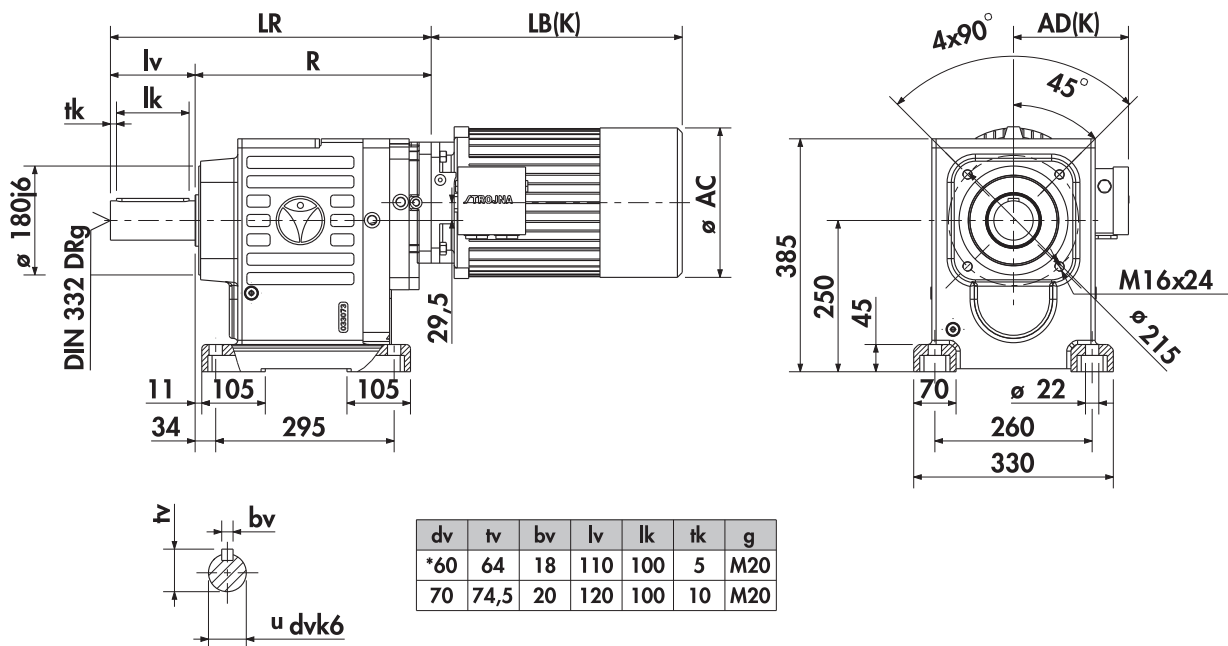


DIN42948	P	N	M	T	B	S
A350	350	250	300	4	66	18

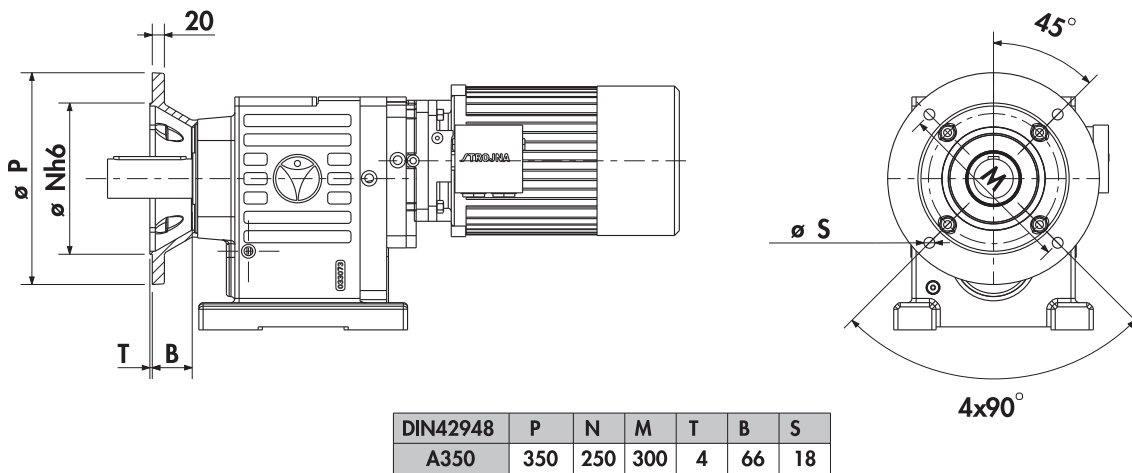
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Mα	160M	160L	180M	180L	200L	225S	225M	250M
LB								377	415	415	489	533	554	592	658	667	702	
AD								190	190	190	246	246	260	260	299	337	337	
LBK								492	532	532	611	655	739	777	828	848	873	
ADK								183	183	183	246	246	260	260	299	337	337	
AC								247	247	247	285	285	323	323	369	418	418	
R								308	308	308	317	317	317	317	332	332	332	
LR								418	418	418	427	427	427	427	442	442	442	

* Standard

ZG93V...SMB/SMR



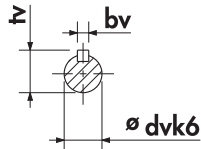
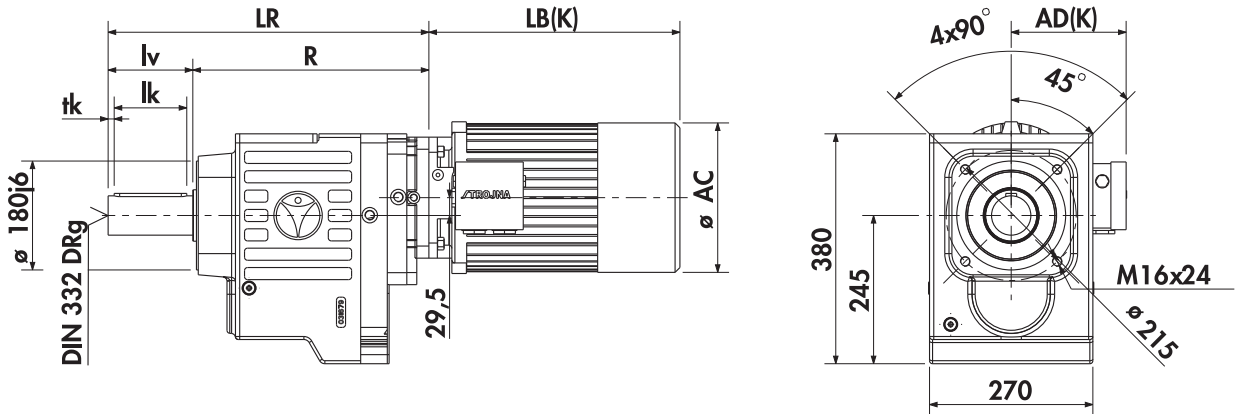
ZG93P/V...SMB/SMR



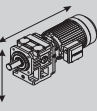
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132M α	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301	329	334	377	415	415	489	533	554	592				
AD	97	105	110	121	121	157	169	190	190	190	246	246	260	260				
LBK	260	280	311	360	385	418	434	492	532	532	611	655	739	777				
ADK	125	137	147	164	164	174	199	183	183	183	246	246	260	260				
AC	125	140	154	170	170	193	216	247	247	247	285	285	323	323				
R	374	374	374	374	374	378	378	390	390	390	399	399	399	399				
LR	484	484	484	484	484	488	488	500	500	500	509	509	509	509				

* Standard

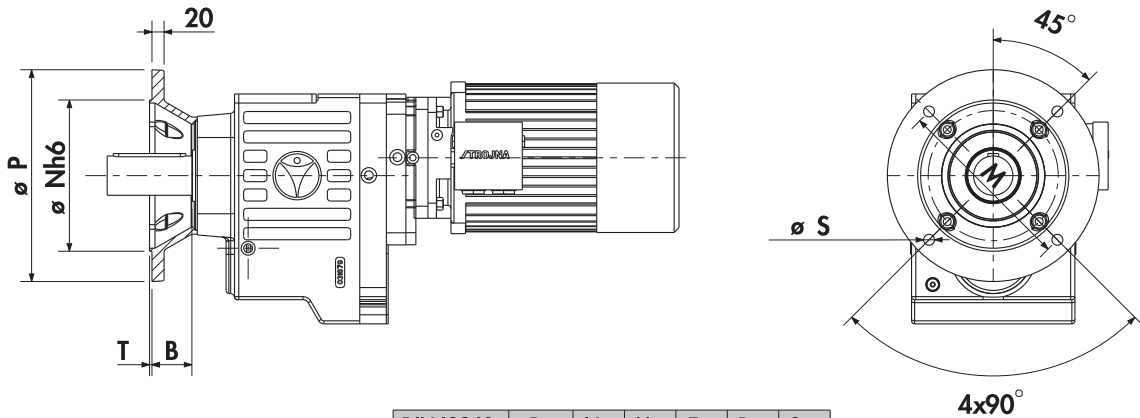
ZG93FV...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*60	64	18	110	100	5	M20
70	74,5	20	120	100	10	M20



ZG93FP/V...SMB/SMR

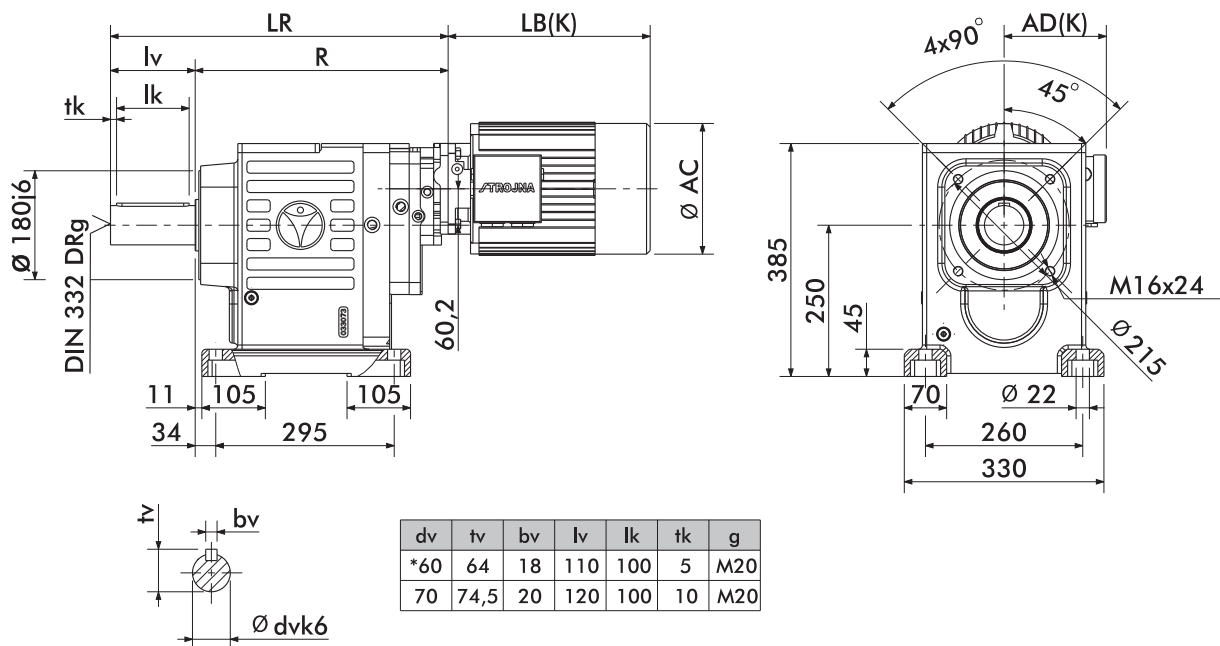


DIN42948	P	N	M	T	B	S
A350	350	250	300	4	66	18

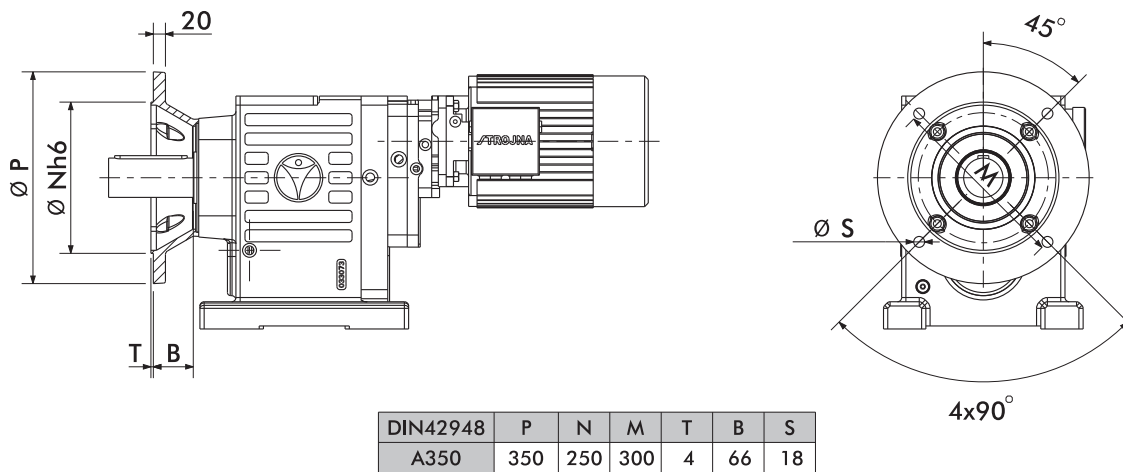
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132M α	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301	329	334	377	415	415	489	533	554	592				
AD	97	105	110	121	121	157	169	190	190	190	246	246	260	260				
LBK	260	280	311	360	385	418	434	492	532	532	611	655	739	777				
ADK	125	137	147	164	164	174	199	183	183	183	246	246	260	260				
AC	125	140	154	170	170	193	216	247	247	247	285	285	323	323				
R	374	374	374	374	374	378	378	390	390	390	399	399	399	399				
LR	484	484	484	484	484	488	488	500	500	500	509	509	509	509				

* Standard

ZG94V...SMB/SMR



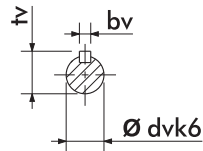
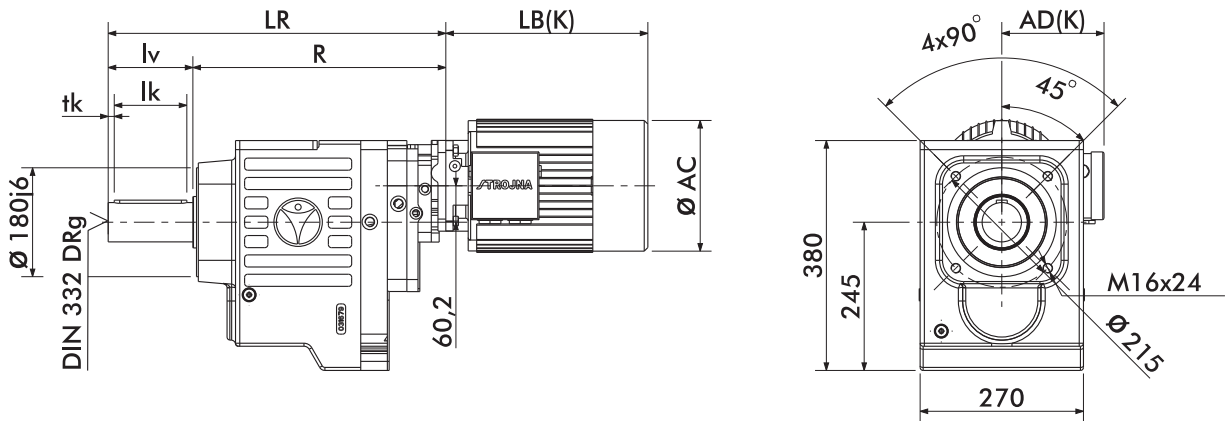
ZG94P/V...SMB/SMR



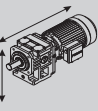
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Ma	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301	329	334											
AD	97	105	110	121	121	157	169											
LBK	260	280	311	360	385	418	434											
ADK	125	137	147	164	164	174	199											
AC	125	140	154	170	170	193	216											
R	414	414	414	414	414	418	418											
LR	524	524	524	524	524	528	528											

* Standard

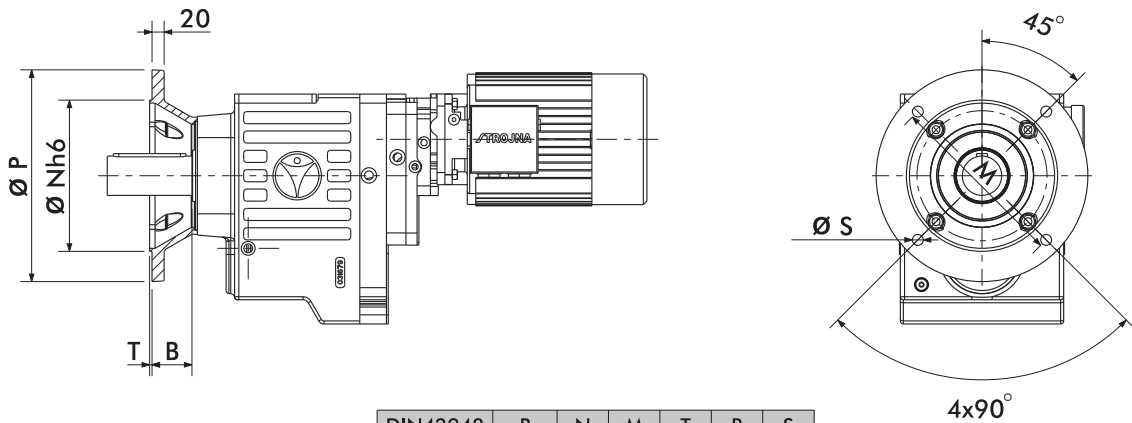
ZG94FV...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*60	64	18	110	100	5	M20
70	74,5	20	120	100	10	M20



ZG94FP/V...SMB/SMR

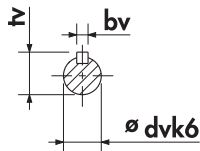
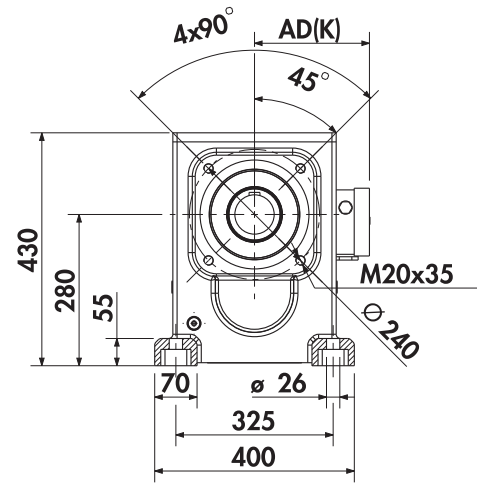
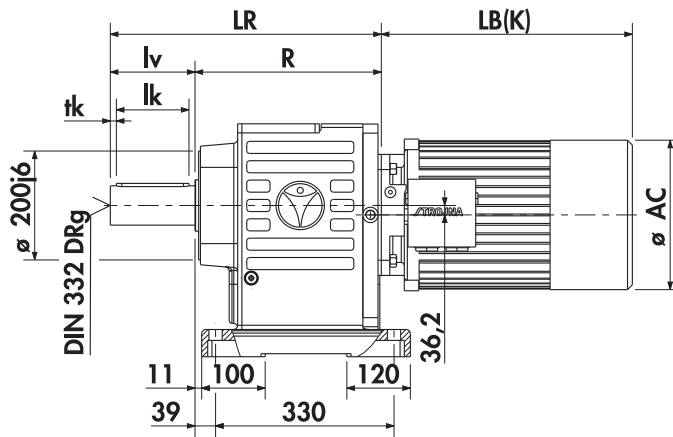


DIN42948	P	N	M	T	B	S
A350	350	250	300	4	66	18

SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132M α	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301	329	334											
AD	97	105	110	121	121	157	169											
LBK	260	280	311	360	385	418	434											
ADK	125	137	147	164	164	174	199											
AC	125	140	154	170	170	193	216											
R	414	414	414	414	414	418	418											
LR	524	524	524	524	524	528	528											

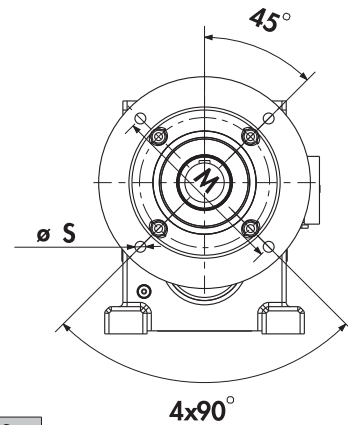
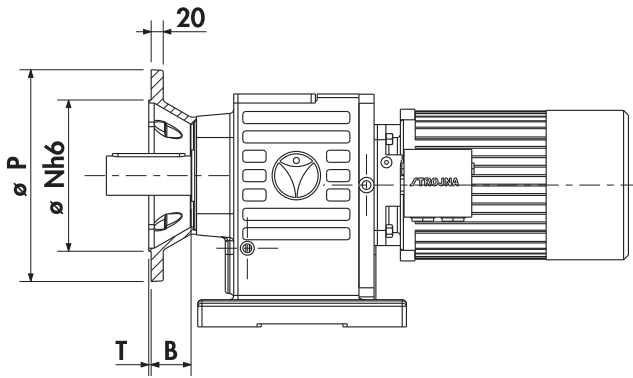
* Standard

ZG102V...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*70	74,5	20	120	100	10	M20

ZG102P/V...SMB/SMR

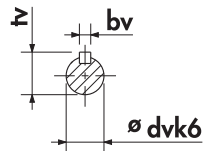
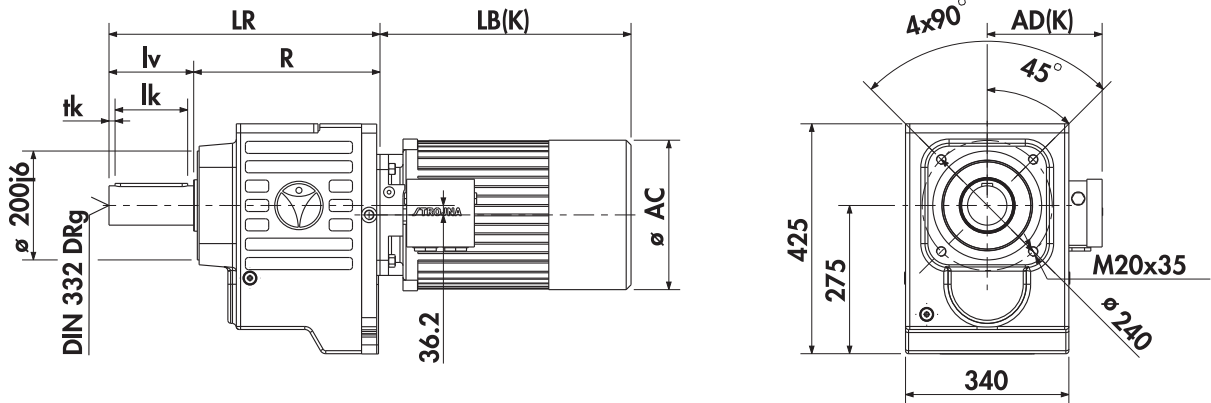


DIN42948	P	N	M	T	B	S
A400	400	300	350	5	73	18

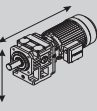
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132M α	160M	160L	180M	180L	200L	225S	225M	250M
LB								377	415	415	489	533	554	592	658	667	702	
AD								190	190	190	246	246	260	260	299	337	337	
LBK								492	532	532	611	655	739	777	828	848	873	
ADK								183	183	183	246	246	260	260	299	337	337	
AC								247	247	247	285	285	323	323	369	418	418	
R								351	351	351	360	360	360	360	375	375	375	
LR								471	471	471	480	480	480	480	495	495	495	

* Standard

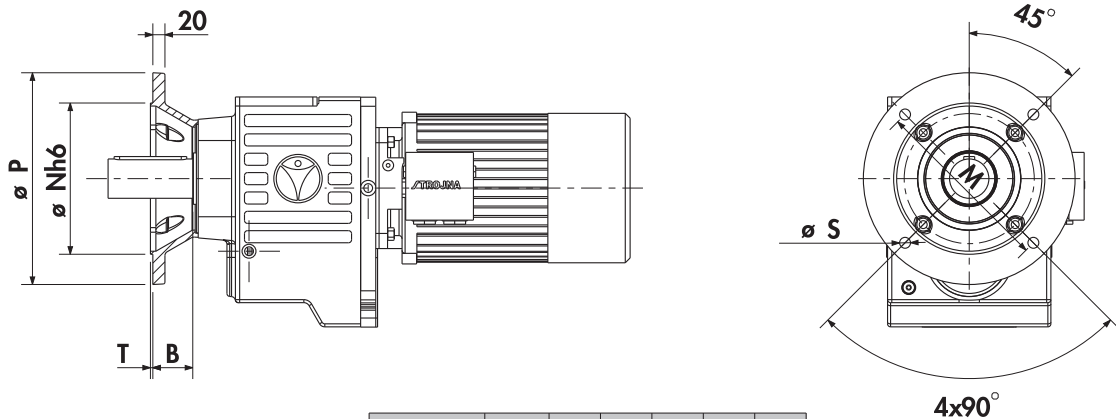
ZG102FV...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*70	74,5	20	120	100	10	M20



ZG102FP/V...SMB/SMR

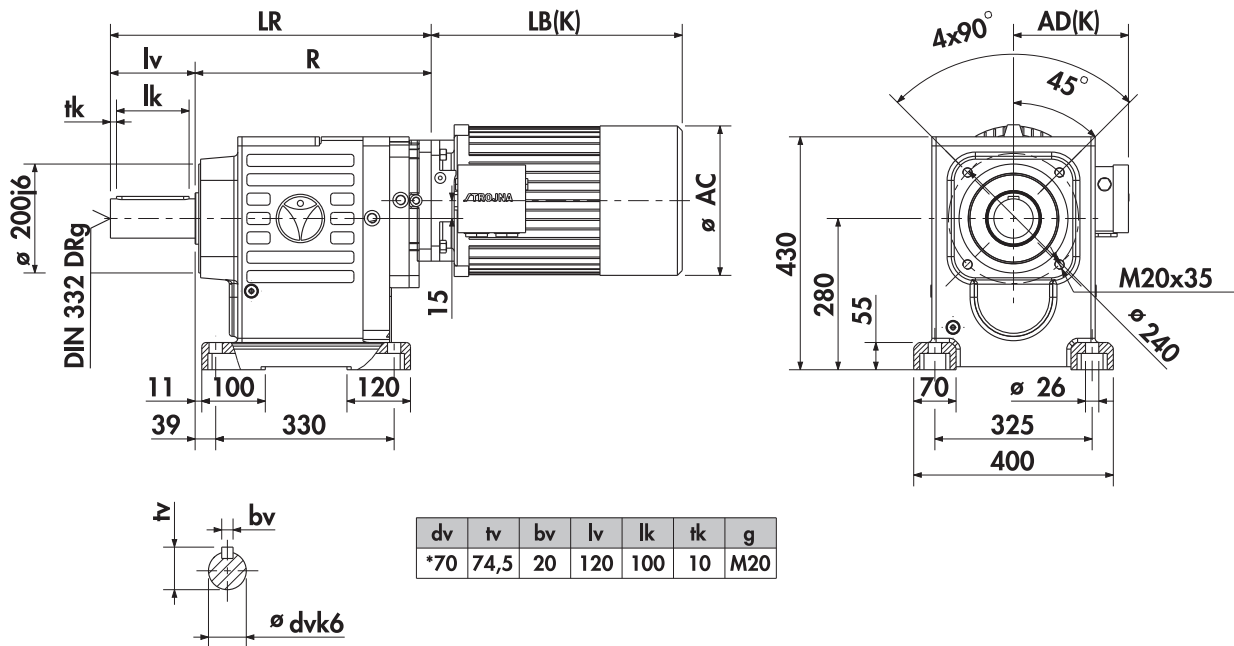


DIN42948	P	N	M	T	B	S
A400	400	300	350	5	73	18

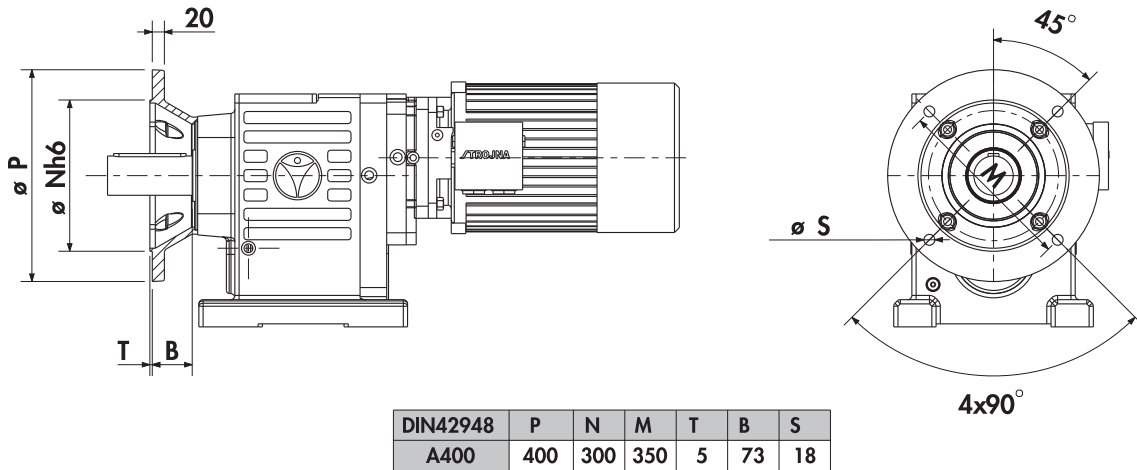
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Mα	160M	160L	180M	180L	200L	225S	225M	250M
LB								377	415	415	489	533	554	592	658	667	702	
AD								190	190	190	246	246	260	260	299	337	337	
LBK								492	532	532	611	655	739	777	828	848	873	
ADK								183	183	183	246	246	260	260	299	337	337	
AC								247	247	247	285	285	323	323	369	418	418	
R								351	351	351	360	360	360	360	375	375	375	
LR								471	471	471	480	480	480	480	495	495	495	

* Standard

ZG103V...SMB/SMR



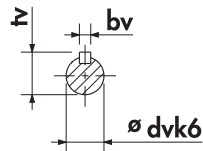
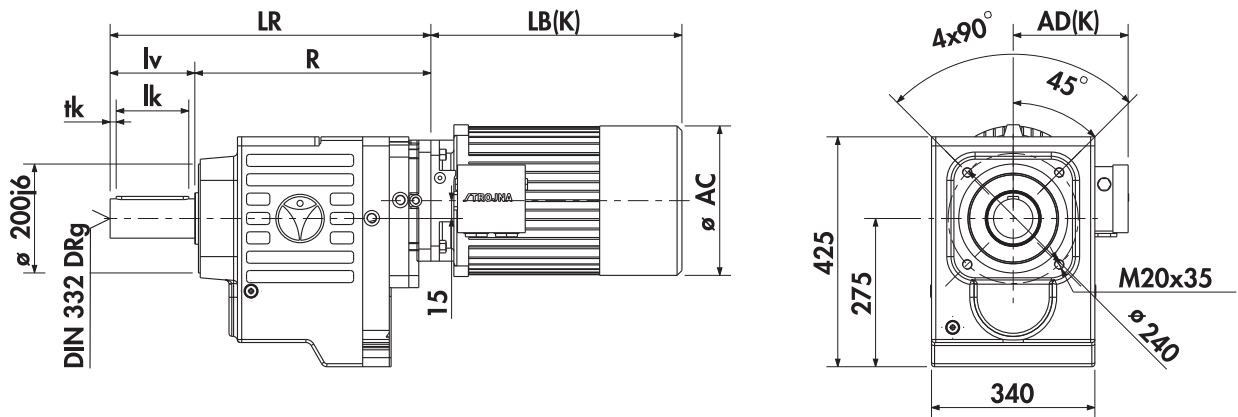
ZG103P/V...SMB/SMR



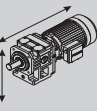
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132M α	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301	329	334	377	415	415	489	533	554	592				
AD	97	105	110	121	121	157	169	190	190	190	246	246	260	260				
LBK	260	280	311	360	385	418	434	492	532	532	611	655	739	777				
ADK	125	137	147	164	164	174	199	183	183	183	246	246	260	260				
AC	125	140	154	170	170	193	216	247	247	247	285	285	323	323				
R	416	416	416	416	416	420	420	432	432	432	441	441	441	441				
LR	536	536	536	536	536	540	540	552	552	552	561	561	561	561				

* Standard

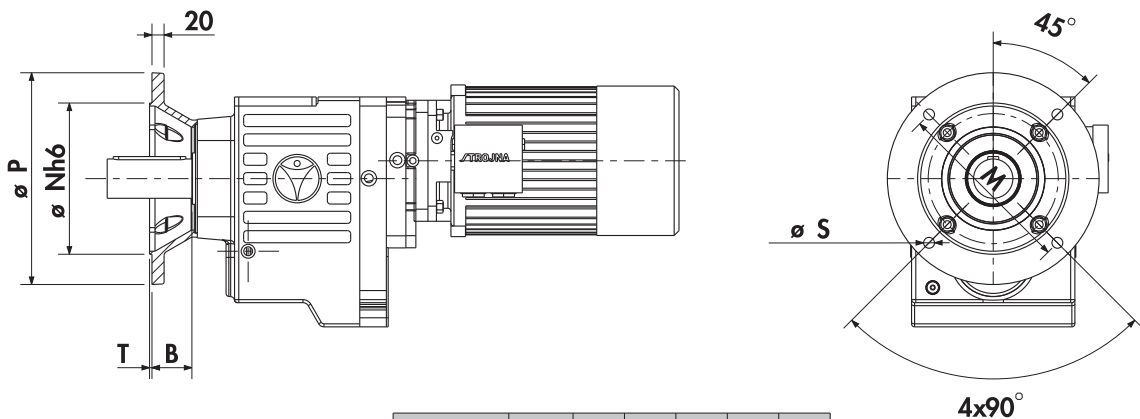
ZG103FV...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*70	74,5	20	120	100	10	M20



ZG103FP/V...SMB/SMR

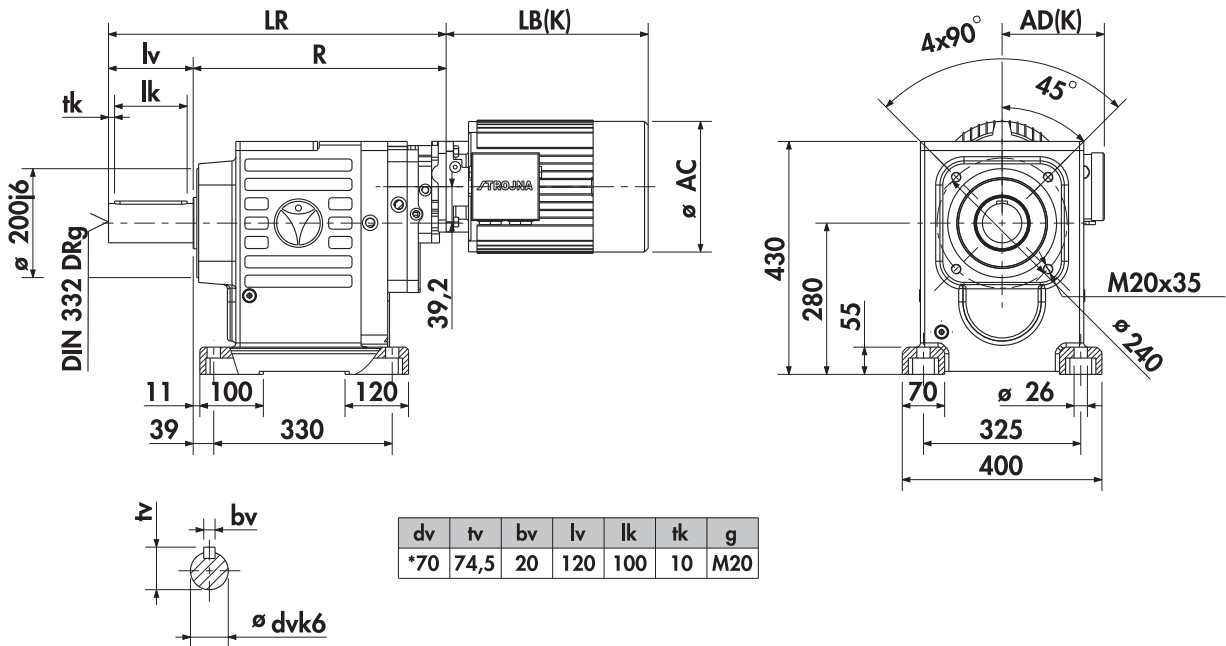


DIN42948	P	N	M	T	B	S
A400	400	300	350	5	73	18

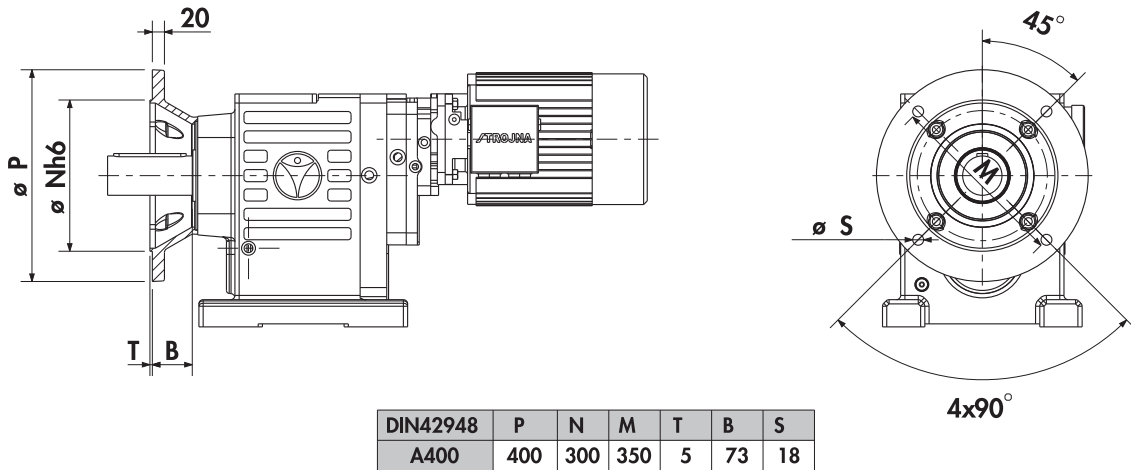
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Mα	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301	329	334	377	415	415	489	533	554	592				
AD	97	105	110	121	121	157	169	190	190	190	246	246	260	260				
LBK	260	280	311	360	385	418	434	492	532	532	611	655	739	777				
ADK	125	137	147	164	164	174	199	183	183	183	246	246	260	260				
AC	125	140	154	170	170	193	216	247	247	247	285	285	323	323				
R	416	416	416	416	416	420	420	432	432	432	441	441	441	441				
LR	536	536	536	536	536	540	540	552	552	552	561	561	561	561				

* Standard

ZG104V...SMB/SMR



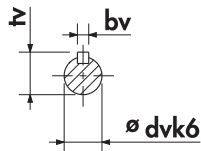
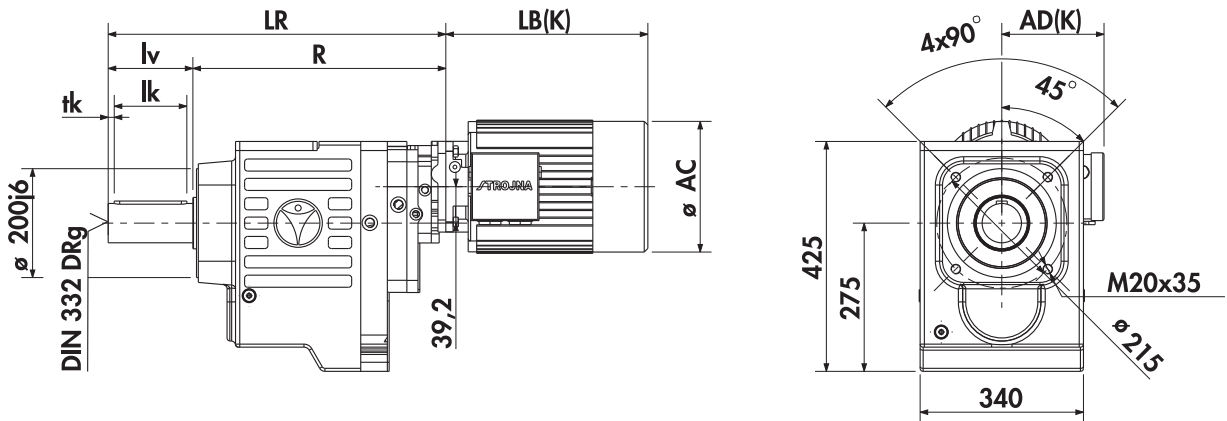
ZG104P/V...SMB/SMR



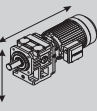
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132M α	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301	329	334											
AD	97	105	110	121	121	157	169											
LBK	260	280	311	360	385	418	434											
ADK	125	137	147	164	164	174	199											
AC	125	140	154	170	170	193	216											
R	458	458	458	458	458	462	462											
LR	578	578	578	578	578	582	582											

* Standard

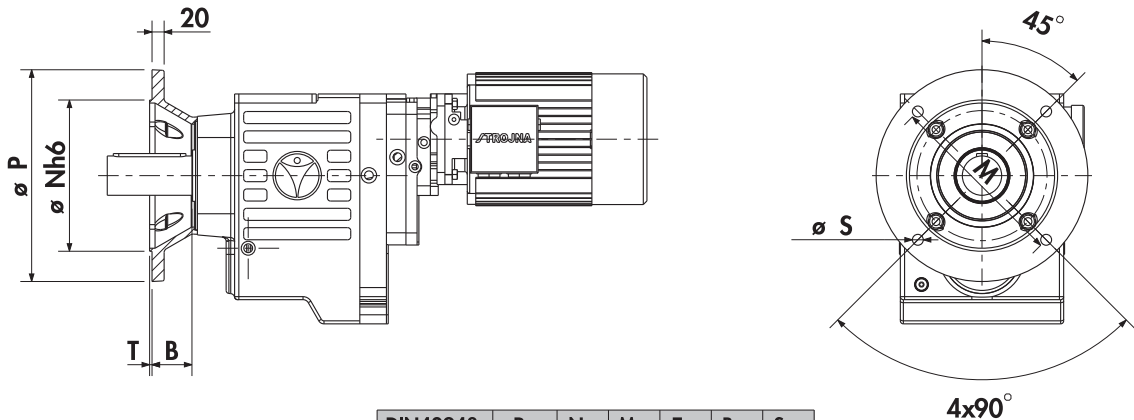
ZG104FV...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*70	74,5	20	120	100	10	M20



ZG104FP/V...SMB/SMR

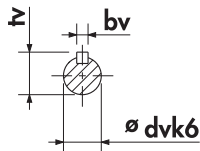
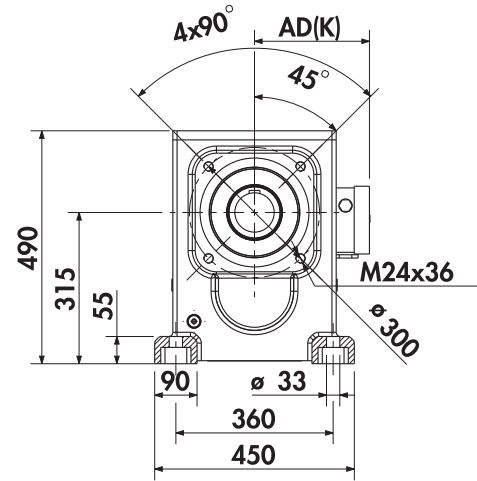
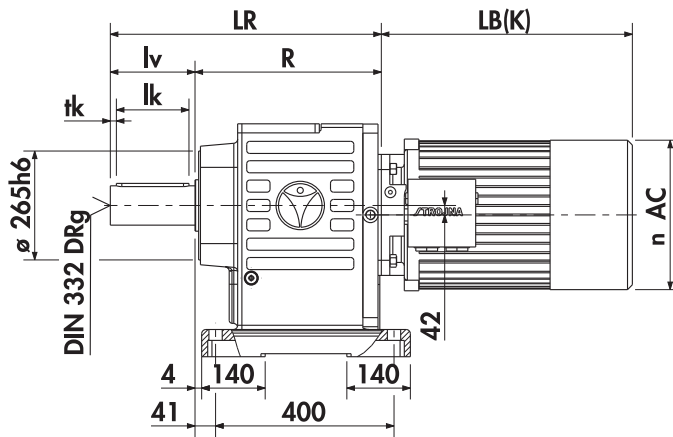


DIN42948	P	N	M	T	B	S
A400	400	300	350	5	73	18

SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132M α	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301	329	334											
AD	97	105	110	121	121	157	169											
LBK	260	280	311	360	385	418	434											
ADK	125	137	147	164	164	174	199											
AC	125	140	154	170	170	193	216											
R	458	458	458	458	458	462	462											
LR	578	578	578	578	578	582	582											

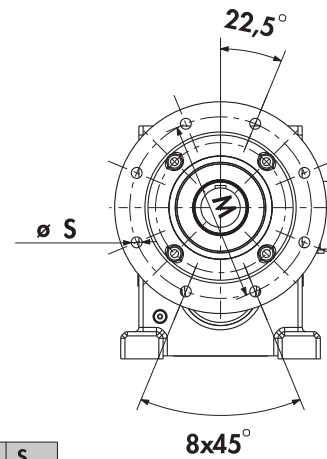
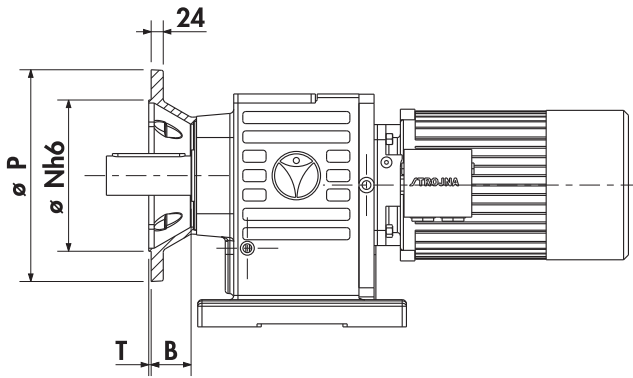
* Standard

ZG112V...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*90	95	25	170	160	5	M24

ZG112P/V...SMB/SMR

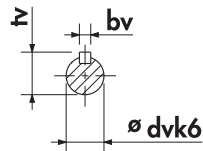
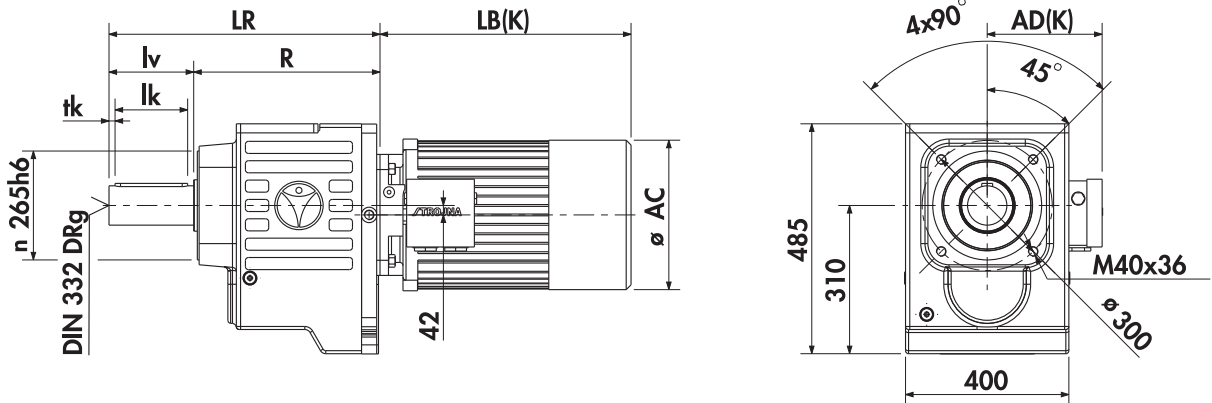


DIN42948	P	N	M	T	B	S
A550	550	450	500	5	71	18

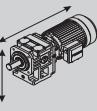
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132M α	160M	160L	180M	180L	200L	225S	225M	250M
LB								377	415	415	489	533	554	592	658	667	702	778
AD								190	190	190	246	246	260	260	299	337	337	360
LBK								492	532	532	611	655	739	777	828	848	873	968
ADK								183	183	183	246	246	260	260	299	337	337	400
AC								247	247	247	285	285	323	323	369	418	418	471
R								415	415	415	424	424	424	424	429	429	429	441
LR								585	585	585	594	594	594	594	603	603	603	611

* Standard

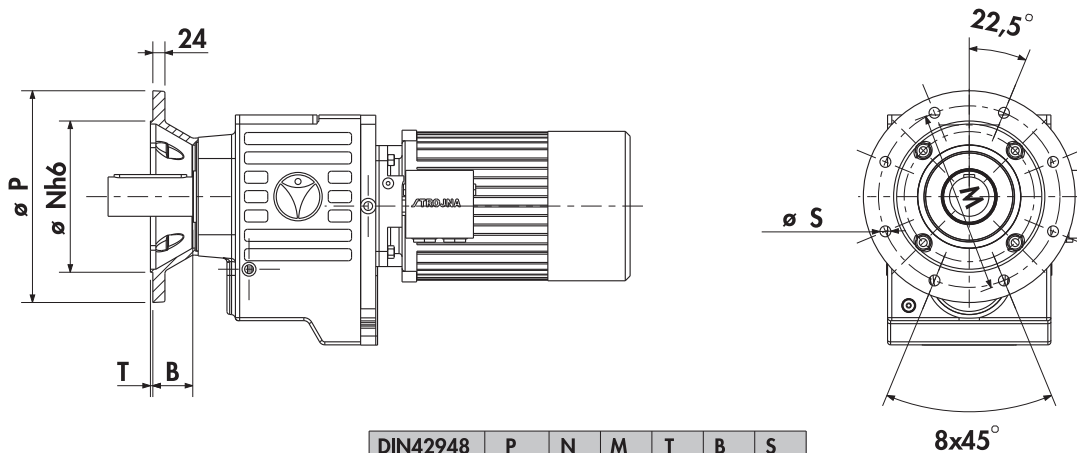
ZG112FV...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*90	95	25	170	160	5	M24



ZG112FP/V...SMB/SMR

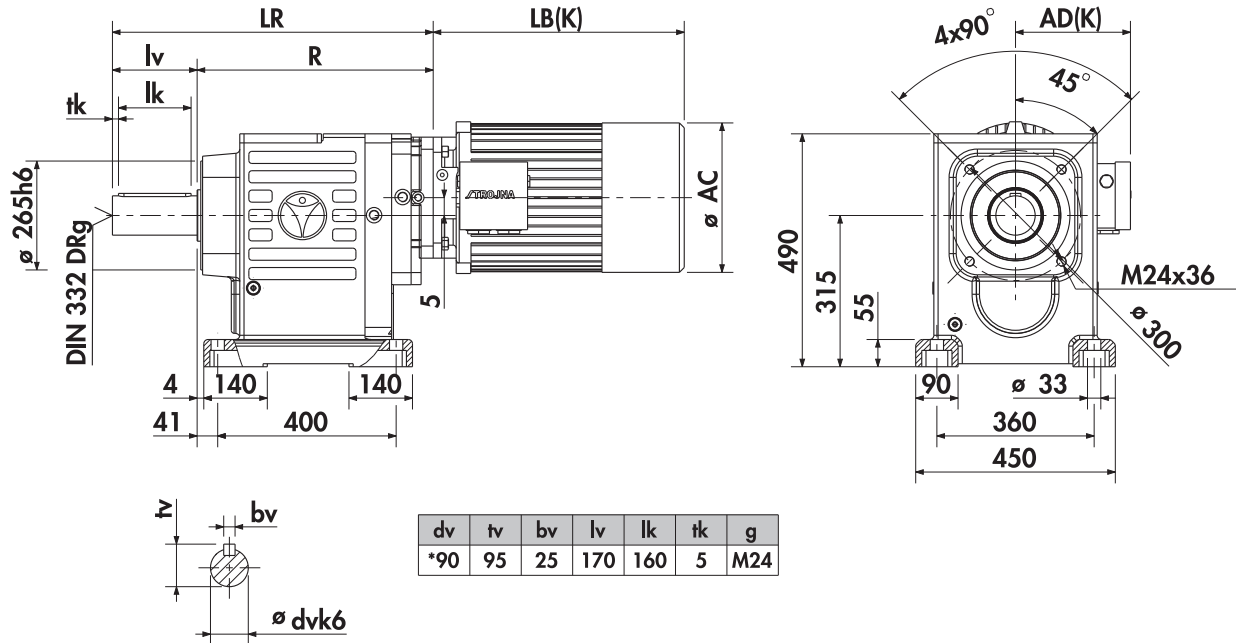


DIN42948	P	N	M	T	B	S
A550	550	450	500	5	71	18

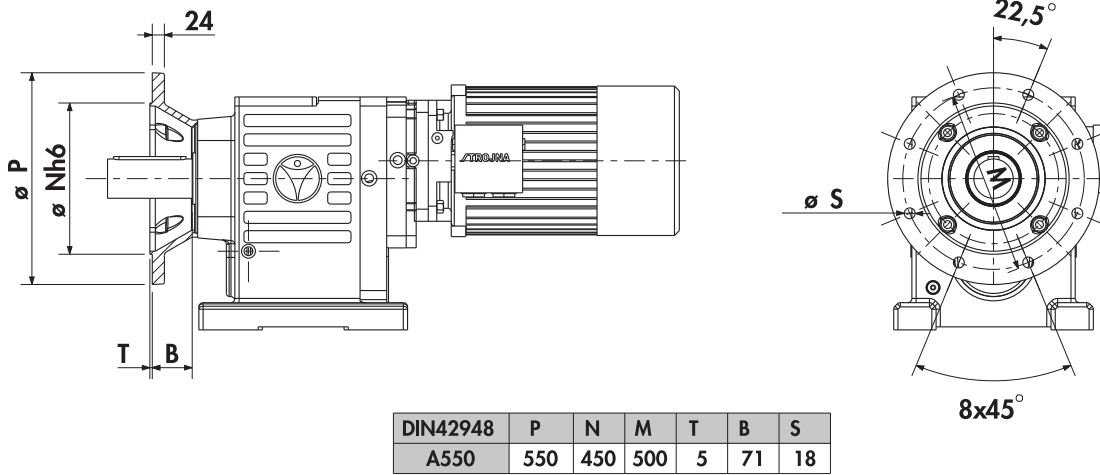
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132M α	160M	160L	180M	180L	200L	225S	225M	250M
LB								377	415	415	489	533	554	592	658	667	702	778
AD								190	190	190	246	246	260	260	299	337	337	360
LBK								492	532	532	611	655	739	777	828	848	873	968
ADK								183	183	183	246	246	260	260	299	337	337	400
AC								247	247	247	285	285	323	323	369	418	418	471
R								415	415	415	424	424	424	424	429	429	429	441
LR								585	585	585	594	594	594	594	603	603	603	611

* Standard

ZG113V...SMB/SMR



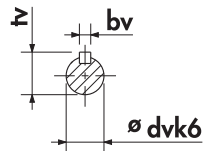
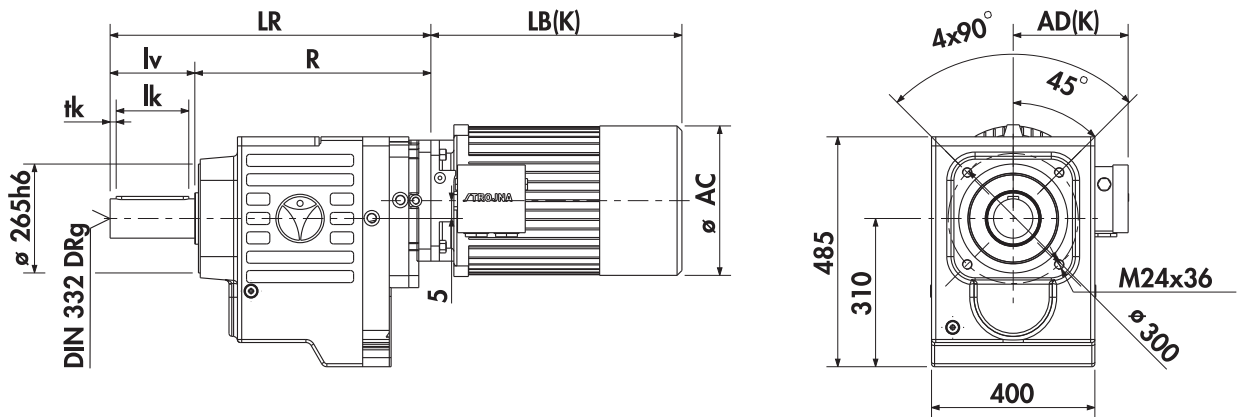
ZG113P/V...SMB/SMR



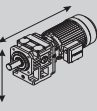
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132M α	160M	160L	180M	180L	200L	225S	225M	250M	
LB						329	334	377	415	415	489	533	554	592					
AD						157	169	190	190	190	246	246	260	260					
LBK						418	434	492	532	532	611	655	739	777					
ADK						174	199	183	183	183	246	246	260	260					
AC						193	216	247	247	247	285	285	323	323					
R						499	499	511	511	511	520	520	520	520					
LR						669	669	681	681	681	690	690	690	690					

* Standard

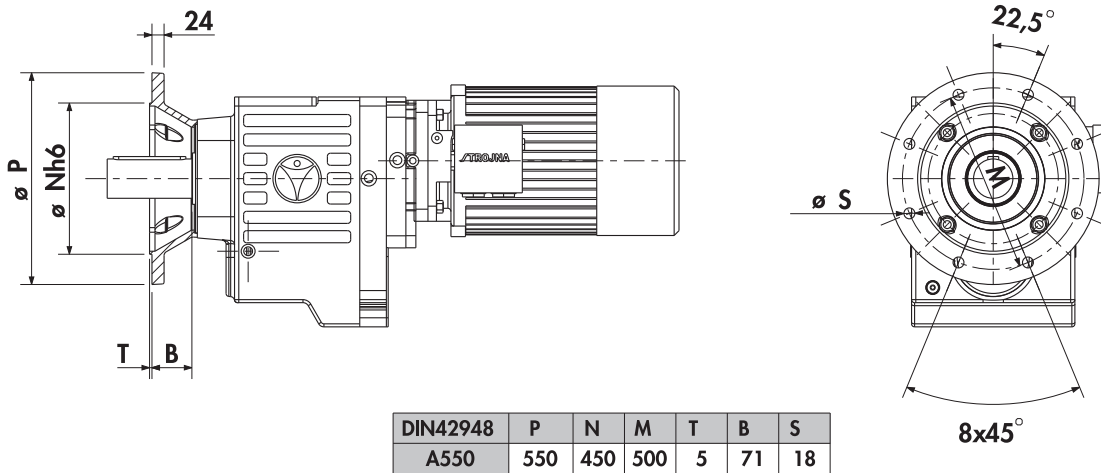
ZG113FV...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*90	95	25	170	160	5	M24



ZG113FP/V...SMB/SMR

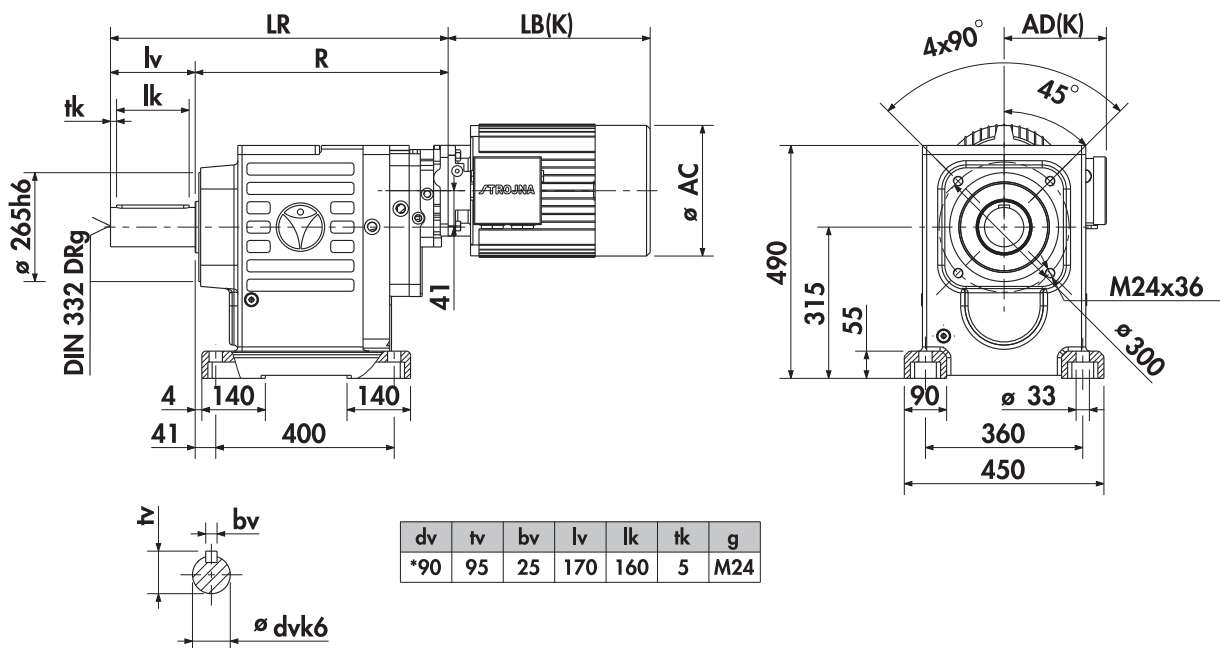


DIN42948	P	N	M	T	B	S
A550	550	450	500	5	71	18

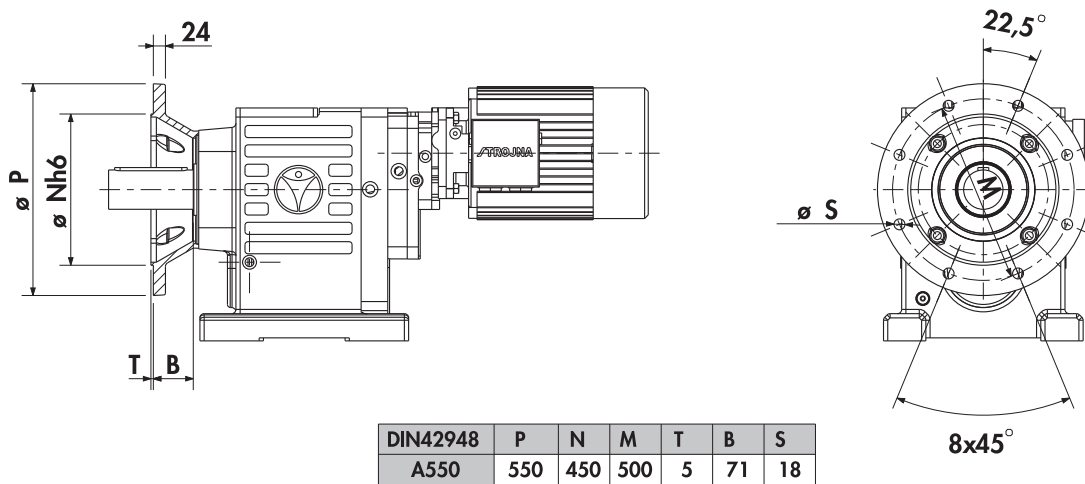
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132M α	160M	160L	180M	180L	200L	225S	225M	250M
LB						329	334	377	415	415	489	533	554	592				
AD						157	169	190	190	190	246	246	260	260				
LBK						418	434	492	532	532	611	655	739	777				
ADK						174	199	183	183	183	246	246	260	260				
AC						193	216	247	247	247	285	285	323	323				
R						499	499	511	511	511	520	520	520	520				
LR						669	669	681	681	681	690	690	690	690				

* Standard

ZG114V...SMB/SMR



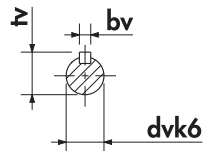
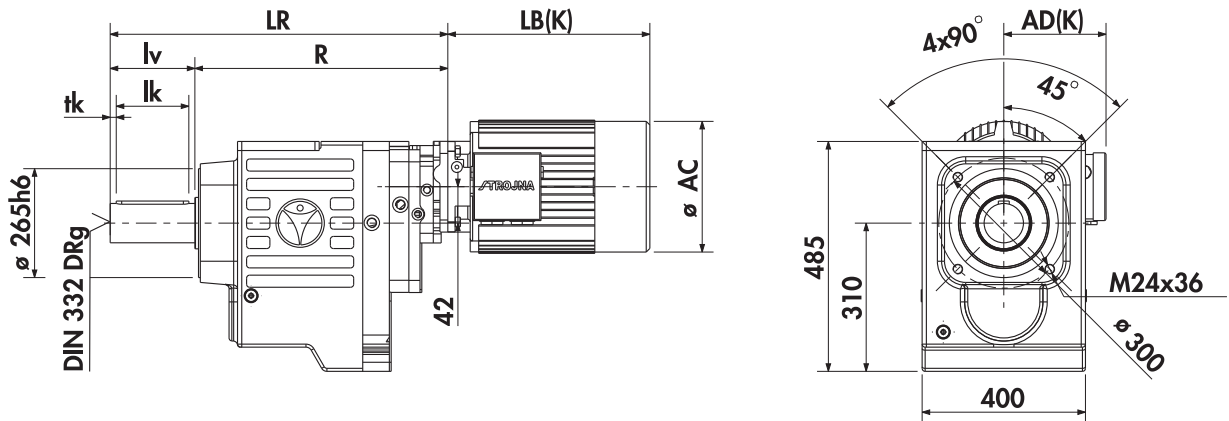
ZG114P/V...SMB/SMR



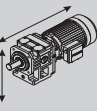
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Ma	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301	329	334											
AD	97	105	110	121	121	157	169											
LBK	260	280	311	360	385	418	434											
ADK	125	137	147	164	164	174	199											
AC	125	140	154	170	170	193	216											
R	543	543	543	543	543	547	547											
LR	713	713	713	713	713	717	717											

* Standard

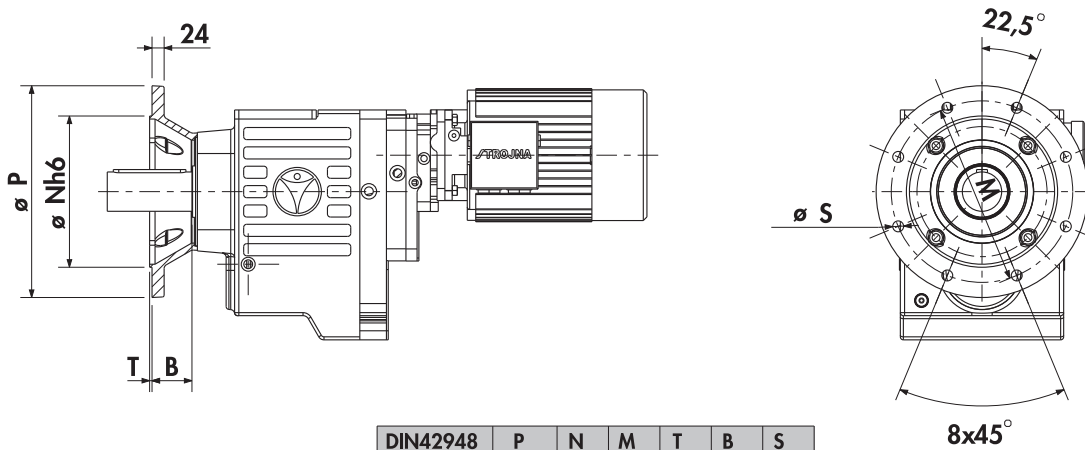
ZG114FV...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*90	95	25	170	160	5	M24



ZG114FP/V...SMB/SMR

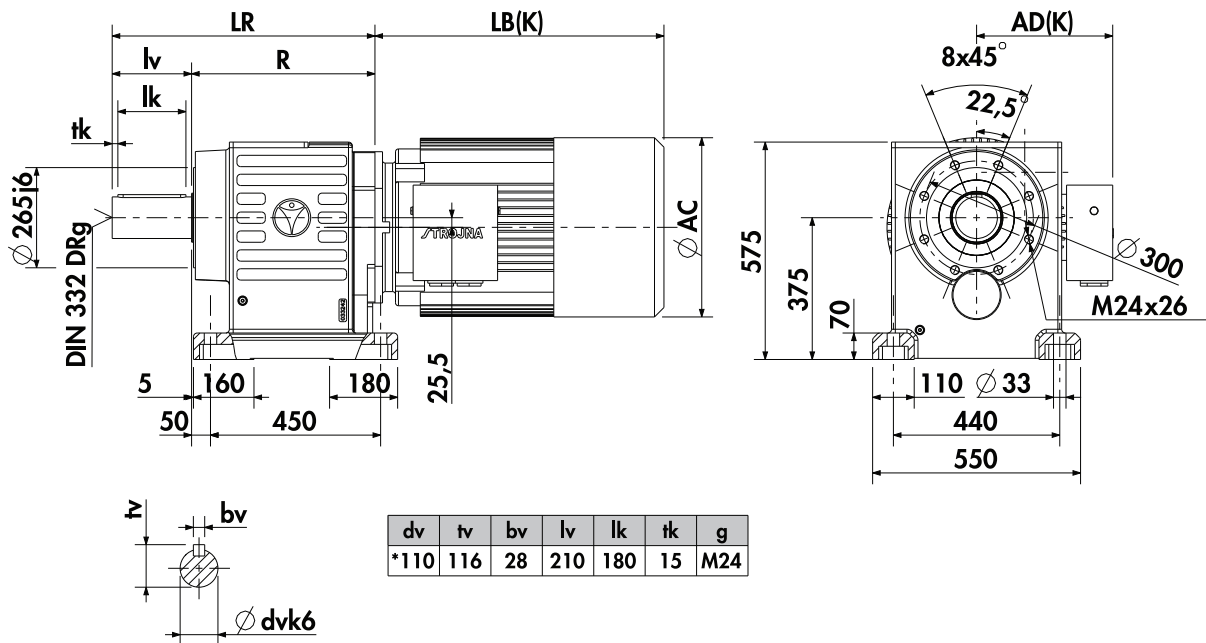


DIN42948	P	N	M	T	B	S
A550	550	450	500	5	71	18

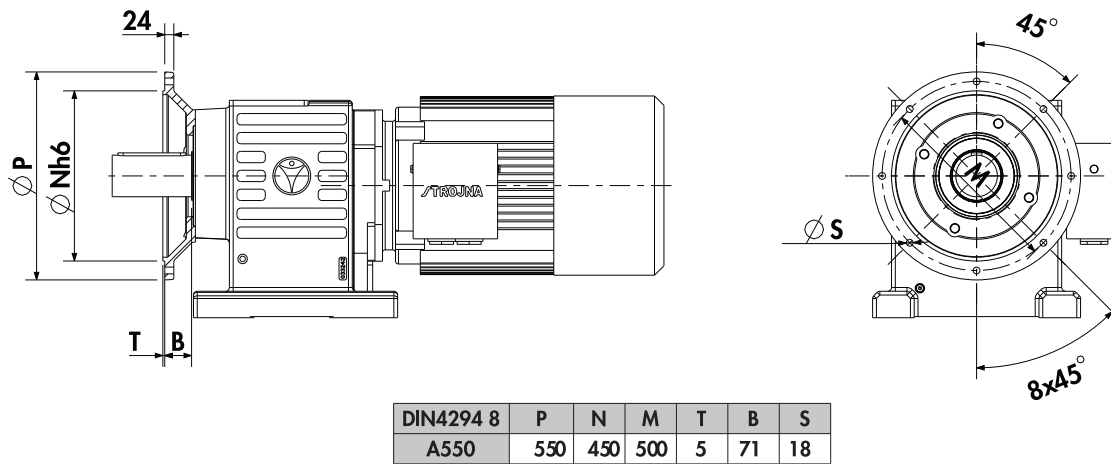
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132M α	160M	160L	180M	180L	200L	225S	225M	250M
LB	207	223	251	276	301	329	334											
AD	97	105	110	121	121	157	169											
LBK	260	280	311	360	385	418	434											
ADK	125	137	147	164	164	174	199											
AC	125	140	154	170	170	193	216											
R	543	543	543	543	543	547	547											
LR	713	713	713	713	713	717	717											

* Standard

ZG122V...SMB/SMR



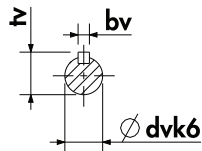
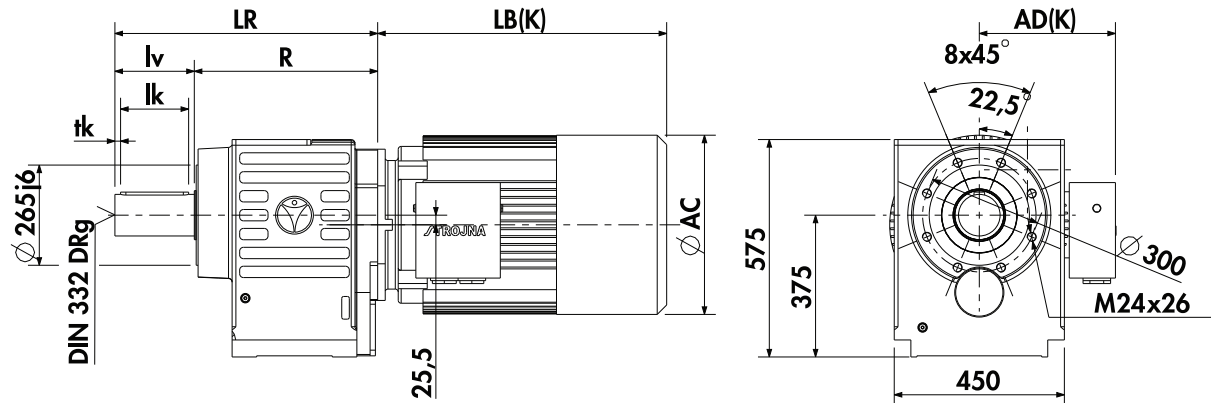
ZG122P/V...SMB/SMR



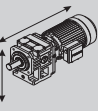
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Ma	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
LB											489	533	554	592	658	667	702	778		
AD											246	246	260	260	299	337	337	360		
LBK											611	655	739	777	828	848	873	968		
ADK											246	246	260	260	299	337	337	400		
AC											285	285	323	323	369	418	418	474		
R											480	480	480	480	480	480	480	485		
LR											690	690	690	690	690	690	690	695		

* Standard

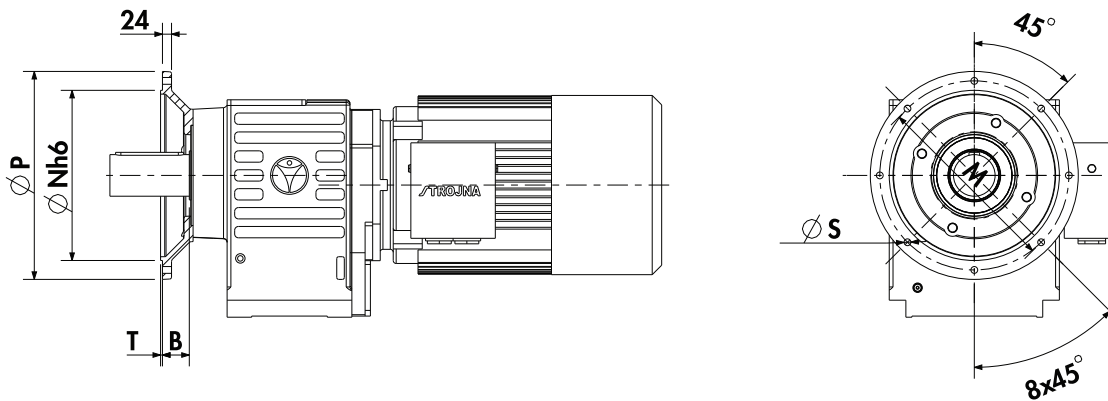
ZG122FV...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*110	116	28	210	180	15	M24



ZG122FP/V...SMB/SMR

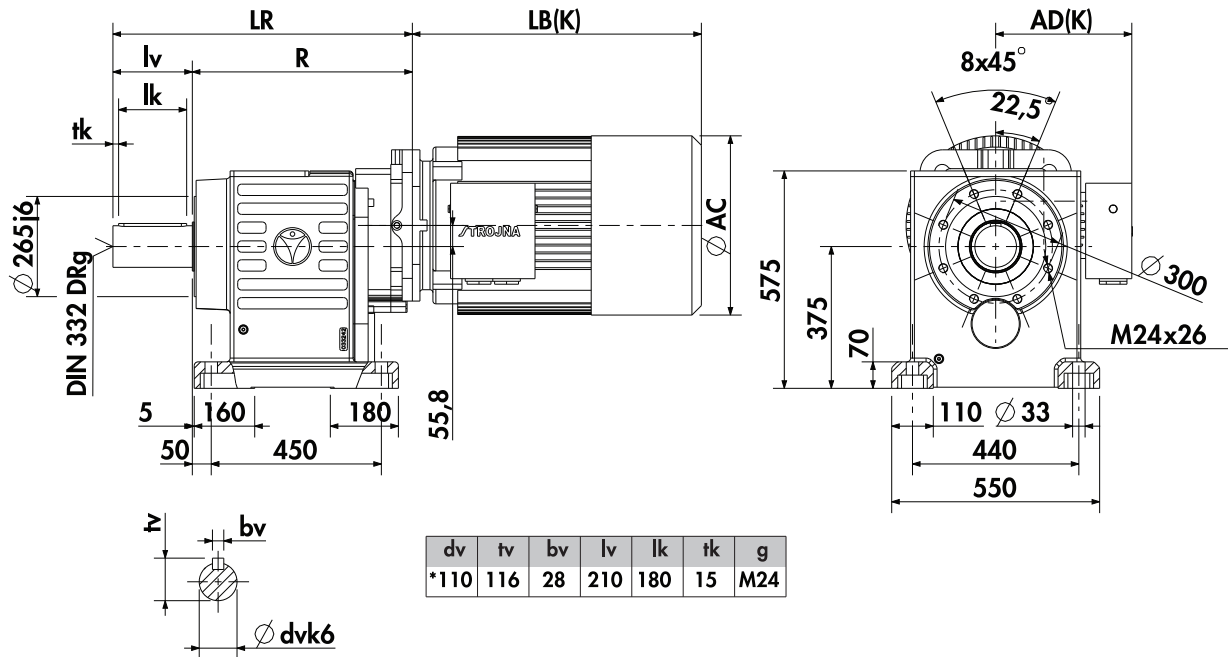


DIN4294 8	P	N	M	T	B	S
A550	550	450	500	5	71	18

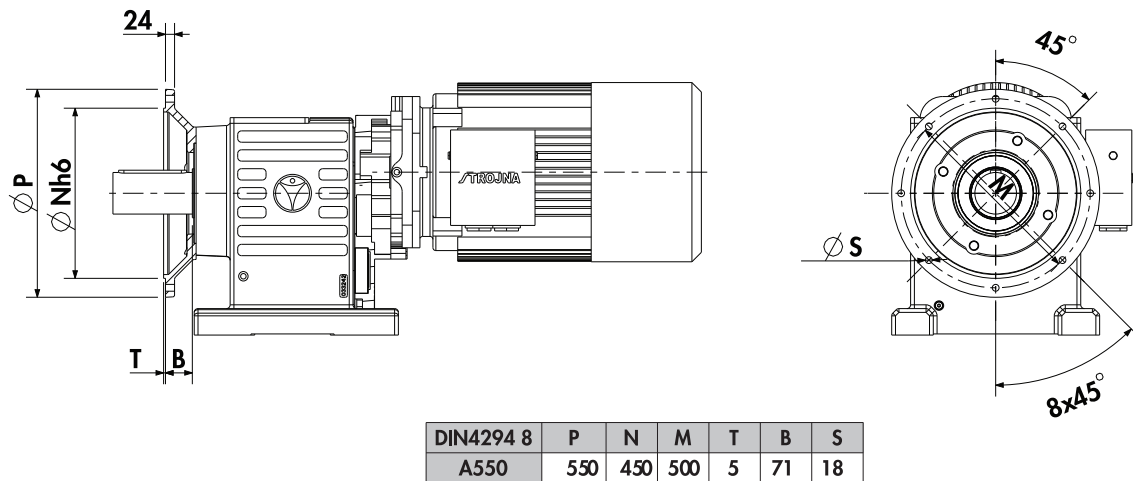
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Mc	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
LB											489	533	554	592	658	667	702	778		
AD											246	246	260	260	299	337	337	360		
LBK											611	655	739	777	828	848	873	968		
ADK											246	246	260	260	299	337	337	400		
AC											285	285	323	323	369	418	418	474		
R											480	480	480	480	480	480	480	485		
LR											690	690	690	690	690	690	690	695		

* Standard

ZG123V...SMB/SMR



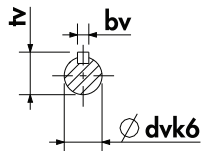
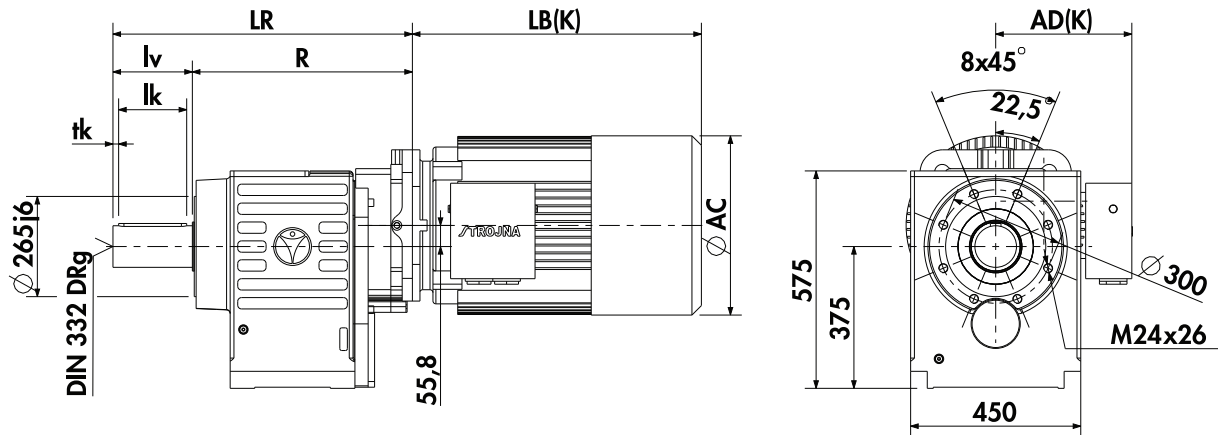
ZG123P/V...SMB/SMR



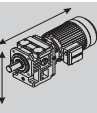
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Ma	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
LB								377	415	415	489	533	554	592	658	667	702	778		
AD								190	190	190	246	246	260	260	299	337	337	360		
LBK								492	532	532	611	655	739	777	828	848	873	968		
ADK								183	183	183	246	246	260	260	299	337	337	400		
AC								247	247	247	285	285	323	323	369	418	418	474		
R								556	556	556	567	567	567	567	580	580	580	582		
LR								766	766	766	775	775	775	775	790	790	790	792		

* Standard

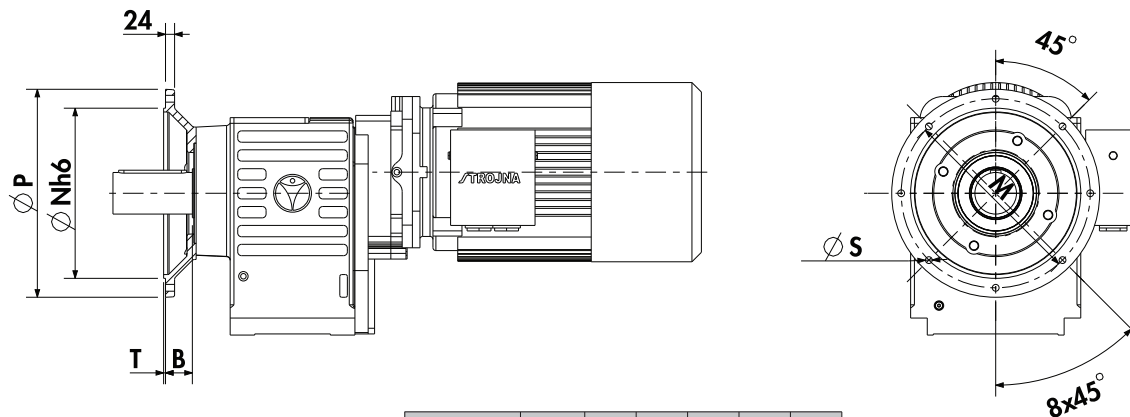
ZG123FV...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*110	116	28	210	180	15	M24



ZG123FP/V...SMB/SMR

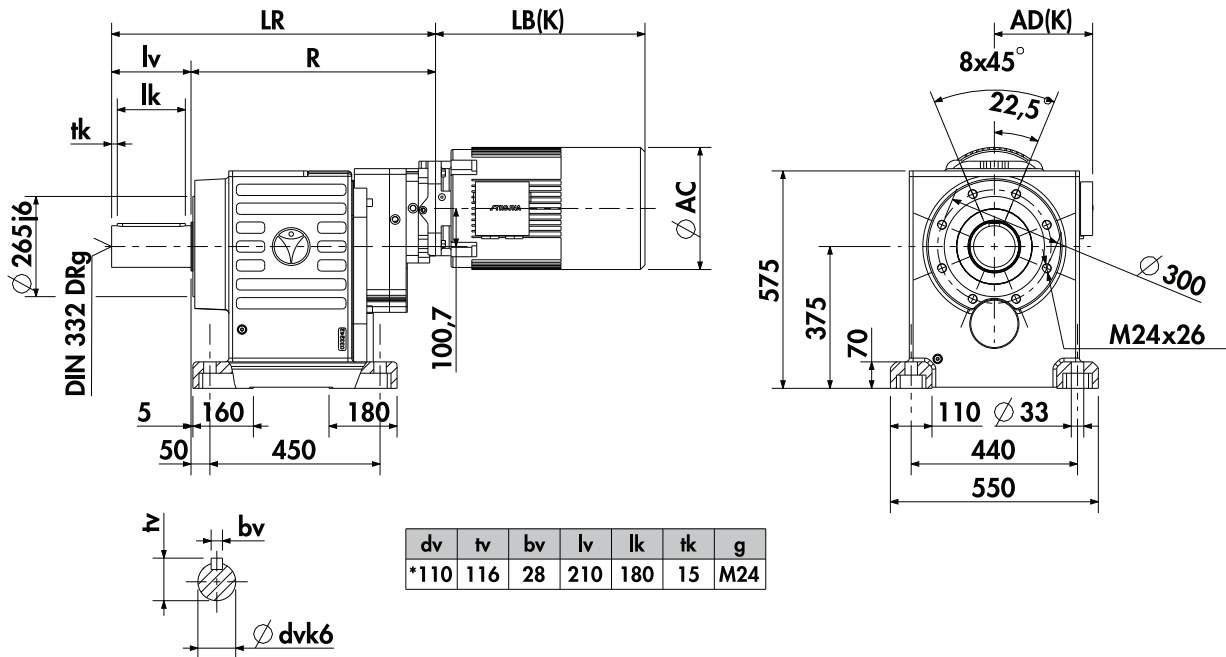


DIN4294 8	P	N	M	T	B	S
A550	550	450	500	5	71	18

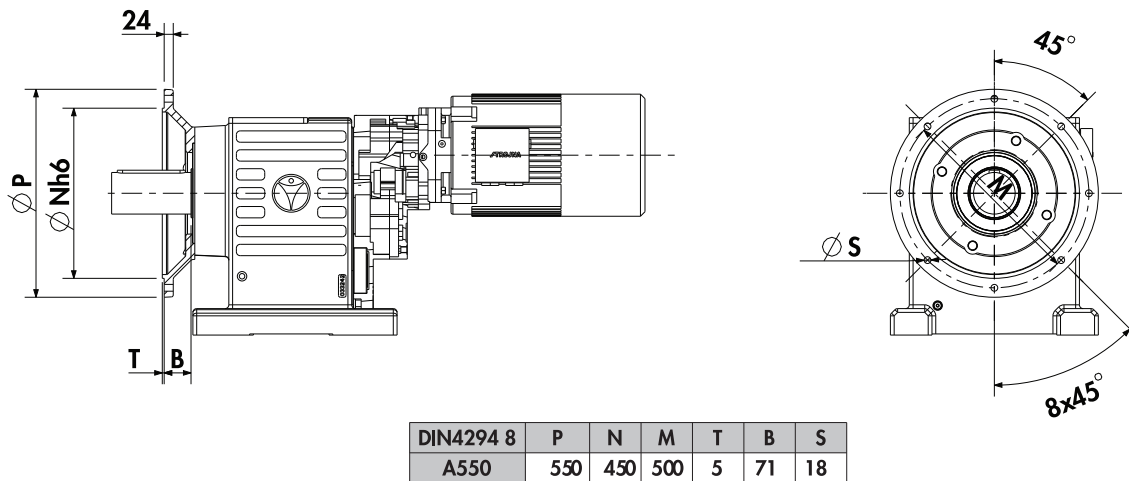
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Ma	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
LB								377	415	415	489	533	554	592	658	667	702	778		
AD								190	190	190	246	246	260	260	299	337	337	360		
LBK								492	532	532	611	655	739	777	828	848	873	968		
ADK								183	183	183	246	246	260	260	299	337	337	400		
AC								247	247	247	285	285	323	323	369	418	418	474		
R								556	556	556	567	567	567	567	580	580	580	582		
LR								766	766	766	775	775	775	775	790	790	790	792		

* Standard

ZG124V...SMB/SMR



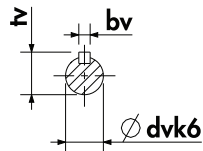
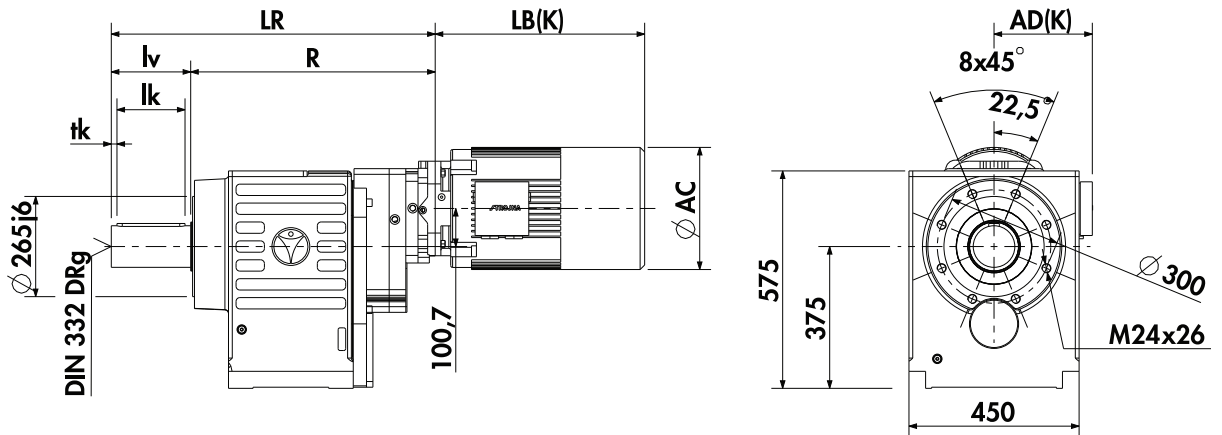
ZG124P/V...SMB/SMR



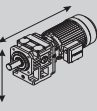
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Mα	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	
LB				276	301	329	334	377	415	415	489	533	554	592							
AD				121	121	157	169	190	190	190	246	246	260	260							
LBK				360	385	418	434	492	532	532	611	655	739	777							
ADK				164	164	174	199	183	183	183	246	246	260	260							
AC				170	170	193	216	247	247	247	285	285	323	323							
R				621	621	625	625	638	638	638	647	647	647	647							
LR				831	831	835	835	848	848	848	857	857	857	857							

* Standard

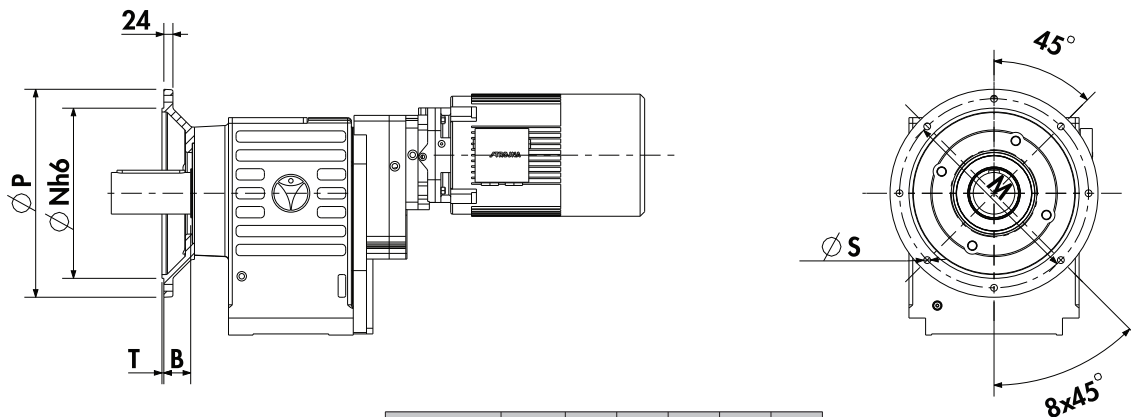
ZG124FV...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*110	116	28	210	180	15	M24



ZG124FP/V...SMB/SMR

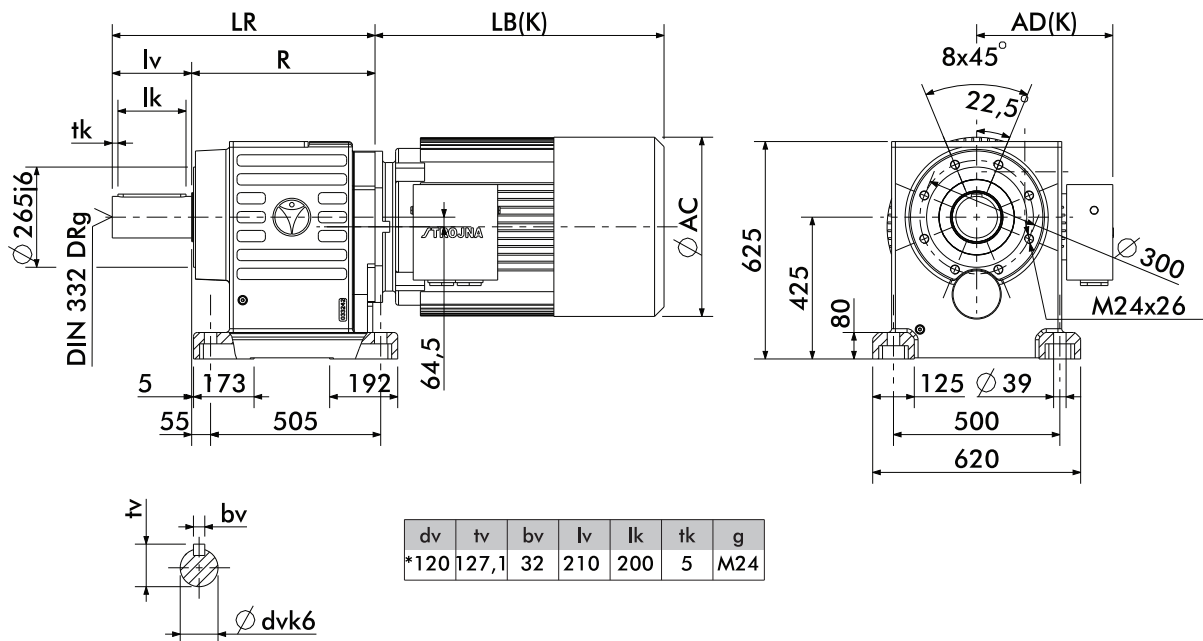


DIN4294 8	P	N	M	T	B	S
A550	550	450	500	5	71	18

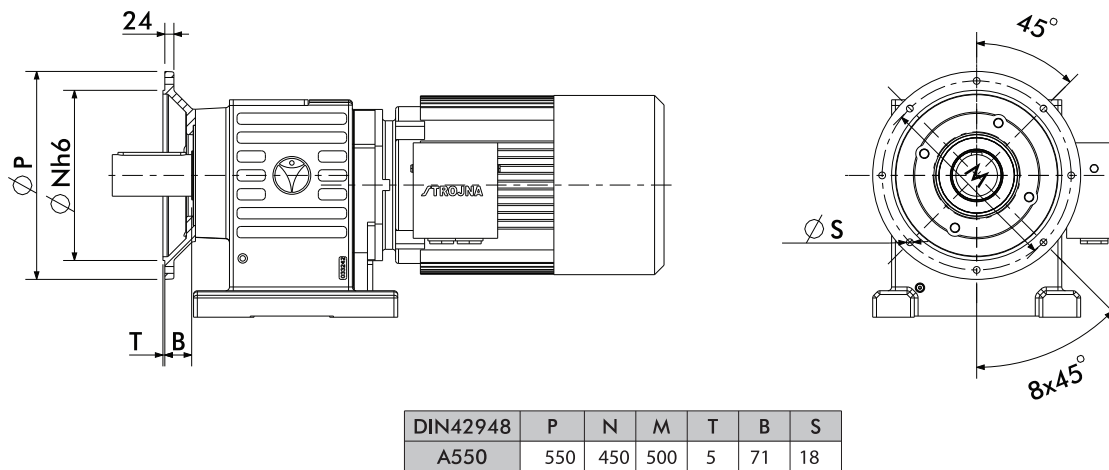
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Ma	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	
LB				276	301	329	334	377	415	415	489	533	554	592							
AD				121	121	157	169	190	190	190	246	246	260	260							
LBK				360	385	418	434	492	532	532	611	655	739	777							
ADK				164	164	174	199	183	183	183	246	246	260	260							
AC				170	170	193	216	247	247	247	285	285	323	323							
R				621	621	625	625	638	638	638	647	647	647	647							
LR				831	831	835	835	848	848	848	857	857	857	857							

* Standard

ZG132V...SMB/SMR



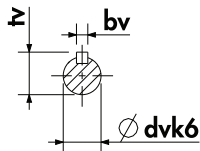
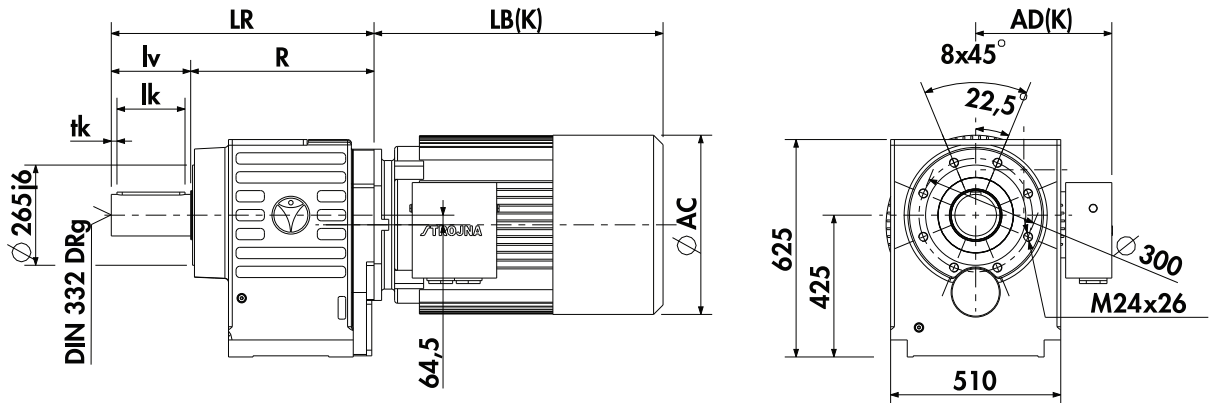
ZG132P/V...SMB/SMR



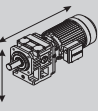
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Mc	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
LB											489	533	554	592	658	667	702	778		
AD											246	246	260	260	299	337	337	360		
LBK											611	655	739	777	828	848	873	968		
ADK											246	246	260	260	299	337	337	400		
AC											285	285	323	323	369	418	418	474		
R											544	544	544	544	544	544	544	549		
LR											754	754	754	754	754	754	754	759		

* Standard

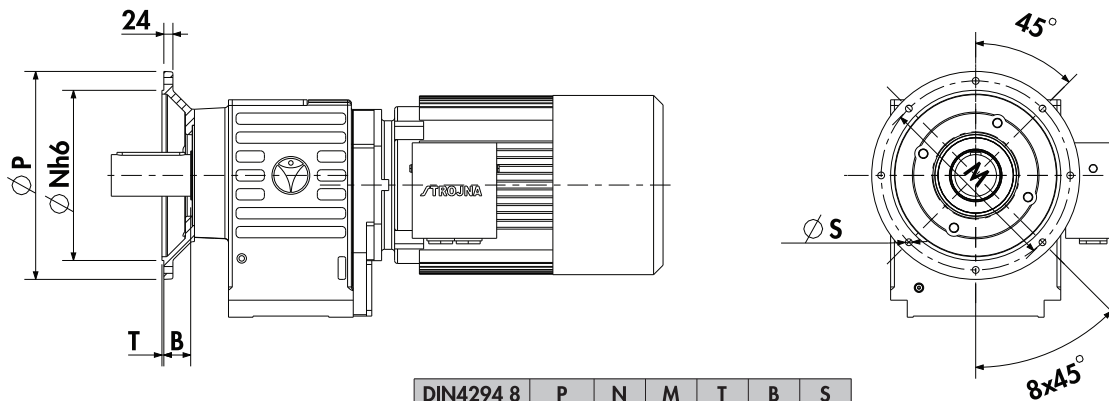
ZG132FV...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*120	127,1	32	210	200	5	M24



ZG132FP/V...SMB/SMR

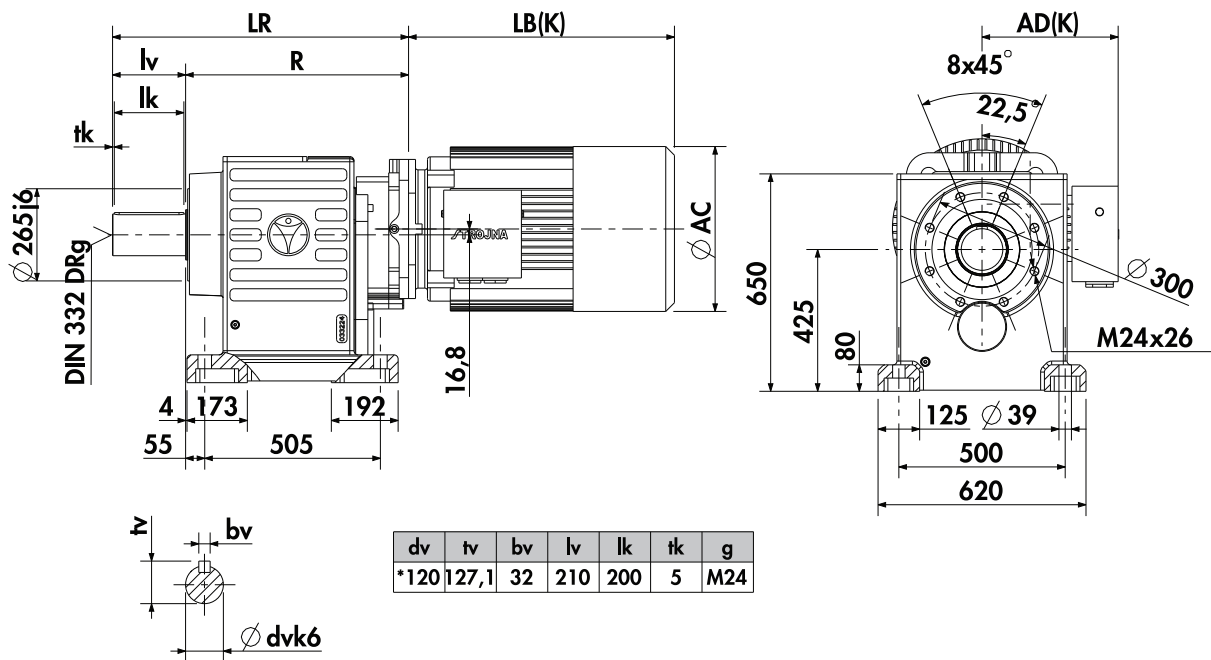


DIN4294 8	P	N	M	T	B	S
A550	550	450	500	5	71	18

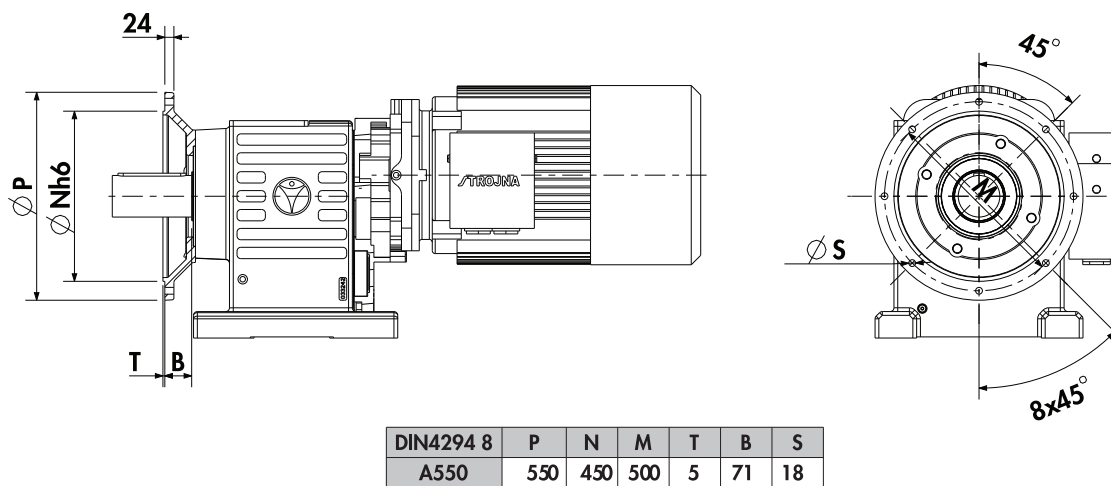
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Ma	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
LB											489	533	554	592	658	667	702	778		
AD											246	246	260	260	299	337	337	360		
LBK											611	655	739	777	828	848	873	968		
ADK											246	246	260	260	299	337	337	400		
AC											285	285	323	323	369	418	418	474		
R											544	544	544	544	544	544	544	549		
LR											754	754	754	754	754	754	754	759		

* Standard

ZG133V...SMB/SMR



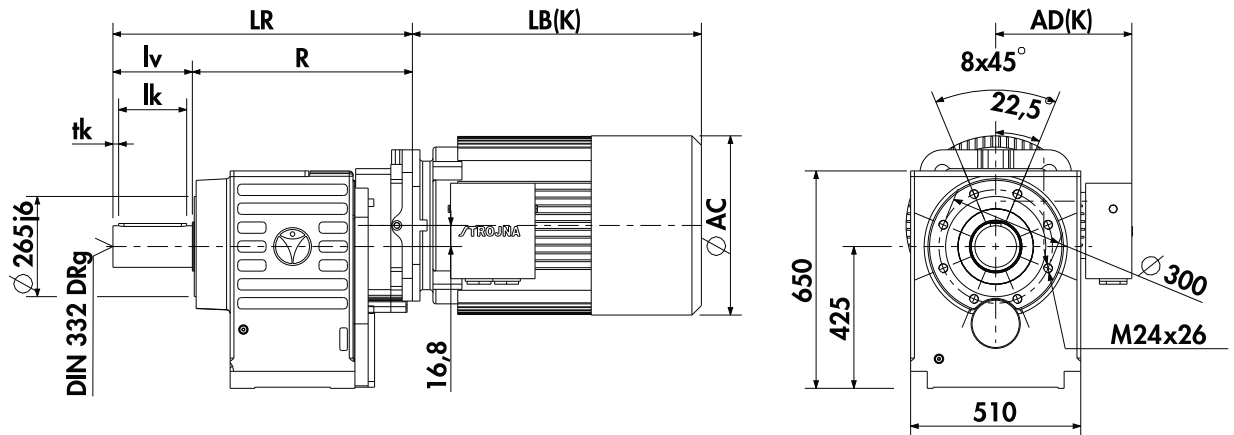
ZG133P/V...SMB/SMR



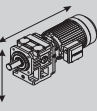
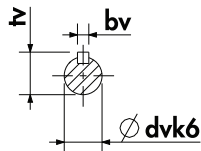
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132M α	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
LB								377	415	415	489	533	554	592	658	667	702	778		
AD								190	190	190	246	246	260	260	299	337	337	360		
LBK								492	532	532	611	655	739	777	828	848	873	968		
ADK								183	183	183	246	246	260	260	299	337	337	400		
AC								247	247	247	285	285	323	323	369	418	418	474		
R								617	617	617	626	626	626	626	641	641	641	643		
LR								827	827	827	836	836	836	836	851	851	851	853		

* Standard

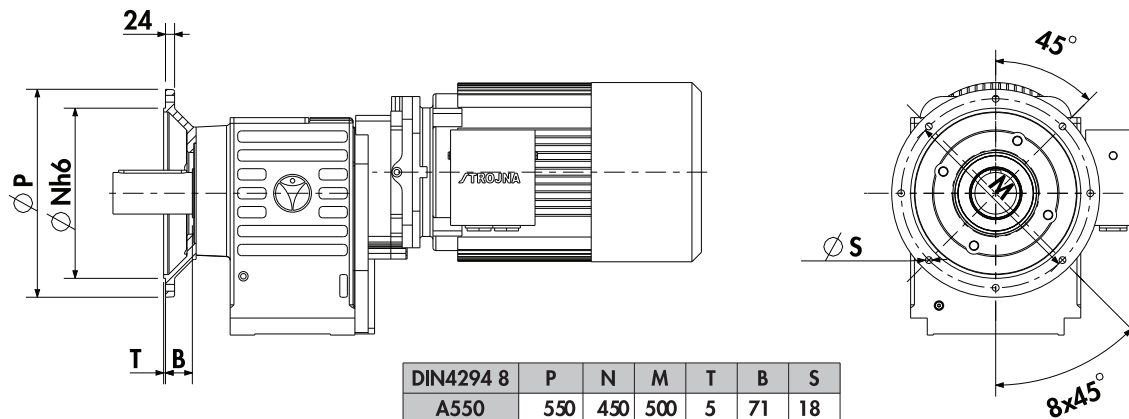
ZG133FV...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*120	127,1	32	210	200	5	M24



ZG133FP/V...SMB/SMR

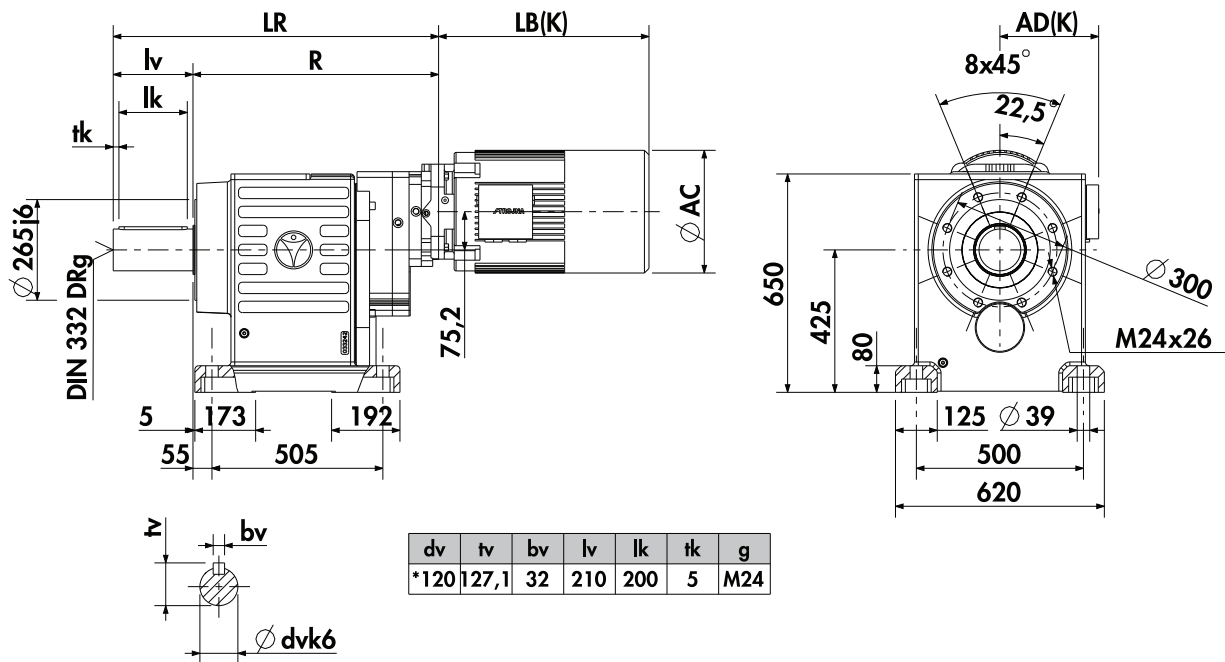


DIN4294 8	P	N	M	T	B	S
A550	550	450	500	5	71	18

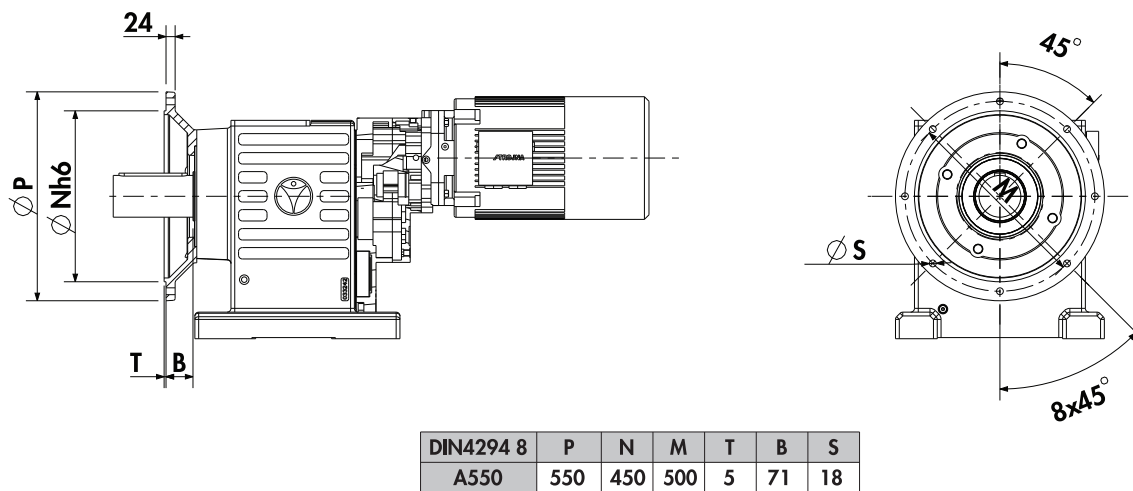
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Mc	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
LB								377	415	415	489	533	554	592	658	667	702	778		
AD								190	190	190	246	246	260	260	299	337	337	360		
LBK								492	532	532	611	655	739	777	828	848	873	968		
ADK								183	183	183	246	246	260	260	299	337	337	400		
AC								247	247	247	285	285	323	323	369	418	418	474		
R								617	617	617	626	626	626	626	641	641	641	643		
LR								827	827	827	836	836	836	836	851	851	851	853		

* Standard

ZG134V...SMB/SMR



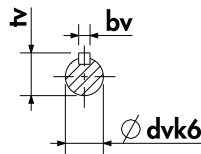
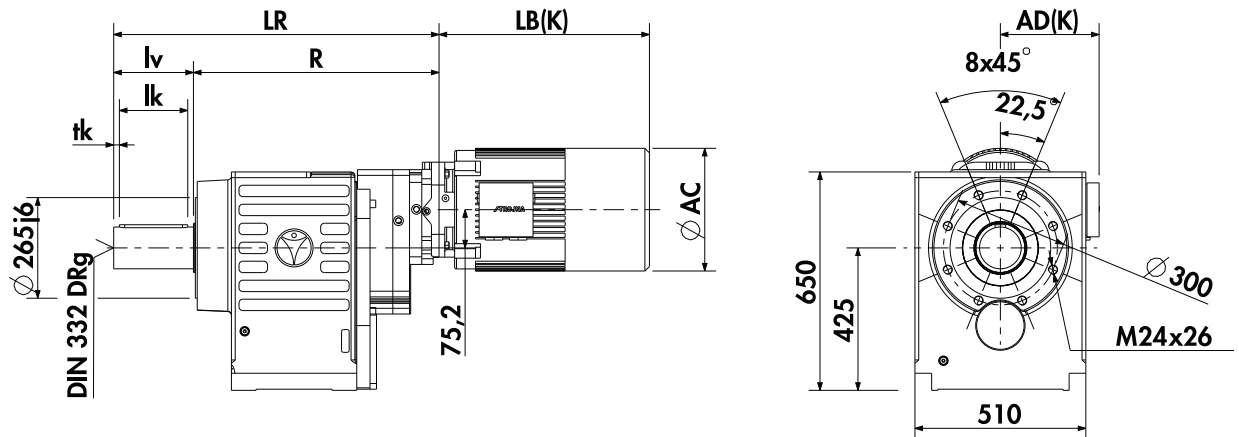
ZG134P/V...SMB/SMR



SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Ma	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	
LB				276	301	329	334	377	415	415	489	533	554	592							
AD				121	121	157	169	190	190	190	246	246	260	260							
LBK				360	385	418	434	492	532	532	611	655	739	777							
ADK				164	164	174	199	183	183	183	246	246	260	260							
AC				170	170	193	216	247	247	247	285	285	323	323							
R				679	679	683	683	696	696	696	705	705	705	705							
LR				889	889	893	893	906	906	906	915	915	915	915							

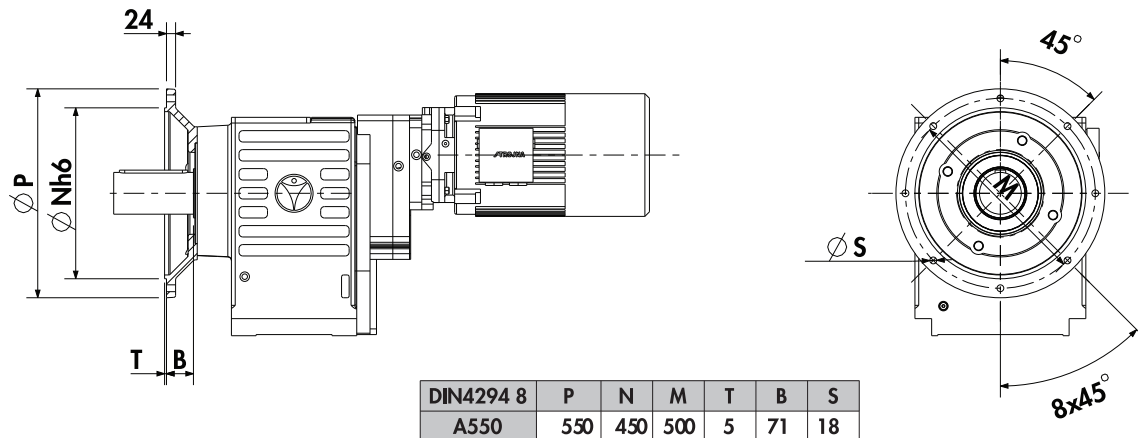
* Standard

ZG134FV...SMB/SMR



dv	tv	bv	lv	lk	tk	g
*120	127,1	32	210	200	5	M24

ZG134FP/V...SMB/SMR



DIN4294 8	P	N	M	T	B	S
A550	550	450	500	5	71	18

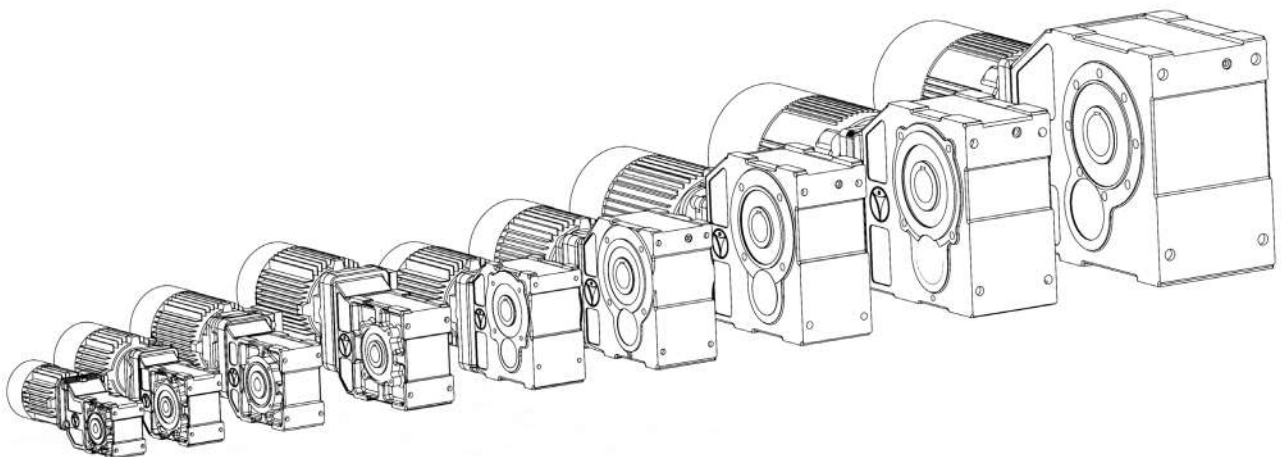
SMB/SMR	63	71	80	90S	90L	100	112M	132S	132M	132Ma	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	
LB				276	301	329	334	377	415	415	489	533	554	592							
AD				121	121	157	169	190	190	190	246	246	260	260							
LBK				360	385	418	434	492	532	532	611	655	739	777							
ADK				164	164	174	199	183	183	183	246	246	260	260							
AC				170	170	193	216	247	247	247	285	285	323	323							
R				679	679	683	683	696	696	696	705	705	705	705							
LR				889	889	893	893	906	906	906	915	915	915	915							

* Standard

KG

HELICAL BEVEL GEAR UNITS

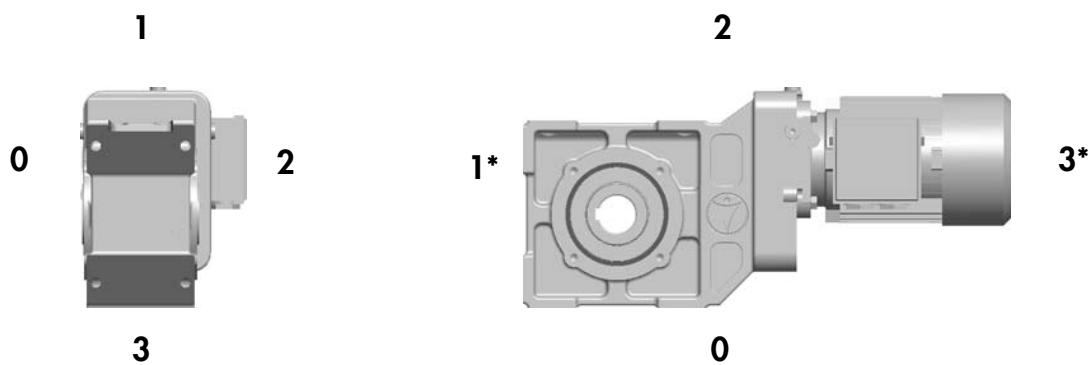
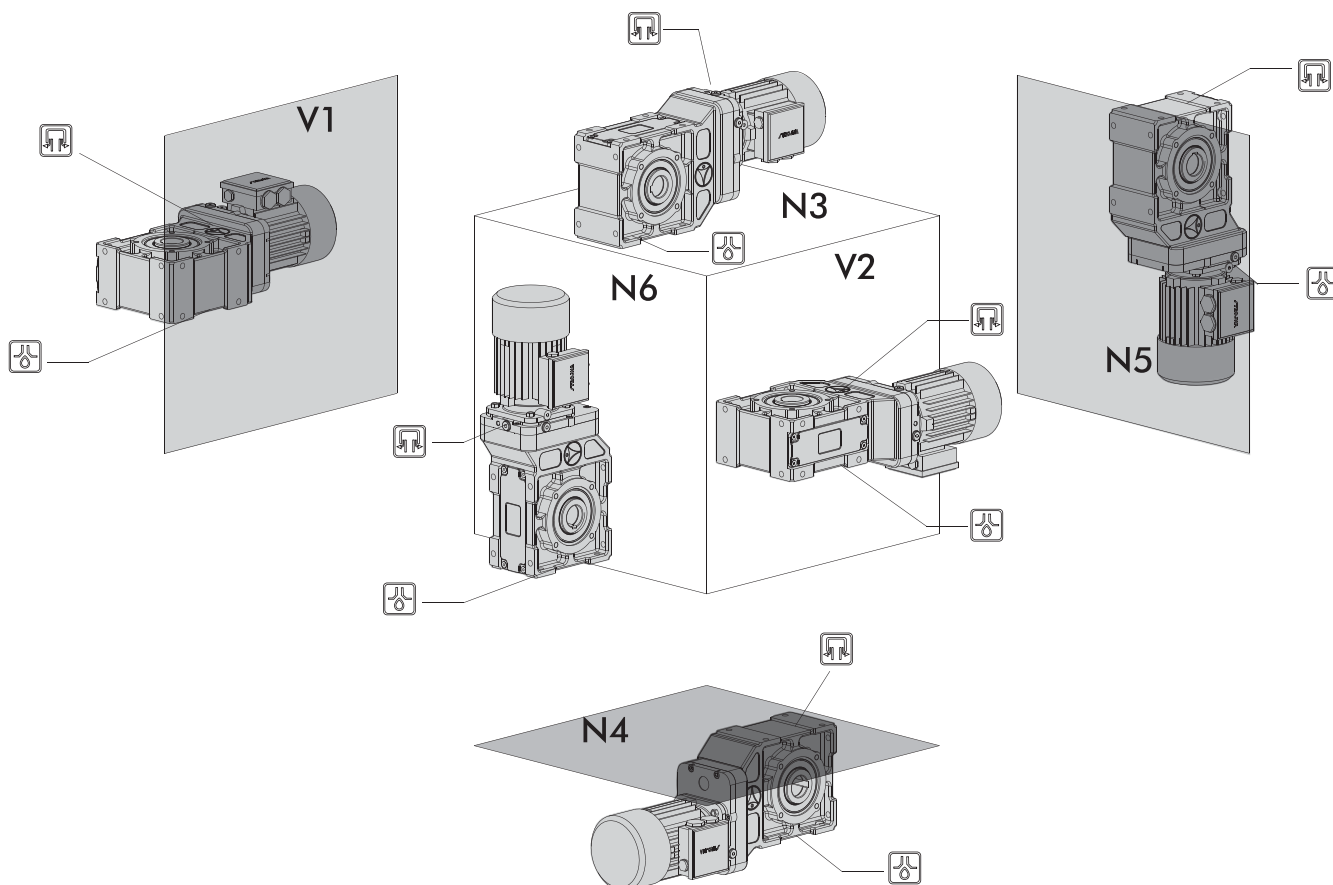
Power: 0,12 kW - 55 kW
Torque: 95 - 13.500 Nm
Ratio: 6,7 - 8158



Mounting positions KG

 Vent plug

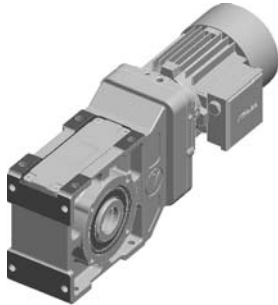
 Drain plug



*Check for availability

Gear unit design

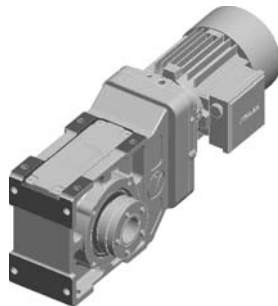
KG...SMB/SMR



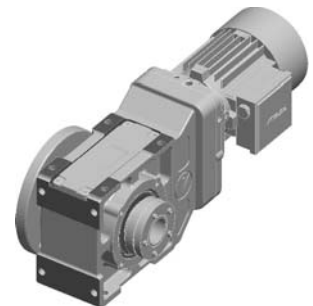
KG...P...



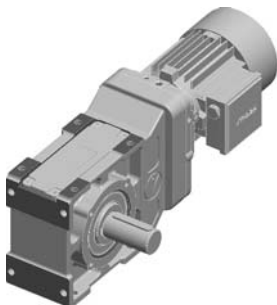
KG...D...



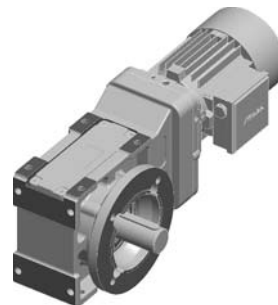
KG...PD...



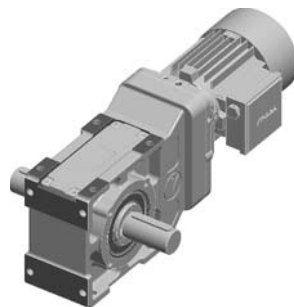
KG...V...



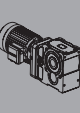
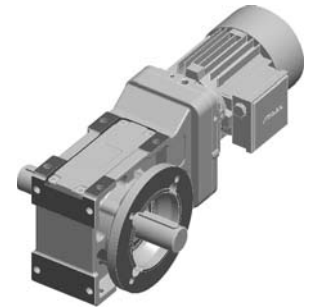
KG...PV...

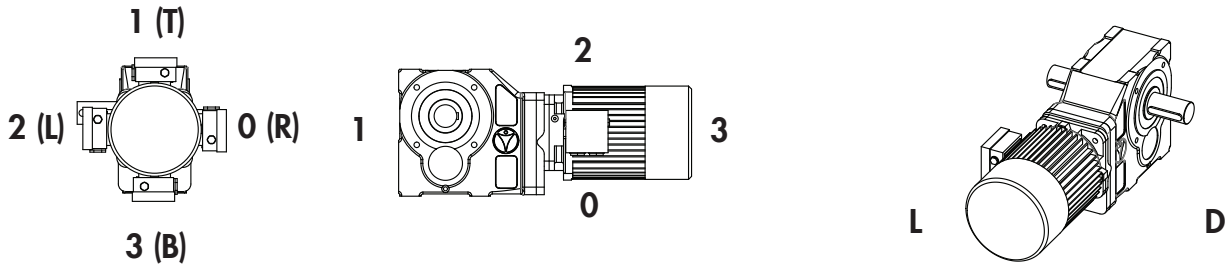


KG...Z...

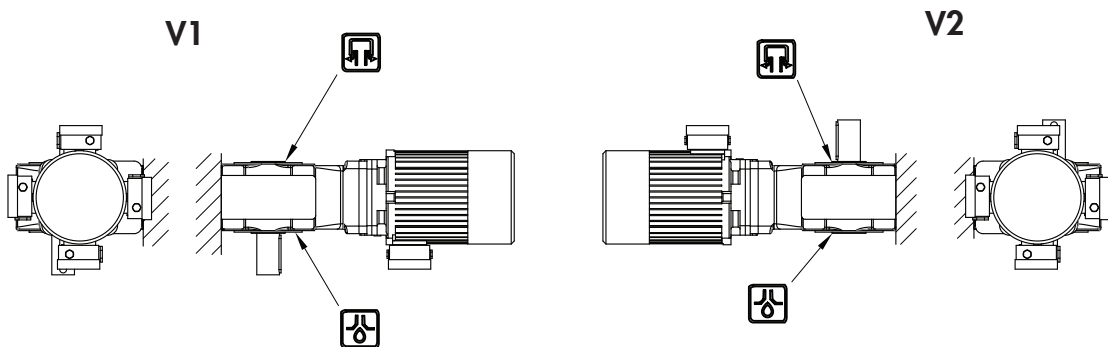
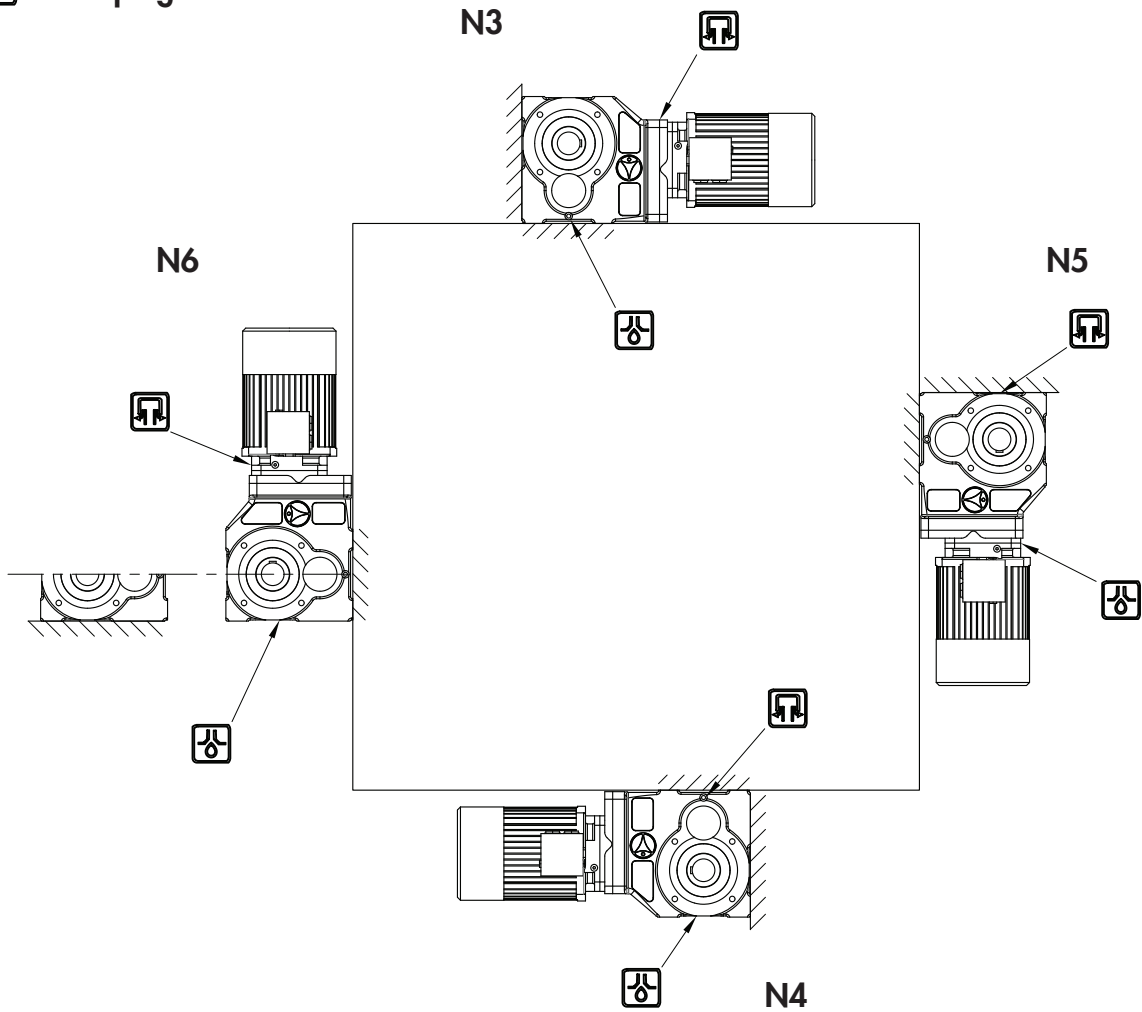


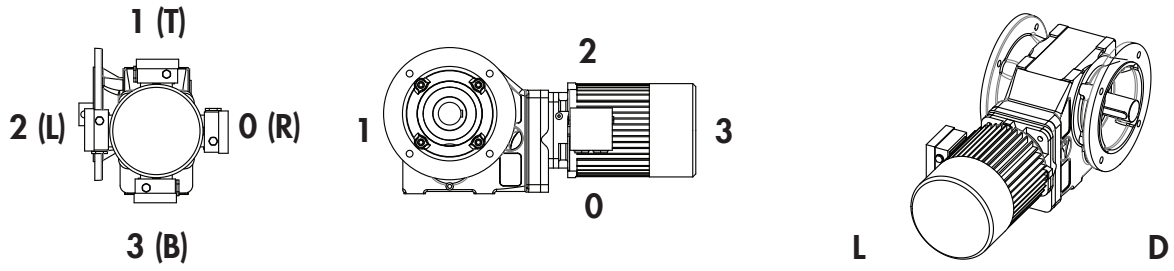
KG...PZ...



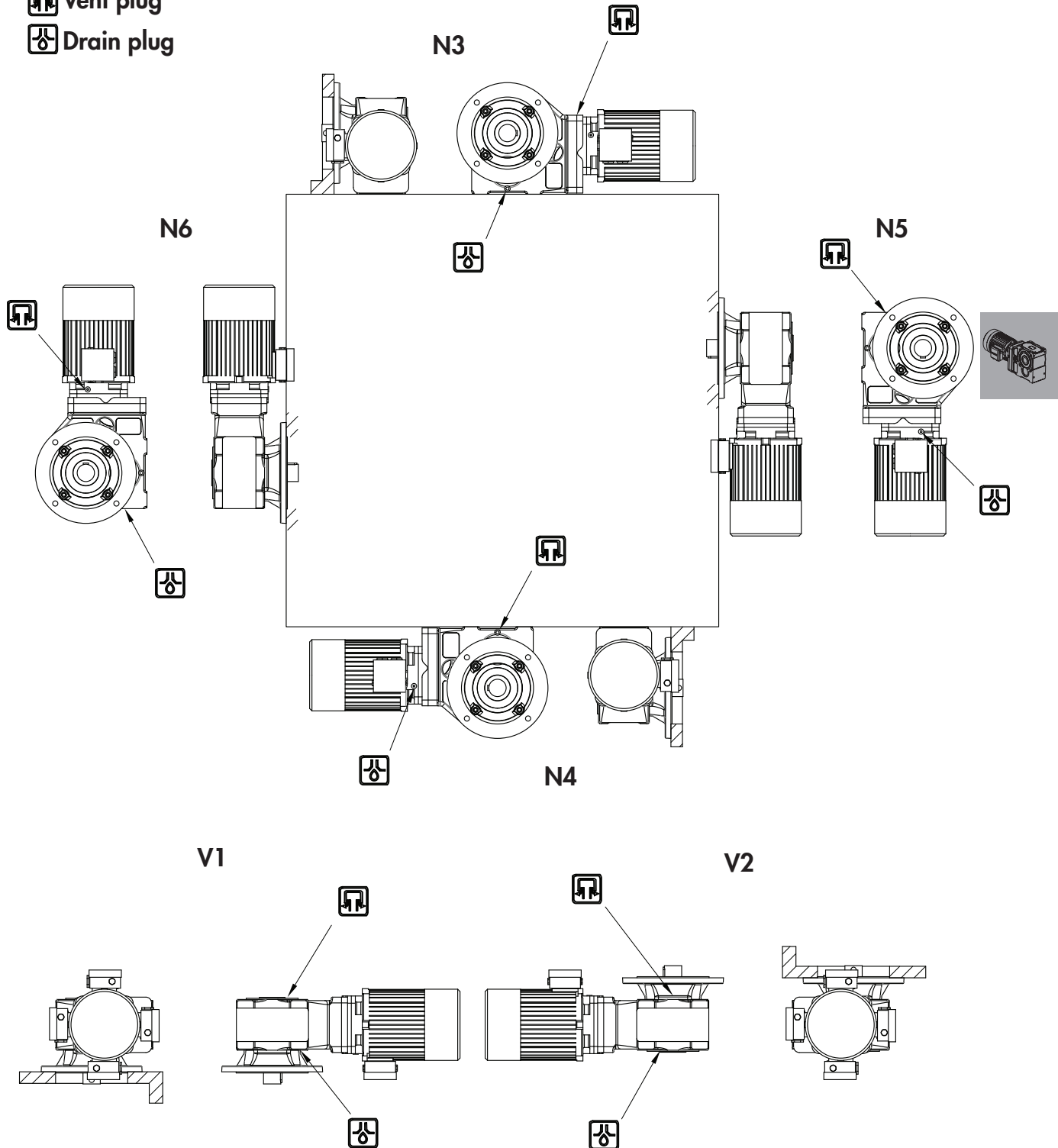


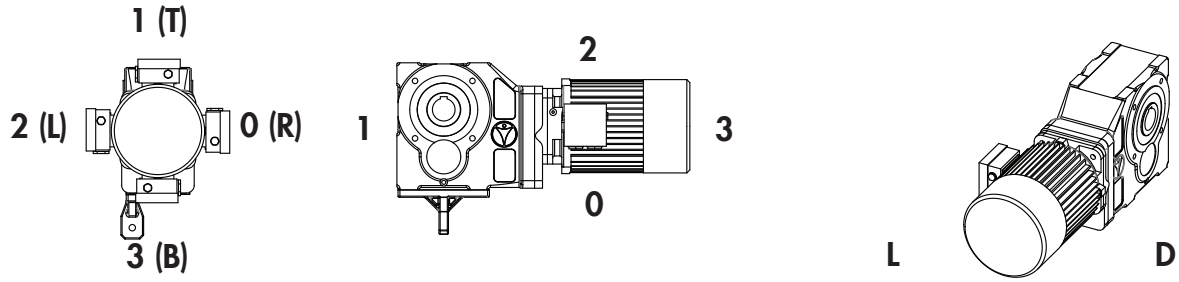
-  Vent plug
-  Drain plug



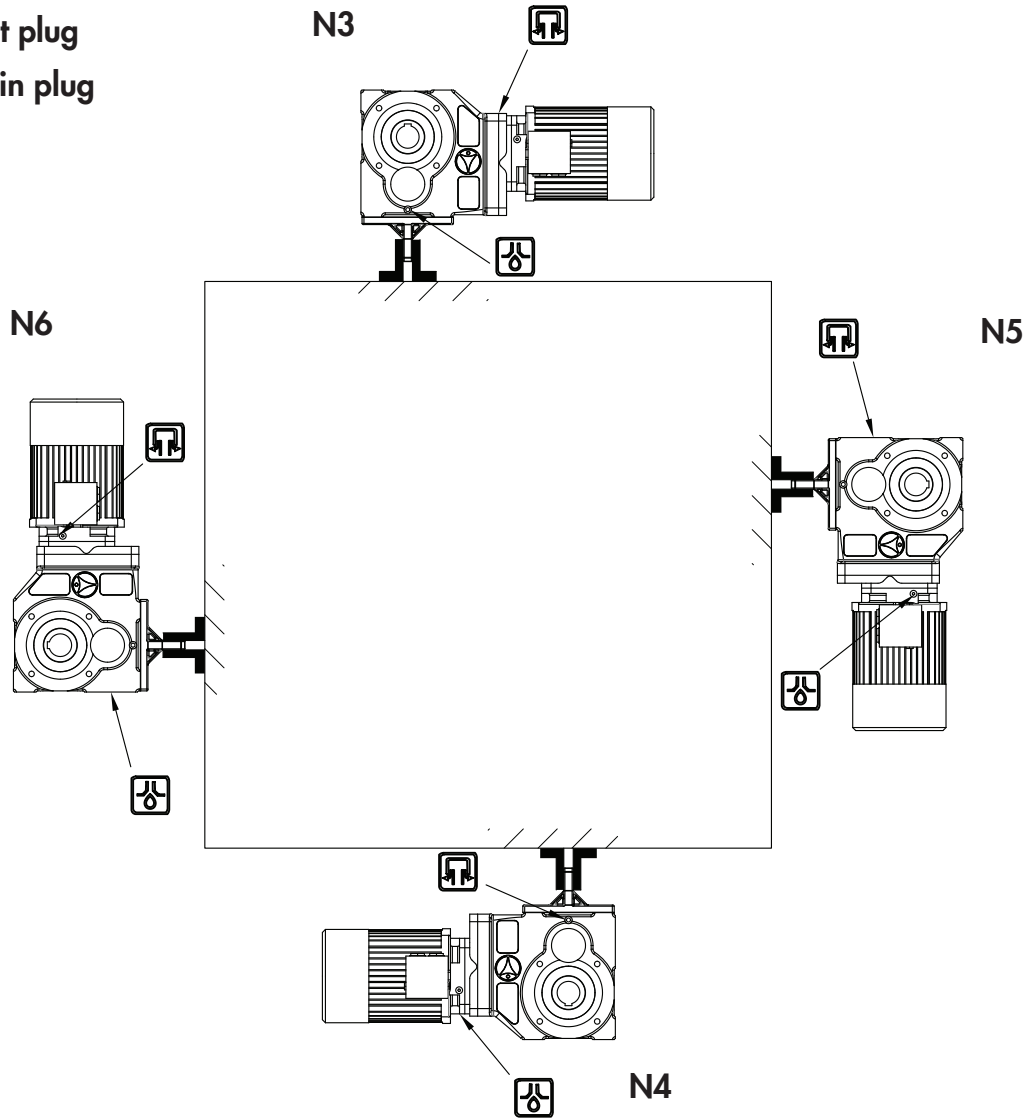


-  Vent plug
-  Drain plug



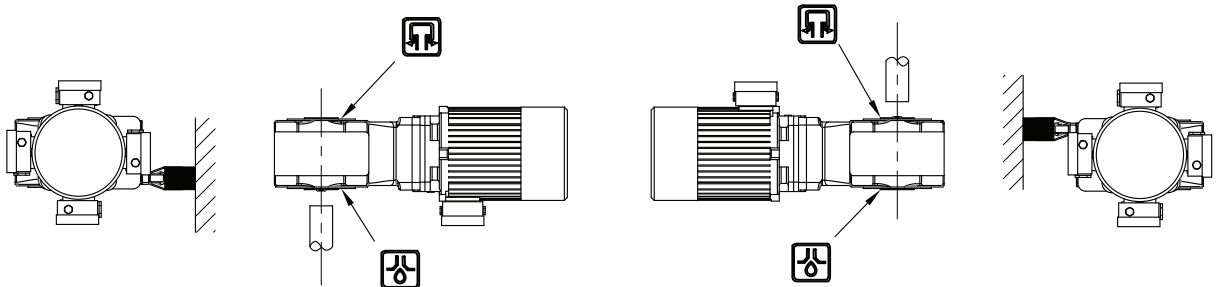


-  Vent plug
-  Drain plug

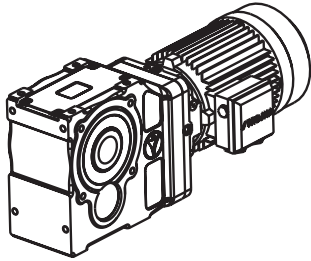


V1

V2



Structure of selection tables



KG

HELICAL BEVEL GEAR UNITS

Gear unit type
Motor frame size

KG12															
Mt _{2max} [Nm]	(F _r =0)	(F _r =0)	j _t [']	i	IEC/SMB/SMR										
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225
210	7,1	7,3	8,9	94,16											

→ Total ratio
→ Backlash

→ Permissible radial load
→ Permissible axial load

→ Permissible output torque

KG12																
Mt _{zmax} [Nm]	(F) Fa [kN]	(F) Fr [kN]	j [°]	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
95	7,30	3,40	6,20	66,23												
95	7,30	3,40	6,20	58,85												
95	7,30	3,40	6,40	54,19												
95	7,30	3,40	6,40	49,05												
95	7,30	3,40	6,40	43,53												
95	7,30	3,50	6,60	37,73												
94	7,30	3,50	6,60	33,95												
91	7,30	3,50	6,60	30,76												
88	7,30	3,50	6,60	28,03												
85	7,30	3,50	6,60	25,15												
84	7,30	3,60	6,60	23,80												
81	7,30	3,60	6,70	20,75												
77	7,30	3,70	6,80	17,92												
74	7,30	3,70	6,80	15,98												
71	7,30	3,80	6,80	14,25												
69	7,30	3,80	7,00	12,83												
67	7,30	3,80	7,00	11,90												
63	7,30	3,80	7,00	10,24												
59	7,30	3,90	7,20	8,52												
58	7,30	3,90	7,20	7,55												

KG23																
Mt _{zmax} [Nm]	(F) Fa [kN]	(F) Fr [kN]	j [°]	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
210	11,60	10,90	5,50	262,64												
210	11,60	10,90	5,50	237,71												
210	11,60	10,90	5,50	210,98												
210	11,60	10,90	5,50	182,85												
210	11,60	10,90	5,50	164,57												
210	11,60	10,90	5,50	149,09												
210	11,60	10,90	5,50	135,83												
210	11,60	10,90	5,50	121,90												
210	11,60	10,90	5,50	115,34												
210	11,60	10,90	5,70	100,57												
210	11,60	10,90	5,70	86,85												
210	11,60	10,90	5,70	77,44												
210	11,60	10,90	5,70	69,08												
210	11,60	10,90	5,70	62,17												
210	11,60	10,90	5,70	57,67												
210	11,60	10,90	5,70	49,63												
210	11,60	10,90	5,70	41,29												
210	11,60	10,90	5,70	36,57												

KG22																
Mt _{2max} [Nm]	(F) Fa [kN]	(F) Fr [kN]	j [°]	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
210	11,60	10,90	5,30	75,90												
210	11,60	10,90	5,60	67,62												
210	11,60	10,90	5,60	60,85												
210	11,60	10,90	5,60	56,35												
210	11,60	10,90	5,60	51,48												
210	11,60	10,90	5,60	43,91												
210	11,60	10,90	5,80	39,68												
210	11,60	10,90	5,80	36,09												
210	11,60	10,90	5,80	33,02												
210	11,60	10,90	5,90	31,05												
210	11,60	10,90	5,90	28,13												
210	11,60	10,40	5,90	24,73												
210	11,60	9,80	5,90	21,56												
210	11,60	9,50	5,90	19,89												
209	11,60	9,30	6,00	18,40												
200	11,60	8,90	6,00	15,87												
198	11,60	8,70	6,00	15,13												
191	11,60	8,40	6,00	13,55												
180	11,60	7,90	6,20	11,57												
173	11,60	7,50	6,20	9,94												
165	11,60	7,20	6,40	8,58												
156	11,60	7,00	6,40	7,07												



KG33																
Mt _{2max} [Nm]	(F) Fa [kN]	(F) Fr [kN]	j [°]	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
420	11,60	13,10	4,40	488,36												
420	11,60	13,10	4,40	433,96												
420	11,60	13,10	4,40	399,57												
420	11,60	13,10	4,40	361,64												
420	11,60	13,10	4,40	320,98												
420	11,60	13,10	4,40	278,18												
420	11,60	13,10	4,40	250,36												
420	11,60	13,10	4,40	226,83												
420	11,60	13,10	4,40	206,65												
420	11,60	13,00	4,40	185,45												
420	11,60	13,00	4,60	175,47												
420	11,60	13,00	4,60	153,00												
420	11,60	13,00	4,60	132,14												
420	11,60	13,00	4,60	117,82												
420	11,60	13,00	4,60	105,09												
420	11,60	13,00	4,60	94,58												
420	11,60	13,00	4,60	87,73												
420	11,60	13,00	4,60	75,51												
420	11,60	13,00	4,60	62,82												
420	11,60	13,00	4,60	55,64												

KG32																
Mt _{zmax} [Nm]	(F) Fa [kN]	(F) Fr [kN]	j [°]	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
420	11,60	13,20	4,60	76,17												
420	11,60	13,20	4,60	69,27												
420	11,60	13,20	4,60	64,45												
420	11,60	13,10	4,60	55,34												
420	11,60	13,10	4,60	50,18												
420	11,60	13,10	4,60	46,83												
420	11,60	13,10	4,60	42,55												
420	11,60	13,10	4,70	38,73												
420	11,60	13,10	4,70	35,24												
420	11,60	13,00	4,70	31,09												
420	11,60	13,00	4,70	28,23												
420	11,60	13,00	4,80	25,80												
420	11,60	12,90	4,90	24,36												
420	11,60	12,90	4,90	21,27												
420	11,60	12,80	4,90	18,91												
420	11,60	12,70	4,90	17,22												
402	11,60	12,30	5,00	14,96												
388	11,60	11,40	5,00	13,09												
369	11,60	10,90	5,20	10,83												
351	11,60	10,30	5,20	9,03												
333	11,60	9,90	5,20	7,57												
324	11,60	9,90	5,20	6,73												




KG44																
Mt _{zmax} [Nm]	(F) Fa [kN]	(F) Fr [kN]	j [°]	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
820	20,30	14,60	3,80	1045,13												
820	20,30	14,60	3,80	937,94												
820	20,30	14,60	3,80	887,43												
820	20,30	14,60	3,80	773,80												
820	20,30	14,60	3,80	668,28												
820	20,30	14,60	3,80	595,87												
820	20,30	14,60	3,80	531,50												
820	20,30	14,60	3,80	478,35												
820	20,30	14,60	3,80	443,72												
820	20,30	14,60	3,80	381,88												
820	20,30	14,60	3,80	317,69												
820	20,30	14,60	3,80	281,38												

KG43																
Mt _{zmax} [Nm]	(F) Fa [kN]	(F) Fr [kN]	j [°]	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
820	20,30	14,60	3,80	584,00												
820	20,30	14,60	3,80	520,29												
820	20,30	14,60	3,80	468,17												
820	20,30	14,60	3,80	433,58												
820	20,30	14,60	3,80	396,14												
820	20,30	14,60	3,80	337,85												
820	20,30	14,60	3,80	305,27												
820	20,30	14,60	3,80	277,71												
820	20,30	14,60	3,80	254,08												
820	20,30	14,60	3,80	238,91												
820	20,30	14,60	3,80	216,45												
820	20,30	14,60	3,80	190,24												
820	20,30	14,60	3,80	165,91												
820	20,30	14,60	3,80	153,03												
820	20,30	14,60	3,80	141,58												
820	20,30	14,60	3,80	122,11												
820	20,30	14,60	3,80	116,39												
820	20,30	14,60	3,80	104,29												
820	20,30	14,60	3,80	89,06												
820	20,30	14,60	3,80	76,51												
820	20,30	14,60	3,80	66,00												
820	20,30	14,60	3,80	54,39												



KG42																
Mt _{zmax} [Nm]	(F) Fa [kN]	(F) Fr [kN]	j [°]	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
820	20,30	14,90	3,80	71,19												
820	20,30	14,90	3,80	64,70												
820	20,30	14,90	3,80	59,22												
820	20,30	14,90	3,80	54,51												
820	20,30	14,90	3,80	49,77												
820	20,30	14,90	3,80	45,43												
820	20,30	14,80	3,90	40,92												
795	20,30	14,70	3,90	35,67												
784	20,30	14,60	3,90	33,57												
766	20,30	14,60	3,90	30,97												
747	20,30	14,50	4,00	27,87												
725	20,30	14,50	4,00	25,07												
711	20,30	14,20	4,10	23,40												
686	20,30	13,70	4,10	20,54												
655	20,30	13,00	4,10	18,18												
629	20,30	12,50	4,10	15,31												
605	18,40	11,70	4,10	13,04												
583	17,40	11,00	4,10	11,20												
561	16,40	10,40	4,20	9,67												
539	15,70	9,70	4,20	8,38												
511	15,70	9,70	4,20	6,95												

KG55																
Mt _{zmax} [Nm]	(F) Fa [kN]	(F) Fr [kN]	j [°]	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
1550	*	*	6,80	2061,63												
1550	*	*	6,80	1850,18												
1550	*	*	6,80	1750,56												
1550	*	*	6,80	1526,40												
1550	24,50	11,40	6,80	1318,25												
1550	24,50	11,40	6,90	1175,41												
1550	24,50	11,40	6,90	1048,44												
1550	24,50	11,40	7,00	943,59												
1550	24,50	11,40	7,00	875,28												
1550	24,50	11,40	7,00	753,29												
1550	24,50	11,40	7,00	626,67												
1550	24,50	11,40	7,00	555,05												



KG54																
Mt _{zmax} [Nm]	(F) Fa [kN]	(F) Fr [kN]	j [°]	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
1550	24,50	11,40	6,90	1152,00												
1550	24,50	11,40	6,90	1026,33												
1550	24,50	11,40	7,00	923,50												
1550	24,50	11,40	7,00	855,27												
1550	24,50	11,40	7,00	781,43												
1550	24,50	11,40	7,00	666,45												
1550	24,50	11,40	7,00	602,18												
1550	24,50	11,40	7,00	547,80												
1550	24,50	11,40	7,00	501,19												
1550	24,50	11,40	7,00	471,27												
1550	24,50	11,40	7,00	426,97												
1550	24,50	11,40	7,00	375,27												
1550	24,50	11,40	7,00	327,27												
1550	24,50	11,40	7,00	301,86												
1550	24,50	11,40	7,00	279,27												
1550	24,50	11,40	7,00	240,87												
1550	24,50	11,40	7,00	229,59												
1550	24,50	11,40	7,00	205,71												
1550	24,50	11,40	7,00	175,67												
1550	24,50	11,40	7,00	150,93												
1550	24,50	11,40	7,20	130,20												
1550	24,50	11,40	7,20	107,28												

KG53																
Mt _{zmax} [Nm]	(F) Fa [kN]	(F) Fr [kN]	j [°]	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
1550	24,50	12,60	7,00	140,43												
1550	24,50	14,40	7,00	127,64												
1550	24,50	14,40	7,00	116,81												
1550	24,50	14,40	7,00	107,53												
1550	24,50	14,40	7,00	98,18												
1550	24,50	14,40	7,00	89,62												
1550	24,50	14,40	7,00	80,73												
1550	24,50	14,40	7,20	70,36												
1550	24,50	14,40	7,20	66,22												
1550	24,50	14,40	7,20	61,09												
1550	24,50	14,40	7,20	54,98												
1550	24,50	14,40	7,20	49,45												
1550	24,50	14,40	7,20	46,16												
1550	23,30	14,20	7,20	40,52												
1542	22,80	14,20	7,40	35,86												
1475	20,40	14,20	7,50	30,21												
1412	18,70	12,60	7,90	25,73												
1352	17,20	12,00	8,10	22,09												
1294	16,00	11,60	8,20	19,08												
1237	14,80	11,30	8,40	16,54												
1161	14,80	10,60	8,60	13,71												
1349	22,54	12,60	7,25	74,90												
1316	19,90	13,66	7,25	68,07												
1286	17,96	12,52	7,25	62,30												
1258	17,22	11,62	7,25	57,35												
1225	18,06	11,50	7,25	52,36												
1196	18,21	11,39	7,25	47,80												
1165	18,91	11,21	7,25	43,05												
1120	18,60	11,00	7,46	37,53												
1104	18,68	11,06	7,59	35,32												
1077	18,85	11,16	7,59	32,58												
1050	19,67	11,57	7,72	29,32												
1016	19,65	11,61	7,72	26,38												
996	19,98	11,62	7,57	24,62												
949	19,05	11,58	7,57	21,61												
920	18,82	11,72	7,63	19,12												
881	16,28	10,64	7,74	16,11												
843	15,08	9,51	8,54	13,72												
807	13,44	9,36	8,75	11,78												
772	12,92	9,44	8,54	10,17												
738	12,83	10,63	9,02	8,82												
693	13,06	9,06	9,38	7,31												



KG65																
Mt _{zmax} [Nm]	(F) Fa [kN]	(F) Fr [kN]	j [°]	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
2800	*	*	6,00	3587,72												
2800	*	*	6,00	3184,37												
2800	*	*	6,00	2759,79												
2800	*	*	6,00	2483,81												
2800	*	*	6,00	2250,29												
2800	*	*	6,00	2050,13												
2800	*	*	6,00	1839,86												
2800	*	*	6,00	1740,79												
2800	25,00	15,50	6,00	1517,88												
2800	25,00	15,50	6,00	1310,90												
2800	25,00	15,50	6,00	1168,85												
2800	25,00	15,50	6,00	1042,59												
2800	25,00	15,50	6,00	938,33												
2800	25,00	15,50	6,00	870,39												
2800	25,00	15,50	6,00	749,08												
2800	25,00	15,50	6,00	623,18												
2800	25,00	15,50	6,00	551,96												

KG64																
Mt _{zmax} [Nm]	(F) Fa [kN]	(F) Fr [kN]	j [°]	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
2800	25,00	15,50	6,00	1145,57												
2800	25,00	15,50	6,00	1020,60												
2800	25,00	15,50	6,00	918,35												
2800	25,00	15,50	6,00	850,50												
2800	25,00	15,50	6,00	777,07												
2800	25,00	15,50	6,00	662,73												
2800	25,00	15,50	6,00	598,82												
2800	25,00	15,50	6,00	544,75												
2800	25,00	15,50	6,10	498,40												
2800	25,00	15,50	6,10	468,64												
2800	25,00	15,50	6,20	424,58												
2800	25,00	19,10	6,20	373,18												
2800	25,00	19,10	6,20	325,45												
2800	25,00	19,10	6,20	300,18												
2800	25,00	19,10	6,20	277,71												
2800	25,00	19,10	6,20	239,53												
2800	25,00	19,10	6,20	228,31												
2800	25,00	19,10	6,20	204,57												
2800	25,00	19,10	6,20	174,69												
2800	25,00	19,10	6,20	150,09												
2800	25,00	19,10	6,20	129,47												
2800	25,00	19,10	6,20	106,68												

KG63																
Mt _{zmax} [Nm]	(F) Fa [kN]	(F) Fr [kN]	j [°]	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
2800	24,00	19,80	6,20	119,27												
2800	21,10	17,50	6,20	102,21												
2800	19,30	16,60	6,20	93,46												
2800	17,80	15,40	6,30	82,93												
2800	17,00	14,80	6,30	73,77												
2775	16,70	14,50	6,40	69,43												
2704	16,00	13,30	6,40	63,20												
2626	15,10	12,70	6,70	56,70												
2527	14,70	12,30	6,70	51,43												
2475	14,30	12,00	6,70	47,50												
2402	13,60	11,30	6,70	41,88												
2334	12,30	10,30	6,70	37,23												
2280	11,50	9,60	6,70	33,14												
2240	11,10	9,30	6,70	31,60												
2153	9,90	8,30	6,80	27,13												
2070	8,30	6,90	6,80	23,50												
2021	8,00	5,40	7,00	21,16												
1914	7,60	4,80	7,20	17,97												
1815	7,00	4,50	7,50	15,15												
1565	7,00	4,50	7,80	13,33												
1668	7,00	4,50	7,80	11,81												
2232	22,08	19,80	6,61	74,22												
2145	17,14	16,60	6,61	63,60												
2095	14,15	14,43	6,61	58,15												
2028	12,51	12,43	6,71	51,60												
1966	12,53	11,82	6,71	45,90												
1933	12,41	11,47	6,82	43,20												
1884	12,35	10,36	6,82	39,32												
1830	11,46	9,70	7,14	35,28												
1760	11,21	9,45	7,26	32,00												
1724	11,00	9,30	7,26	29,56												
1674	10,92	9,08	7,39	26,06												
1626	9,86	8,31	7,39	23,17												
1589	9,38	7,75	7,24	20,62												
1561	9,08	7,58	7,24	19,66												
1499	8,17	6,85	7,21	16,88												
1442	6,62	5,17	7,21	14,63												
1408	6,45	4,08	7,78	13,17												
1333	5,94	3,75	8,00	11,18												
1264	5,65	3,66	8,03	9,43												
1202	6,07	4,23	8,62	8,30												
1162	6,18	3,84	8,75	7,35												



KG75																
Mt _{zmax} [Nm]	(F _r =0)	(F _s =0)	j _t [']	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
4700	*	*	5	5742,17												
4700	*	*	5	5102,54												
4700	*	*	5	4698,14												
4700	*	*	5	4252,11												
4700	*	*	5	3774,07												
4700	*	*	5	3270,86												
4700	*	*	5	2943,77												
4700	*	*	5	2667,01												
4700	*	*	5	2429,78												
4700	*	*	5	2180,57												
4700	46,5	19,2	5	2063,16												
4700	46,5	19,2	5	1798,97												
4700	46,5	19,2	5	1553,66												
4700	46,5	19,2	5	1385,30												
4700	46,5	19,2	5	1235,66												
4700	46,5	19,2	5	1112,09												
4700	46,5	19,2	5	1031,58												
4700	46,5	19,2	5	887,80												
4700	46,5	19,2	5	738,58												
4700	46,5	19,2	5	654,17												

KG74																
Mt _{zmax} [Nm]	(F _r =0)	(F _s =0)	j _t [']	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
4700	46,5	19,2	5	1357,71												
4700	46,5	19,2	5	1209,60												
4700	46,5	19,2	5	1088,42												
4700	46,5	19,2	5	1008,00												
4700	46,5	19,2	5	920,97												
4700	46,5	19,2	5	785,45												
4700	46,5	19,2	5	709,71												
4700	46,5	19,2	5	645,63												
4700	46,5	19,2	5	590,69												
4700	46,5	19,2	5	555,43												
4700	46,5	19,2	5	503,21												
4700	46,5	19,2	5	442,29												
4700	46,5	19,2	5	385,71												
4700	46,5	19,2	5	355,76												
4700	46,5	19,2	5	329,14												
4700	46,5	19,2	5,1	283,89												
4700	46,5	19,2	5,1	270,59												
4700	46,5	19,2	5,1	242,45												
4700	46,5	19,2	5,1	207,04												
4700	46,5	19,2	5,2	177,88												
4700	46,5	19,2	5,2	153,45												
4700	46,5	19,2	5,2	126,44												

KG73																
Mt _{zmax} [Nm]	(F _r =0)	(F _r =0)	j _t [']	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
4700	46,50	23,50	5,1	141,36												
4700	46,00	21,90	5,1	121,14												
4700	45,80	21,40	5,1	110,77												
4700	45,00	20,90	5,1	98,29												
4700	44,00	20,50	5,1	87,43												
4700	43,50	20,20	5,2	82,29												
4700	42,00	19,30	5,2	74,90												
4700	40,30	18,10	5,2	67,20												
4700	39,40	17,60	5,2	60,95												
4700	38,80	17,30	5,2	56,30												
4700	36,00	16,80	5,2	49,63												
4700	33,10	16,40	5,3	44,12												
4700	31,00	16,10	5,3	39,27												
4700	29,40	15,90	5,4	37,45												
4700	27,60	14,60	5,7	32,16												
4700	27,50	14,00	5,7	27,86												
4700	27,30	13,80	5,9	25,08												
4657	26,90	13,60	6,2	21,29												
4405	26,40	13,40	6,4	17,96												
3767	25,70	13,30	6,6	15,80												
4032	25,20	13,20	6,6	14,00												
4235	37,01	21,53	5,1	74,22												
4079	35,29	17,85	5,1	63,60												
3990	34,91	16,89	5,1	58,15												
3875	34,50	16,00	5,1	51,60												
3765	33,69	15,66	5,1	45,90												
3709	33,16	15,35	5,2	43,20												
3623	32,20	14,06	5,2	39,32												
3528	31,27	13,58	5,2	35,28												
3421	30,49	13,13	5,3	32,00												
3366	30,19	13,07	5,3	29,56												
3284	28,00	12,96	5,4	26,06												
3208	25,88	12,92	5,5	23,17												
3139	24,92	13,00	5,6	20,62												
3105	23,67	12,79	5,7	19,66												
3010	21,28	11,26	6,3	16,88												
2923	20,93	10,70	6,3	14,63												
2863	21,43	10,88	6,5	13,17												
2738	21,01	10,69	6,7	11,18												
2589	20,43	10,36	6,8	9,43												
2214	19,82	10,22	6,9	8,30												
2371	19,22	10,09	6,9	7,35												



KG85																
Mt _{zmax} [Nm]	(F _r =0)	(F _r =0)	j _t [']	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
8200	*	*	5	7043,14												
8200	*	*	5	6274,80												
8200	*	*	5	5646,16												
8200	*	*	5	5229,00												
8200	*	*	5	4777,52												
8200	*	*	5	4074,55												
8200	*	*	5	3681,64												
8200	*	*	5	3349,19												
8200	*	*	5	3064,22												
8200	*	*	5	2881,29												
8200	*	*	5	2610,40												
8200	*	*	5	2294,36												
8200	*	*	5	2000,89												
8200	*	*	5	1845,53												
8200	*	*	5	1707,43												
8200	50	50	5	1472,66												
8200	50	50	5	1403,70												
8200	50	50	5	1257,70												
8200	50	50	5	1074,03												
8200	50	49,6	5	922,76												
8200	50	48,6	5	796,03												
8200	50	46,9	5	655,90												

KG84																
Mt _{zmax} [Nm]	(F _r =0)	(F _r =0)	j _t [']	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
8200	50	49,6	5	858,56												
8200	50	48,6	5	780,35												
8200	50	47,6	5	714,16												
8200	50	47,3	5	657,44												
8200	50	46,7	5	600,27												
8200	50	44,7	5	547,94												
8200	50	42,5	5	493,55												
8200	50	40,2	5	430,19												
8200	50	39,5	5	404,89												
8200	50	38,2	5	373,50												
8200	49,4	36,1	5,1	336,15												
8200	47,3	35	5,1	302,36												
8200	45,8	34,2	5,2	282,23												
8200	42,3	32,9	5,2	247,73												
8200	38,1	30,5	5,2	219,23												
8200	36	28,4	5,2	184,70												
8200	34,4	26,9	5,2	157,31												
8200	30,1	24,1	5,2	135,06												
8200	29	23,1	5,2	116,62												
8200	25,5	20,1	5,2	101,10												
8200	22,9	15,8	5,3	83,85												

KG83															
Mt _{zmax} [Nm]	(F _r =0)	(F _r =0)	j _t [']	i	IEC/SMB/SMR										
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225
8200	34,4	26,9	5	159,92											
8200	30,1	24,1	5	142,88											
8200	29	23,1	5	120,38											
8200	27,6	22,1	5	110,08											
8200	25,5	20,1	5	98,55											
8200	24,5	19,6	5	88,36											
8200	22,9	18,5	5,1	79,88											
8200	21	18	5,1	72,69											
8200	19,8	17,5	5,2	66,54											
8200	17,4	17	5,2	56,53											
8200	16,4	16,4	5,3	52,41											
8200	15,4	15,9	5,3	48,75											
8200	13,4	15,2	5,4	42,53											
8056	12,5	13,9	5,4	37,43											
7815	11,5	12,2	5,5	33,19											
7586	11,5	12,2	5,7	29,60											
7366	11,5	12,2	5,9	26,52											
7152	11,5	12,2	6	23,85											
7048	11,5	12,2	6,2	22,65											
6741	11,5	12,2	6,3	19,46											
6440	11,5	12,2	6,5	16,78											
6142	11,50	12,20	6,5	14,51											
6348	28,75	22,28	5,1	78,69											
6165	23,27	18,61	5,1	70,30											
5896	21,69	17,35	5,1	59,23											
5761	20,60	16,61	5,1	54,16											
5592	19,05	15,09	5,1	48,49											
5432	18,36	15,06	5,3	43,48											
5286	17,30	14,42	5,4	39,30											
5153	15,87	13,86	5,5	35,77											
4998	15,07	13,33	5,6	32,74											
4818	12,94	12,55	5,6	27,82											
4735	11,79	12,09	5,7	25,79											
4655	10,96	11,69	5,7	23,99											
4506	9,36	10,80	5,8	20,93											
4368	8,49	9,49	5,5	18,42											
4238	7,67	8,38	5,6	16,33											
4113	8,00	8,54	5,8	14,56											
3993	8,16	8,60	6,0	13,05											
3878	8,51	9,07	6,1	11,74											
3821	9,20	9,61	6,3	11,14											
3654	9,92	10,27	6,5	9,57											
3492	10,70	10,95	6,7	8,26											
3329	10,38	10,81	6,7	7,14											

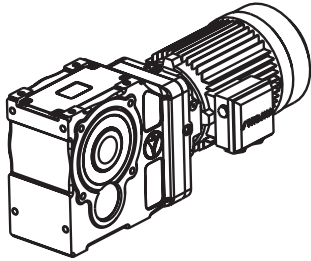


KG95																
Mt _{zmax} [Nm]	(F _r =0) Fa [kN]	(F _r =0) Fr [kN]	j _t [°]	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
13500	*	*	3,2	8517,82												
13500	*	*	3,2	7588,60												
13500	*	*	3,2	6828,33												
13500	*	*	3,2	6323,83												
13500	*	*	3,2	5777,82												
13500	*	*	3,2	4927,66												
13500	*	*	3,2	4452,50												
13500	*	*	3,2	4050,43												
13500	*	*	3,2	3705,80												
13500	*	*	3,2	3484,56												
13500	*	*	3,2	3156,95												
13500	*	*	3,2	2774,74												
13500	*	*	3,2	2419,83												
13500	*	*	3,2	2231,94												
13500	*	*	3,2	2064,93												
13500	*	*	3,2	1781,00												
13500	*	*	3,2	1697,61												
13500	*	*	3,2	1521,04												
13500	359,5	80	3,3	1298,90												
13500	346,1	78,9	3,4	1115,97												
13500	320,5	77,1	3,5	962,70												
13500	285,4	70	3,6	793,23												

KG94																
Mt _{zmax} [Nm]	(F _r =0) Fa [kN]	(F _r =0) Fr [kN]	j _t [°]	i	IEC/SMB/SMR											
	63	71			80	90	100	112	132	160	180	200	225	250		
13500	320,4	78	3,4	886,86												
13500	285,4	70,4	3,4	760,01												
13500	270	70	3,4	694,93												
13500	261,2	69,6	3,4	616,61												
13500	255,6	69,5	3,4	548,50												
13500	252,8	69,3	3,4	516,23												
13500	239,1	68,5	3,4	469,90												
13500	231,2	68	3,4	421,59												
13500	221,5	67,3	3,5	382,39												
13500	211	66,1	3,5	353,21												
13500	206,5	65,2	3,5	311,38												
13500	194,9	63,4	3,5	276,82												
13500	190,8	63,2	3,5	246,38												
13500	185,1	63	3,5	234,95												
13500	163,6	62,5	3,5	201,75												
13500	162	62	3,5	174,77												
13500	155,5	62	3,5	157,33												
13500	153,8	61,2	3,6	133,59												
13500	142,7	60,9	3,6	112,67												
13500	132,5	60,5	3,6	99,13												
13500	128,3	60,3	3,6	87,83												

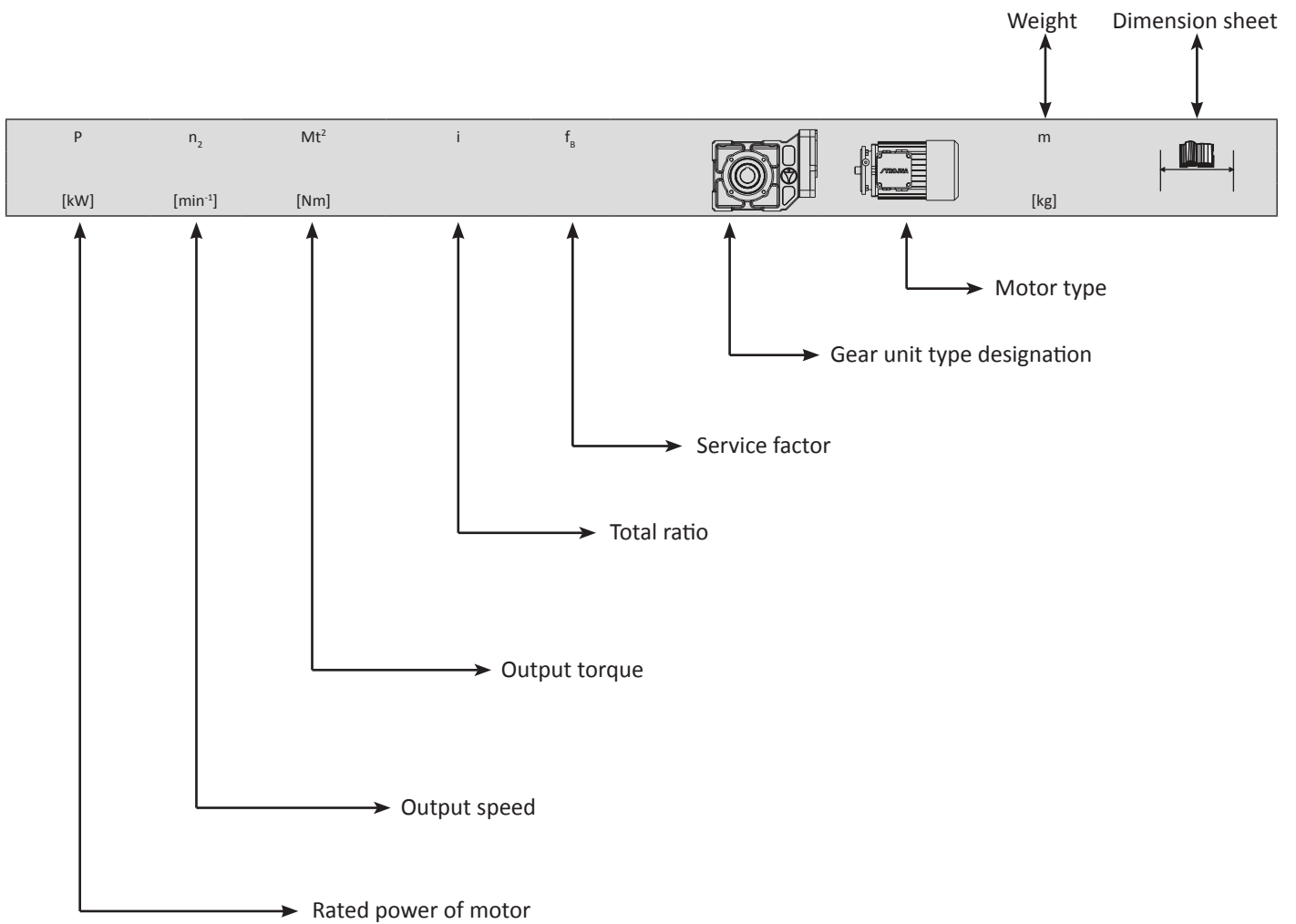
KG93																
Mt _{zmax} [Nm]	(F _r =0)	(F _r =0)	j _t [']	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
13500	156,60	72,00	3,5	170,73												
13500	155,50	72,00	3,5	156,36												
13500	153,80	71,49	3,5	140,35												
13500	143,11	71,00	3,6	126,12												
13500	141,90	70,45	3,6	114,27												
13500	136,50	70,00	3,6	104,24												
13500	132,50	69,51	3,6	95,64												
13500	124,30	68,40	3,7	81,67												
13500	121,40	67,90	3,7	75,92												
13500	117,10	67,42	3,7	70,80												
13298	107,50	66,60	3,7	62,11												
12918	98,60	65,49	3,8	55,00												
12562	93,40	64,65	3,8	49,07												
12226	90,10	64,23	3,9	44,05												
11905	90,60	63,92	3,9	39,75												
11598	90,10	63,70	3,9	36,03												
11448	89,90	63,60	4,0	34,35												
11013	89,70	63,24	4,0	29,89												
10593	89,50	62,87	4,2	26,16												
10184	88,40	62,19	4,3	22,99												
9648	86,70	61,90	4,3	19,43												
9115	86,00	61,50	4,5	16,47												
7945	130,87	59,64	3,6	83,38												
7765	120,20	55,59	3,6	76,36												
7544	115,01	53,69	3,6	68,55												
7335	106,80	53,36	3,7	61,60												
7144	105,99	52,87	3,7	55,81												
6898	102,27	53,79	3,8	50,91												
6770	100,11	54,20	3,8	46,71												
6538	93,96	52,66	4,0	39,89												
6431	92,37	51,73	4,0	37,08												
6329	87,06	49,79	4,0	34,58												
6139	77,25	49,10	4,0	30,33												
5963	70,15	48,13	4,1	26,86												
5799	65,27	45,93	4,1	23,96												
5644	61,19	43,83	4,0	21,52												
5496	60,40	43,89	4,0	19,42												
5354	62,64	44,59	4,0	17,60												
5285	63,77	44,85	4,1	16,77												
5084	66,34	47,00	4,1	14,60												
4890	71,60	49,55	4,3	12,78												
4701	76,25	52,37	4,4	11,23												
4454	80,68	55,57	4,4	9,49												
4208	77,64	54,51	4,6	8,04												

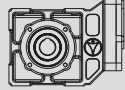


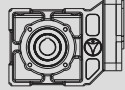

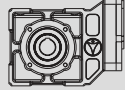

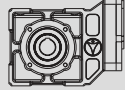

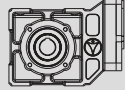



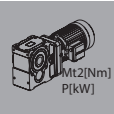





KG

HELICAL BEVEL GEAR UNITS

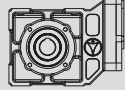


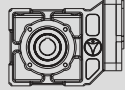



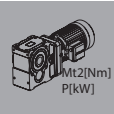
P	n ₂	Mt ₂	i	f _b			m								
[kW]	[min ⁻¹]	[Nm]					[kg]								
0,12	0,32	3237	4050,43	4,17			507	454							
	0,29	3572	4452,50	3,78					KG95	SMB	63A4				
	0,27	3837	4927,66	3,52					KG95	SMB	63A4				
	0,23	4504	5777,82	3,00					KG95	SMB	63A4				
	0,21	4933	6323,83	2,74					KG95	SMB	63A4				
	0,19	5452	6828,33	2,48					KG95	SMB	63A4				
	0,17	6093	7588,60	2,22					KG95	SMB	63A4				
	0,15	6906	8517,82	1,95					KG95	SMB	63A4				
	0,5	2072	2610,40	3,96			279	448							
	0,45	2302	2881,29	3,56					KG85	SMB	63A4				
	0,43	2409	3064,22	3,40					KG85	SMB	63A4				
	0,39	2656	3349,19	3,09					KG85	SMB	63A4				
	0,36	2877	3681,64	2,85					KG85	SMB	63A4				
	0,32	3237	4074,55	2,53					KG85	SMB	63A4				
	0,27	3837	4777,52	2,14					KG85	SMB	63A4				
	0,25	4144	5229,00	1,98					KG85	SMB	63A4				
	0,23	4504	5646,16	1,82					KG85	SMB	63A4				
	0,21	4933	6274,80	1,66					KG85	SMB	63A4				
	0,19	5452	7043,14	1,50					KG85	SMB	63A4				
	0,95	1090	1385,30	4,31							165	442			
	0,84	1233	1553,66	3,81	KG75	SMR	63A4								
	0,73	1419	1798,97	3,31	KG75	SMB	63A4								
	0,63	1644	2063,16	2,86	KG75	SMB	63A4								
	0,6	1726	2180,57	2,72	KG75	SMB	63A4								
	0,54	1918	2429,78	2,45	KG75	SMB	63A4								
	0,49	2114	2667,01	2,22	KG75	SMB	63A4								
	0,45	2302	2943,77	2,04	KG75	SMB	63A4								
	0,4	2590	3270,86	1,81	KG75	SMB	63A4								
	0,35	2960	3774,07	1,59	KG75	SMB	63A4								
	0,31	3342	4252,11	1,41	KG75	SMB	63A4								
	0,28	3700	4698,14	1,27	KG75	SMB	63A4								
	0,26	3984	5102,54	1,18	KG75	SMB	63A4								
	0,23	4504	5742,17	1,04	KG75	SMB	63A4								
	0,96	1101	1357,71	4,27	KG74	SMB	63A4	161					440		
	1,5	691	870,39	4,05			104	436							
	1,4	740	938,33	3,78									KG65	SMR	63A4
	1,3	797	1042,59	3,51									KG65	SMR	63A4
	1,1	942	1168,85	2,97					KG65	SMR	63A4				
	1	1036	1310,90	2,70					KG65	SMR	63A4				
	0,86	1205	1517,88	2,32					KG65	SMB	63A4				
	0,75	1381	1740,79	2,03					KG65	SMB	63A4				
	0,71	1459	1839,86	1,92					KG65	SMB	63A4				
	0,64	1619	2050,13	1,73					KG65	SMB	63A4				
	0,58	1786	2250,29	1,57					KG65	SMB	63A4				
	0,53	1955	2483,81	1,43					KG65	SMB	63A4				
	0,47	2204	2759,79	1,27					KG65	SMB	63A4				
	0,41	2527	3184,37	1,11	KG65	SMB	63A4								
	1,5	705	850,50	3,97	KG64	SMB	63A4	100	434						






P	n ₂	Mt ₂	i	f _b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
0,12	1,4	755	918,35	3,71		KG64	SMB	63A4	100	434
	1,3	813	1020,60	3,44		KG64	SMB	63A4		
	1,1	961	1145,57	2,91		KG64	SMB	63A4		
	2,4	432	555,05	3,59		KG55	SMR	63A4	69	430
	2,1	493	626,67	3,14		KG55	SMR	63A4		
	1,7	609	753,29	2,54		KG55	SMR	63A4		
	1,5	691	875,28	2,24		KG55	SMR	63A4		
	1,4	740	943,59	2,09		KG55	SMR	63A4		
	1,2	863	1048,44	1,80		KG55	SMR	63A4		
	1,1	942	1175,41	1,65		KG55	SMR	63A4		
	0,99	1046	1318,25	1,48		KG55	SMR	63A4		
	0,86	1205	1526,40	1,29		KG55	SMB	63A4		
	0,75	1381	1750,56	1,12		KG55	SMB	63A4		
	0,71	1459	1850,18	1,06		KG55	SMB	63A4		
	2,8	378	471,27	4,11		KG54	SMB	63A4		
2,6	407	501,19	3,81	KG54	SMB	63A4				
2,4	440	547,80	3,52	KG54	SMB	63A4				
2,2	480	602,18	3,23	KG54	SMB	63A4				
2	529	666,45	2,93	KG54	SMB	63A4				
1,7	622	781,43	2,49	KG54	SMB	63A4				
1,5	705	855,27	2,20	KG54	SMB	63A4				
1,4	755	923,50	2,05	KG54	SMB	63A4				
1,3	813	1026,33	1,91	KG54	SMB	63A4				
1,1	961	1152,00	1,61	KG54	SMB	63A4				
4,7	225	281,38	3,65	KG44	SMR	63A4	56	424		
4,1	258	317,69	3,18	KG44	SMR	63A4				
3,4	311	381,88	2,64	KG44	SMR	63A4				
3	352	443,72	2,33	KG44	SMR	63A4				
2,7	391	478,35	2,09	KG44	SMR	63A4				
2,5	423	531,50	1,94	KG44	SMR	63A4				
2,2	480	595,87	1,71	KG44	SMR	63A4				
2	529	668,28	1,55	KG44	SMR	63A4				
1,7	622	773,80	1,32	KG44	SMB	63A4				
1,5	705	887,43	1,16	KG44	SMB	63A4				
1,4	755	937,94	1,09	KG44	SMB	63A4				
5,5	196	238,91	4,18	KG43	SMB	63A4			50	422
5,2	207	254,08	3,95	KG43	SMB	63A4				
4,7	229	277,71	3,57	KG43	SMB	63A4				
4,3	251	305,27	3,27	KG43	SMB	63A4				
3,9	277	337,85	2,96	KG43	SMB	63A4				
3,3	327	396,14	2,51	KG43	SMB	63A4				
3	360	433,58	2,28	KG43	SMB	63A4				
2,8	385	468,17	2,13	KG43	SMB	63A4				
2,5	431	520,29	1,90	KG43	SMB	63A4				
2,2	490	584,00	1,67	KG43	SMB	63A4				
11	98	117,82	4,28	KG33	SMR	63A4	37	418		
9,9	109	132,14	3,85	KG33	SMR	63A4				
8,6	125	153,00	3,35	KG33	SMB	63A4				

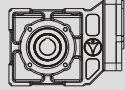




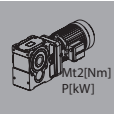
P	n ₂	Mt ₂	i	f _b			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
0,12	7,5	144	175,47	2,92			37	418			
	7,1	152	185,45	2,76					KG33	SMB	63A4
	6,3	171	206,65	2,45					KG33	SMB	63A4
	5,8	186	226,83	2,26					KG33	SMB	63A4
	5,2	207	250,36	2,02					KG33	SMB	63A4
	4,7	229	278,18	1,83					KG33	SMB	63A4
	4,1	263	320,98	1,60					KG33	SMB	63A4
	3,6	300	361,64	1,40					KG33	SMB	63A4
	3,3	327	399,57	1,28					KG33	SMB	63A4
	3	360	433,96	1,17					KG33	SMB	63A4
	2,7	399	488,36	1,05					KG33	SMB	63A4
	36	30	36,57	7,01					KG23	SMR	63A4
	32	34	41,29	6,23					KG23	SMR	63A4
	26	41	49,63	5,06					KG23	SMR	63A4
	23	47	57,67	4,48					KG23	SMR	63A4
	21	51	62,17	4,09					KG23	SMR	63A4
	19	57	69,08	3,70					KG23	SMR	63A4
	17	63	77,44	3,31					KG23	SMR	63A4
	15	72	86,85	2,92					KG23	SMR	63A4
	13	83	100,57	2,53	KG23	SMB	63A4				
	11	98	121,90	2,14	KG23	SMB	63A4				
	9,6	112	135,83	1,87	KG23	SMB	63A4				
	8,8	123	149,09	1,71	KG23	SMB	63A4				
	8	135	164,57	1,56	KG23	SMB	63A4				
	7,2	150	182,85	1,40	KG23	SMB	63A4				
	6,2	174	210,98	1,21	KG23	SMB	63A4				
	5,5	196	237,71	1,07	KG23	SMB	63A4				
	71	16	18,40	13,48	KG22	SMR	63A4				
	66	17	19,89	12,59	KG22	SMR	63A4				
	61	18	21,56	11,64	KG22	SMR	63A4				
	53	21	24,73	10,11	KG22	SMB	63A4				
	47	23	28,13	8,97	KG22	SMB	63A4				
	42	26	31,05	8,01	KG22	SMB	63A4				
	40	28	33,02	7,63	KG22	SMB	63A4				
	36	31	36,09	6,87	KG22	SMB	63A4				
	33	33	39,68	6,30	KG22	SMB	63A4				
	30	37	43,91	5,72	KG22	SMB	63A4				
	25	44	51,48	4,77	KG22	SMB	63A4				
	23	48	56,35	4,39	KG22	SMB	63A4				
	22	50	60,85	4,20	KG22	SMB	63A4				
	19	58	67,62	3,63	KG22	SMB	63A4				
	17	65	75,90	3,24	KG22	SMB	63A4				
	174	6	7,55	9,17	KG12	SMR	63A4				
	154	7	8,52	8,26	KG12	SMR	63A4				
	128	9	10,24	7,33	KG12	SMR	63A4				
	110	10	11,90	6,70	KG12	SMR	63A4				
	102	11	12,83	6,39	KG12	SMR	63A4				
	92	12	14,25	5,93	KG12	SMR	63A4				
							14	410			






P	n ₂	Mt ₂	i	f _b			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
0,12	82	13	15,98	5,51		KG12	SMR	63A4	14	410	
	73	15	17,92	5,11		KG12	SMR	63A4			
	63	17	20,75	4,64		KG12	SMB	63A4			
	55	20	23,80	4,20		KG12	SMB	63A4			
	52	21	25,15	4,02		KG12	SMB	63A4			
	47	23	28,03	3,76		KG12	SMB	63A4			
	43	26	30,76	3,56		KG12	SMB	63A4			
	39	28	33,95	3,33		KG12	SMB	63A4			
	35	31	37,73	3,02		KG12	SMB	63A4			
	30	37	43,53	2,59		KG12	SMB	63A4			
	27	41	49,05	2,33		KG12	SMB	63A4			
	24	46	54,19	2,07		KG12	SMB	63A4			
	22	50	58,85	1,90		KG12	SMB	63A4			
	20	55	66,23	1,73		KG12	SMB	63A4			
0,18	0,16	9711	8517,82	1,39	KG95	SMB	63B4	508	454		
	0,18	8632	7588,60	1,56	KG95	SMB	63B4				
	0,19	8178	6828,33	1,65	KG95	SMB	63B4				
	0,21	7399	6323,83	1,82	KG95	SMB	63B4				
	0,23	6756	5777,82	2,00	KG95	SMB	63B4				
	0,27	5755	4927,66	2,35	KG95	SMB	63B4				
	0,3	5179	4452,50	2,61	KG95	SMB	63B4				
	0,33	4709	4050,43	2,87	KG95	SMB	63B4				
	0,36	4316	3705,80	3,13	KG95	SMB	63B4				
	0,38	4089	3484,56	3,30	KG95	SMB	63B4				
	0,42	3700	3156,95	3,65	KG95	SMB	63B4				
	0,48	3237	2774,74	4,17	KG95	SMB	63B4				
	0,21	7399	6274,80	1,11	KG85	SMB	63B4				
	0,24	6474	5646,16	1,27	KG85	SMB	63B4				
	0,25	6215	5229,00	1,32	KG85	SMB	63B4				
	0,28	5549	4777,52	1,48	KG85	SMB	63B4				
	0,33	4709	4074,55	1,74	KG85	SMB	63B4				
	0,36	4316	3681,64	1,90	KG85	SMB	63B4				
	0,4	3885	3349,19	2,11	KG85	SMB	63B4				
	0,43	3614	3064,22	2,27	KG85	SMB	63B4				
	0,46	3378	2881,29	2,43	KG85	SMB	63B4				
	0,51	3047	2610,40	2,69	KG85	SMB	63B4				
	0,58	2679	2294,36	3,06	KG85	SMB	63B4				
	0,66	2354	2000,89	3,48	KG85	SMR	63B4				
	0,72	2158	1845,53	3,80	KG85	SMR	63B4				
	0,78	1992	1707,43	4,12	KG85	SMR	63B4				
	0,35	4440	3774,07	1,06	KG75	SMB	63B4			166	442
	0,41	3790	3270,86	1,24	KG75	SMB	63B4				
	0,45	3453	2943,77	1,36	KG75	SMB	63B4				
	0,5	3108	2667,01	1,51	KG75	SMB	63B4				
	0,55	2825	2429,78	1,66	KG75	SMB	63B4				
	0,61	2547	2180,57	1,85	KG75	SMB	63B4				
0,64	2428	2063,16	1,94	KG75	SMB	63B4					
0,74	2100	1798,97	2,24	KG75	SMB	63B4					

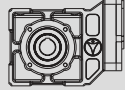




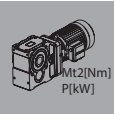
P	n ₂	Mt ₂	i	f _b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
0,18	0,86	1807	1553,66	2,60	KG75	SMR	63B4	166	442	
	0,96	1619	1385,30	2,90		SMR	63B4			
	1,1	1413	1235,66	3,33		KG75	SMR			63B4
	1,2	1295	1112,09	3,63		KG75	SMR			63B4
	1,3	1195	1031,58	3,93		KG75	SMR			63B4
	0,98	1618	1357,71	2,90	KG74	SMB	63B4	162	440	
	1,1	1441	1209,60	3,26		SMB	63B4			
	1,2	1321	1088,42	3,56		KG74	SMB			63B4
	1,3	1220	1008,00	3,85		KG74	SMB			63B4
	1,4	1133	920,97	4,15		KG74	SMB			63B4
	0,59	2634	2250,29	1,06	KG65	SMB	63B4	105	436	
	0,65	2391	2050,13	1,17		SMB	63B4			
	0,72	2158	1839,86	1,30		SMB	63B4			
	0,76	2045	1740,79	1,37		SMB	63B4			
	0,88	1766	1517,88	1,59		SMB	63B4			
	1	1554	1310,90	1,80		SMR	63B4			
	1,1	1413	1168,85	1,98		KG65	SMR			63B4
	1,3	1195	1042,59	2,34		KG65	SMR			63B4
	1,4	1110	938,33	2,52		KG65	SMR			63B4
	1,5	1036	870,39	2,70		KG65	SMR			63B4
1,8	863	749,08	3,24	KG65	SMR	63B4				
2,1	740	623,18	3,78	KG65	SMR	63B4				
2,4	647	551,96	4,32	KG65	SMR	63B4				
1,2	1321	1145,57	2,12	KG64	SMB	63B4	101	434		
1,3	1220	1020,60	2,30		SMB	63B4				
1,4	1133	918,35	2,47		SMB	63B4				
1,6	991	850,50	2,83		KG64	SMB			63B4	
1,7	933	777,07	3,00		KG64	SMB			63B4	
2	793	662,73	3,53		KG64	SMB			63B4	
2,2	721	598,82	3,89		KG64	SMB			63B4	
2,4	661	544,75	4,24		KG64	SMB			63B4	
1,1	1413	1175,41	1,10	KG55	SMR	63B4	70	430		
1,3	1195	1048,44	1,30		SMR	63B4				
1,4	1110	943,59	1,40		SMR	63B4				
1,5	1036	875,28	1,50		KG55	SMR			63B4	
1,8	863	753,29	1,80		KG55	SMR			63B4	
2,1	740	626,67	2,09		KG55	SMR			63B4	
2,4	647	555,05	2,39		KG55	SMR			63B4	
1,2	1321	1152,00	1,17	KG54	SMB	63B4	66	428		
1,3	1220	1026,33	1,27		SMB	63B4				
1,4	1133	923,50	1,37		SMB	63B4				
1,6	991	855,27	1,56		KG54	SMB			63B4	
1,7	933	781,43	1,66		KG54	SMB			63B4	
2	793	666,45	1,96		KG54	SMB			63B4	
2,2	721	602,18	2,15		KG54	SMB			63B4	
2,4	661	547,80	2,35		KG54	SMB			63B4	
2,7	587	501,19	2,64		KG54	SMB			63B4	
2,8	566	471,27	2,74		KG54	SMB			63B4	






P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,18	3,1	511	426,97	3,03	KG54	SMB	63B4	
	3,5	453	375,27	3,42	KG54	SMB	63B4	
	4,1	387	327,27	4,01	KG54	SMR	63B4	66 428
	4,4	360	301,86	4,30	KG54	SMR	63B4	
	2	793	668,28	1,03	KG44	SMR	63B4	
	2,2	721	595,87	1,14	KG44	SMR	63B4	
	2,5	634	531,50	1,29	KG44	SMR	63B4	
	2,8	566	478,35	1,45	KG44	SMR	63B4	
	3	529	443,72	1,55	KG44	SMR	63B4	57 424
	3,5	453	381,88	1,81	KG44	SMR	63B4	
	4,2	378	317,69	2,17	KG44	SMR	63B4	
	4,7	337	281,38	2,43	KG44	SMR	63B4	
	2,3	703	584,00	1,17	KG43	SMB	63B4	
	2,6	622	520,29	1,32	KG43	SMB	63B4	
	2,8	578	468,17	1,42	KG43	SMB	63B4	
	3,1	522	433,58	1,57	KG43	SMB	63B4	
	3,4	476	396,14	1,72	KG43	SMB	63B4	
	3,9	415	337,85	1,98	KG43	SMB	63B4	
	4,4	368	305,27	2,23	KG43	SMB	63B4	
4,8	337	277,71	2,43	KG43	SMB	63B4	51 422	
5,2	311	254,08	2,64	KG43	SMB	63B4		
5,6	289	238,91	2,84	KG43	SMB	63B4		
6,1	265	216,45	3,09	KG43	SMB	63B4		
7	231	190,24	3,55	KG43	SMB	63B4		
8	202	165,91	4,05	KG43	SMR	63B4		
8,7	186	153,03	4,41	KG43	SMR	63B4		
4,1	395	320,98	1,06	KG33	SMB	63B4		
4,8	337	278,18	1,25	KG33	SMB	63B4		
5,3	305	250,36	1,38	KG33	SMB	63B4		
5,9	274	226,83	1,53	KG33	SMB	63B4		
6,4	253	206,65	1,66	KG33	SMB	63B4		
7,2	225	185,45	1,87	KG33	SMB	63B4		
7,6	213	175,47	1,97	KG33	SMB	63B4		
8,7	186	153,00	2,26	KG33	SMB	63B4	38 418	
10	162	132,14	2,60	KG33	SMR	63B4		
11	147	117,82	2,86	KG33	SMR	63B4		
13	124	105,09	3,37	KG33	SMR	63B4		
14	116	94,58	3,63	KG33	SMR	63B4		
15	108	87,73	3,89	KG33	SMR	63B4		
17	97	76,17	4,32	KG33	SMB	63B4		
8,1	200	164,57	1,05	KG23	SMB	63B4		
8,9	182	149,09	1,16	KG23	SMB	63B4		
9,8	165	135,83	1,27	KG23	SMB	63B4		
11	147	121,90	1,43	KG23	SMB	63B4		
12	135	115,34	1,56	KG23	SMB	63B4		
13	124	100,57	1,69	KG23	SMB	63B4		
15	108	86,85	1,95	KG23	SMR	63B4		
17	95	77,44	2,21	KG23	SMR	63B4	26 414	

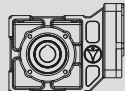
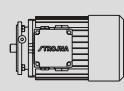



P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
0,18	19	85	69,08	2,47	KG23	SMR	63B4	26	414
	21	77	62,17	2,73		SMR	63B4		
	23	70	57,67	2,99		SMR	63B4		
	27	60	49,63	3,50		SMR	63B4		
	32	51	41,29	4,15		SMR	63B4		
	36	45	36,57	4,67		SMR	63B4		
	18	92	75,90	2,29	KG22	SMB	63B4	22	412
	20	83	67,62	2,54		SMB	63B4		
	22	75	60,85	2,80		SMB	63B4		
	24	69	56,35	3,05		SMB	63B4		
	26	63	51,48	3,31		SMB	63B4		
	30	55	43,91	3,82		SMB	63B4		
	34	49	39,68	4,32		SMB	63B4		
	37	45	36,09	4,71		SMB	63B4		
	40	41	33,02	5,09		SMB	63B4		
	43	38	31,05	5,47		SMB	63B4		
	47	35	28,13	5,98		SMB	63B4		
	54	31	24,73	6,87		SMB	63B4		
	62	27	21,56	7,89		SMR	63B4		
	67	25	19,89	8,52		SMR	63B4		
	72	23	18,40	9,11		SMR	63B4		
	84	20	15,87	10,18		SMR	63B4		
	88	19	15,13	10,55		SMR	63B4		
	98	17	13,55	11,34		SMR	63B4		
	115	14	11,57	12,54	SMR	63B4			
	134	12	9,94	14,04	SMR	63B4			
	20	83	66,23	1,15	KG12	SMB	63B4	14	410
	23	72	58,85	1,32		SMB	63B4		
	25	66	54,19	1,44		SMB	63B4		
	27	61	49,05	1,55		SMB	63B4		
	31	53	43,53	1,78		SMB	63B4		
	35	47	37,73	2,01		SMB	63B4		
	39	42	33,95	2,22		SMB	63B4		
	43	38	30,76	2,37		SMB	63B4		
	47	35	28,03	2,51		SMB	63B4		
	53	31	25,15	2,73		SMB	63B4		
56	29	23,80	2,85	SMB		63B4			
64	26	20,75	3,14	SMB		63B4			
74	22	17,92	3,45	SMR		63B4			
83	20	15,98	3,72	SMR		63B4			
93	18	14,25	4,00	SMR		63B4			
104	16	12,83	4,35	SMR		63B4			
112	15	11,90	4,55	SMR		63B4			
130	13	10,24	4,96	SMR		63B4			
156	11	8,52	5,58	SMR	63B4				
176	9	7,55	6,18	SMR	63B4				
0,25	0,18	11990	7588,60	1,13	KG95	SMB	71A4	508	454
	0,2	10791	6828,33	1,25	KG95	SMB	71A4		






P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
0,25	0,21	10277	6323,83	1,31	KG95	SMB	71A4	508	454
	0,23	9383	5777,82	1,44		SMB	71A4		
	0,27	7993	4927,66	1,69		SMB	71A4		
	0,3	7194	4452,50	1,88		SMB	71A4		
	0,33	6540	4050,43	2,06		SMB	71A4		
	0,36	5995	3705,80	2,25		SMB	71A4		
	0,38	5679	3484,56	2,38		SMB	71A4		
	0,42	5138	3156,95	2,63		SMB	71A4		
	0,48	4496	2774,74	3,00		SMB	71A4		
	0,55	3924	2419,83	3,44		SMR	71A4		
	0,6	3597	2231,94	3,75		SMR	71A4		
	0,65	3320	2064,93	4,07		SMR	71A4		
0,28	7708	4777,52	1,06	KG85	SMB	71A4	280	448	
0,33	6540	4074,55	1,25	KG85	SMB	71A4			
0,36	5995	3681,64	1,37	KG85	SMB	71A4			
0,4	5395	3349,19	1,52	KG85	SMB	71A4			
0,44	4905	3064,22	1,67	KG85	SMB	71A4			
0,47	4592	2881,29	1,79	KG85	SMB	71A4			
0,51	4232	2610,40	1,94	KG85	SMB	71A4			
0,58	3721	2294,36	2,20	KG85	SMB	71A4			
0,67	3221	2000,89	2,55	SMR	71A4				
0,73	2956	1845,53	2,77	SMR	71A4				
0,78	2767	1707,43	2,96	SMR	71A4				
0,91	2372	1472,66	3,46	SMR	71A4				
0,95	2272	1403,70	3,61	SMR	71A4				
1,1	1962	1257,70	4,18	SMR	71A4				
0,5	4316	2667,01	1,09	KG75	SMB	71A4	166	442	
0,55	3924	2429,78	1,20	KG75	SMB	71A4			
0,61	3538	2180,57	1,33	KG75	SMB	71A4			
0,65	3320	2063,16	1,42	KG75	SMB	71A4			
0,74	2916	1798,97	1,61	KG75	SMB	71A4			
0,86	2509	1553,66	1,87	SMR	71A4				
0,97	2225	1385,30	2,11	SMR	71A4				
1,1	1962	1235,66	2,40	SMR	71A4				
1,2	1798	1112,09	2,61	SMR	71A4				
1,3	1660	1031,58	2,83	SMR	71A4				
1,5	1439	887,80	3,27	SMR	71A4				
1,8	1199	738,58	3,92	SMR	71A4				
2	1079	654,17	4,36	SMR	71A4				
0,99	2224	1357,71	2,11	KG74	SMB	71A4	162	440	
1,1	2002	1209,60	2,35	KG74	SMB	71A4			
1,2	1835	1088,42	2,56	KG74	SMB	71A4			
1,3	1694	1008,00	2,77	KG74	SMB	71A4			
1,5	1468	920,97	3,20	KG74	SMB	71A4			
1,7	1295	785,45	3,63	KG74	SMB	71A4			
1,9	1159	709,71	4,06	KG74	SMB	71A4			
2,1	1049	645,63	4,48	KG74	SMB	71A4			
0,88	2452	1517,88	1,14	KG65	SMB	71A4	105	436	

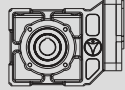


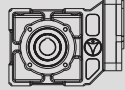
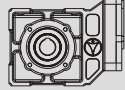


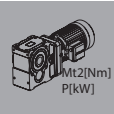
P	n ₂	Mt ₂	i	f _b			m					
[kW]	[min ⁻¹]	[Nm]					[kg]					
0,25	1	2158	1310,90	1,30		KG65	SMR	71A4	105	436		
	1,1	1962	1168,85	1,43		KG65	SMR	71A4				
	1,3	1660	1042,59	1,69		KG65	SMR	71A4				
	1,4	1542	938,33	1,82		KG65	SMR	71A4				
	1,5	1439	870,39	1,95		KG65	SMR	71A4				
	1,8	1199	749,08	2,34		KG65	SMR	71A4				
	2,2	981	623,18	2,85		KG65	SMR	71A4				
	2,4	899	551,96	3,11		KG65	SMR	71A4				
	1,2	1835	1145,57	1,53		KG64	SMB	71A4			101	434
	1,3	1694	1020,60	1,65		KG64	SMB	71A4				
	1,5	1468	918,35	1,91		KG64	SMB	71A4				
	1,6	1376	850,50	2,03		KG64	SMB	71A4				
	1,7	1295	777,07	2,16		KG64	SMB	71A4				
	2	1101	662,73	2,54		KG64	SMB	71A4				
	2,2	1001	598,82	2,80		KG64	SMB	71A4				
	2,5	881	544,75	3,18		KG64	SMB	71A4				
	2,7	816	498,40	3,43		KG64	SMB	71A4				
	2,9	759	468,64	3,69		KG64	SMB	71A4				
	3,2	688	424,58	4,07		KG64	SMB	71A4				
	1,5	1439	875,28	1,08		KG55	SMR	71A4	70	430		
1,8	1199	753,29	1,29	KG55	SMR	71A4						
2,1	1028	626,67	1,51	KG55	SMR	71A4						
2,4	899	555,05	1,72	KG55	SMR	71A4						
1,6	1376	855,27	1,13	KG54	SMB	71A4	66	428				
1,7	1295	781,43	1,20	KG54	SMB	71A4						
2	1101	666,45	1,41	KG54	SMB	71A4						
2,2	1001	602,18	1,55	KG54	SMB	71A4						
2,4	918	547,80	1,69	KG54	SMB	71A4						
2,7	816	501,19	1,90	KG54	SMB	71A4						
2,8	786	471,27	1,97	KG54	SMB	71A4						
3,1	710	426,97	2,18	KG54	SMB	71A4						
3,6	612	375,27	2,53	KG54	SMB	71A4						
4,1	537	327,27	2,89	KG54	SMR	71A4						
4,4	500	301,86	3,10	KG54	SMR	71A4	57	424				
4,8	459	279,27	3,38	KG54	SMR	71A4						
5,6	393	240,87	3,94	KG54	SMR	71A4						
5,8	380	229,59	4,08	KG54	SMR	71A4						
2,8	786	478,35	1,04	KG44	SMR	71A4			51	422		
3	734	443,72	1,12	KG44	SMR	71A4						
3,5	629	381,88	1,30	KG44	SMR	71A4						
4,2	524	317,69	1,56	KG44	SMR	71A4						
4,8	459	281,38	1,79	KG44	SMR	71A4						
2,9	775	468,17	1,06	KG43	SMB	71A4			51	422		
3,1	725	433,58	1,13	KG43	SMB	71A4						
3,4	661	396,14	1,24	KG43	SMB	71A4						
4	562	337,85	1,46	KG43	SMB	71A4						
4,4	511	305,27	1,61	KG43	SMB	71A4						
4,8	468	277,71	1,75	KG43	SMB	71A4						






P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,25	5,3	424	254,08	1,93	KG43	SMB 71A4		
	5,6	401	238,91	2,04	KG43	SMB 71A4		
	6,2	362	216,45	2,26	KG43	SMB 71A4		
	7	321	190,24	2,55	KG43	SMB 71A4		
	8,1	277	165,91	2,96	KG43	SMR 71A4	51	422
	8,8	255	153,03	3,21	KG43	SMR 71A4		
	9,5	237	141,58	3,47	KG43	SMR 71A4		
	11	204	122,11	4,01	KG43	SMR 71A4		
	12	187	116,39	4,38	KG43	SMR 71A4		
	5,9	381	226,83	1,10	KG33	SMB 71A4		
	6,5	346	206,65	1,21	KG33	SMB 71A4		
	7,2	312	185,45	1,35	KG33	SMB 71A4		
	7,6	296	175,47	1,42	KG33	SMB 71A4		
	8,8	255	153,00	1,64	KG33	SMB 71A4		
	10	225	132,14	1,87	KG33	SMR 71A4		
	11	204	117,82	2,06	KG33	SMR 71A4	38	418
	13	173	105,09	2,43	KG33	SMR 71A4		
	14	161	94,58	2,62	KG33	SMR 71A4		
	15	150	87,73	2,80	KG33	SMR 71A4		
	18	125	75,51	3,36	KG33	SMR 71A4		
21	107	62,82	3,93	KG33	SMR 71A4			
24	94	55,64	4,49	KG33	SMR 71A4			
18	127	76,17	3,30	KG32	SMB 71A4			
19	121	69,27	3,48	KG32	SMB 71A4	34	416	
21	109	64,45	3,85	KG32	SMB 71A4			
24	96	55,34	4,40	KG32	SMB 71A4			
11	204	121,90	1,03	KG23	SMB 71A4			
12	187	115,34	1,12	KG23	SMB 71A4			
13	173	100,57	1,21	KG23	SMB 71A4			
15	150	86,85	1,40	KG23	SMR 71A4			
17	132	77,44	1,59	KG23	SMR 71A4			
19	118	69,08	1,78	KG23	SMR 71A4	26	414	
22	102	62,17	2,06	KG23	SMR 71A4			
23	98	57,67	2,15	KG23	SMR 71A4			
27	83	49,63	2,52	KG23	SMR 71A4			
32	70	41,29	2,99	KG23	SMR 71A4			
37	61	36,57	3,46	KG23	SMR 71A4			
18	127	75,90	1,65	KG22	SMB 71A4			
20	115	67,62	1,83	KG22	SMB 71A4			
22	104	60,85	2,01	KG22	SMB 71A4			
24	96	56,35	2,20	KG22	SMB 71A4			
26	88	51,48	2,38	KG22	SMB 71A4			
31	74	43,91	2,84	KG22	SMB 71A4	22	412	
34	67	39,68	3,11	KG22	SMB 71A4			
37	62	36,09	3,39	KG22	SMB 71A4			
41	56	33,02	3,75	KG22	SMB 71A4			
43	53	31,05	3,94	KG22	SMB 71A4			
48	48	28,13	4,40	KG22	SMB 71A4			

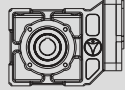


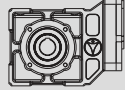

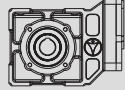

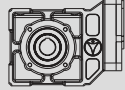

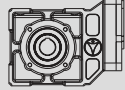

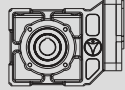

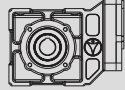



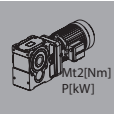
P	n ₂	Mt ₂	i	f _b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
0,25	54	42	24,73	4,95		KG22	SMB	71A4	22	412
	62	37	21,56	5,68		KG22	SMR	71A4		
	67	34	19,89	6,14		KG22	SMR	71A4		
	73	31	18,40	6,65		KG22	SMR	71A4		
	84	27	15,87	7,33		KG22	SMR	71A4		
	89	26	15,13	7,69		KG22	SMR	71A4		
	99	23	13,55	8,25		KG22	SMR	71A4		
	116	20	11,57	9,11		KG22	SMR	71A4		
	135	17	9,94	10,19		KG22	SMR	71A4		
	156	15	8,58	11,23		KG22	SMR	71A4		
	25	92	54,19	1,04		KG12	SMB	71A4	15	410
	27	85	49,05	1,12		KG12	SMB	71A4		
	31	74	43,53	1,28		KG12	SMB	71A4		
	36	64	37,73	1,49		KG12	SMB	71A4		
	39	59	33,95	1,60		KG12	SMB	71A4		
	44	52	30,76	1,75		KG12	SMB	71A4		
	48	48	28,03	1,84		KG12	SMB	71A4		
	53	43	25,15	1,96		KG12	SMB	71A4		
	56	41	23,80	2,05		KG12	SMB	71A4		
	65	35	20,75	2,30		KG12	SMB	71A4		
75	31	17,92	2,52	KG12	SMR	71A4				
84	27	15,98	2,71	KG12	SMR	71A4				
94	24	14,25	2,91	KG12	SMR	71A4				
104	22	12,83	3,13	KG12	SMR	71A4				
113	20	11,90	3,30	KG12	SMR	71A4				
131	18	10,24	3,60	KG12	SMR	71A4				
157	15	8,52	4,04	KG12	SMR	71A4				
178	13	7,55	4,50	KG12	SMR	71A4				
0,37	0,27	11830	4927,66	1,14		KG95	SMB	71B4	509	454
	0,3	10647	4452,50	1,27		KG95	SMB	71B4		
	0,33	9679	4050,43	1,39		KG95	SMB	71B4		
	0,36	8872	3705,80	1,52		KG95	SMB	71B4		
	0,38	8405	3484,56	1,61		KG95	SMB	71B4		
	0,42	7605	3156,95	1,78		KG95	SMB	71B4		
	0,48	6654	2774,74	2,03		KG95	SMB	71B4		
	0,55	5807	2419,83	2,32		KG95	SMR	71B4		
	0,6	5323	2231,94	2,54		KG95	SMR	71B4		
	0,65	4914	2064,93	2,75		KG95	SMR	71B4		
	0,75	4259	1781,00	3,17		KG95	SMR	71B4		
	0,79	4043	1697,61	3,34		KG95	SMR	71B4		
	0,88	3630	1521,04	3,72		KG95	SMR	71B4		
	1	3194	1298,90	4,23		KG95	SMR	71B4		
	0,4	7985	3349,19	1,03		KG85	SMB	71B4	281	448
	0,44	7259	3064,22	1,13		KG85	SMB	71B4		
	0,47	6796	2881,29	1,21		KG85	SMB	71B4		
	0,51	6263	2610,40	1,31		KG85	SMB	71B4		
	0,58	5507	2294,36	1,49		KG85	SMB	71B4		
	0,67	4767	2000,89	1,72		KG85	SMR	71B4		






P	n ₂	Mt ₂	i	f _b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
0,37	0,73	4375	1845,53	1,87		KG85	SMR	71B4	281	448
	0,78	4095	1707,43	2,00		KG85	SMR	71B4		
	0,91	3510	1472,66	2,34		KG85	SMR	71B4		
	0,95	3362	1403,70	2,44		KG85	SMR	71B4		
	1,1	2904	1257,70	2,82		KG85	SMR	71B4		
	1,2	2662	1074,03	3,08		KG85	SMR	71B4		
	1,5	2129	922,76	3,85		KG85	SMR	71B4		
	1,7	1879	796,03	4,36		KG85	SMR	71B4		
	1,6	2037	858,56	4,03		KG84	SMB	71B4		
	1,7	1917	780,35	4,28		KG84	SMB	71B4		
	0,74	4316	1798,97	1,09		KG75	SMB	71B4	167	442
	0,86	3714	1553,66	1,27		KG75	SMR	71B4		
	0,97	3293	1385,30	1,43		KG75	SMR	71B4		
	1,1	2904	1235,66	1,62		KG75	SMR	71B4		
	1,2	2662	1112,09	1,77		KG75	SMR	71B4		
	1,3	2457	1031,58	1,91		KG75	SMR	71B4		
	1,5	2129	887,80	2,21		KG75	SMR	71B4		
	1,8	1774	738,58	2,65		KG75	SMR	71B4		
	2	1597	654,17	2,94		KG75	SMR	71B4		
0,99	3292	1357,71	1,43	KG74	SMB	71B4	163	440		
1,1	2963	1209,60	1,59	KG74	SMB	71B4				
1,2	2716	1088,42	1,73	KG74	SMB	71B4				
1,3	2507	1008,00	1,87	KG74	SMB	71B4				
1,5	2173	920,97	2,16	KG74	SMB	71B4				
1,7	1917	785,45	2,45	KG74	SMB	71B4				
1,9	1715	709,71	2,74	KG74	SMB	71B4				
2,1	1552	645,63	3,03	KG74	SMB	71B4				
2,3	1417	590,69	3,32	KG74	SMB	71B4				
2,4	1358	555,43	3,46	KG74	SMB	71B4				
2,7	1207	503,21	3,89	KG74	SMB	71B4				
3	1086	442,29	4,33	KG74	SMB	71B4				
1,3	2457	1042,59	1,14	KG65	SMR	71B4			106	436
1,4	2281	938,33	1,23	KG65	SMR	71B4				
1,5	2129	870,39	1,31	KG65	SMR	71B4				
1,8	1774	749,08	1,58	KG65	SMR	71B4				
2,2	1452	623,18	1,93	KG65	SMR	71B4				
2,4	1331	551,96	2,10	KG65	SMR	71B4				
1,2	2716	1145,57	1,03	KG64	SMB	71B4	102	434		
1,3	2507	1020,60	1,12	KG64	SMB	71B4				
1,5	2173	918,35	1,29	KG64	SMB	71B4				
1,6	2037	850,50	1,37	KG64	SMB	71B4				
1,7	1917	777,07	1,46	KG64	SMB	71B4				
2	1630	662,73	1,72	KG64	SMB	71B4				
2,2	1481	598,82	1,89	KG64	SMB	71B4				
2,5	1304	544,75	2,15	KG64	SMB	71B4				
2,7	1207	498,40	2,32	KG64	SMB	71B4				
2,9	1124	468,64	2,49	KG64	SMB	71B4				
3,2	1018	424,58	2,75	KG64	SMB	71B4				

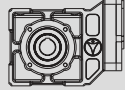


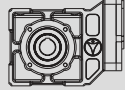


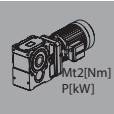
P	n ₂	Mt ₂	i	f _b			m						
[kW]	[min ⁻¹]	[Nm]					[kg]						
0,37	3,6	905	373,18	3,09			102	434					
	4,1	795	325,45	3,52					KG64	SMB	71B4		
	4,5	724	300,18	3,87					KG64	SMR	71B4		
	4,8	679	277,71	4,12					KG64	SMR	71B4		
	2,1	1521	626,67	1,02			71	430					
	2,4	1331	555,05	1,16					KG55	SMB	71B4		
	2,2	1481	602,18	1,05			67	428					
	2,4	1358	547,80	1,14					KG54	SMB	71B4		
	2,7	1207	501,19	1,28					KG54	SMB	71B4		
	2,8	1164	471,27	1,33					KG54	SMB	71B4		
	3,1	1051	426,97	1,47					KG54	SMB	71B4		
	3,6	905	375,27	1,71					KG54	SMB	71B4		
	4,1	795	327,27	1,95					KG54	SMR	71B4		
	4,4	741	301,86	2,09					KG54	SMR	71B4		
	4,8	679	279,27	2,28					KG54	SMR	71B4		
	5,6	582	240,87	2,66					KG54	SMR	71B4		
	5,8	562	229,59	2,76					KG54	SMR	71B4		
	6,5	501	205,71	3,09					KG54	SMR	71B4		
	7,6	429	175,67	3,61					KG54	SMR	71B4		
	8,9	366	150,93	4,23					KG54	SMR	71B4		
	9,5	350	140,43	4,43					KG53	SMB	71B4	62	426
	4,2	776	317,69	1,06							58	424	
	4,8	679	281,38	1,21	KG44	SMR	71B4						
	4,4	756	305,27	1,08			52	422					
	4,8	693	277,71	1,18					KG43	SMB	71B4		
	5,3	627	254,08	1,31					KG43	SMB	71B4		
	5,6	594	238,91	1,38					KG43	SMB	71B4		
	6,2	536	216,45	1,53					KG43	SMB	71B4		
	7	475	190,24	1,73					KG43	SMB	71B4		
	8,1	411	165,91	2,00					KG43	SMR	71B4		
	8,8	378	153,03	2,17					KG43	SMR	71B4		
	9,5	350	141,58	2,34					KG43	SMR	71B4		
	11	302	122,11	2,71					KG43	SMR	71B4		
	12	277	116,39	2,96					KG43	SMR	71B4		
	13	256	104,29	3,21					KG43	SMR	71B4		
	15	222	89,06	3,70					KG43	SMR	71B4		
	18	185	76,51	4,44					KG43	SMR	71B4		
	8,8	378	153,00	1,11			39	418					
	10	333	132,14	1,26					KG33	SMB	71B4		
	11	302	117,82	1,39					KG33	SMR	71B4		
	13	256	105,09	1,64					KG33	SMR	71B4		
	14	238	94,58	1,77					KG33	SMR	71B4		
	15	222	87,73	1,89					KG33	SMR	71B4		
	18	185	75,51	2,27					KG33	SMR	71B4		
	21	158	62,82	2,65					KG33	SMR	71B4		
	24	139	55,64	3,03					KG33	SMR	71B4		
	18	189	76,17	2,23					KG32	SMB	71B4	35	416
	19	179	69,27	2,35	KG32	SMB	71B4						






P	n ₂	Mt ₂	i	f _b			m					
[kW]	[min ⁻¹]	[Nm]					[kg]					
0,37	21	162	64,45	2,60	KG32	SMB	71B4	35	416			
	24	141	55,34	2,97		SMB	71B4					
	27	126	50,18	3,34		SMB	71B4					
	29	117	46,83	3,59		SMB	71B4					
	31	109	42,55	3,84		SMB	71B4					
	35	97	38,73	4,33		SMB	71B4					
	27	123	49,63	1,70		KG23	SMR			71B4	27	414
	32	104	41,29	2,02		KG23	SMR			71B4		
	37	90	36,57	2,34	KG23	SMR	71B4					
	18	189	75,90	1,11	KG22	SMB	71B4	23	412			
	20	170	67,62	1,24		SMB	71B4					
	22	154	60,85	1,36		SMB	71B4					
	24	141	56,35	1,49		SMB	71B4					
	26	131	51,48	1,61		SMB	71B4					
	31	109	43,91	1,92		SMB	71B4					
	34	100	39,68	2,10		SMB	71B4					
	37	92	36,09	2,29		SMB	71B4					
	41	83	33,02	2,54		SMB	71B4					
	43	79	31,05	2,66		SMB	71B4					
	48	71	28,13	2,97		SMB	71B4					
	54	63	24,73	3,34		SMB	71B4					
	62	55	21,56	3,84		SMR	71B4					
	67	51	19,89	4,15		SMR	71B4					
	73	46	18,40	4,50		SMR	71B4					
	84	40	15,87	4,95		SMR	71B4					
	89	38	15,13	5,19		SMR	71B4					
	99	34	13,55	5,57		SMR	71B4					
	116	29	11,57	6,15	SMR	71B4						
	135	25	9,94	6,88	SMR	71B4						
	156	22	8,58	7,58	SMR	71B4						
	39	87	33,95	1,08	KG12	SMB	71B4	16	410			
	44	77	30,76	1,18		SMB	71B4					
48	71	28,03	1,24	SMB		71B4						
53	64	25,15	1,33	SMB		71B4						
56	61	23,80	1,39	SMB		71B4						
65	52	20,75	1,55	SMB		71B4						
75	45	17,92	1,70	SMR		71B4						
84	40	15,98	1,83	SMR		71B4						
94	36	14,25	1,97	SMR		71B4						
104	33	12,83	2,11	SMR		71B4						
113	30	11,90	2,23	SMR		71B4						
131	26	10,24	2,43	SMR		71B4						
157	22	8,52	2,73	SMR		71B4						
178	19	7,55	3,04	SMR		71B4						
0,55	0,37	12832	3705,80	1,05	KG95	SMB	80A4	511	454			
	0,39	12174	3484,56	1,11		SMB	80A4					
	0,44	10791	3156,95	1,25		SMB	80A4					
	0,5	9496	2774,74	1,42		SMB	80A4					

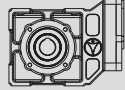




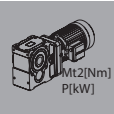
P	n ₂	Mt ₂	i	f _b			m					
[kW]	[min ⁻¹]	[Nm]					[kg]					
0,55	0,57	8330	2419,83	1,62		KG95	SMR	80A4	511	454		
	0,62	7658	2231,94	1,76		KG95	SMR	80A4				
	0,67	7086	2064,93	1,91		KG95	SMR	80A4				
	0,77	6166	1781,00	2,19		KG95	SMR	80A4				
	0,81	5862	1697,61	2,30		KG95	SMR	80A4				
	0,9	5275	1521,04	2,56		KG95	SMR	80A4				
	1,1	4316	1298,90	3,13		KG95	SMR	80A4				
	1,2	3957	1115,97	3,41		KG95	SMR	80A4				
	1,4	3391	962,70	3,98		KG95	SMR	80A4				
	0,6	7913	2294,36	1,04		KG85	SMB	80A4			283	448
	0,69	6881	2000,89	1,19		KG85	SMR	80A4				
	0,75	6330	1845,53	1,30		KG85	SMR	80A4				
	0,81	5862	1707,43	1,40		KG85	SMR	80A4				
	0,93	5105	1472,66	1,61		KG85	SMR	80A4				
	0,98	4845	1403,70	1,69		KG85	SMR	80A4				
	1,1	4316	1257,70	1,90		KG85	SMR	80A4				
	1,3	3652	1074,03	2,25		KG85	SMR	80A4				
	1,5	3165	922,76	2,59		KG85	SMR	80A4				
	1,7	2793	796,03	2,94		KG85	SMR	80A4				
2,1	2261	655,90	3,63	KG85	SMR	80A4						
1,6	3028	858,56	2,71	KG84	SMB	80A4	279	446				
1,8	2692	780,35	3,05	KG84	SMB	80A4						
1,9	2550	714,16	3,22	KG84	SMB	80A4						
2,1	2307	657,44	3,55	KG84	SMB	80A4						
2,3	2106	600,27	3,89	KG84	SMB	80A4						
2,5	1938	547,94	4,23	KG84	SMB	80A4						
1,1	4316	1235,66	1,09	KG75	SMR	80A4			169	442		
1,2	3957	1112,09	1,19	KG75	SMR	80A4						
1,3	3652	1031,58	1,29	KG75	SMR	80A4						
1,5	3165	887,80	1,48	KG75	SMR	80A4						
1,9	2499	738,58	1,88	KG75	SMR	80A4						
2,1	2261	654,17	2,08	KG75	SMR	80A4						
1,1	4404	1209,60	1,07	KG74	SMB	80A4					165	440
1,3	3727	1088,42	1,26	KG74	SMB	80A4						
1,4	3461	1008,00	1,36	KG74	SMB	80A4						
1,5	3230	920,97	1,46	KG74	SMB	80A4						
1,8	2692	785,45	1,75	KG74	SMB	80A4						
1,9	2550	709,71	1,84	KG74	SMB	80A4						
2,1	2307	645,63	2,04	KG74	SMB	80A4						
2,3	2106	590,69	2,23	KG74	SMB	80A4						
2,5	1938	555,43	2,43	KG74	SMB	80A4						
2,7	1794	503,21	2,62	KG74	SMB	80A4						
3,1	1563	442,29	3,01	KG74	SMB	80A4						
3,6	1346	385,71	3,49	KG74	SMR	80A4						
3,9	1242	355,76	3,78	KG74	SMR	80A4						
4,2	1154	329,14	4,07	KG74	SMR	80A4						
1,8	2638	749,08	1,06	KG65	SMR	80A4	108	436				
2,2	2158	623,18	1,30	KG65	SMR	80A4						






P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,55	2,5	1899	551,96	1,47	KG65	SMR 80A4	108	436
	1,8	2692	777,07	1,04	KG64	SMB 80A4		
	2,1	2307	662,73	1,21	KG64	SMB 80A4		
	2,3	2106	598,82	1,33	KG64	SMB 80A4		
	2,5	1938	544,75	1,44	KG64	SMB 80A4		
	2,8	1730	498,40	1,62	KG64	SMB 80A4		
	2,9	1671	468,64	1,68	KG64	SMB 80A4		
	3,2	1514	424,58	1,85	KG64	SMB 80A4		
	3,7	1309	373,18	2,14	KG64	SMB 80A4	104	434
	4,2	1154	325,45	2,43	KG64	SMR 80A4		
	4,6	1053	300,18	2,66	KG64	SMR 80A4		
	5	969	277,71	2,89	KG64	SMR 80A4		
	5,7	850	239,53	3,29	KG64	SMR 80A4		
	6	807	228,31	3,47	KG64	SMR 80A4		
	6,7	723	204,57	3,87	KG64	SMR 80A4		
	3,7	1309	375,27	1,18	KG54	SMB 80A4		
	4,2	1154	327,27	1,34	KG54	SMR 80A4		
	4,6	1053	301,86	1,47	KG54	SMR 80A4		
	4,9	989	279,27	1,57	KG54	SMR 80A4		
	5,7	850	240,87	1,82	KG54	SMR 80A4		
	6	807	229,59	1,92	KG54	SMR 80A4	69	428
	6,7	723	205,71	2,14	KG54	SMR 80A4		
	7,8	621	175,67	2,50	KG54	SMR 80A4		
	9,1	532	150,93	2,91	KG54	SMR 80A4		
	11	440	130,20	3,52	KG54	SMR 80A4		
	13	373	107,28	4,16	KG54	SMR 80A4		
	9,8	504	140,43	3,07	KG53	SMB 80A4		
	11	449	127,64	3,45	KG53	SMB 80A4		
	12	412	116,81	3,76	KG53	SMB 80A4	64	426
	13	380	107,53	4,08	KG53	SMB 80A4		
	14	353	98,18	4,39	KG53	SMB 80A4		
	6,4	772	216,45	1,06	KG43	SMB 80A4		
	7,2	687	190,24	1,19	KG43	SMB 80A4		
	8,3	596	165,91	1,38	KG43	SMR 80A4		
	9	549	153,03	1,49	KG43	SMR 80A4		
	9,7	510	141,58	1,61	KG43	SMR 80A4		
	11	449	122,11	1,82	KG43	SMR 80A4		
	12	412	116,39	1,99	KG43	SMR 80A4		
	13	380	104,29	2,16	KG43	SMR 80A4		
	15	330	89,06	2,49	KG43	SMR 80A4		
	18	275	76,51	2,99	KG43	SMR 80A4		
	21	235	66,00	3,48	KG43	SMR 80A4		
	25	198	54,39	4,15	KG43	SMR 80A4		
	19	266	71,19	3,09	KG43	SMB 80A4		
	21	240	64,70	3,41	KG43	SMB 80A4		
	23	219	59,22	3,74	KG43	SMB 80A4		
	25	202	54,51	4,06	KG43	SMB 80A4		
	13	380	105,09	1,10	KG33	SMR 80A4	41	418

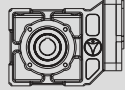




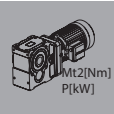
P	n ₂	Mt ₂	i	f _b			m					
[kW]	[min ⁻¹]	[Nm]					[kg]					
0,55	15	330	94,58	1,27	KG33	SMR	80A4	41	418			
	16	309	87,73	1,36		SMR	80A4					
	18	275	75,51	1,53		SMR	80A4					
	22	225	62,82	1,87		SMR	80A4					
	25	198	55,64	2,12		SMR	80A4					
	18	280	76,17	1,50		KG32	SMB			80A4	37	416
	20	252	69,27	1,67			SMB			80A4		
	21	240	64,45	1,75			SMB			80A4		
	25	202	55,34	2,08			SMB			80A4		
	27	187	50,18	2,25			SMB			80A4		
	29	174	46,83	2,41			SMB			80A4		
	32	158	42,55	2,66			SMB			80A4		
	36	140	38,73	3,00			SMB			80A4		
	39	129	35,24	3,25			SMB			80A4		
	44	115	31,09	3,66			SMB			80A4		
	49	103	28,23	4,08	SMR		80A4					
	53	95	25,80	4,41	SMR		80A4					
	24	206	57,67	1,02	KG23		SMR	80A4	29	414		
	28	177	49,63	1,19			SMR	80A4				
	33	150	41,29	1,40			SMR	80A4				
	38	130	36,57	1,61		SMR	80A4					
	24	210	56,35	1,00	KG22	SMB	80A4	25	412			
	27	187	51,48	1,12		SMB	80A4					
	31	163	43,91	1,29		SMB	80A4					
	35	144	39,68	1,46		SMB	80A4					
	38	133	36,09	1,58		SMB	80A4					
	42	120	33,02	1,75		SMB	80A4					
	44	115	31,05	1,83		SMB	80A4					
	49	103	28,13	2,04		SMB	80A4					
	56	90	24,73	2,33		SMB	80A4					
	64	79	21,56	2,66		SMR	80A4					
	69	73	19,89	2,87		SMR	80A4					
	75	67	18,40	3,11		SMR	80A4					
87	58	15,87	3,45	SMR		80A4						
91	55	15,13	3,57	SMR		80A4						
101	50	13,55	3,82	SMR		80A4						
119	42	11,57	4,25	SMR	80A4							
66	76	20,75	1,06	KG12	SMB	80A4	18	410				
77	66	17,92	1,18		SMR	80A4						
86	59	15,98	1,26		SMR	80A4						
96	53	14,25	1,35		SMR	80A4						
107	47	12,83	1,46		SMR	80A4						
116	43	11,90	1,54		SMR	80A4						
134	38	10,24	1,67		SMR	80A4						
161	31	8,52	1,88		SMR	80A4						
182	28	7,55	2,09		SMR	80A4						
0,75	0,5	12949	2774,74		1,04	KG95			SMB	80B4	512	454
	0,57	11358	2419,83	1,19	KG95	SMR	80B4					






P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
0,75	0,62	10442	2231,94	1,29	KG95	SMR	80B4		
	0,67	9663	2064,93	1,40		SMR	80B4		
	0,77	8408	1781,00	1,61		SMR	80B4		
	0,81	7993	1697,61	1,69		SMR	80B4		
	0,9	7194	1521,04	1,88		SMR	80B4	512	454
	1,1	5886	1298,90	2,29		SMR	80B4		
	1,2	5395	1115,97	2,50		SMR	80B4		
	1,4	4625	962,70	2,92		SMR	80B4		
	1,7	3808	793,23	3,54		SMR	80B4		
	0,81	7993	1707,43	1,03	KG85	SMR	80B4		
	0,93	6962	1472,66	1,18		SMR	80B4		
	0,98	6606	1403,70	1,24		SMR	80B4		
	1,1	5886	1257,70	1,39		SMR	80B4		
	1,3	4980	1074,03	1,65		SMR	80B4	284	448
	1,5	4316	922,76	1,90		SMR	80B4		
	1,7	3808	796,03	2,15		SMR	80B4		
	2,1	3083	655,90	2,66		SMR	80B4		
	1,6	4129	858,56	1,99		KG84	SMB	80B4	
	1,8	3670	780,35	2,23	SMB		80B4		
	1,9	3477	714,16	2,36	SMB		80B4		
	2,1	3146	657,44	2,61	SMB		80B4		
	2,3	2872	600,27	2,85	SMB		80B4	280	446
	2,5	2643	547,94	3,10	SMB		80B4		
	2,8	2359	493,55	3,48	SMB		80B4		
	3,2	2065	430,19	3,97	SMR		80B4		
	3,4	1943	404,89	4,22	SMR		80B4		
	1,5	4316	887,80	1,09	KG75	SMR	80B4		
	1,9	3408	738,58	1,38		SMR	80B4	170	442
	2,1	3083	654,17	1,52		SMR	80B4		
	1,4	4719	1008,00	1,00	KG74	SMB	80B4		
	1,5	4404	920,97	1,07		SMB	80B4		
	1,8	3670	785,45	1,28		SMB	80B4		
	1,9	3477	709,71	1,35		SMB	80B4		
	2,1	3146	645,63	1,49		SMB	80B4		
	2,3	2872	590,69	1,64		SMB	80B4		
	2,5	2643	555,43	1,78		SMB	80B4		
	2,7	2447	503,21	1,92		SMB	80B4	166	440
	3,1	2131	442,29	2,21		SMB	80B4		
	3,6	1835	385,71	2,56		SMR	80B4		
	3,9	1694	355,76	2,77		SMR	80B4		
	4,2	1573	329,14	2,99		SMR	80B4		
	4,8	1376	283,89	3,41		SMR	80B4		
	5,1	1295	270,59	3,63		SMR	80B4		
	5,7	1159	242,45	4,06		SMR	80B4		
	2,5	2590	551,96	1,08		KG65	SMR	80B4	109
	2,5	2643	544,75	1,06	KG64	SMB	80B4		
	2,8	2359	498,40	1,19		SMB	80B4	105	434
	2,9	2278	468,64	1,23		SMB	80B4		

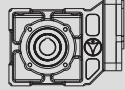


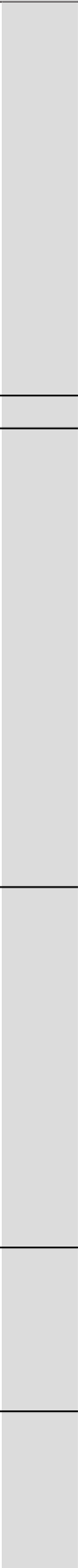


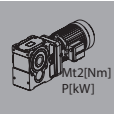
P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
0,75	3,2	2065	424,58	1,36	KG64	SMB	80B4	105	434
	3,7	1786	373,18	1,57		SMB	80B4		
	4,2	1573	325,45	1,78		SMR	80B4		
	4,6	1436	300,18	1,95		SMR	80B4		
	5	1321	277,71	2,12		SMR	80B4		
	5,7	1159	239,53	2,42		SMR	80B4		
	6	1101	228,31	2,54		SMR	80B4		
	6,7	986	204,57	2,84		SMR	80B4		
	7,9	836	174,69	3,35		SMR	80B4		
	9,2	718	150,09	3,90		SMR	80B4		
4,6	1436	301,86	1,08	KG54	SMR	80B4	70	428	
4,9	1348	279,27	1,15		SMR	80B4			
5,7	1159	240,87	1,34		SMR	80B4			
6	1101	229,59	1,41		SMR	80B4			
6,7	986	205,71	1,57		SMR	80B4			
7,8	847	175,67	1,83		SMR	80B4			
9,1	726	150,93	2,14		SMR	80B4			
11	601	130,20	2,58		SMR	80B4			
13	508	107,28	3,05		SMR	80B4			
9,8	688	140,43	2,25		KG53	SMB			80B4
11	613	127,64	2,53	SMB		80B4			
12	562	116,81	2,76	SMB		80B4			
13	519	107,53	2,99	SMB		80B4			
14	482	98,18	3,22	SMB		80B4			
15	449	89,62	3,45	SMB		80B4			
17	397	80,73	3,91	SMB		80B4			
18	375	74,90	3,60	SMB		80B4			
20	337	68,07	3,90	SMB		80B4			
22	306	62,30	4,20	SMB		80B4			
24	281	57,35	4,48	SMB	80B4				
8,3	812	165,91	1,01	KG43	SMR	80B4	55	422	
9	749	153,03	1,09		SMR	80B4			
9,7	695	141,58	1,18		SMR	80B4			
11	613	122,11	1,34		SMR	80B4			
12	562	116,39	1,46		SMR	80B4			
13	519	104,29	1,58		SMR	80B4			
15	449	89,06	1,82		SMR	80B4			
18	375	76,51	2,19		SMR	80B4			
21	321	66,00	2,55		SMR	80B4			
25	270	54,39	3,04		SMR	80B4			
19	362	71,19	2,26	KG43	SMB	80B4	42	418	
21	328	64,70	2,50		SMB	80B4			
23	299	59,22	2,74		SMB	80B4			
25	275	54,51	2,98		SMB	80B4			
28	246	49,77	3,34		SMB	80B4			
30	229	45,43	3,58		SMB	80B4			
34	202	40,92	4,05		SMB	80B4			
18	375	75,51	1,12		KG33	SMR			80B4






P	n ₂	Mt ₂	i	f _b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
0,75	22	306	62,82	1,37	KG33	SMR 80B4	42	418		
	25	270	55,64	1,56	KG33	SMR 80B4				
	18	382	76,17	1,10	KG32	SMB 80B4	37	416		
	20	344	69,27	1,22	KG32	SMB 80B4				
	21	328	64,45	1,28	KG32	SMB 80B4				
	25	275	55,34	1,53	KG32	SMB 80B4				
	27	255	50,18	1,65	KG32	SMB 80B4				
	29	237	46,83	1,77	KG32	SMB 80B4				
	32	215	42,55	1,95	KG32	SMB 80B4				
	36	191	38,73	2,20	KG32	SMB 80B4				
	39	176	35,24	2,38	KG32	SMB 80B4				
	44	156	31,09	2,69	KG32	SMB 80B4				
	49	140	28,23	2,99	KG32	SMR 80B4				
	53	130	25,80	3,24	KG32	SMR 80B4				
	56	123	24,36	3,42	KG32	SMR 80B4				
	65	106	21,27	3,97	KG32	SMR 80B4				
	73	94	18,91	4,46	KG32	SMR 80B4				
	38	177	36,57	1,18	KG23	SMR 80B4	30	414		
	35	197	39,68	1,07	KG22	SMB 80B4	26	412		
	38	181	36,09	1,16	KG22	SMB 80B4				
42	164	33,02	1,28	KG22	SMB 80B4					
44	156	31,05	1,34	KG22	SMB 80B4					
49	140	28,13	1,50	KG22	SMB 80B4					
56	123	24,73	1,71	KG22	SMB 80B4					
64	107	21,56	1,95	KG22	SMR 80B4					
69	100	19,89	2,11	KG22	SMR 80B4					
75	92	18,40	2,28	KG22	SMR 80B4					
87	79	15,87	2,53	KG22	SMR 80B4					
91	76	15,13	2,62	KG22	SMR 80B4					
101	68	13,55	2,80	KG22	SMR 80B4					
119	58	11,57	3,11	KG22	SMR 80B4					
138	50	9,94	3,47	KG22	SMR 80B4					
160	43	8,58	3,84	KG22	SMR 80B4					
195	35	7,07	4,42	KG22	SMR 80B4					
107	64	12,83	1,07	KG12	SMR 80B4	18	410			
116	59	11,90	1,13	KG12	SMR 80B4					
134	51	10,24	1,23	KG12	SMR 80B4					
161	43	8,52	1,38	KG12	SMR 80B4					
182	38	7,55	1,53	KG12	SMR 80B4					
1,10	0,79	12020	1781,00	1,12	KG95	SMR 90S4	516	454		
	0,83	11441	1697,61	1,18	KG95	SMR 90S4				
	0,93	10210	1521,04	1,32	KG95	SMR 90S4				
	1,1	8632	1298,90	1,56	KG95	SMR 90S4				
	1,3	7304	1115,97	1,85	KG95	SMR 90S4				
	1,5	6330	962,70	2,13	KG95	SMR 90S4				
	1,8	5275	793,23	2,56	KG95	SMR 90S4				
	2,1	4522	655,90	1,81	KG85	SMR 90S4			288	448
	1,6	6056	858,56	1,35	KG84	SMB 90S4			284	446

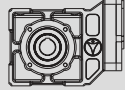




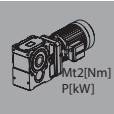
P	n ₂	Mt ₂	i	f _b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
1,10	1,8	5383	780,35	1,52		KG84	SMB	90S4	284	446
	2	4845	714,16	1,69		KG84	SMB	90S4		
	2,1	4614	657,44	1,78		KG84	SMB	90S4		
	2,3	4213	600,27	1,95		KG84	SMB	90S4		
	2,6	3727	547,94	2,20		KG84	SMB	90S4		
	2,9	3341	493,55	2,45		KG84	SMB	90S4		
	3,3	2936	430,19	2,79		KG84	SMB	90S4		
	3,5	2768	404,89	2,96		KG84	SMB	90S4		
	3,8	2550	373,50	3,22		KG84	SMR	90S4		
	4,2	2307	336,15	3,55		KG84	SMR	90S4		
	4,7	2062	302,36	3,98		KG84	SMR	90S4		
	5	1938	282,23	4,23		KG84	SMR	90S4		
	2,2	4316	654,17	1,09		KG75	SMR	90S4	174	442
	2,2	4404	645,63	1,07		KG74	SMB	90S4	170	440
	2,4	4037	590,69	1,16		KG74	SMB	90S4		
	2,5	3876	555,43	1,21		KG74	SMB	90S4		
	2,8	3461	503,21	1,36		KG74	SMB	90S4		
	3,2	3028	442,29	1,55		KG74	SMB	90S4		
	3,7	2619	385,71	1,79		KG74	SMB	90S4		
	4	2422	355,76	1,94		KG74	SMB	90S4		
	4,3	2253	329,14	2,09		KG74	SMR	90S4		
	5	1938	283,89	2,43		KG74	SMR	90S4		
5,2	1863	270,59	2,52	KG74	SMR	90S4				
5,8	1671	242,45	2,81	KG74	SMR	90S4				
6,8	1425	207,04	3,30	KG74	SMR	90S4				
7,9	1227	177,88	3,83	KG74	SMR	90S4				
9,2	1053	153,45	4,46	KG74	SMR	90S4				
3,8	2550	373,18	1,10	KG64	SMB	90S4	109	434		
4,3	2253	325,45	1,24	KG64	SMB	90S4				
4,7	2062	300,18	1,36	KG64	SMB	90S4				
5,1	1900	277,71	1,47	KG64	SMR	90S4				
5,9	1642	239,53	1,70	KG64	SMR	90S4				
6,2	1563	228,31	1,79	KG64	SMR	90S4				
6,9	1404	204,57	1,99	KG64	SMR	90S4				
8,1	1196	174,69	2,34	KG64	SMR	90S4				
9,4	1031	150,09	2,72	KG64	SMR	90S4				
11	881	129,47	3,18	KG64	SMR	90S4				
13	745	106,68	3,76	KG64	SMR	90S4				
6,9	1404	205,71	1,10	KG54	SMR	90S4	74	428		
8	1211	175,67	1,28	KG54	SMR	90S4				
9,3	1042	150,93	1,49	KG54	SMR	90S4				
11	881	130,20	1,76	KG54	SMR	90S4				
13	745	107,28	2,08	KG54	SMR	90S4				
10	989	140,43	1,57	KG53	SMB	90S4	69	426		
11	899	127,64	1,72	KG53	SMB	90S4				
12	824	116,81	1,88	KG53	SMB	90S4				
13	761	107,53	2,04	KG53	SMB	90S4				
14	706	98,18	2,19	KG53	SMB	90S4				






P	n ₂	Mt ₂	i	f _b			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
1,10	16	618	89,62	2,51		KG53	SMB	90S4			
	17	582	80,73	2,67		KG53	SMB	90S4			
	20	494	70,36	3,14		KG53	SMB	90S4			
	21	471	66,22	3,29		KG53	SMB	90S4			
	23	430	61,09	3,61		KG53	SMR	90S4			
	26	380	54,98	4,08		KG53	SMR	90S4			
	19	520	74,90	2,59		KG53	SMB	90S4		69	426
	23	430	62,30	2,99		KG53	SMB	90S4			
	25	395	57,35	3,18		KG53	SMB	90S4			
	27	366	52,36	3,35		KG53	SMB	90S4			
	29	341	47,80	3,51		KG53	SMB	90S4			
	33	300	43,05	3,89		KG53	SMB	90S4			
	38	260	37,53	4,30		KG53	SMB	90S4			
	40	247	35,32	4,47		KG53	SMB	90S4			
	12	824	122,11	1,00		KG43	SMR	90S4		59	422
14	706	104,29	1,16	KG43	SMR	90S4					
16	618	89,06	1,33	KG43	SMR	90S4					
18	549	76,51	1,49	KG43	SMR	90S4					
21	471	66,00	1,74	KG43	SMR	90S4					
26	380	54,39	2,16	KG43	SMR	90S4					
20	504	71,19	1,63	KG42	SMB	90S4	59	420			
22	459	64,70	1,79	KG42	SMB	90S4					
24	420	59,22	1,95	KG42	SMB	90S4					
26	388	54,51	2,11	KG42	SMB	90S4					
28	360	49,77	2,28	KG42	SMB	90S4					
31	325	45,43	2,52	KG42	SMB	90S4					
34	297	40,92	2,76	KG42	SMB	90S4					
40	252	35,67	3,15	KG42	SMB	90S4					
42	240	33,57	3,26	KG42	SMB	90S4					
46	219	30,97	3,49	KG42	SMR	90S4					
51	198	27,87	3,78	KG42	SMR	90S4					
56	180	25,07	4,02	KG42	SMR	90S4					
60	168	23,40	4,23	KG42	SMR	90S4					
25	395	55,64	1,06	KG33	SMR	90S4			46	418	
25	404	55,34	1,04	KG32	SMB	90S4			42	416	
28	360	50,18	1,17	KG32	SMB	90S4					
30	336	46,83	1,25	KG32	SMB	90S4					
33	306	42,55	1,37	KG32	SMB	90S4					
36	280	38,73	1,50	KG32	SMB	90S4					
40	252	35,24	1,67	KG32	SMB	90S4					
45	224	31,09	1,87	KG32	SMB	90S4					
50	202	28,23	2,08	KG32	SMB	90S4					
55	183	25,80	2,29	KG32	SMB	90S4					
58	174	24,36	2,41	KG32	SMR	90S4					
66	153	21,27	2,75	KG32	SMR	90S4					
75	135	18,91	3,12	KG32	SMR	90S4					
82	123	17,22	3,41	KG32	SMR	90S4					
94	107	14,96	3,75	KG32	SMR	90S4					

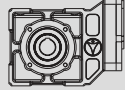




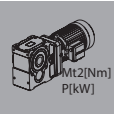
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
1,10	108	93	13,09	4,15	KG32	SMR 90S4	42	416
	50	202	28,13	1,04	KG22	SMB 90S4		
	57	177	24,73	1,19	KG22	SMB 90S4		
	65	155	21,56	1,35	KG22	SMB 90S4		
	71	142	19,89	1,48	KG22	SMB 90S4		
	77	131	18,40	1,60	KG22	SMR 90S4		
	89	113	15,87	1,76	KG22	SMR 90S4		
	93	108	15,13	1,83	KG22	SMR 90S4	30	412
	104	97	13,55	1,97	KG22	SMR 90S4		
	122	83	11,57	2,18	KG22	SMR 90S4		
	142	71	9,94	2,43	KG22	SMR 90S4		
	164	62	8,58	2,68	KG22	SMR 90S4		
	199	51	7,07	3,08	KG22	SMR 90S4		
	187	54	7,55	1,08	KG12	SMR 90S4	23	410
	1,50	1,1	11772	1298,90	1,15	KG95	SMR 90L4	
1,3		9961	1115,97	1,36	KG95	SMR 90L4	519	454
1,5		8632	962,70	1,56	KG95	SMR 90L4		
1,8		7194	793,23	1,88	KG95	SMR 90L4		
1,8		7194	796,03	1,14	KG85	SMR 90L4		
2,1		6166	655,90	1,33	KG85	SMR 90L4	291	448
1,8		7341	780,35	1,12	KG84	SMB 90L4		
2		6606	714,16	1,24	KG84	SMB 90L4		
2,1		6292	657,44	1,30	KG84	SMB 90L4		
2,3		5745	600,27	1,43	KG84	SMB 90L4		
2,6		5082	547,94	1,61	KG84	SMB 90L4		
2,8		4719	493,55	1,74	KG84	SMB 90L4		
3,3		4004	430,19	2,05	KG84	SMB 90L4		
3,5		3775	404,89	2,17	KG84	SMB 90L4	287	446
3,8		3477	373,50	2,36	KG84	SMR 90L4		
4,2		3146	336,15	2,61	KG84	SMR 90L4		
4,6		2872	302,36	2,85	KG84	SMR 90L4		
5		2643	282,23	3,10	KG84	SMR 90L4		
5,7		2318	247,73	3,54	KG84	SMR 90L4		
6,4		2065	219,23	3,97	KG84	SMR 90L4		
3,2		4129	442,29	1,14	KG74	SMB 90L4		
3,6		3670	385,71	1,28	KG74	SMB 90L4		
3,9		3388	355,76	1,39	KG74	SMB 90L4		
4,3		3073	329,14	1,53	KG74	SMR 90L4		
4,9		2697	283,89	1,74	KG74	SMR 90L4		
5,2		2541	270,59	1,85	KG74	SMR 90L4	173	440
5,8		2278	242,45	2,06	KG74	SMR 90L4		
6,8		1943	207,04	2,42	KG74	SMR 90L4		
7,9		1673	177,88	2,81	KG74	SMR 90L4		
9,2		1436	153,45	3,27	KG74	SMR 90L4		
11		1201	126,44	3,91	KG74	SMR 90L4		
5,1		2591	277,71	1,08	KG64	SMR 90L4		
5,9		2239	239,53	1,25	KG64	SMR 90L4	112	434
6,2	2131	228,31	1,31	KG64	SMR 90L4			






P	n ₂	Mt ₂	i	f _b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
1,50	6,9	1915	204,57	1,46		KG64	SMR	90L4	112	434
	8	1652	174,69	1,70		KG64	SMR	90L4		
	9,4	1406	150,09	1,99		KG64	SMR	90L4		
	11	1201	129,47	2,33		KG64	SMR	90L4		
	13	1016	106,68	2,75		KG64	SMR	90L4		
	9,3	1421	150,93	1,09		KG54	SMR	90L4	77	428
	11	1201	130,20	1,29		KG54	SMR	90L4		
	13	1016	107,28	1,53		KG54	SMR	90L4		
	10	1348	140,43	1,15		KG53	SMB	90L4	72	426
	11	1226	127,64	1,26		KG53	SMB	90L4		
	12	1124	116,81	1,38		KG53	SMB	90L4		
	13	1037	107,53	1,49		KG53	SMB	90L4		
	14	963	98,18	1,61		KG53	SMB	90L4		
	16	843	89,62	1,84		KG53	SMB	90L4		
	17	793	80,73	1,95		KG53	SMB	90L4		
	20	674	70,36	2,30		KG53	SMB	90L4		
	21	642	66,22	2,41		KG53	SMB	90L4		
	23	586	61,09	2,64		KG53	SMR	90L4		
	26	519	54,98	2,99		KG53	SMR	90L4		
	28	482	49,45	3,22		KG53	SMR	90L4		
30	449	46,16	3,45	KG53	SMR	90L4				
35	385	40,52	4,02	KG53	SMR	90L4				
39	346	35,86	4,46	KG53	SMR	90L4				
19	710	74,90	1,90	KG53	SMB	90L4				
24	562	57,35	2,24	KG53	SMB	90L4				
27	499	52,36	2,45	KG53	SMB	90L4				
29	465	47,80	2,57	KG53	SMB	90L4				
33	409	43,05	2,85	KG53	SMB	90L4				
37	364	37,53	3,07	KG53	SMB	90L4				
40	337	35,32	3,28	KG53	SMB	90L4				
43	314	32,58	3,44	KG53	SMR	90L4				
48	281	29,32	3,74	KG53	SMR	90L4				
53	254	26,38	4,00	KG53	SMR	90L4				
57	237	24,62	4,21	KG53	SMR	90L4				
18	749	76,51	1,09	KG43	SMR	90L4	62	422		
21	642	66,00	1,28	KG43	SMR	90L4				
26	519	54,39	1,58	KG43	SMR	90L4				
20	688	71,19	1,19	KG42	SMB	90L4	61	420		
22	625	64,70	1,31	KG42	SMB	90L4				
24	573	59,22	1,43	KG42	SMB	90L4				
26	529	54,51	1,55	KG42	SMB	90L4				
28	491	49,77	1,67	KG42	SMB	90L4				
31	444	45,43	1,85	KG42	SMB	90L4				
34	405	40,92	2,03	KG42	SMB	90L4				
39	353	35,67	2,25	KG42	SMB	90L4				
42	328	33,57	2,39	KG42	SMB	90L4				
45	306	30,97	2,51	KG42	SMR	90L4				
50	275	27,87	2,71	KG42	SMR	90L4				

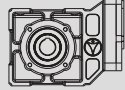




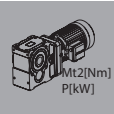
P	n ₂	Mt ₂	i	f _b			m					
[kW]	[min ⁻¹]	[Nm]					[kg]					
1,50	56	246	25,07	2,95	KG42	SMR	90L4	61	420			
	60	229	23,40	3,10		SMR	90L4					
	68	202	20,54	3,39		SMR	90L4					
	77	179	18,18	3,67		SMR	90L4					
	36	382	38,73	1,10	KG32	SMB	90L4	44	416			
	40	344	35,24	1,22		SMB	90L4					
	45	306	31,09	1,37		SMB	90L4					
	50	275	28,23	1,53		SMB	90L4					
	54	255	25,80	1,65		SMB	90L4					
	58	237	24,36	1,77		SMR	90L4					
	66	208	21,27	2,01		SMR	90L4					
	74	186	18,91	2,26		SMR	90L4					
	82	168	17,22	2,50		SMR	90L4					
	94	146	14,96	2,75		SMR	90L4					
107	129	13,09	3,02	SMR		90L4						
71	194	19,89	1,08	KG22		SMB	90L4			32	412	
76	181	18,40	1,15		SMR	90L4						
89	155	15,87	1,29		SMR	90L4						
93	148	15,13	1,34		SMR	90L4						
104	132	13,55	1,44		SMR	90L4						
121	114	11,57	1,58		SMR	90L4						
141	98	9,94	1,77		SMR	90L4						
164	84	8,58	1,97		SMR	90L4						
199	69	7,07	2,26		SMR	90L4						
2,20	1,5	12661	962,70		1,07	KG95	SMR	100L4	524			454
	1,8	10551	793,23	1,28	SMR		100L4					
	1,6	12112	886,86	1,11	KG94	SMB	100L4	516	452			
	1,9	10199	760,01	1,32		SMB	100L4					
	2	9689	694,93	1,39		SMB	100L4					
	2,3	8426	616,61	1,60		SMB	100L4					
	2,6	7453	548,50	1,81		SMB	100L4					
	2,7	7177	516,23	1,88		SMB	100L4					
	3	6460	469,90	2,09		SMB	100L4					
	3,3	5872	421,59	2,30		SMR	100L4					
	3,7	5238	382,39	2,58		SMR	100L4					
	4	4845	353,21	2,79		SMR	100L4					
	4,5	4306	311,38	3,13		SMR	100L4					
	5,1	3800	276,82	3,55		SMR	100L4					
	5,7	3400	246,38	3,97		SMR	100L4					
	6	3230	234,95	4,18		SMR	100L4					
	2,6	7453	547,94	1,10		KG84	SMB			100L4	292	446
	2,9	6682	493,55	1,23			SMB			100L4		
	3,3	5872	430,19	1,40			SMB			100L4		
	3,5	5537	404,89	1,48			SMB			100L4		
	3,8	5100	373,50	1,61	SMB		100L4					
	4,2	4614	336,15	1,78	SMR		100L4					
	4,7	4123	302,36	1,99	SMR		100L4					
	5	3876	282,23	2,12	SMR		100L4					






P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
2,20	5,7	3400	247,73	2,41	KG84	SMR 100L4		
	6,4	3028	219,23	2,71	KG84	SMR 100L4		
	7,6	2550	184,70	3,22	KG84	SMR 100L4	292	446
	9	2153	157,31	3,81	KG84	SMR 100L4		
	10	1938	135,06	4,23	KG84	SMR 100L4		
	5	3876	283,89	1,21	KG74	SMR 100L4		
	5,2	3727	270,59	1,26	KG74	SMR 100L4		
	5,8	3341	242,45	1,41	KG74	SMR 100L4		
	6,8	2850	207,04	1,65	KG74	SMR 100L4	178	440
	7,9	2453	177,88	1,92	KG74	SMR 100L4		
	9,2	2106	153,45	2,23	KG74	SMR 100L4		
	11	1762	126,44	2,67	KG74	SMR 100L4		
	10	1977	141,36	2,38	KG73	SMB 100L4		
	12	1648	121,14	2,85	KG73	SMB 100L4		
	13	1521	110,77	3,09	KG73	SMB 100L4		
	14	1412	98,29	3,33	KG73	SMB 100L4	171	438
	16	1236	87,43	3,80	KG73	SMB 100L4		
	17	1163	82,29	4,04	KG73	SMB 100L4		
	19	1041	74,22	4,07	KG73	SMB 100L4		
	8,1	2392	174,69	1,17	KG64	SMR 100L4		
	9,4	2062	150,09	1,36	KG64	SMR 100L4	117	434
	11	1762	129,47	1,59	KG64	SMR 100L4		
	13	1491	106,68	1,88	KG64	SMR 100L4		
	12	1648	119,27	1,70	KG63	SMB 100L4		
	14	1412	102,21	1,98	KG63	SMB 100L4		
	15	1318	93,46	2,12	KG63	SMB 100L4		
	17	1163	82,93	2,41	KG63	SMB 100L4		
	19	1041	73,77	2,69	KG63	SMB 100L4		
	20	989	69,43	2,81	KG63	SMB 100L4		
	22	899	63,20	3,01	KG63	SMB 100L4		
	25	791	56,70	3,32	KG63	SMR 100L4		
	27	732	51,43	3,45	KG63	SMR 100L4		
	30	659	47,50	3,75	KG63	SMR 100L4	109	432
	34	582	41,88	4,13	KG63	SMR 100L4		
	38	520	37,23	4,49	KG63	SMR 100L4		
	24	824	58,15	2,54	KG63	SMB 100L4		
	31	638	45,90	3,08	KG63	SMB 100L4		
	33	599	43,20	3,23	KG63	SMB 100L4		
	36	549	39,32	3,43	KG63	SMB 100L4		
	40	494	35,28	3,70	KG63	SMR 100L4		
	44	449	32,00	3,92	KG63	SMR 100L4		
	48	412	29,56	4,19	KG63	SMR 100L4		
	13	1491	107,28	1,04	KG54	SMR 100L4	82	428
	14	1412	98,18	1,10	KG53	SMB 100L4		
	16	1236	89,62	1,25	KG53	SMB 100L4		
	17	1163	80,73	1,33	KG53	SMB 100L4	77	426
	20	989	70,36	1,57	KG53	SMB 100L4		
	21	942	66,22	1,65	KG53	SMB 100L4		

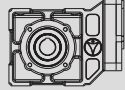




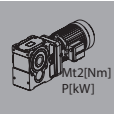
P	n ₂	Mt ₂	i	f _b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
2,20	23	860	61,09	1,80	KG53	SMB	100L4	77	426	
	26	761	54,98	2,04		SMR	100L4			
	29	682	49,45	2,27		SMR	100L4			
	31	638	46,16	2,43		SMR	100L4			
	35	565	40,52	2,74		SMR	100L4			
	39	507	35,86	3,04		SMR	100L4			
	47	421	30,21	3,51		SMR	100L4			
	55	360	25,73	3,93		SMR	100L4			
	64	309	22,09	4,38		SMR	100L4			
	27	732	52,36	1,67		SMR	100L4			
	33	599	43,05	1,95		SMB	100L4			
	38	520	37,53	2,15		SMB	100L4			
	40	494	35,32	2,23		SMB	100L4			
	43	460	32,58	2,34		SMB	100L4			
	48	412	29,32	2,55		SMR	100L4			
	53	373	26,38	2,73		SMR	100L4			
	57	347	24,62	2,87		SMR	100L4			
	65	304	21,61	3,12		SMR	100L4			
	74	267	19,12	3,45		SMR	100L4			
	88	225	16,11	3,92		SMR	100L4			
103	192	13,72	4,39	SMR	100L4					
26	761	54,39	1,08	KG43	SMR	100L4	67	422		
24	841	59,22	0,98	KG42	SMB	100L4	66	420		
26	776	54,51	1,06	KG42	SMB	100L4				
28	721	49,77	1,14	KG42	SMB	100L4				
31	651	45,43	1,26	KG42	SMB	100L4				
34	593	40,92	1,38	KG42	SMB	100L4				
40	504	35,67	1,58	KG42	SMB	100L4				
42	480	33,57	1,63	KG42	SMB	100L4				
46	439	30,97	1,75	KG42	SMB	100L4				
51	396	27,87	1,89	KG42	SMR	100L4				
56	360	25,07	2,01	KG42	SMR	100L4				
60	336	23,40	2,11	KG42	SMR	100L4				
69	292	20,54	2,35	KG42	SMR	100L4				
78	259	18,18	2,53	KG42	SMR	100L4				
92	219	15,31	2,87	KG42	SMR	100L4				
108	187	13,04	3,24	KG42	SMR	100L4				
126	160	11,20	3,64	KG42	SMR	100L4				
146	138	9,67	4,06	KG42	SMR	100L4				
168	120	8,38	4,49	KG42	SMR	100L4				
50	404	28,23	1,04	KG32	SMB	100L4			49	416
55	367	25,80	1,14	KG32	SMB	100L4				
58	348	24,36	1,21	KG32	SMB	100L4				
66	306	21,27	1,37	KG32	SMR	100L4				
75	269	18,91	1,56	KG32	SMR	100L4				
82	246	17,22	1,71	KG32	SMR	100L4				
94	215	14,96	1,87	KG32	SMR	100L4				
108	187	13,09	2,08	KG32	SMR	100L4				





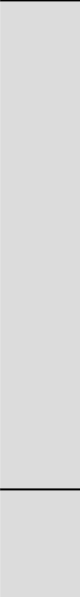


P	n ₂	Mt ₂	i	f _b			m						
[kW]	[min ⁻¹]	[Nm]					[kg]						
2,20	130	155	10,83	2,38	KG32	SMR 100L4	49	416					
	156	129	9,03	2,71									
	186	108	7,57	3,07									
	209	97	6,73	3,36									
3,00	122	165	11,57	1,09	KG22	SMR 100L4	37	412					
	142	142	9,94	1,22									
	164	123	8,58	1,34									
	199	101	7,07	1,54									
3,00	2,3	11489	616,61	1,17	KG94	SMB 100Ld4	518	452					
	2,6	10164	548,50	1,33									
	2,7	9787	516,23	1,38									
	3	8809	469,90	1,53									
	3,3	8008	421,59	1,69									
	3,7	7142	382,39	1,89									
	4	6606	353,21	2,04									
	4,5	5872	311,38	2,30									
	5,1	5182	276,82	2,61									
	5,7	4636	246,38	2,91									
	6	4404	234,95	3,07									
	7	3775	201,75	3,58									
	8,1	3262	174,77	4,14									
	3,00	3,5	7550	404,89					1,09	KG84	SMB 100Ld4	294	446
		3,8	6954	373,50					1,18				
		4,2	6292	336,15					1,30				
4,7		5623	302,36	1,46									
5		5285	282,23	1,55									
5,7		4636	247,73	1,77									
6,4		4129	219,23	1,99									
7,6		3477	184,70	2,36									
9		2936	157,31	2,79									
10		2643	135,06	3,10									
3,00	12	2202	116,62	3,72	KG84	SMR 100Ld4	180	440					
	14	1888	101,10	4,34									
	6,8	3886	207,04	1,21					KG74	SMR 100Ld4	173	438	
	7,9	3345	177,88	1,41									
9,2	2872	153,45	1,64										
11	2402	126,44	1,96										
3,00	10	2697	141,36	1,74	KG73	SMB 100Ld4	173	438					
	12	2247	121,14	2,09									
	13	2074	110,77	2,27									
	14	1926	98,29	2,44									
	16	1685	87,43	2,79									
	17	1586	82,29	2,96									
	19	1419	74,90	3,31									
	21	1284	67,20	3,66									
	23	1172	60,95	4,01									
	25	1079	56,30	4,36									
22	1226	63,60	3,33	KG73	SMB 100Ld4								

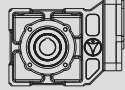




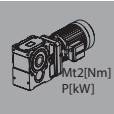
P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
3,00	24	1124	58,15	3,55	KG73	SMB	100Ld4	173	438
	27	999	51,60	3,88					
	31	870	45,90	4,33					
	11	2402	129,47	1,17	KG64	SMR	100Ld4	119	434
	13	2033	106,68	1,38					
	12	2247	119,27	1,25	KG63	SMB	100Ld4		
	14	1926	102,21	1,45					
	15	1798	93,46	1,56					
	17	1586	82,93	1,77	KG63	SMB	100Ld4		
	19	1419	73,77	1,97					
	20	1348	69,43	2,06					
	22	1226	63,20	2,21	KG63	SMB	100Ld4		
	25	1079	56,70	2,43					
	27	999	51,43	2,53					
	30	899	47,50	2,75	KG63	SMR	100Ld4		
	34	793	41,88	3,03					
	38	710	37,23	3,29					
	43	627	33,14	3,64	KG63	SMR	100Ld4	111	432
	45	599	31,60	3,74					
	52	519	27,13	4,15					
	31	870	45,90	2,26	KG63	SMB	100Ld4		
	33	817	43,20	2,37					
	36	749	39,32	2,52					
	40	674	35,28	2,71	KG63	SMR	100Ld4		
	44	613	32,00	2,87					
	48	562	29,56	3,07					
	54	499	26,06	3,35	KG63	SMR	100Ld4		
	61	442	23,17	3,68					
	68	397	20,62	4,01					
	72	375	19,66	4,17	KG63	SMR	100Ld4		
	17	1586	80,73	0,98					
	20	1348	70,36	1,15					
	21	1284	66,22	1,21	KG53	SMB	100Ld4		
23	1172	61,09	1,32						
26	1037	54,98	1,49						
29	930	49,45	1,67	KG53	SMR	100Ld4			
31	870	46,16	1,78						
35	770	40,52	2,01						
39	691	35,86	2,23	KG53	SMR	100Ld4	79	426	
47	574	30,21	2,57						
55	490	25,73	2,88						
64	421	22,09	3,21	KG53	SMR	100Ld4			
74	364	19,08	3,55						
85	317	16,54	3,90						
27	999	52,36	1,23	KG53	SMB	100Ld4			
33	817	43,05	1,43						
38	710	37,53	1,58						
40	674	35,32	1,64	KG53	SMB	100Ld4			






P	n ₂	Mt ₂	i	f _b			m					
[kW]	[min ⁻¹]	[Nm]					[kg]					
3,00	43	627	32,58	1,72		KG53	SMB	100Ld4	79	426		
	48	562	29,32	1,87		KG53	SMR	100Ld4				
	53	509	26,38	2,00		KG53	SMR	100Ld4				
	57	473	24,62	2,11		KG53	SMR	100Ld4				
	65	415	21,61	2,29		KG53	SMR	100Ld4				
	88	306	16,11	2,88		KG53	SMR	100Ld4				
	103	262	13,72	3,22		KG53	SMR	100Ld4				
	120	225	11,78	3,59		KG53	SMR	100Ld4				
	139	194	10,17	3,98		KG53	SMR	100Ld4				
	160	169	8,82	4,38		KG53	SMR	100Ld4				
	34	809	40,92	1,01		KG42	SMB	100Ld4			68	420
	40	688	35,67	1,16		KG42	SMB	100Ld4				
	42	655	33,57	1,20		KG42	SMB	100Ld4				
	46	598	30,97	1,28		KG42	SMB	100Ld4				
	51	540	27,87	1,38		KG42	SMR	100Ld4				
	56	491	25,07	1,48		KG42	SMR	100Ld4				
	60	459	23,40	1,55		KG42	SMR	100Ld4				
	69	399	20,54	1,72		KG42	SMR	100Ld4				
78	353	18,18	1,86	KG42	SMR	100Ld4						
92	299	15,31	2,10	KG42	SMR	100Ld4						
108	255	13,04	2,37	KG42	SMR	100Ld4						
126	218	11,20	2,67	KG42	SMR	100Ld4						
146	188	9,67	2,98	KG42	SMR	100Ld4						
168	164	8,38	3,29	KG42	SMR	100Ld4						
82	336	17,22	1,25	KG32	SMR	100Ld4	51	416				
94	293	14,96	1,37	KG32	SMR	100Ld4						
108	255	13,09	1,52	KG32	SMR	100Ld4						
130	212	10,83	1,74	KG32	SMR	100Ld4						
156	176	9,03	1,99	KG32	SMR	100Ld4						
186	148	7,57	2,25	KG32	SMR	100Ld4						
209	132	6,73	2,46	KG32	SMR	100Ld4						
199	138	7,07	1,13	KG22	SMR	100Ld4			39	412		
4,00	2,8	12584	516,23	1,07		KG94	SMB	112M4	523	452		
	3	11745	469,90	1,15		KG94	SMB	112M4				
	3,4	10363	421,59	1,30		KG94	SMR	112M4				
	3,7	9523	382,39	1,42		KG94	SMR	112M4				
	4	8809	353,21	1,53		KG94	SMR	112M4				
	4,6	7660	311,38	1,76		KG94	SMR	112M4				
	5,1	6909	276,82	1,95		KG94	SMR	112M4				
	5,8	6075	246,38	2,22		KG94	SMR	112M4				
	6	5872	234,95	2,30		KG94	SMR	112M4				
	7	5033	201,75	2,68		KG94	SMR	112M4				
	8,1	4350	174,77	3,10		KG94	SMR	112M4				
	9	3915	157,33	3,45		KG94	SMR	112M4				
	11	3203	133,59	4,21		KG94	SMR	112M4				
	4,7	7497	302,36	1,09		KG84	SMR	112M4			299	446
	5	7047	282,23	1,16		KG84	SMR	112M4				
5,7	6181	247,73	1,33	KG84	SMR	112M4						

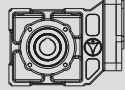




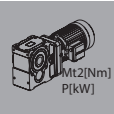
P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
4,00	6,5	5421	219,23	1,51	KG84	SMR	112M4	299	446
	7,7	4576	184,70	1,79		SMR	112M4		
	9	3915	157,31	2,09		SMR	112M4		
	11	3203	135,06	2,56		SMR	112M4		
	12	2936	116,62	2,79		SMR	112M4		
	14	2517	101,10	3,26		SMR	112M4		
	17	2073	83,85	3,96		SMR	112M4		
8	4404	177,88	1,07	KG74	SMR	112M4	185	440	
9,3	3789	153,45	1,24		SMR	112M4			
11	3203	126,44	1,47		SMR	112M4			
10	3595	141,36	1,31	KG73	SMB	112M4	178	438	
12	2996	121,14	1,57		SMB	112M4			
13	2766	110,77	1,70		SMB	112M4			
14	2568	98,29	1,83		SMB	112M4			
16	2247	87,43	2,09		SMB	112M4			
17	2115	82,29	2,22		SMB	112M4			
19	1892	74,90	2,48		SMB	112M4			
21	1712	67,20	2,75		SMR	112M4			
23	1563	60,95	3,01		SMR	112M4			
25	1438	56,30	3,27		SMR	112M4			
29	1240	49,63	3,79		SMR	112M4			
32	1124	44,12	4,18		SMR	112M4			
19	1892	74,22	2,24		SMB	112M4			
22	1634	63,60	2,50		SMB	112M4			
24	1498	58,15	2,66		SMB	112M4			
28	1284	51,60	3,02		SMB	112M4			
31	1160	45,90	3,25		SMB	112M4			
33	1090	43,20	3,40		SMB	112M4			
36	999	39,32	3,63		SMB	112M4			
40	899	35,28	3,93		SMR	112M4			
44	817	32,00	4,19		SMR	112M4			
48	749	29,56	4,49	SMR	112M4				
14	2568	102,21	1,09	KG63	SMB	112M4	116	432	
15	2397	93,46	1,17		SMB	112M4			
17	2115	82,93	1,32		SMB	112M4			
19	1892	73,77	1,48		SMB	112M4			
20	1798	69,43	1,54		SMB	112M4			
22	1634	63,20	1,65		SMB	112M4			
25	1438	56,70	1,83		SMR	112M4			
28	1284	51,43	1,97		SMR	112M4			
30	1198	47,50	2,07		SMR	112M4			
34	1057	41,88	2,27		SMR	112M4			
38	946	37,23	2,47		SMR	112M4			
43	836	33,14	2,73		SMR	112M4			
45	799	31,60	2,80		SMR	112M4			
52	691	27,13	3,11		SMR	112M4			
60	599	23,50	3,45		SMR	112M4			
67	537	21,16	3,77		SMR	112M4			






P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
4,00	79	455	17,97	4,21		KG63	SMR	112M4	
	31	1160	45,90	1,70		KG63	SMB	112M4	
	33	1090	43,20	1,77		KG63	SMB	112M4	
	36	999	39,32	1,89		KG63	SMB	112M4	
	40	899	35,28	2,04		KG63	SMR	112M4	
	44	817	32,00	2,15		KG63	SMR	112M4	
	48	749	29,56	2,30		KG63	SMR	112M4	
	54	666	26,06	2,51		KG63	SMR	112M4	
	61	589	23,17	2,76		KG63	SMR	112M4	
	69	521	20,62	3,05		KG63	SMR	112M4	
	72	499	19,66	3,13		KG63	SMR	112M4	
	84	428	16,88	3,50		KG63	SMR	112M4	
	97	371	14,63	3,89		KG63	SMR	112M4	
	108	333	13,17	4,23		KG63	SMR	112M4	
	26	1383	54,98	1,12		KG53	SMR	112M4	
29	1240	49,45	1,25	KG53	SMR	112M4			
31	1160	46,16	1,34	KG53	SMR	112M4			
35	1027	40,52	1,51	KG53	SMR	112M4			
40	899	35,86	1,72	KG53	SMR	112M4			
47	765	30,21	1,93	KG53	SMR	112M4			
55	654	25,73	2,16	KG53	SMR	112M4			
64	562	22,09	2,41	KG53	SMR	112M4			
74	486	19,08	2,66	KG53	SMR	112M4			
86	418	16,54	2,96	KG53	SMR	112M4			
104	346	13,71	3,36	KG53	SMR	112M4			
33	1090	43,05	1,07	KG53	SMB	112M4			
38	946	37,53	1,18	KG53	SMB	112M4			
44	817	32,58	1,32	KG53	SMB	112M4			
48	749	29,32	1,40	KG53	SMR	112M4			
54	666	26,38	1,53	KG53	SMR	112M4			
58	620	24,62	1,61	KG53	SMR	112M4			
66	545	21,61	1,74	KG53	SMR	112M4			
88	409	16,11	2,16	KG53	SMR	112M4			
103	349	13,72	2,42	KG53	SMR	112M4			
121	297	11,78	2,72	KG53	SMR	112M4			
140	257	10,17	3,01	KG53	SMR	112M4			
161	223	8,82	3,31	KG53	SMR	112M4			
194	185	7,31	3,74	KG53	SMR	112M4			
51	719	27,87	1,04	KG42	SMR	112M4			
57	644	25,07	1,13	KG42	SMR	112M4			
61	601	23,40	1,18	KG42	SMR	112M4			
69	532	20,54	1,29	KG42	SMR	112M4			
78	470	18,18	1,39	KG42	SMR	112M4			
93	394	15,31	1,59	KG42	SMR	112M4			
109	337	13,04	1,80	KG42	SMR	112M4			
127	289	11,20	2,02	KG42	SMR	112M4			
147	250	9,67	2,25	KG42	SMR	112M4			
169	217	8,38	2,48	KG42	SMR	112M4			

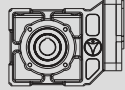


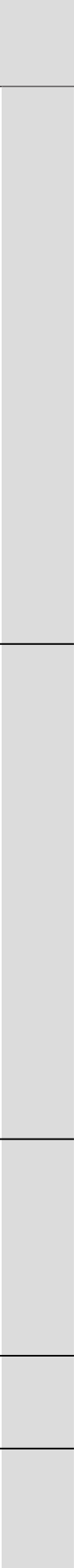
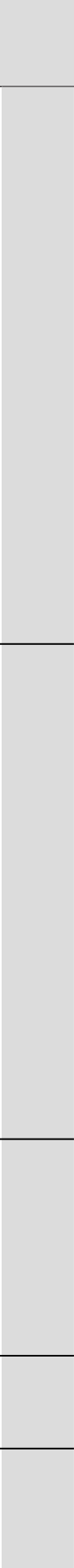


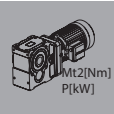
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
4,00	204	180	6,95	2,84	KG42	SMR 112M4	74	420
	95	386	14,96	1,04	KG32	SMR 112M4		
	108	340	13,09	1,14	KG32	SMR 112M4		
	131	280	10,83	1,32	KG32	SMR 112M4	57	416
	157	234	9,03	1,50	KG32	SMR 112M4		
	188	195	7,57	1,71	KG32	SMR 112M4		
	211	174	6,73	1,86	KG32	SMR 112M4		
5,50	3,8	12749	382,39	1,06	KG94	SMB 132S4		
	4,1	11816	353,21	1,14	KG94	SMB 132S4		
	4,7	10308	311,38	1,31	KG94	SMR 132S4		
	5,2	9317	276,82	1,45	KG94	SMR 132S4		
	5,9	8211	246,38	1,64	KG94	SMR 132S4		
	6,2	7814	234,95	1,73	KG94	SMR 132S4		
	7,2	6729	201,75	2,01	KG94	SMR 132S4	548	452
	8,3	5837	174,77	2,31	KG94	SMR 132S4		
	9,2	5266	157,33	2,56	KG94	SMR 132S4		
	11	4404	133,59	3,07	KG94	SMR 132S4		
	13	3727	112,67	3,62	KG94	SMR 132S4		
	15	3230	99,13	4,18	KG94	SMR 132S4		
	8,5	5816	170,73	2,32	KG93	SMB 132S4		
	9,3	5316	156,36	2,54	KG93	SMB 132S4		
	10	4944	140,35	2,73	KG93	SMB 132S4		
	11	4494	126,12	3,00	KG93	SMB 132S4		
	13	3803	114,27	3,55	KG93	SMB 132S4		
	14	3531	104,24	3,82	KG93	SMB 132S4		
	15	3296	95,64	4,10	KG93	SMB 132S4		
	17	2908	83,38	2,73	KG93	SMB 132S4	507	450
	19	2602	76,36	2,98	KG93	SMB 132S4		
	21	2354	68,55	3,20	KG93	SMB 132S4		
	24	2060	61,60	3,56	KG93	SMB 132S4		
	26	1901	55,81	3,76	KG93	SMB 132S4		
	28	1766	50,91	3,91	KG93	SMB 132S4		
	31	1595	46,71	4,25	KG93	SMB 132S4		
	6,6	7341	219,23	1,12	KG84	SMR 132S4		
	7,9	6133	184,70	1,34	KG84	SMR 132S4		
	9,2	5266	157,31	1,56	KG84	SMR 132S4		
	11	4404	135,06	1,86	KG84	SMR 132S4	324	446
	12	4037	116,62	2,03	KG84	SMR 132S4		
14	3461	101,10	2,37	KG84	SMR 132S4			
17	2850	83,85	2,88	KG84	SMR 132S4			
9,1	5433	159,92	1,51	KG83	SMB 132S4			
10	4944	142,88	1,66	KG83	SMB 132S4			
12	4120	120,38	1,99	KG83	SMB 132S4			
13	3803	110,08	2,16	KG83	SMB 132S4			
15	3296	98,55	2,49	KG83	SMB 132S4	303	444	
16	3090	88,36	2,65	KG83	SMB 132S4			
18	2746	79,88	2,99	KG83	SMB 132S4			
20	2472	72,69	3,32	KG83	SMB 132S4			






P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
5,50	22	2247	66,54	3,65		KG83	SMB	132S4	
	26	1901	56,53	4,31		KG83	SMR	132S4	
	21	2354	70,30	2,62		KG83	SMB	132S4	
	24	2060	59,23	2,86		KG83	SMB	132S4	
	27	1831	54,16	3,15		KG83	SMB	132S4	
	30	1648	48,49	3,39		KG83	SMB	132S4	
	33	1498	43,48	3,63		KG83	SMB	132S4	
	37	1336	39,30	3,96		KG83	SMB	132S4	
	41	1206	35,77	4,27		KG83	SMB	132S4	
	44	1124	32,74	4,45		KG83	SMB	132S4	
	12	4120	121,14	1,14	KG73	SMB	132S4	303	444
	13	3803	110,77	1,24	KG73	SMB	132S4		
	15	3296	98,29	1,43	KG73	SMB	132S4		
	17	2908	87,43	1,62	KG73	SMB	132S4		
	18	2746	82,29	1,71	KG73	SMB	132S4		
	19	2602	74,90	1,81	KG73	SMB	132S4		
	22	2247	67,20	2,09	KG73	SMB	132S4		
	24	2060	60,95	2,28	KG73	SMB	132S4		
	26	1901	56,30	2,47	KG73	SMB	132S4		
	29	1705	49,63	2,76	KG73	SMR	132S4		
	33	1498	44,12	3,14	KG73	SMR	132S4	203	438
	37	1336	39,27	3,52	KG73	SMR	132S4		
	39	1268	37,45	3,71	KG73	SMR	132S4		
	45	1099	32,16	4,28	KG73	SMR	132S4		
	23	2149	63,60	1,90	KG73	SMB	132S4		
	25	1977	58,15	2,02	KG73	SMB	132S4		
	28	1766	51,60	2,19	KG73	SMB	132S4		
	32	1545	45,90	2,44	KG73	SMB	132S4		
	34	1454	43,20	2,55	KG73	SMB	132S4		
	41	1206	35,28	2,93	KG73	SMB	132S4		
	49	1009	29,56	3,34	KG73	SMB	132S4	141	432
	56	883	26,06	3,72	KG73	SMR	132S4		
	63	785	23,17	4,09	KG73	SMR	132S4		
	70	706	20,62	4,45	KG73	SMR	132S4		
	17	2908	82,93	0,96	KG63	SMB	132S4		
	20	2472	73,77	1,13	KG63	SMB	132S4		
	21	2354	69,43	1,18	KG63	SMB	132S4		
	23	2149	63,20	1,26	KG63	SMB	132S4		
	26	1901	56,70	1,38	KG63	SMB	132S4		
	28	1766	51,43	1,43	KG63	SMB	132S4		
	31	1595	47,50	1,55	KG63	SMB	132S4		
	35	1412	41,88	1,70	KG63	SMR	132S4		
	39	1268	37,23	1,84	KG63	SMR	132S4		
	44	1124	33,14	2,03	KG63	SMR	132S4		
	46	1075	31,60	2,08	KG63	SMR	132S4		
	53	933	27,13	2,31	KG63	SMR	132S4		
	62	797	23,50	2,60	KG63	SMR	132S4		
	69	716	21,16	2,82	KG63	SMR	132S4		

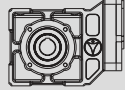




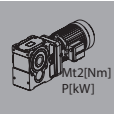
P	n ₂	Mt ₂	i	f _b			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
5,50	81	610	17,97	3,14		KG63	SMR	132S4			
	96	515	15,15	3,52		KG63	SMR	132S4			
	109	454	13,33	3,45		KG63	SMR	132S4			
	123	402	11,81	4,15		KG63	SMR	132S4			
	37	1336	39,32	1,41		KG63	SMB	132S4			
	41	1206	35,28	1,52		KG63	SMB	132S4			
	45	1099	32,00	1,60		KG63	SMB	132S4			
	49	1009	29,56	1,71		KG63	SMB	132S4			
	56	883	26,06	1,90		KG63	SMR	132S4		141	432
	63	785	23,17	2,07		KG63	SMR	132S4			
	70	706	20,62	2,25		KG63	SMR	132S4			
	74	668	19,66	2,34		KG63	SMR	132S4			
	86	575	16,88	2,61		KG63	SMR	132S4			
	99	499	14,63	2,89		KG63	SMR	132S4			
	110	449	13,17	3,14		KG63	SMR	132S4			
	130	380	11,18	3,51		KG63	SMR	132S4			
	154	321	9,43	3,94		KG63	SMR	132S4			
	175	282	8,30	4,26		KG63	SMR	132S4			
	31	1595	46,16	0,97		KG53	SMB	132S4		109	426
	36	1373	40,52	1,13		KG53	SMR	132S4			
40	1236	35,86	1,25	KG53	SMR	132S4					
48	1030	30,21	1,43	KG53	SMR	132S4					
56	883	25,73	1,60	KG53	SMR	132S4					
66	749	22,09	1,80	KG53	SMR	132S4					
76	650	19,08	1,99	KG53	SMR	132S4					
88	562	16,54	2,20	KG53	SMR	132S4					
106	466	13,71	2,49	KG53	SMR	132S4					
59	838	24,62	1,19	KG53	SMB	132S4					
67	738	21,61	1,29	KG53	SMR	132S4					
90	549	16,11	1,60	KG53	SMR	132S4					
123	402	11,78	2,01	KG53	SMR	132S4					
143	346	10,17	2,24	KG53	SMR	132S4					
164	301	8,82	2,45	KG53	SMR	132S4					
198	250	7,31	2,78	KG53	SMR	132S4					
80	631	18,18	1,04	KG42	SMR	132S4	99	420			
95	531	15,31	1,18	KG42	SMR	132S4					
111	454	13,04	1,33	KG42	SMR	132S4					
129	391	11,20	1,49	KG42	SMR	132S4					
150	336	9,67	1,67	KG42	SMR	132S4					
173	292	8,38	1,85	KG42	SMR	132S4					
209	241	6,95	2,12	KG42	SMR	132S4					
161	313	9,03	1,12	KG32	SMR	132S4			81	416	
192	263	7,57	1,27	KG32	SMR	132S4					
215	235	6,73	1,38	KG32	SMR	132S4					
7,50	5,2	12705	276,82	1,06		KG94	SMR	132M4	559	452	
	5,9	11197	246,38	1,21		KG94	SMR	132M4			
	6,2	10656	234,95	1,27		KG94	SMR	132M4			
	7,2	9176	201,75	1,47		KG94	SMR	132M4			






P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
7,50	8,3	7960	174,77	1,70		KG94	SMR 132M4	559	452
	9,2	7181	157,33	1,88		KG94	SMR 132M4		
	11	6006	133,59	2,25		KG94	SMR 132M4		
	13	5082	112,67	2,66		KG94	SMR 132M4		
	15	4404	99,13	3,07		KG94	SMR 132M4		
	17	3886	87,83	3,47		KG94	SMR 132M4		
	8,5	7931	170,73	1,70		KG93	SMB 132M4		
9,3	7249	156,36	1,86	KG93	SMB 132M4				
10	6741	140,35	2,00	KG93	SMB 132M4				
11	6128	126,12	2,20	KG93	SMB 132M4				
13	5186	114,27	2,60	KG93	SMB 132M4				
14	4815	104,24	2,80	KG93	SMB 132M4				
15	4494	95,64	3,00	KG93	SMB 132M4				
18	3745	81,67	3,60	KG93	SMR 132M4				
19	3548	75,92	3,80	KG93	SMR 132M4				
20	3371	70,80	4,01	KG93	SMR 132M4	518	450		
17	3965	83,38	2,00	KG93	SMB 132M4				
21	3210	68,55	2,35	KG93	SMB 132M4				
24	2809	61,60	2,61	KG93	SMB 132M4				
26	2593	55,81	2,76	KG93	SMB 132M4				
28	2408	50,91	2,87	KG93	SMB 132M4				
31	2175	46,71	3,11	KG93	SMB 132M4				
36	1873	39,89	3,49	KG93	SMR 132M4				
39	1729	37,08	3,72	KG93	SMR 132M4				
42	1605	34,58	3,94	KG93	SMR 132M4				
48	1404	30,33	4,37	KG93	SMR 132M4				
9,2	7181	157,31	1,14		KG84	SMR 132M4	335	446	
11	6006	135,06	1,37		KG84	SMR 132M4			
12	5505	116,62	1,49		KG84	SMR 132M4			
14	4719	101,10	1,74		KG84	SMR 132M4			
17	3886	83,85	2,11		KG84	SMR 132M4			
9,1	7408	159,92	1,11		KG83	SMB 132M4	314	444	
10	6741	142,88	1,22		KG83	SMB 132M4			
12	5618	120,38	1,46		KG83	SMB 132M4			
13	5186	110,08	1,58		KG83	SMB 132M4			
15	4494	98,55	1,82		KG83	SMB 132M4			
16	4213	88,36	1,95		KG83	SMB 132M4			
18	3745	79,88	2,19		KG83	SMB 132M4			
20	3371	72,69	2,43		KG83	SMB 132M4			
22	3064	66,54	2,68		KG83	SMB 132M4			
26	2593	56,53	3,16		KG83	SMR 132M4			
28	2408	52,41	3,41		KG83	SMR 132M4			
30	2247	48,75	3,65		KG83	SMR 132M4			
34	1983	42,53	4,14		KG83	SMR 132M4			
21	3210	70,30	1,92		KG83	SMB 132M4			
24	2809	59,23	2,10		KG83	SMB 132M4			
27	2497	54,16	2,31		KG83	SMB 132M4			
30	2247	48,49	2,49		KG83	SMB 132M4			

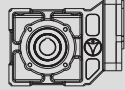




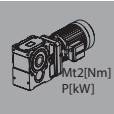
P	n ₂	Mt ₂	i	f _b			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
7,50	33	2043	43,48	2,66	KG83	SMB	132M4	314	444		
	37	1822	39,30	2,90		SMB	132M4				
	41	1644	35,77	3,13		SMB	132M4				
	44	1532	32,74	3,26		SMB	132M4				
	52	1296	27,82	3,72		SMR	132M4				
	56	1204	25,79	3,93		SMR	132M4				
	60	1124	23,99	4,14		SMR	132M4				
15	4494	98,29	1,05	KG73	SMB	132M4	214	438			
17	3965	87,43	1,19		SMB	132M4					
18	3745	82,29	1,25		SMB	132M4					
19	3548	74,90	1,32		SMB	132M4					
22	3064	67,20	1,53		SMB	132M4					
24	2809	60,95	1,67		SMB	132M4					
26	2593	56,30	1,81		SMB	132M4					
29	2325	49,63	2,02		SMR	132M4					
33	2043	44,12	2,30		SMR	132M4					
37	1822	39,27	2,58		SMR	132M4					
39	1729	37,45	2,72		SMR	132M4					
45	1498	32,16	3,14		SMR	132M4					
52	1296	27,86	3,63		SMR	132M4					
58	1162	25,08	4,04		SMR	132M4					
23	2931	63,60	1,39		KG73	SMB			132M4		
25	2697	58,15	1,48		KG73	SMB			132M4		
28	2408	51,60	1,61		KG73	SMB			132M4		
32	2107	45,90	1,79		KG73	SMB			132M4		
34	1983	43,20	1,87		KG73	SMB			132M4		
41	1644	35,28	2,15		KG73	SMB			132M4		
49	1376	29,56	2,45		KG73	SMB			132M4		
56	1204	26,06	2,73		KG73	SMR			132M4		
63	1070	23,17	3,00		KG73	SMR			132M4		
70	963	20,62	3,26		KG73	SMR			132M4		
74	911	19,66	3,41		KG73	SMR			132M4		
86	784	16,88	3,84		KG73	SMR			132M4		
99	681	14,63	4,29		KG73	SMR			132M4		
28	2408	51,43	1,05		KG63	SMB			132M4	152	432
31	2175	47,50	1,14			SMB			132M4		
35	1926	41,88	1,25			SMR			132M4		
39	1729	37,23	1,35			SMR			132M4		
44	1532	33,14	1,49			SMR			132M4		
46	1465	31,60	1,53			SMR			132M4		
53	1272	27,13	1,69	SMR		132M4					
62	1087	23,50	1,90	SMR		132M4					
69	977	21,16	2,07	SMR		132M4					
81	832	17,97	2,30	SMR		132M4					
96	702	15,15	2,58	SMR		132M4					
109	618	13,33	2,53	SMR		132M4					
123	548	11,81	3,04	SMR		132M4					
49	1376	29,56	1,25	KG63		SMB	132M4				






P	n ₂	Mt ₂	i	f _b			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
7,50	56	1204	26,06	1,39		KG63	SMR 132M4	152 432			
	70	963	20,62	1,65		KG63	SMR 132M4				
	74	911	19,66	1,71		KG63	SMR 132M4				
	86	784	16,88	1,91		KG63	SMR 132M4				
	99	681	14,63	2,12		KG63	SMR 132M4				
	110	613	13,17	2,30		KG63	SMR 132M4				
	130	519	11,18	2,57		KG63	SMR 132M4				
	154	438	9,43	2,89		KG63	SMR 132M4				
	175	385	8,30	3,12		KG63	SMR 132M4				
	197	342	7,35	3,40		KG63	SMR 132M4				
		48	1404	30,21		1,05	KG53		SMR 132M4	120 426	
		56	1204	25,73		1,17	KG53		SMR 132M4		
		66	1021	22,09		1,32	KG53		SMR 132M4		
		76	887	19,08		1,46	KG53		SMR 132M4		
		88	766	16,54		1,61	KG53		SMR 132M4		
		106	636	13,71		1,83	KG53		SMR 132M4		
		76	887	19,12		1,04	KG53		SMR 132M4		
		106	636	13,72		1,33	KG53		SMR 132M4		
		123	548	11,78		1,47	KG53		SMR 132M4		
143		471	10,17	1,64	KG53	SMR 132M4					
164		411	8,82	1,80	KG53	SMR 132M4					
198		340	7,31	2,04	KG53	SMR 132M4					
		129	533	11,20	1,09		KG42	SMR 132M4	110 420		
	150	459	9,67	1,22	KG42		SMR 132M4				
	173	398	8,38	1,36	KG42		SMR 132M4				
	209	329	6,95	1,55	KG42		SMR 132M4				
	9,20	6,1	13285	234,95	1,02			KG94		SMR 132Ma4	570 452
		7,1	11414	201,75	1,18			KG94		SMR 132Ma4	
		8,2	9883	174,77	1,37			KG94		SMR 132Ma4	
		9,2	8809	157,33	1,53			KG94		SMR 132Ma4	
11		7367	133,59	1,83	KG94	SMR 132Ma4					
13		6234	112,67	2,17	KG94	SMR 132Ma4					
15		5403	99,13	2,50	KG94	SMR 132Ma4					
16		5065	87,83	2,67	KG94	SMR 132Ma4					
		8,4	9844	170,73	1,37			KG93	SMB 132Ma4	529 450	
		9,2	8988	156,36	1,50			KG93	SMB 132Ma4		
		10	8269	140,35	1,63			KG93	SMB 132Ma4		
		11	7518	126,12	1,80			KG93	SMB 132Ma4		
		13	6361	114,27	2,12			KG93	SMB 132Ma4		
		14	5907	104,24	2,29			KG93	SMB 132Ma4		
		15	5513	95,64	2,45			KG93	SMB 132Ma4		
		18	4594	81,67	2,94			KG93	SMR 132Ma4		
	19	4352	75,92	3,10	KG93		SMR 132Ma4				
	20	4135	70,80	3,27	KG93		SMR 132Ma4				
	23	3595	62,11	3,70	KG93		SMR 132Ma4				
	26	3181	55,00	4,06	KG93		SMR 132Ma4				
	29	2851	49,07	4,41	KG93		SMR 132Ma4				
	21	3938	68,55	1,92	KG93		SMB 132Ma4				

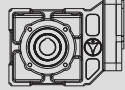


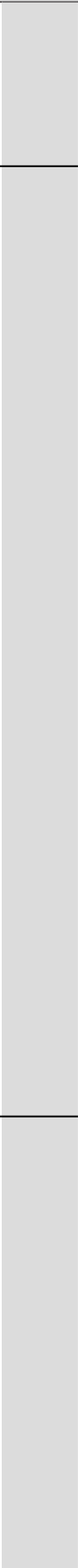


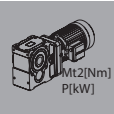
P	n ₂	Mt ₂	i	f _b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
9,20	23	3595	61,60	2,04	KG93	SMB	132Ma4	529	450	
	26	3181	55,81	2,25		KG93				SMB
	28	2953	50,91	2,34		KG93				SMB
	31	2668	46,71	2,54		KG93				SMB
	36	2297	39,89	2,85		KG93				SMR
	39	2120	37,08	3,03		KG93				SMR
	42	1969	34,58	3,21		KG93				SMR
	47	1759	30,33	3,49		KG93				SMR
	54	1531	26,86	3,89		KG93				SMR
	60	1378	23,96	4,21		KG93				SMR
	11	7367	135,06	1,11	KG84	SMR	132Ma4	346	452	
	12	6753	116,62	1,21		KG84				SMR
	14	5789	101,10	1,42		KG84				SMR
	17	4767	83,85	1,72		KG84				SMR
	10	8269	142,88	0,99	KG83	SMB	132Ma4	325	444	
	12	6891	120,38	1,19		KG83				SMB
	13	6361	110,08	1,29		KG83				SMB
	15	5513	98,55	1,49		KG83				SMB
	16	5168	88,36	1,59		KG83				SMB
	18	4594	79,88	1,78		KG83				SMB
	20	4135	72,69	1,98		KG83				SMB
	22	3759	66,54	2,18		KG83				SMB
	25	3308	56,53	2,48		KG83				SMR
	27	3063	52,41	2,68		KG83				SMR
	30	2756	48,75	2,97		KG83				SMR
	34	2432	42,53	3,37		KG83				SMR
	38	2176	37,43	3,70		KG83				SMR
	43	1923	33,19	4,06		KG83				SMR
	24	3446	59,23	1,71		KG83				SMB
	33	2506	43,48	2,17		KG83				SMB
37	2235	39,30	2,37	KG83		SMB				
40	2067	35,77	2,49	KG83		SMB				
44	1879	32,74	2,66	KG83		SMB				
52	1590	27,82	3,03	KG83		SMR				
56	1477	25,79	3,21	KG83	SMR					
60	1378	23,99	3,38	KG83	SMR					
69	1198	20,93	3,76	KG83	SMR					
78	1060	18,42	4,12	KG83	SMR					
19	4352	74,90	1,08	KG73	SMB	132Ma4	225	438		
21	3938	67,20	1,19		KG73				SMB	
24	3446	60,95	1,36		KG73				SMB	
26	3181	56,30	1,48		KG73				SMB	
29	2851	49,63	1,65		KG73				SMR	
33	2506	44,12	1,88		KG73				SMR	
37	2235	39,27	2,10		KG73				SMR	
38	2176	37,45	2,16		KG73				SMR	
45	1838	32,16	2,56		KG73				SMR	
52	1590	27,86	2,96		KG73				SMR	




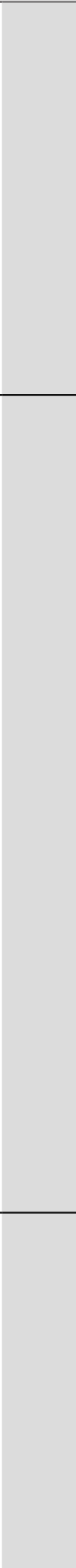


P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
9,20	57	1451	25,08	3,24		KG73	SMR 132Ma4	225	438
	68	1216	21,29	3,83		KG73	SMR 132Ma4		
	80	1034	17,96	4,26		KG73	SMR 132Ma4		
	91	909	15,80	4,15		KG73	SMR 132Ma4		
	28	2953	51,60	1,31		KG73	SMB 132Ma4		
	31	2668	45,90	1,41		KG73	SMB 132Ma4		
	41	2017	35,28	1,75		KG73	SMB 132Ma4		
	49	1688	29,56	1,99		KG73	SMB 132Ma4		
	55	1504	26,06	2,18		KG73	SMR 132Ma4		
	62	1334	23,17	2,41		KG73	SMR 132Ma4		
	70	1181	20,62	2,66		KG73	SMR 132Ma4		
	73	1133	19,66	2,74		KG73	SMR 132Ma4		
	85	973	16,88	3,09		KG73	SMR 132Ma4		
	98	844	14,63	3,46		KG73	SMR 132Ma4		
	109	759	13,17	3,77		KG73	SMR 132Ma4		
	129	641	11,18	4,27		KG73	SMR 132Ma4		
	34	2432	41,88	0,99		KG63	SMR 132Ma4		
	39	2120	37,23	1,10		KG63	SMR 132Ma4		
	43	1923	33,14	1,19		KG63	SMR 132Ma4		
46	1798	31,60	1,25	KG63	SMR 132Ma4				
53	1560	27,13	1,38	KG63	SMR 132Ma4				
61	1356	23,50	1,53	KG63	SMR 132Ma4				
68	1216	21,16	1,66	KG63	SMR 132Ma4				
80	1034	17,97	1,85	KG63	SMR 132Ma4				
95	870	15,15	2,09	KG63	SMR 132Ma4				
108	766	13,33	2,04	KG63	SMR 132Ma4				
122	678	11,81	2,46	KG63	SMR 132Ma4	163	432		
45	1838	32,00	0,96	KG63	SMB 132Ma4				
49	1688	29,56	1,02	KG63	SMB 132Ma4				
73	1133	19,66	1,38	KG63	SMR 132Ma4				
85	973	16,88	1,54	KG63	SMR 132Ma4				
98	844	14,63	1,71	KG63	SMR 132Ma4				
109	759	13,17	1,86	KG63	SMR 132Ma4				
129	641	11,18	2,08	KG63	SMR 132Ma4				
153	540	9,43	2,34	KG63	SMR 132Ma4				
174	475	8,30	2,53	KG63	SMR 132Ma4				
196	422	7,35	2,76	KG63	SMR 132Ma4				
65	1272	22,09	1,06	KG53	SMR 132Ma4				
75	1103	19,08	1,17	KG53	SMR 132Ma4				
87	950	16,54	1,30	KG53	SMR 132Ma4				
105	788	13,71	1,47	KG53	SMR 132Ma4			131	426
122	678	11,78	1,19	KG53	SMR 132Ma4				
142	582	10,17	1,33	KG53	SMR 132Ma4				
163	507	8,82	1,45	KG53	SMR 132Ma4				
197	420	7,31	1,65	KG53	SMR 132Ma4				
172	491	8,38	1,10	KG42	SMR 132Ma4	121	420		
207	408	6,95	1,25	KG42	SMR 132Ma4				
11,00	8,2	11816	174,77	1,14	KG94	SMR 160M4	584	452	

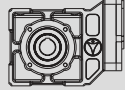


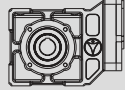
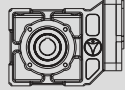


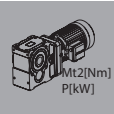
P	n ₂	Mt ₂	i	f _b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
11,00	9,2	10532	157,33	1,28		KG94	SMR	160M4	584	452
	11	8809	133,59	1,53		KG94	SMR	160M4		
	13	7453	112,67	1,81		KG94	SMR	160M4		
	15	6460	99,13	2,09		KG94	SMR	160M4		
	16	6056	87,83	2,23		KG94	SMR	160M4		
	8,4	11771	170,73	1,15		KG93	SMB	160M4	543	450
	9,2	10747	156,36	1,26		KG93	SMB	160M4		
	10	9887	140,35	1,37		KG93	SMB	160M4		
	11	8988	126,12	1,50		KG93	SMB	160M4		
	13	7606	114,27	1,78		KG93	SMB	160M4		
	14	7062	104,24	1,91		KG93	SMB	160M4		
	15	6591	95,64	2,05		KG93	SMB	160M4		
	18	5493	81,67	2,46		KG93	SMB	160M4		
	19	5204	75,92	2,59		KG93	SMB	160M4		
	20	4944	70,80	2,73		KG93	SMR	160M4		
	23	4299	62,11	3,09		KG93	SMR	160M4		
	26	3803	55,00	3,40		KG93	SMR	160M4		
	29	3409	49,07	3,68		KG93	SMR	160M4		
	33	2996	44,05	4,08		KG93	SMR	160M4		
	36	2746	39,75	4,33		KG93	SMR	160M4		
	21	4708	68,55	1,60	KG93	SMB	160M4			
	23	4299	61,60	1,71	KG93	SMB	160M4			
	26	3803	55,81	1,88	KG93	SMB	160M4			
	28	3531	50,91	1,95	KG93	SMB	160M4			
	31	3189	46,71	2,12	KG93	SMB	160M4			
	36	2746	39,89	2,38	KG93	SMB	160M4			
	39	2535	37,08	2,54	KG93	SMB	160M4			
	42	2354	34,58	2,69	KG93	SMR	160M4			
	47	2104	30,33	2,92	KG93	SMR	160M4			
	54	1831	26,86	3,26	KG93	SMR	160M4			
	60	1648	23,96	3,52	KG93	SMR	160M4			
	67	1476	21,52	3,82	KG93	SMR	160M4			
	74	1336	19,42	4,11	KG93	SMR	160M4			
	82	1206	17,60	4,44	KG93	SMR	160M4			
	13	7606	110,08	1,08	KG83	SMB	160M4	339	444	
	15	6591	98,55	1,24	KG83	SMB	160M4			
	16	6180	88,36	1,33	KG83	SMB	160M4			
	18	5493	79,88	1,49	KG83	SMB	160M4			
	20	4944	72,69	1,66	KG83	SMB	160M4			
	22	4494	66,54	1,82	KG83	SMB	160M4			
	25	3955	56,53	2,07	KG83	SMB	160M4			
	27	3662	52,41	2,24	KG83	SMB	160M4			
	30	3296	48,75	2,49	KG83	SMR	160M4			
	34	2908	42,53	2,82	KG83	SMR	160M4			
	38	2602	37,43	3,10	KG83	SMR	160M4			
	43	2299	33,19	3,40	KG83	SMR	160M4			
	49	2018	29,60	3,76	KG83	SMR	160M4			
	54	1831	26,52	4,02	KG83	SMR	160M4			






P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
11,00	60	1648	23,85	4,34		KG83	SMR	160M4	
	33	2996	43,48	1,81		KG83	SMB	160M4	
	37	2672	39,30	1,98		KG83	SMB	160M4	
	40	2472	35,77	2,08		KG83	SMB	160M4	
	44	2247	32,74	2,22		KG83	SMB	160M4	
	52	1901	27,82	2,53		KG83	SMB	160M4	
	56	1766	25,79	2,68		KG83	SMB	160M4	
	69	1433	20,93	3,15		KG83	SMR	160M4	
	78	1268	18,42	3,45		KG83	SMR	160M4	
	88	1124	16,33	3,77		KG83	SMR	160M4	
	99	999	14,56	4,12		KG83	SMR	160M4	
	110	899	13,05	4,44		KG83	SMR	160M4	
	24	4120	60,95	1,14		KG73	SMB	160M4	
	26	3803	56,30	1,24		KG73	SMB	160M4	
	29	3409	49,63	1,38		KG73	SMB	160M4	
	33	2996	44,12	1,57		KG73	SMB	160M4	
	37	2672	39,27	1,76		KG73	SMB	160M4	
	38	2602	37,45	1,81		KG73	SMR	160M4	
	45	2197	32,16	2,14		KG73	SMR	160M4	
	52	1901	27,86	2,47		KG73	SMR	160M4	
	57	1735	25,08	2,71		KG73	SMR	160M4	
68	1454	21,29	3,20	KG73	SMR	160M4			
80	1236	17,96	3,56	KG73	SMR	160M4			
91	1087	15,80	3,47	KG73	SMR	160M4			
103	960	14,00	4,20	KG73	SMR	160M4			
41	2412	35,28	1,46	KG73	SMB	160M4			
49	2018	29,56	1,67	KG73	SMB	160M4			
55	1798	26,06	1,83	KG73	SMB	160M4			
62	1595	23,17	2,01	KG73	SMB	160M4			
70	1412	20,62	2,22	KG73	SMB	160M4			
73	1354	19,66	2,29	KG73	SMR	160M4			
85	1163	16,88	2,59	KG73	SMR	160M4			
98	1009	14,63	2,90	KG73	SMR	160M4			
109	907	13,17	3,16	KG73	SMR	160M4			
129	766	11,18	3,57	KG73	SMR	160M4			
153	646	9,43	4,01	KG73	SMR	160M4			
174	568	8,30	3,90	KG73	SMR	160M4			
46	2149	31,60	1,04	KG63	SMR	160M4			
53	1866	27,13	1,15	KG63	SMR	160M4			
61	1621	23,50	1,28	KG63	SMR	160M4			
68	1454	21,16	1,39	KG63	SMR	160M4			
80	1236	17,97	1,55	KG63	SMR	160M4			
95	1041	15,15	1,74	KG63	SMR	160M4			
108	915	13,33	1,71	KG63	SMR	160M4			
122	810	11,81	2,06	KG63	SMR	160M4			
73	1354	19,66	1,15	KG63	SMR	160M4			
85	1163	16,88	1,29	KG63	SMR	160M4			
98	1009	14,63	1,43	KG63	SMR	160M4			

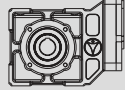




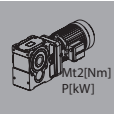
P	n ₂	Mt ₂	i	f _b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
11,00	109	907	13,17	1,55		KG63	SMR	160M4	177	432
	129	766	11,18	1,74		KG63	SMR	160M4		
	153	646	9,43	1,96		KG63	SMR	160M4		
	174	568	8,30	2,12		KG63	SMR	160M4		
	196	504	7,35	2,30		KG63	SMR	160M4		
	87	1136	16,54	1,09		KG53	SMR	160M4		
	105	942	13,71	1,23		KG53	SMR	160M4		
	142	696	10,17	1,11		KG53	SMR	160M4		
	163	607	8,82	1,22		KG53	SMR	160M4		
	197	502	7,31	1,38		KG53	SMR	160M4		
15,00	11	12012	133,59	1,12		KG94	SMR	160L4	613	452
	13	10164	112,67	1,33		KG94	SMR	160L4		
	15	8809	99,13	1,53		KG94	SMR	160L4		
	16	8258	87,83	1,63		KG94	SMR	160L4		
	10	13483	140,35	1,00		KG93	SMB	160L4		
	11	12257	126,12	1,10		KG93	SMB	160L4		
	13	10371	114,27	1,30		KG93	SMB	160L4		
	14	9630	104,24	1,40		KG93	SMB	160L4		
	15	8988	95,64	1,50		KG93	SMB	160L4		
	18	7490	81,67	1,80		KG93	SMB	160L4		
	19	7096	75,92	1,90		KG93	SMB	160L4		
	20	6741	70,80	2,00		KG93	SMR	160L4		
	23	5862	62,11	2,27		KG93	SMR	160L4		
	26	5186	55,00	2,49		KG93	SMR	160L4		
	29	4649	49,07	2,70		KG93	SMR	160L4		
	33	4086	44,05	2,99		KG93	SMR	160L4		
	36	3745	39,75	3,18		KG93	SMR	160L4		
	40	3371	36,03	3,44		KG93	SMR	160L4		
	42	3210	34,35	3,57		KG93	SMR	160L4		
	48	2809	29,89	3,92		KG93	SMR	160L4		
	31	4349	46,71	1,56		KG93	SMB	160L4		
	39	3457	37,08	1,86		KG93	SMB	160L4		
	47	2869	30,33	2,14		KG93	SMR	160L4		
	54	2497	26,86	2,39		KG93	SMR	160L4		
	60	2247	23,96	2,58		KG93	SMR	160L4		
	67	2012	21,52	2,80		KG93	SMR	160L4		
	74	1822	19,42	3,02		KG93	SMR	160L4		
	82	1644	17,60	3,26		KG93	SMR	160L4		
	86	1568	16,77	3,37		KG93	SMR	160L4		
	99	1362	14,60	3,73		KG93	SMR	160L4		
	16	8427	88,36	0,97		KG83	SMB	160L4		
	18	7490	79,88	1,09		KG83	SMB	160L4		
	20	6741	72,69	1,22		KG83	SMB	160L4		
	22	6128	66,54	1,34		KG83	SMB	160L4		
25	5393	56,53	1,52	KG83	SMB	160L4				
27	4994	52,41	1,64	KG83	SMB	160L4				
30	4494	48,75	1,82	KG83	SMR	160L4				
34	3965	42,53	2,07	KG83	SMR	160L4				






P	n ₂	Mt ₂	i	f _b			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
15,00	38	3548	37,43	2,27		KG83	SMR	160L4			
	43	3135	33,19	2,49		KG83	SMR	160L4			
	49	2752	29,60	2,76		KG83	SMR	160L4			
	54	2497	26,52	2,95		KG83	SMR	160L4			
	60	2247	23,85	3,18		KG83	SMR	160L4			
	64	2107	22,65	3,35		KG83	SMR	160L4			
	74	1822	19,46	3,70		KG83	SMR	160L4			
	30	4494	48,49	1,24		KG83	SMB	160L4			
	33	4086	43,48	1,33		KG83	SMB	160L4			
	37	3644	39,30	1,45		KG83	SMB	160L4			
	40	3371	35,77	1,53		KG83	SMB	160L4			
	44	3064	32,74	1,63		KG83	SMB	160L4		368	444
	52	2593	27,82	1,86		KG83	SMB	160L4			
	56	2408	25,79	1,97		KG83	SMB	160L4			
	60	2247	23,99	2,07		KG83	SMR	160L4			
	69	1954	20,93	2,31		KG83	SMR	160L4			
	78	1729	18,42	2,53		KG83	SMR	160L4			
	88	1532	16,33	2,77		KG83	SMR	160L4			
	99	1362	14,56	3,02		KG83	SMR	160L4			
	110	1226	13,05	3,26		KG83	SMR	160L4			
	123	1096	11,74	3,54		KG83	SMR	160L4			
	129	1045	11,14	3,66		KG83	SMR	160L4			
	150	899	9,57	4,07		KG83	SMR	160L4			
	29	4649	49,63	1,01		KG73	SMB	160L4			
	33	4086	44,12	1,15		KG73	SMB	160L4			
	37	3644	39,27	1,29		KG73	SMB	160L4			
	38	3548	37,45	1,32		KG73	SMR	160L4			
	45	2996	32,16	1,57		KG73	SMR	160L4			
	52	2593	27,86	1,81		KG73	SMR	160L4			
	57	2365	25,08	1,99		KG73	SMR	160L4			
	68	1983	21,29	2,35		KG73	SMR	160L4			
	80	1685	17,96	2,61		KG73	SMR	160L4			
91	1482	15,80	2,54	KG73	SMR	160L4					
103	1309	14,00	3,08	KG73	SMR	160L4					
41	3288	35,28	1,07	KG73	SMB	160L4	268	438			
49	2752	29,56	1,22	KG73	SMB	160L4					
55	2451	26,06	1,34	KG73	SMB	160L4					
62	2175	23,17	1,48	KG73	SMB	160L4					
70	1926	20,62	1,63	KG73	SMB	160L4					
73	1847	19,66	1,68	KG73	SMR	160L4					
85	1586	16,88	1,90	KG73	SMR	160L4					
98	1376	14,63	2,12	KG73	SMR	160L4					
109	1237	13,17	2,32	KG73	SMR	160L4					
129	1045	11,18	2,62	KG73	SMR	160L4					
153	881	9,43	2,94	KG73	SMR	160L4					
174	775	8,30	2,86	KG73	SMR	160L4					
196	688	7,35	3,45	KG73	SMR	160L4					
68	1983	21,16	1,02	KG63	SMR	160L4	206	432			

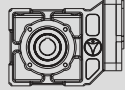




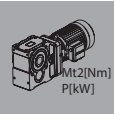
P	n ₂	Mt ₂	i	f _B			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
15,00	80	1685	17,97	1,14	KG63	SMR	160L4	206	432
	95	1419	15,15	1,28					
	108	1248	13,33	1,25					
	122	1105	11,81	1,51					
	98	1376	14,63	1,05					
	109	1237	13,17	1,14					
	129	1045	11,18	1,28					
	153	881	9,43	1,43					
	174	775	8,30	1,55					
	196	688	7,35	1,69					
18,50	13	12535	112,67	1,08	KG94	SMR	180M4	635	452
	15	10864	99,13	1,24	KG94	SMR	180M4		
	17	9586	87,83	1,41	KG94	SMR	180M4		
	13	12791	114,27	1,06	KG93	SMB	180M4	594	450
	14	11878	104,24	1,14	KG93	SMB	180M4		
	15	11086	95,64	1,22	KG93	SMB	180M4		
	18	9238	81,67	1,46	KG93	SMB	180M4		
	19	8752	75,92	1,54	KG93	SMB	180M4		
	21	7918	70,80	1,70	KG93	SMB	180M4		
	24	6929	62,11	1,92	KG93	SMR	180M4		
	27	6159	55,00	2,10	KG93	SMR	180M4		
	30	5543	49,07	2,27	KG93	SMR	180M4		
	33	5039	44,05	2,43	KG93	SMR	180M4		
	37	4494	39,75	2,65	KG93	SMR	180M4		
	41	4056	36,03	2,86	KG93	SMR	180M4		
	43	3867	34,35	2,96	KG93	SMR	180M4		
	49	3394	29,89	3,25	KG93	SMR	180M4		
	56	2969	26,16	3,57	KG93	SMR	180M4		
	64	2598	22,99	3,92	KG93	SMR	180M4		
	75	2217	19,43	4,35	KG93	SMR	180M4		
	29	5734	50,91	1,20	KG93	SMB	180M4		
	31	5364	46,71	1,26	KG93	SMB	180M4		
	39	4264	37,08	1,51	KG93	SMB	180M4		
	42	3959	34,58	1,60	KG93	SMB	180M4		
	48	3464	30,33	1,77	KG93	SMR	180M4		
	54	3079	26,86	1,94	KG93	SMR	180M4		
	61	2726	23,96	2,13	KG93	SMR	180M4		
	68	2445	21,52	2,31	KG93	SMR	180M4		
	83	2003	17,60	2,67	KG93	SMR	180M4		
	87	1911	16,77	2,77	KG93	SMR	180M4		
	100	1663	14,60	3,06	KG93	SMR	180M4		
	114	1459	12,78	3,35	KG93	SMR	180M4		
	130	1279	11,23	3,68	KG93	SMR	180M4		
154	1080	9,49	4,12	KG93	SMR	180M4			
22	7558	66,54	1,08	KG83	SMB	180M4	390	444	
26	6396	56,53	1,28	KG83	SMB	180M4			
28	5939	52,41	1,38	KG83	SMB	180M4			
30	5543	48,75	1,48	KG83	SMB	180M4			






P	n ₂	Mt ₂	i	f _b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
18,50	34	4891	42,53	1,68		KG83	SMR	180M4		
	39	4264	37,43	1,89		KG83	SMR	180M4		
	44	3779	33,19	2,07		KG83	SMR	180M4		
	49	3394	29,60	2,24		KG83	SMR	180M4		
	55	3023	26,52	2,44		KG83	SMR	180M4		
	61	2726	23,85	2,62		KG83	SMR	180M4		
	64	2598	22,65	2,71		KG83	SMR	180M4		
	75	2217	19,46	3,04		KG83	SMR	180M4		
	87	1911	16,78	3,37		KG83	SMR	180M4		
	101	1646	14,51	3,73		KG83	SMR	180M4		
	41	4056	35,77	1,27		KG83	SMB	180M4		
	45	3695	32,74	1,35		KG83	SMB	180M4		
	52	3198	27,82	1,51		KG83	SMB	180M4		
	57	2917	25,79	1,62		KG83	SMB	180M4		
	70	2376	20,93	1,90		KG83	SMR	180M4		
	79	2105	18,42	2,08		KG83	SMR	180M4		
	89	1868	16,33	2,27		KG83	SMR	180M4		
	100	1663	14,56	2,47		KG83	SMR	180M4		
	112	1485	13,05	2,69		KG83	SMR	180M4		
	124	1341	11,74	2,89		KG83	SMR	180M4		
131	1269	11,14	3,01	KG83	SMR	180M4				
153	1087	9,57	3,36	KG83	SMR	180M4				
177	939	8,26	3,72	KG83	SMR	180M4				
204	815	7,14	4,08	KG83	SMR	180M4	390	444		
37	4494	39,27	1,05	KG73	SMB	180M4				
39	4264	37,45	1,10	KG73	SMB	180M4				
45	3695	32,16	1,27	KG73	SMR	180M4				
52	3198	27,86	1,47	KG73	SMR	180M4				
58	2867	25,08	1,64	KG73	SMR	180M4				
69	2410	21,29	1,93	KG73	SMR	180M4				
81	2053	17,96	2,15	KG73	SMR	180M4				
92	1807	15,80	2,08	KG73	SMR	180M4				
104	1599	14,00	2,52	KG73	SMR	180M4				
63	2639	23,17	1,22	KG73	SMB	180M4				
71	2342	20,62	1,34	KG73	SMB	180M4				
74	2247	19,66	1,38	KG73	SMB	180M4				
86	1934	16,88	1,56	KG73	SMR	180M4				
100	1663	14,63	1,76	KG73	SMR	180M4				
111	1498	13,17	1,91	KG73	SMR	180M4				
131	1269	11,18	2,16	KG73	SMR	180M4				
155	1073	9,43	2,41	KG73	SMR	180M4				
176	945	8,30	2,34	KG73	SMR	180M4				
199	836	7,35	2,84	KG73	SMR	180M4			290	438
96	1732	15,15	1,05	KG63	SMR	180M4				
110	1512	13,33	1,04	KG63	SMR	180M4				
124	1341	11,81	1,24	KG63	SMR	180M4				
131	1269	11,18	1,05	KG63	SMR	180M4				
155	1073	9,43	1,18	KG63	SMR	180M4	228	432		

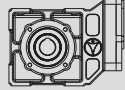


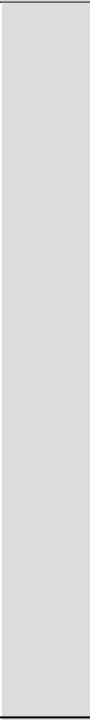
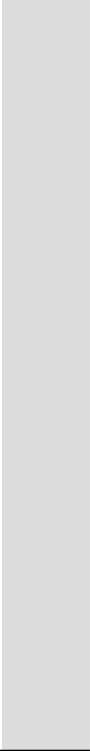


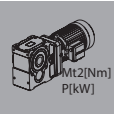
P	n ₂	Mt ₂	i	f _B			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
18,50	176	945	8,30	1,27	KG63	SMR 180M4	228	432		
	199	836	7,35	1,39	KG63	SMR 180M4				
22,00	15	12919	99,13	1,04	KG94	SMR 180L4	650	452		
	17	11399	87,83	1,18	KG94	SMR 180L4				
	15	13183	95,64	1,02	KG93	SMB 180L4				
	18	10986	81,67	1,23	KG93	SMB 180L4				
	19	10408	75,92	1,30	KG93	SMB 180L4				
	21	9416	70,80	1,43	KG93	SMB 180L4				
	24	8239	62,11	1,61	KG93	SMR 180L4				
	27	7324	55,00	1,76	KG93	SMR 180L4				
	30	6591	49,07	1,91	KG93	SMR 180L4				
	33	5992	44,05	2,04	KG93	SMR 180L4				
	37	5344	39,75	2,23	KG93	SMR 180L4				
	41	4823	36,03	2,40	KG93	SMR 180L4				
	43	4599	34,35	2,49	KG93	SMR 180L4				
	49	4036	29,89	2,73	KG93	SMR 180L4				
	56	3531	26,16	3,00	KG93	SMR 180L4				
	64	3090	22,99	3,30	KG93	SMR 180L4			609	450
	75	2637	19,43	3,66	KG93	SMR 180L4				
	89	2222	16,47	4,10	KG93	SMR 180L4				
	42	4708	34,58	1,34	KG93	SMB 180L4				
	48	4120	30,33	1,49	KG93	SMR 180L4				
	54	3662	26,86	1,63	KG93	SMR 180L4				
	61	3242	23,96	1,79	KG93	SMR 180L4				
	68	2908	21,52	1,94	KG93	SMR 180L4				
	83	2382	17,60	2,25	KG93	SMR 180L4				
	87	2273	16,77	2,33	KG93	SMR 180L4				
	100	1977	14,60	2,57	KG93	SMR 180L4				
	114	1735	12,78	2,82	KG93	SMR 180L4				
	130	1521	11,23	3,09	KG93	SMR 180L4				
	154	1284	9,49	3,47	KG93	SMR 180L4				
	182	1087	8,04	3,87	KG93	SMR 180L4				
	26	7606	56,53	1,08	KG83	SMB 180L4				
	28	7062	52,41	1,16	KG83	SMB 180L4				
30	6591	48,75	1,24	KG83	SMB 180L4					
34	5816	42,53	1,41	KG83	SMR 180L4					
39	5070	37,43	1,59	KG83	SMR 180L4					
44	4494	33,19	1,74	KG83	SMR 180L4					
49	4036	29,60	1,88	KG83	SMR 180L4					
55	3595	26,52	2,05	KG83	SMR 180L4					
61	3242	23,85	2,21	KG83	SMR 180L4					
64	3090	22,65	2,28	KG83	SMR 180L4					
75	2637	19,46	2,56	KG83	SMR 180L4					
87	2273	16,78	2,83	KG83	SMR 180L4					
101	1958	14,51	3,14	KG83	SMR 180L4					
52	3803	27,82	1,27	KG83	SMB 180L4					
57	3469	25,79	1,36	KG83	SMB 180L4					
70	2825	20,93	1,60	KG83	SMR 180L4					






P	n ₂	Mt ₂	i	f _b			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
22,00	79	2503	18,42	1,75		KG83	SMR	180L4			
	89	2222	16,33	1,91		KG83	SMR	180L4			
	100	1977	14,56	2,08		KG83	SMR	180L4			
	112	1766	13,05	2,26		KG83	SMR	180L4			
	124	1595	11,74	2,43		KG83	SMR	180L4		405	444
	131	1509	11,14	2,53		KG83	SMR	180L4			
	153	1292	9,57	2,83		KG83	SMR	180L4			
	177	1117	8,26	3,13		KG83	SMR	180L4			
	204	969	7,14	3,44		KG83	SMR	180L4			
	45	4394	32,16	1,07		KG73	SMR	180L4			
	52	3803	27,86	1,24		KG73	SMR	180L4			
	58	3409	25,08	1,38		KG73	SMR	180L4			
	69	2866	21,29	1,62		KG73	SMR	180L4			
	81	2441	17,96	1,80		KG73	SMR	180L4			
	92	2149	15,80	1,75		KG73	SMR	180L4			
	104	1901	14,00	2,12		KG73	SMR	180L4			
74	2672	19,66	1,16	KG73	SMB	180L4	305	438			
86	2299	16,88	1,31	KG73	SMR	180L4					
100	1977	14,63	1,48	KG73	SMR	180L4					
111	1781	13,17	1,61	KG73	SMR	180L4					
131	1509	11,18	1,81	KG73	SMR	180L4					
155	1276	9,43	2,03	KG73	SMR	180L4					
176	1124	8,30	1,97	KG73	SMR	180L4					
199	994	7,35	2,39	KG73	SMR	180L4					
124	1595	11,81	1,05	KG63	SMR	180L4					
176	1124	8,30	1,07	KG63	SMR	180L4	243	432			
199	994	7,35	1,17	KG63	SMR	180L4					
30,00	24	11235	62,11	1,18	KG93	SMR	200L4				
	27	9987	55,00	1,29	KG93	SMR	200L4				
	30	8988	49,07	1,40	KG93	SMR	200L4				
	33	8171	44,05	1,50	KG93	SMR	200L4				
	37	7288	39,75	1,63	KG93	SMR	200L4				
	41	6577	36,03	1,76	KG93	SMR	200L4				
	43	6271	34,35	1,83	KG93	SMR	200L4				
	49	5503	29,89	2,00	KG93	SMR	200L4				
	56	4815	26,16	2,20	KG93	SMR	200L4				
	64	4213	22,99	2,42	KG93	SMR	200L4				
	76	3548	19,43	2,72	KG93	SMR	200L4	684	450		
	89	3030	16,47	3,01	KG93	SMR	200L4				
	68	3965	21,52	1,42	KG93	SMR	200L4				
	84	3210	17,60	1,67	KG93	SMR	200L4				
	88	3064	16,77	1,72	KG93	SMR	200L4				
	101	2670	14,60	1,90	KG93	SMR	200L4				
	115	2345	12,78	2,09	KG93	SMR	200L4				
	131	2058	11,23	2,28	KG93	SMR	200L4				
	155	1740	9,49	2,56	KG93	SMR	200L4				
	183	1474	8,04	2,86	KG93	SMR	200L4				
35	7704	42,53	1,06	KG83	SMR	200L4	480	444			



P	n ₂	Mt ₂	i	f _B			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
30,00	39	6914	37,43	1,17		KG83	SMR	200L4	480	444
	44	6128	33,19	1,28		KG83	SMR	200L4		
	50	5393	29,60	1,41		KG83	SMR	200L4		
	55	4903	26,52	1,50		KG83	SMR	200L4		
	62	4349	23,85	1,64		KG83	SMR	200L4		
	65	4148	22,65	1,70		KG83	SMR	200L4		
	76	3548	19,46	1,90		KG83	SMR	200L4		
	88	3064	16,78	2,10		KG83	SMR	200L4		
	101	2670	14,51	2,30		KG83	SMR	200L4		
	70	3852	20,93	1,17		KG83	SMR	200L4		
	80	3371	18,42	1,30		KG83	SMR	200L4		
	90	2996	16,33	1,41		KG83	SMR	200L4		
	101	2670	14,56	1,54		KG83	SMR	200L4		
	113	2386	13,05	1,67		KG83	SMR	200L4		
	125	2157	11,74	1,80		KG83	SMR	200L4		
	132	2043	11,14	1,87		KG83	SMR	200L4		
	154	1751	9,57	2,09		KG83	SMR	200L4		
	178	1515	8,26	2,31		KG83	SMR	200L4		
	206	1309	7,14	2,54		KG83	SMR	200L4		
	37,00	27	12317	55,00		1,05		KG93		
30		11086	49,07	1,13	KG93	SMR		225S4		
33		10078	44,05	1,21	KG93	SMR		225S4		
37		8988	39,75	1,32	KG93	SMR		225S4		
41		8111	36,03	1,43	KG93	SMR		225S4		
43		7734	34,35	1,48	KG93	SMR		225S4		
49		6787	29,89	1,62	KG93	SMR		225S4		
56		5939	26,16	1,78	KG93	SMR		225S4		
64		5196	22,99	1,96	KG93	SMR		225S4		
76		4376	19,43	2,20	KG93	SMR		225S4		
89		3737	16,47	2,44	KG93	SMR		225S4		
61		5452	23,96	1,06	KG93	SMR		225S4		
68		4891	21,52	1,15	KG93	SMR		225S4		
84		3959	17,60	1,35	KG93	SMR		225S4		
88		3779	16,77	1,40	KG93	SMR		225S4		
101		3293	14,60	1,54	KG93	SMR		225S4		
115		2892	12,78	1,69	KG93	SMR		225S4		
131		2539	11,23	1,85	KG93	SMR		225S4		
155		2146	9,49	2,08	KG93	SMR		225S4		
183		1817	8,04	2,32	KG93	SMR		225S4		
50		6651	29,60	1,14	KG83	SMR		225S4		
55		6047	26,52	1,22	KG83	SMR		225S4		
62		5364	23,85	1,33	KG83	SMR		225S4		
65		5116	22,65	1,38	KG83	SMR		225S4		
76		4376	19,46	1,54	KG83	SMR		225S4		
88		3779	16,78	1,70	KG83	SMR		225S4		
101		3293	14,51	1,87	KG83	SMR		225S4		
90		3695	16,33	1,15	KG83	SMR		225S4		
113	2943	13,05	1,36	KG83	SMR	225S4				



P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
37,00	125	2661	11,74	1,46		KG83	SMR 225S4	545	444
	132	2519	11,14	1,52		KG83	SMR 225S4		
	154	2160	9,57	1,69		KG83	SMR 225S4		
	178	1868	8,26	1,87		KG83	SMR 225S4		
	206	1614	7,14	2,06		KG83	SMR 225S4		
45,00	37	10932	39,75	1,09		KG93	SMR 225M4	781	450
	41	9865	36,03	1,18		KG93	SMR 225M4		
	43	9406	34,35	1,22		KG93	SMR 225M4		
	49	8255	29,89	1,33		KG93	SMR 225M4		
	56	7223	26,16	1,47		KG93	SMR 225M4		
	64	6320	22,99	1,61		KG93	SMR 225M4		
	76	5322	19,43	1,81		KG93	SMR 225M4		
	89	4545	16,47	2,01		KG93	SMR 225M4		
	84	4815	17,60	1,11		KG93	SMR 225M4		
	88	4596	16,77	1,15		KG93	SMR 225M4		
	101	4005	14,60	1,27		KG93	SMR 225M4		
	115	3517	12,78	1,39		KG93	SMR 225M4		
	131	3088	11,23	1,52		KG93	SMR 225M4		
	155	2610	9,49	1,71		KG93	SMR 225M4		
	183	2210	8,04	1,90		KG93	SMR 225M4		
	62	6524	23,85	1,10		KG83	SMR 225M4		
	65	6223	22,65	1,13		KG83	SMR 225M4		
	76	5322	19,46	1,27		KG83	SMR 225M4		
	88	4596	16,78	1,40		KG83	SMR 225M4		
	101	4005	14,51	1,53		KG83	SMR 225M4		
113	3579	13,05	1,12	KG83	SMR 225M4				
125	3236	11,74	1,20	KG83	SMR 225M4				
132	3064	11,14	1,25	KG83	SMR 225M4				
154	2626	9,57	1,39	KG83	SMR 225M4				
178	2272	8,26	1,54	KG83	SMR 225M4				
206	1963	7,14	1,70	KG83	SMR 225M4				
55,00	41	12058	36,03	0,96		KG93	SMR 250M4	864	450
	43	11497	34,35	1,00		KG93	SMR 250M4		
	50	9887	29,89	1,11		KG93	SMR 250M4		
	57	8673	26,16	1,22		KG93	SMR 250M4		
	64	7724	22,99	1,32		KG93	SMR 250M4		
	76	6505	19,43	1,48		KG93	SMR 250M4		
	90	5493	16,47	1,66		KG93	SMR 250M4		
	116	4262	12,78	1,15		KG93	SMR 250M4		
	132	3745	11,23	1,26		KG93	SMR 250M4		
	156	3169	9,49	1,41		KG93	SMR 250M4		
	184	2687	8,04	1,57		KG93	SMR 250M4		
	88	5618	16,78	1,15		KG83	SMR 250M4		
	102	4847	14,51	1,27		KG83	SMR 250M4		
	155	3189	9,57	1,15		KG83	SMR 250M4		
	179	2762	8,26	1,26		KG83	SMR 250M4		
207	2388	7,14	1,39	KG83	SMR 250M4				

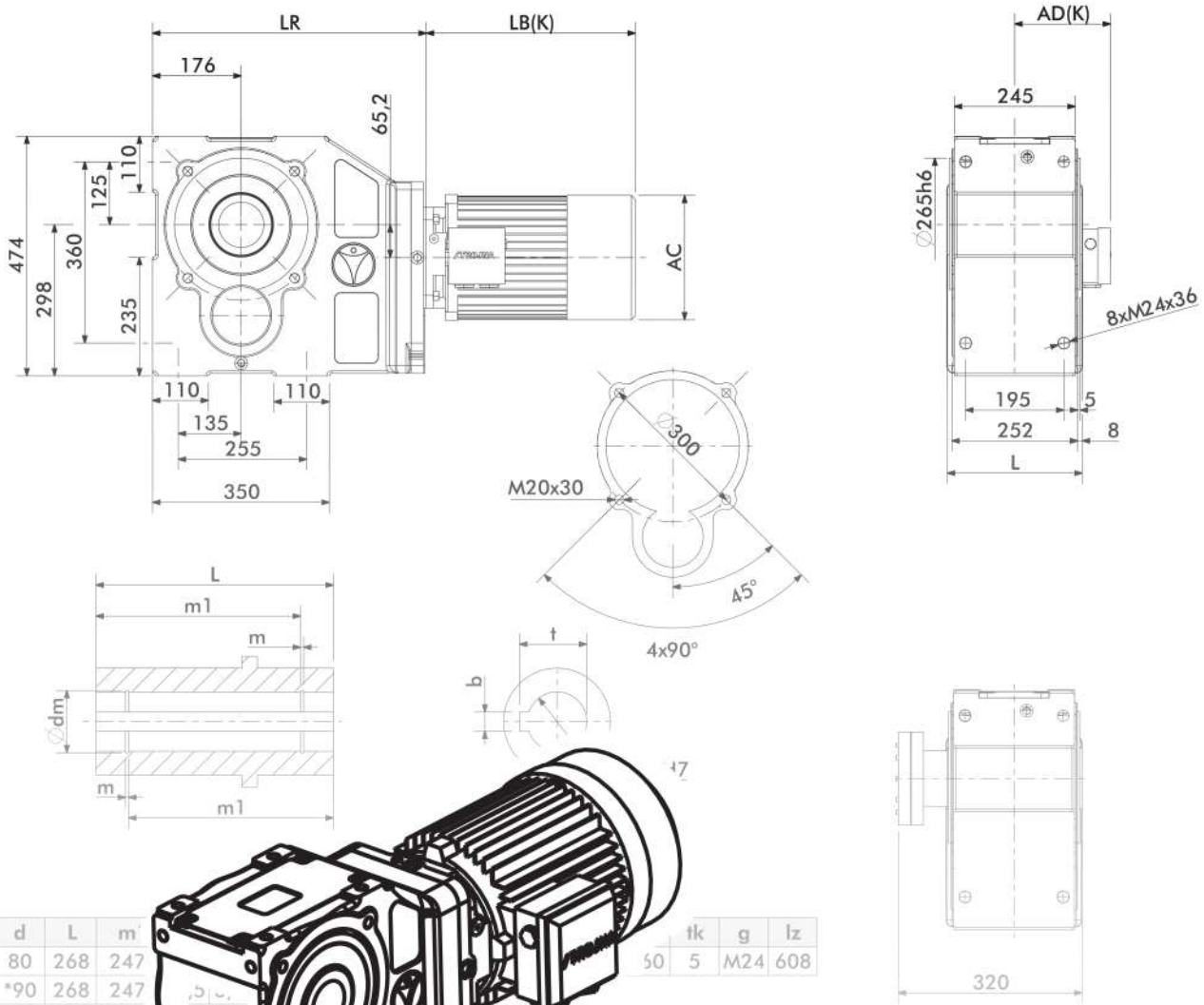




KG

HELICAL BEVEL GEAR UNITS

Dimension sheets - Geared motors



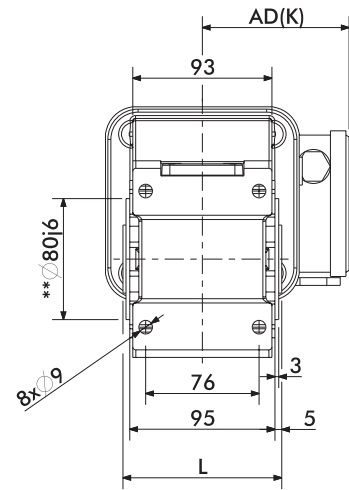
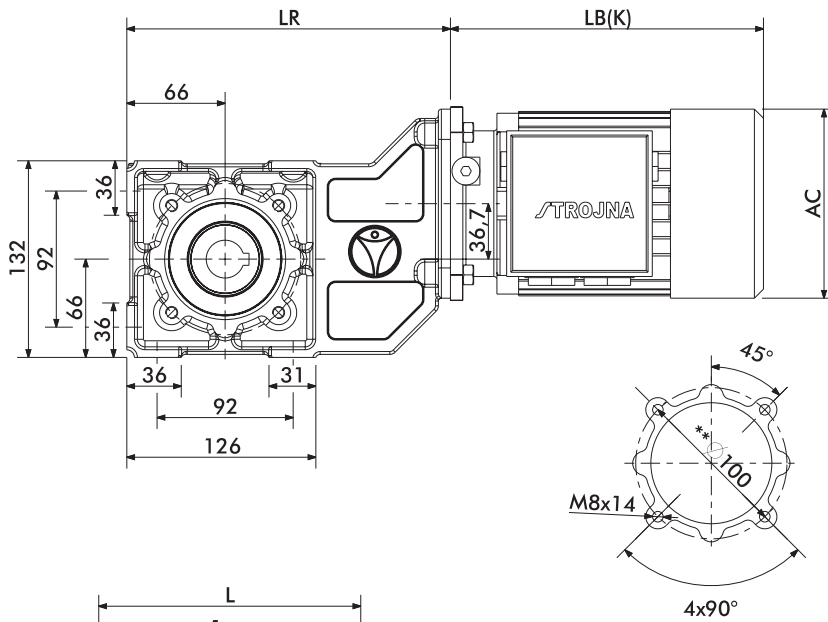
d	L	m	tk	g	lz
80	268	247	50	5	M24 608
*90	268	247			

SMB/ SMR	LB	Al	132S	132M	132Mo	160M	160L
63							
71							
80							
90S							
90L							
100							
112M							
132S	377	190	492	183	247	544	
132M	415	190	532				
132Mo	415						
160M	489	240	611	240	608	544	
160L	529	240	651	240	608	544	

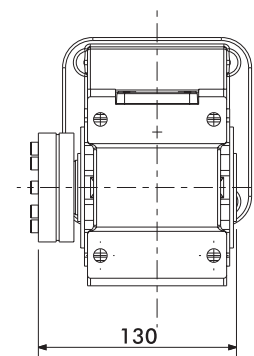
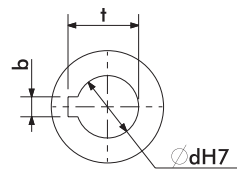
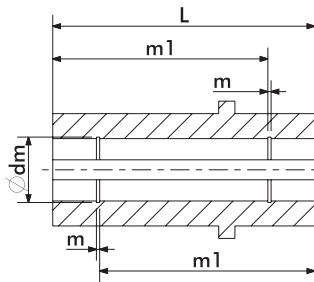
Drawings are for reference dimensions only and subject to change.

We reserve the right to change technical data or dimensions due to modifications.

KG12...SMB/SMR



KG12D...

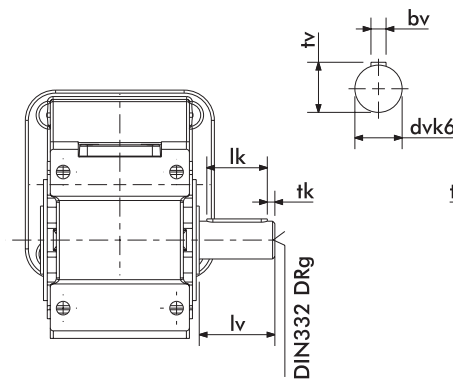


d	L	m1	dm	m	t	b
20	105	97	21	1,3	22,8	6
*25	105	91	26,2	1,3	28,3	8

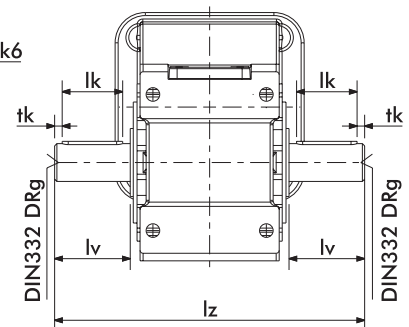
dv	tv	bv	lv	lk	tk	g	lz
20	22,5	6	40	30	5	M6	185
*25	28	8	50	40	5	M10	205

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	215
71	223	105	280	137	140	215
80	251	110	311	147	154	215
90S	276	121	360	164	170	215
90L	301	121	385	164	170	215
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

KG12V...

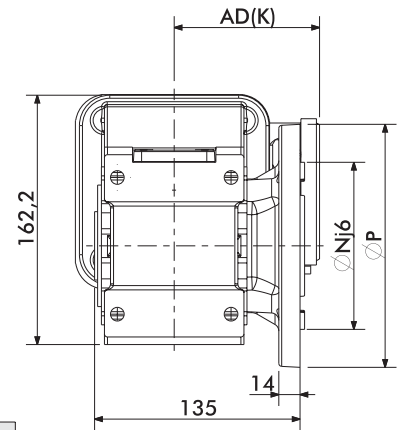
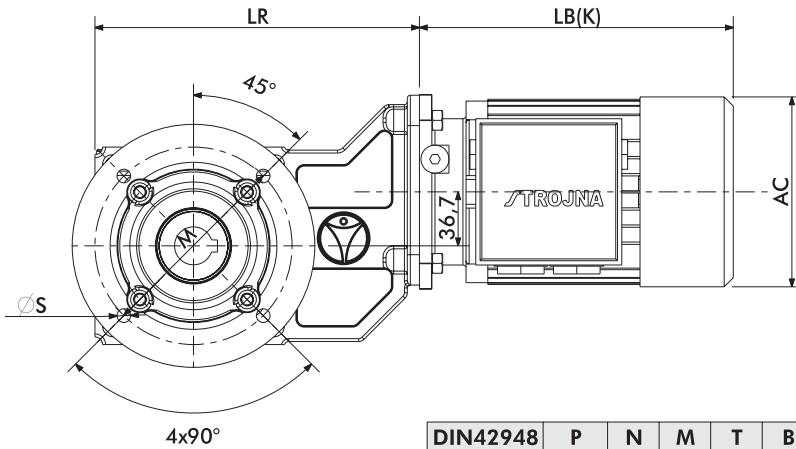


KG12Z...



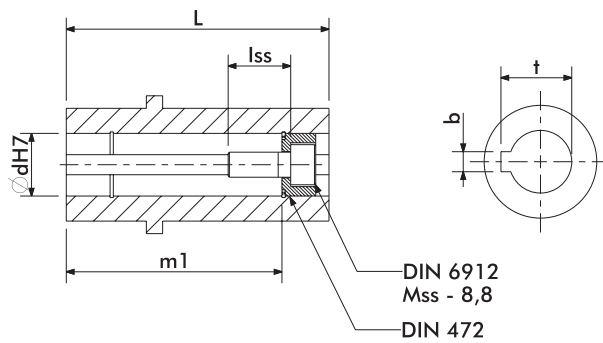
* Standard
** C Flange DIN42948

KG12P..SMB/SMR



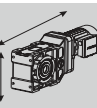
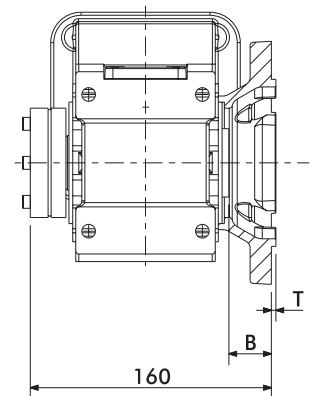
DIN42948	P	N	M	T	B	S
*A160	160	110	130	3	30	9
A200	200	130	165	3	30	11

KG12PD...



d	L	m1	lss	Mss	t	b
20	105	97	20	M6	22,8	6
*25	105	91	25	M10	28,3	8

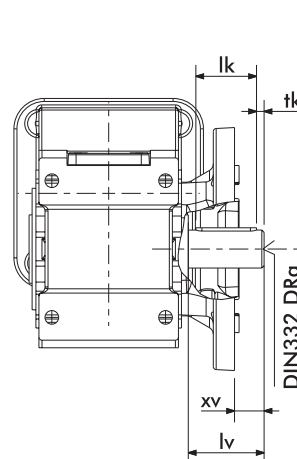
dv	tv	bv	lv	lk	tk	xv	g	lz
20	22,5	6	40	30	5	7	M6	185
*25	28	8	50	40	5	17	M10	205



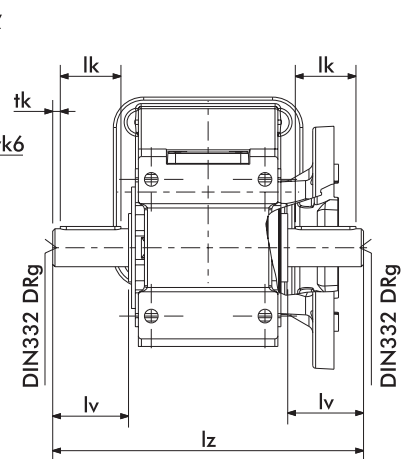
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	215
71	223	105	280	137	140	215
80	251	110	311	147	154	215
90S	276	121	360	164	170	215
90L	301	121	385	164	170	215
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

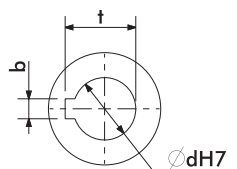
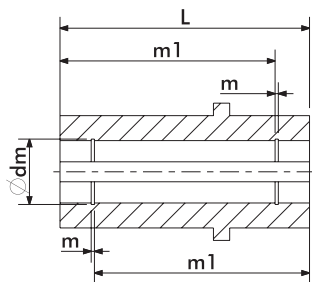
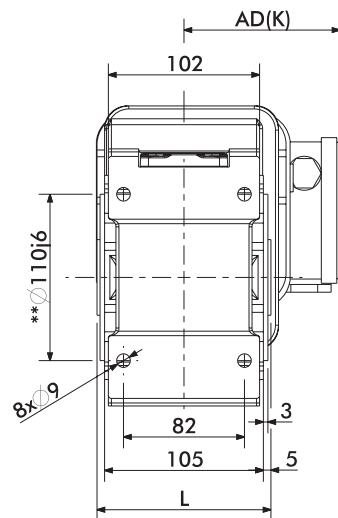
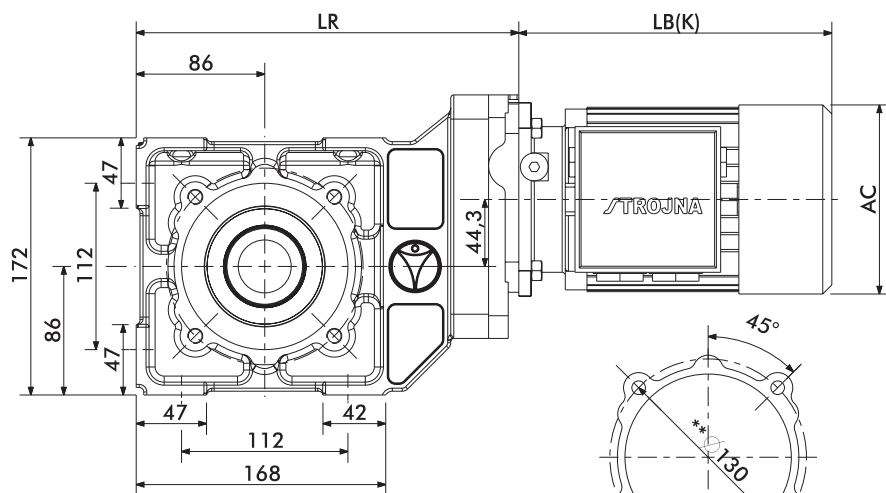
KG12PV...



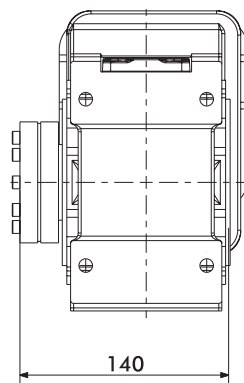
KG12PZ...



KG22...SMB/SMR



KG22D...

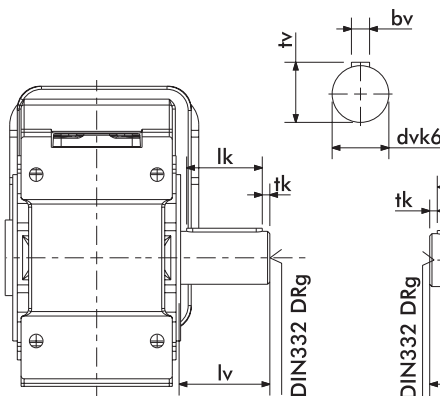


d	L	m1	dm	m	t	b
25	115	101	26,2	1,3	28,3	8
*30	115	101	31,4	1,3	33,3	8

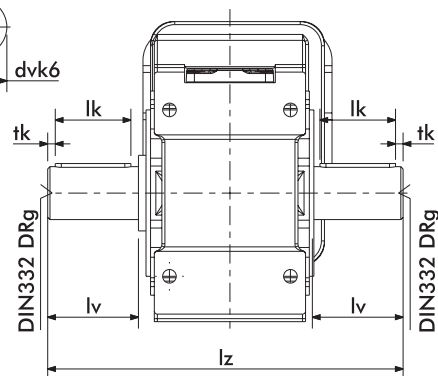
dv	tv	bv	lv	lk	tk	g	lz
25	28	8	50	40	5	M10	215
*30	33	8	60	50	5	M12	235

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	255
71	223	105	280	137	140	255
80	251	110	311	147	154	255
90S	276	121	360	164	170	255
90L	301	121	385	164	170	255
100	329	157	418	174	193	255
112M	334	169	434	199	216	255
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

KG22V...

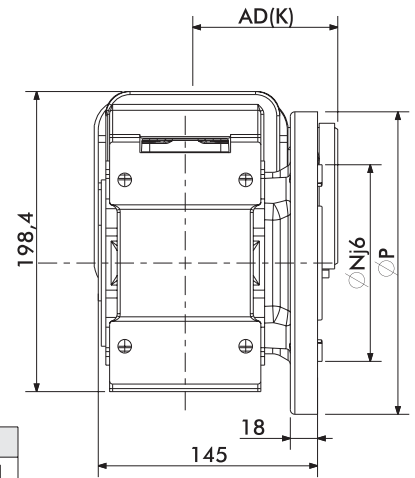
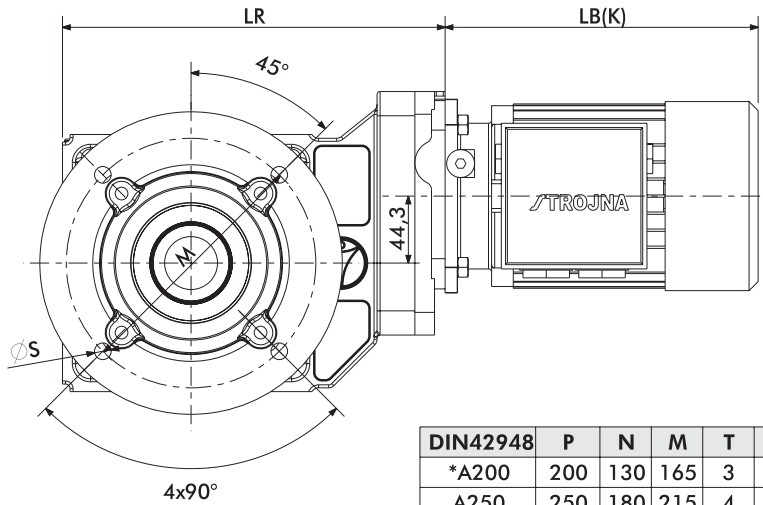


KG22Z...



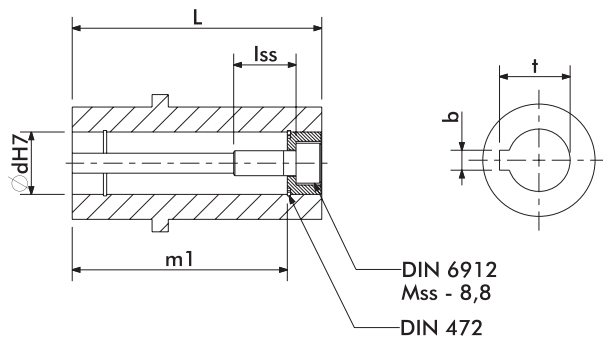
* Standard
** C Flange DIN42948

KG22P...SMB/SMR



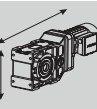
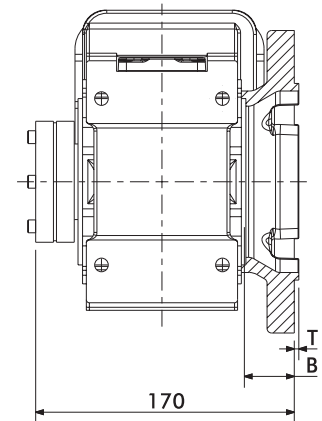
DIN42948	P	N	M	T	B	S
*A200	200	130	165	3	30	11
A250	250	180	215	4	30	14

KG22PD...



d	L	m1	lss	Mss	t	b
25	115	101	25	M10	28,3	8
*30	115	101	25	M10	33,3	8

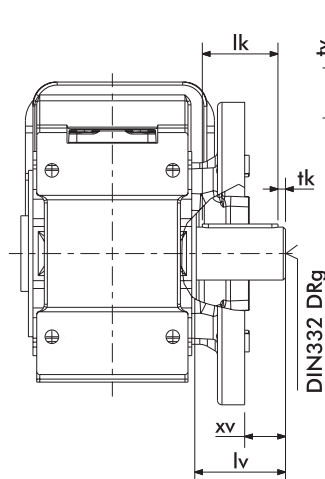
dv	tv	bv	lv	lk	tk	xv	g	lz
25	28	8	50	40	5	17	M10	215
*30	33	8	60	50	5	27	M10	235



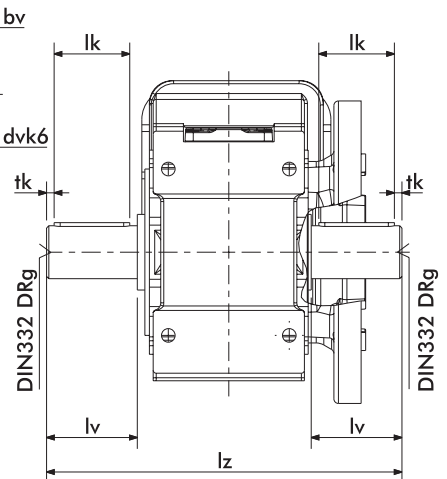
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	255
71	223	105	280	137	140	255
80	251	110	311	147	154	255
90S	276	121	360	164	170	255
90L	301	121	385	164	170	255
100	329	157	418	174	193	255
112M	334	169	434	199	216	255
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

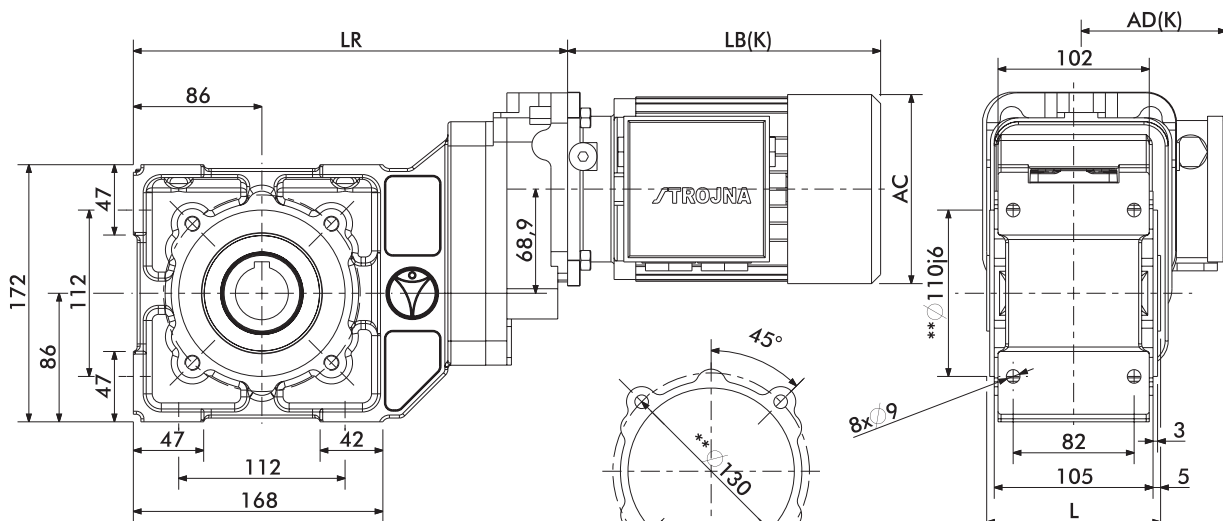
KG22PV...



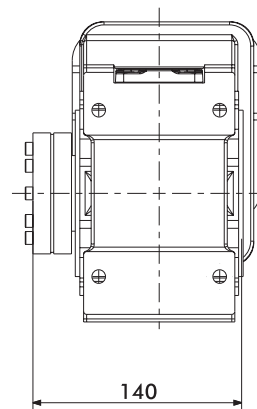
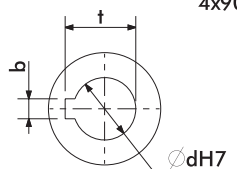
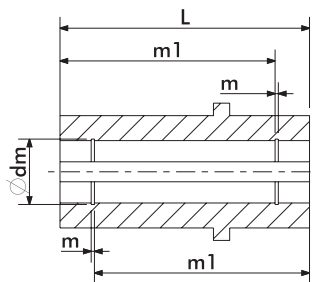
KG22PZ...



KG23...SMB/SMR



KG23D...

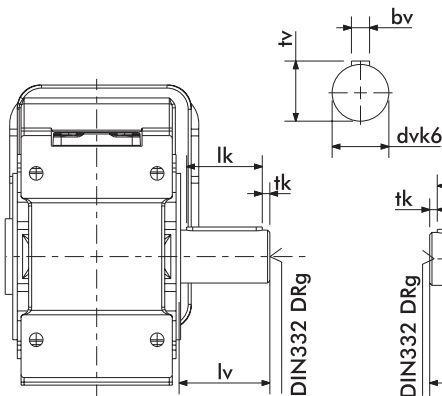


d	L	m1	dm	m	t	b
25	115	101	26,2	1,3	28,3	8
*30	115	101	31,4	1,3	33,3	8

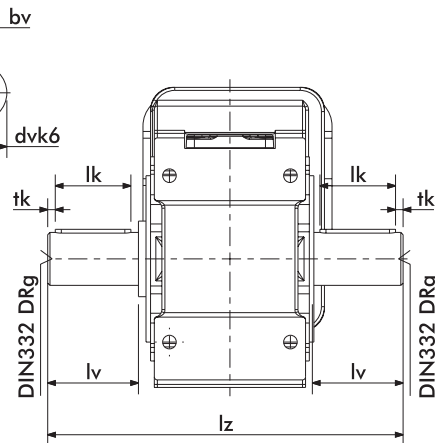
dv	tv	bv	lv	lk	tk	g	lz
25	28	8	50	40	5	M10	215
*30	33	8	60	50	5	M12	235

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	285
71	223	105	280	137	140	285
80	251	110	311	147	154	285
90S	276	121	360	164	170	285
90L	301	121	385	164	170	285
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

KG23V...

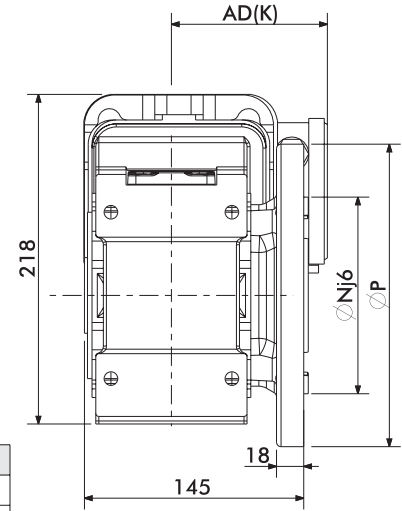
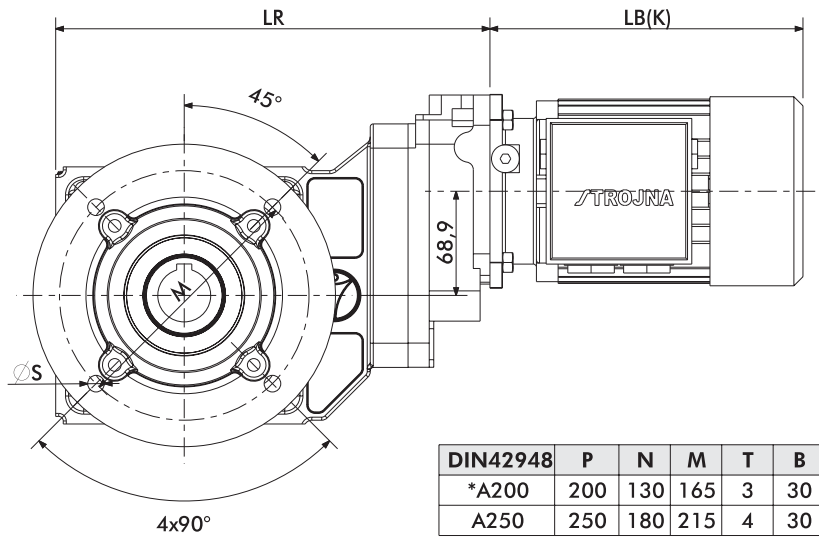


KG23Z...



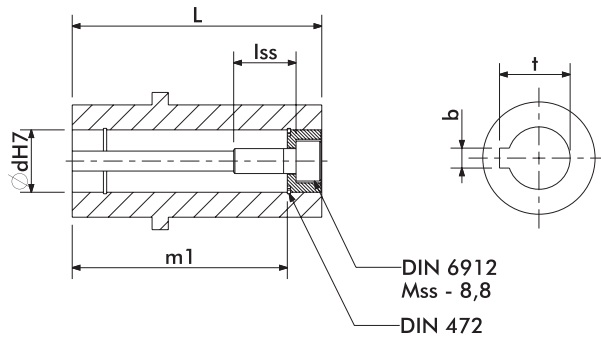
* Standard
** C Flange DIN42948

KG23P...SMB/SMR



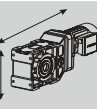
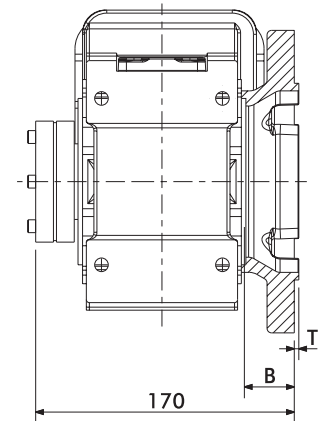
DIN42948	P	N	M	T	B	S
*A200	200	130	165	3	30	11
A250	250	180	215	4	30	14

KG23PD...



d	L	m1	lss	Mss	t	b
25	115	101	25	M10	28,3	8
*30	115	101	25	M10	33,3	8

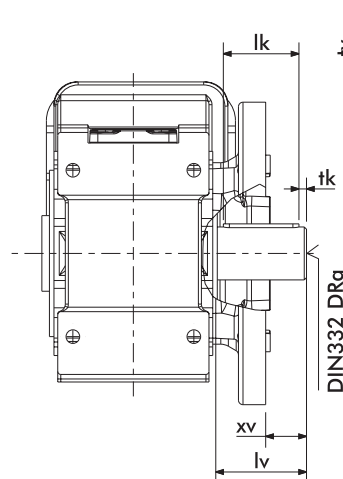
dv	tv	bv	lv	lk	tk	xv	g	lz
25	28	8	50	40	5	17	M10	215
*30	33	8	60	50	5	27	M10	235



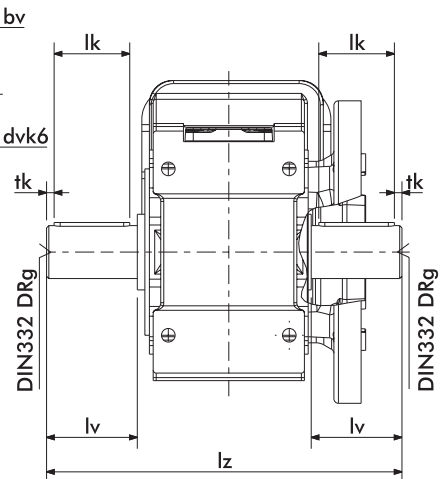
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	285
71	223	105	280	137	140	285
80	251	110	311	147	154	285
90S	276	121	360	164	170	285
90L	301	121	385	164	170	285
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

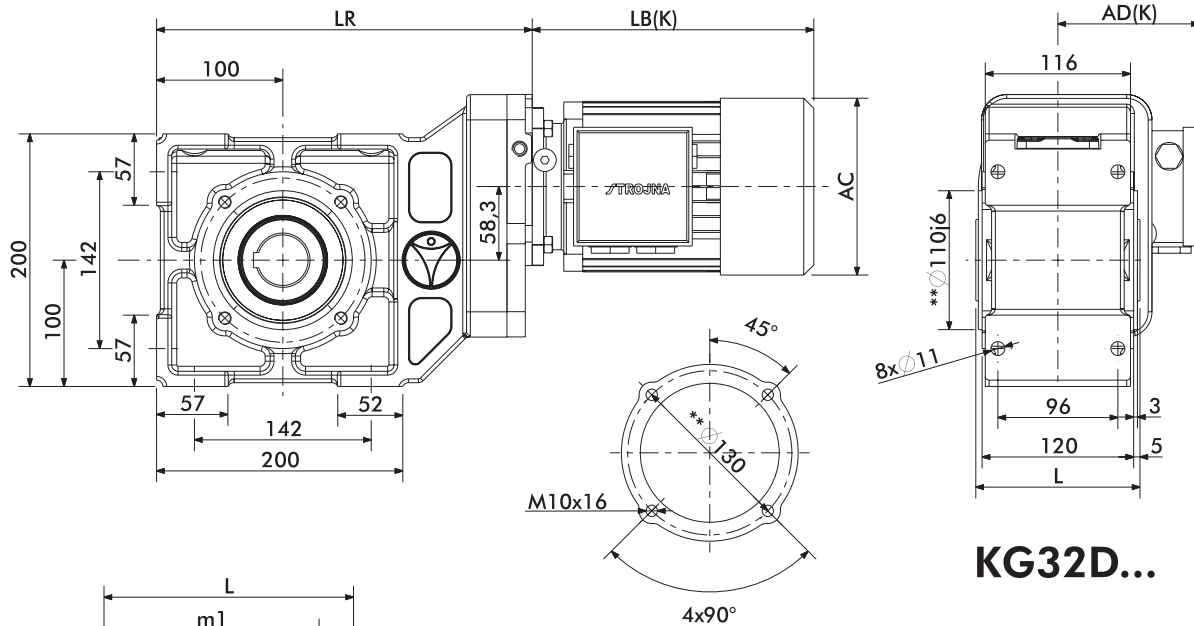
KG23PV...



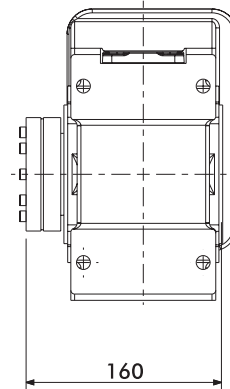
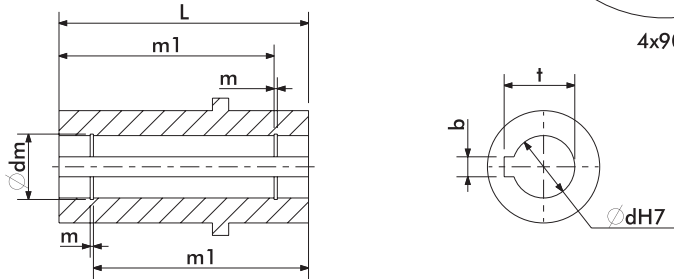
KG23PZ...



KG32...SMB/SMR



KG32D...



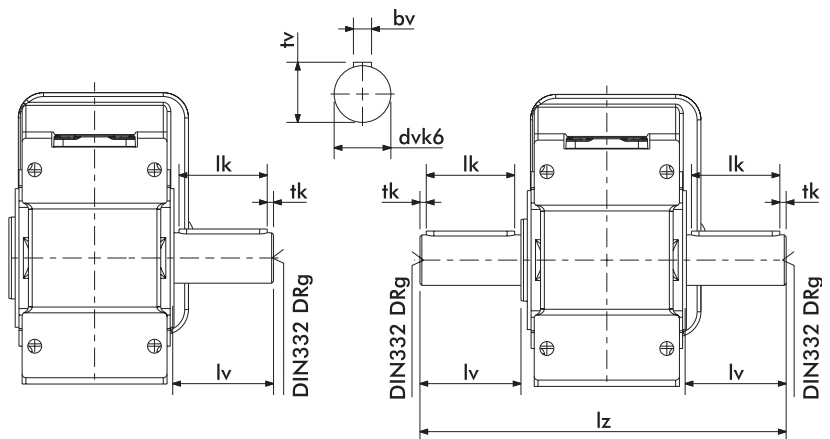
d	L	m1	dm	m	t	b
30	130	116	31,4	1.3	33,3	8
*35	130	115	37	1.6	38,3	10

dv	tv	bv	lv	lk	tk	g	lz
30	33	8	60	50	5	M10	250
*35	38	10	70	63	5	M12	270

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	297
71	223	105	280	137	140	297
80	251	110	311	147	154	297
90S	276	121	360	164	170	297
90L	301	121	385	164	170	297
100	329	157	418	174	193	301
112M	334	169	434	199	216	301
132S	377	190	492	183	247	314
132M	415	190	532	183	247	314
132Ma	415	190	532	183	247	314
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

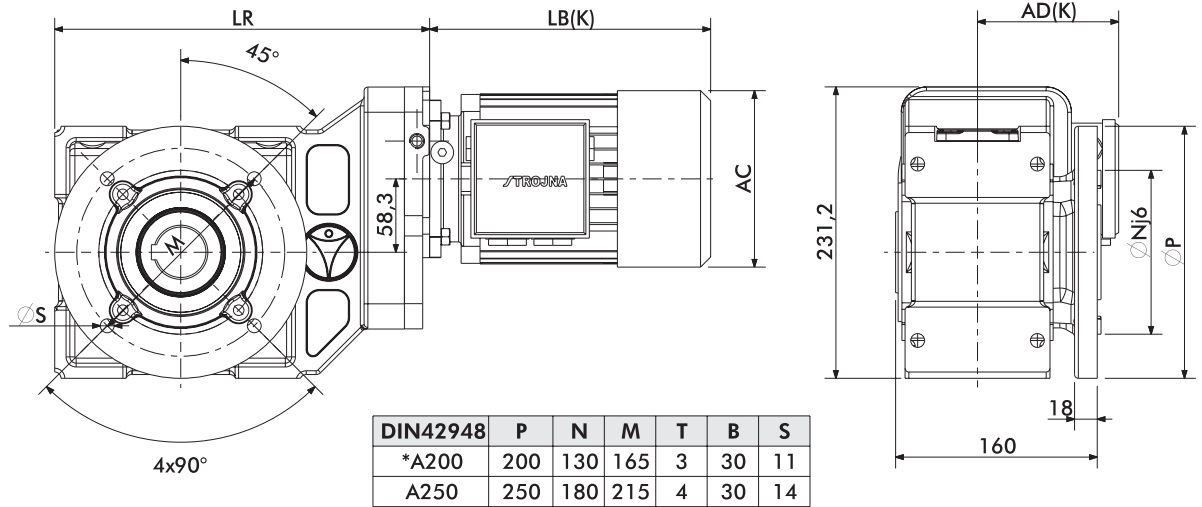
KG32V...

KG32Z...

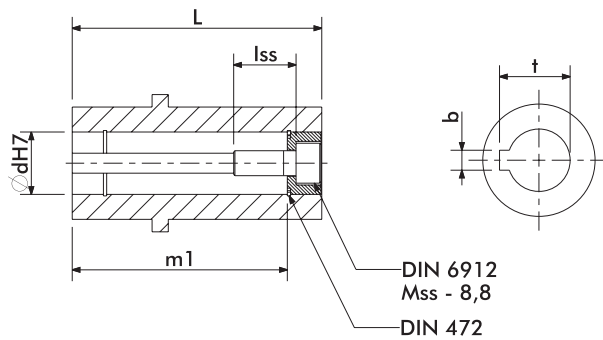


* Standard
** C Flange DIN42948

KG32P...SMB/SMR

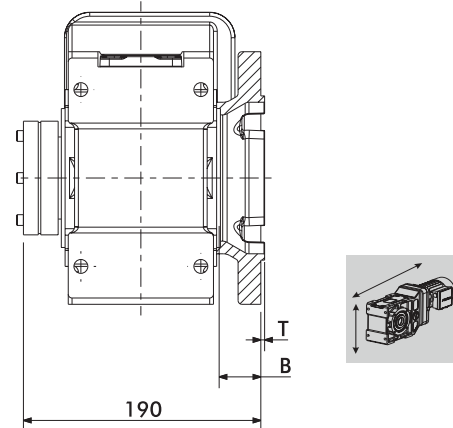


KG32PD...



d	L	m1	lss	Mss	t	b
30	130	116	25	M10	33,3	8
*35	130	115	30	M12	38,3	10

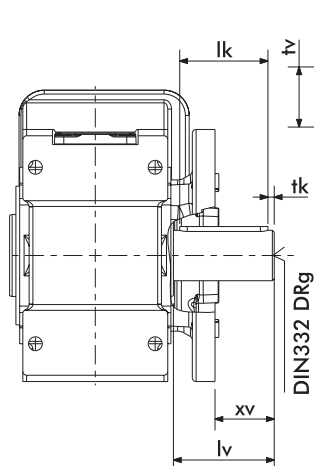
dv	tv	bv	lv	lk	tk	xv	g	lz
30	33	8	60	50	5	27	M10	250
*35	38	10	70	63	5	37	M12	270



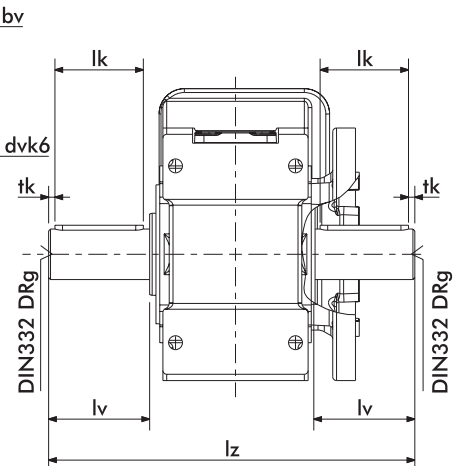
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	297
71	223	105	280	137	140	297
80	251	110	311	147	154	297
90S	276	121	360	164	170	297
90L	301	121	385	164	170	297
100	329	157	418	174	193	301
112M	334	169	434	199	216	301
132S	377	190	492	183	247	314
132M	415	190	532	183	247	314
132Ma	415	190	532	183	247	314
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

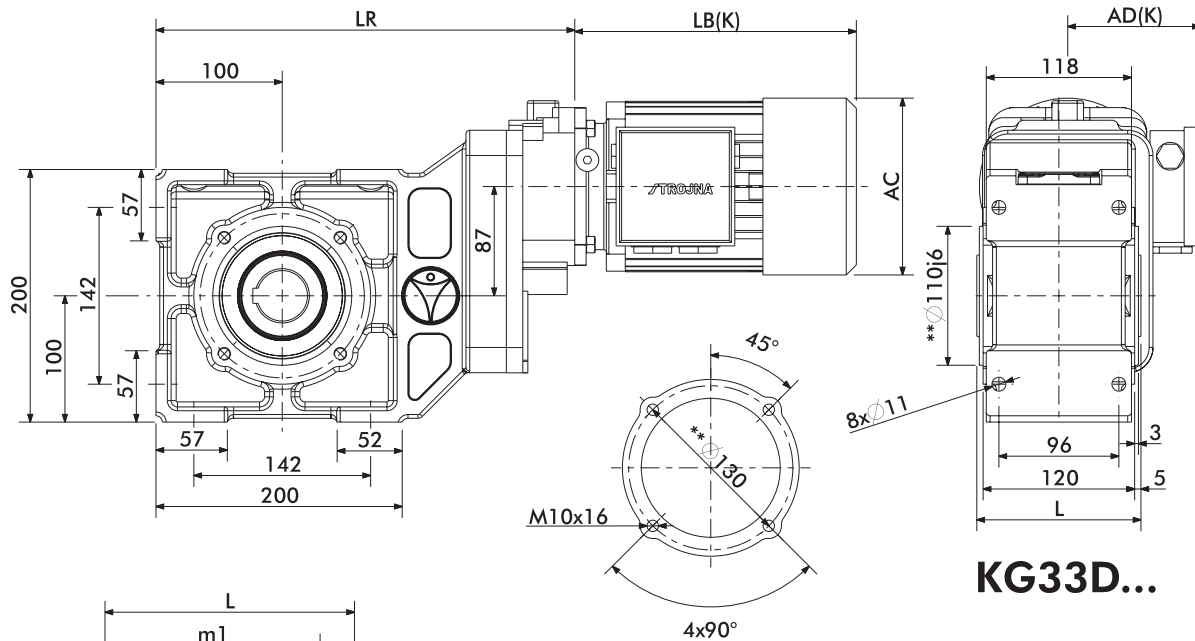
KG32PV...



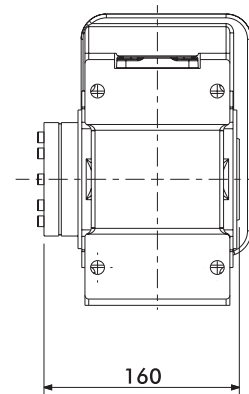
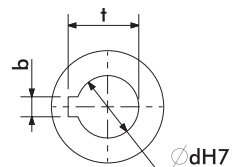
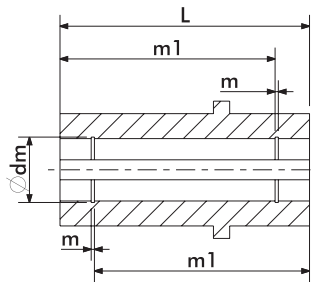
KG32PZ...



KG33...SMB/SMR



KG33D...



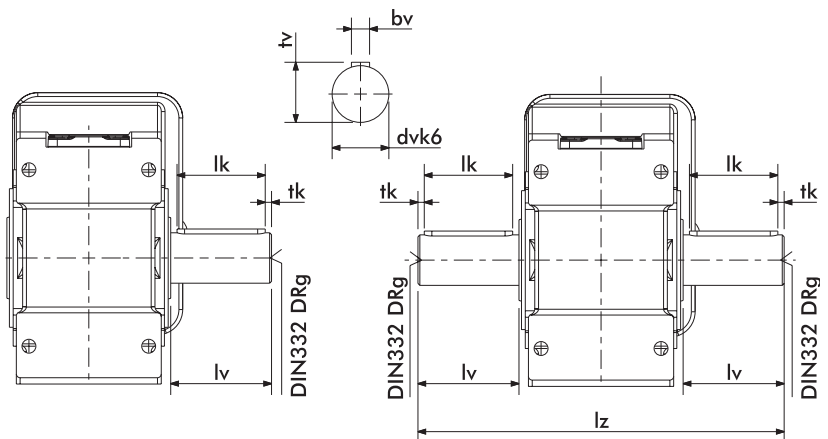
d	L	m1	dm	m	t	b
30	130	116	31,4	1,3	33,3	8
*35	130	115	37	1,6	38,3	10

dv	tv	bv	lv	lk	tk	g	lz
30	33	8	60	50	5	M10	250
*35	38	10	70	63	5	M12	270

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	334
71	223	105	280	137	140	334
80	251	110	311	147	154	334
90S	276	121	360	164	170	334
90L	301	121	385	164	170	334
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

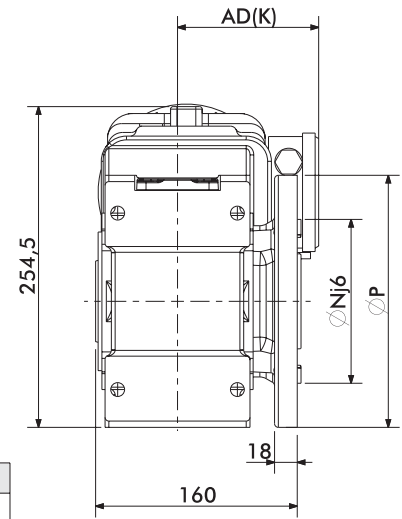
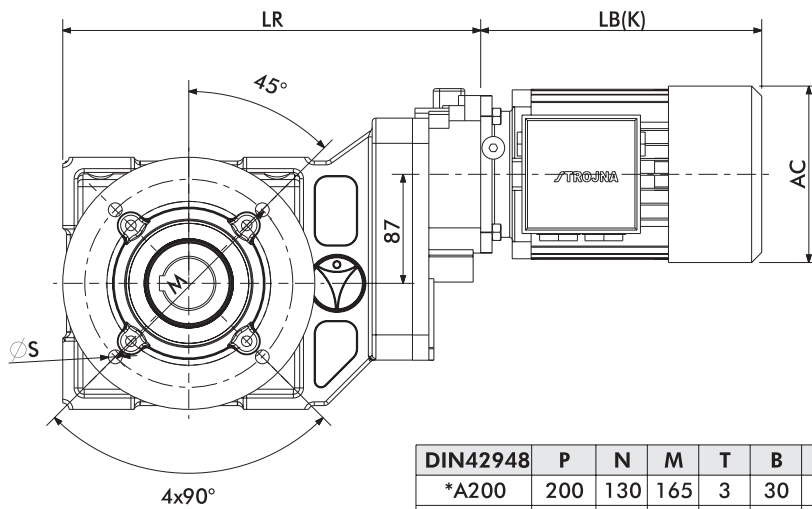
KG33V...

KG33Z...



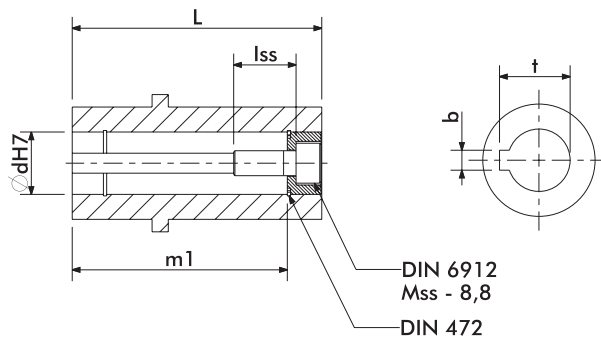
* Standard
** C Flange DIN42948

KG33P...SMB/SMR



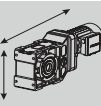
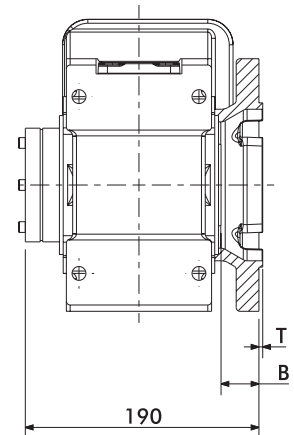
DIN42948	P	N	M	T	B	S
*A200	200	130	165	3	30	11
A250	250	180	215	4	30	14

KG33PD...



d	L	m1	lss	Mss	t	b
30	130	116	25	M10	33,3	8
*35	130	115	30	M12	38,3	10

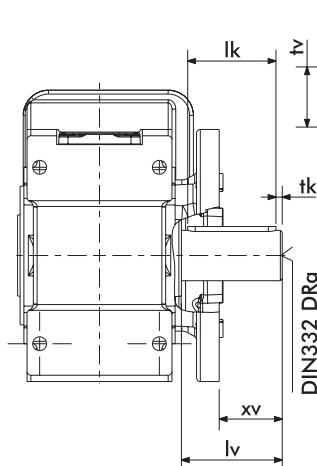
dv	tv	bv	lv	lk	tk	xv	g	lz
30	33	8	60	50	5	27	M10	250
*35	38	10	70	63	5	37	M12	270



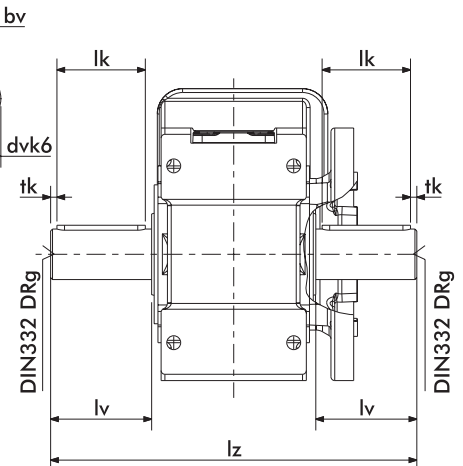
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	334
71	223	105	280	137	140	334
80	251	110	311	147	154	334
90S	276	121	360	164	170	334
90L	301	121	385	164	170	334
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

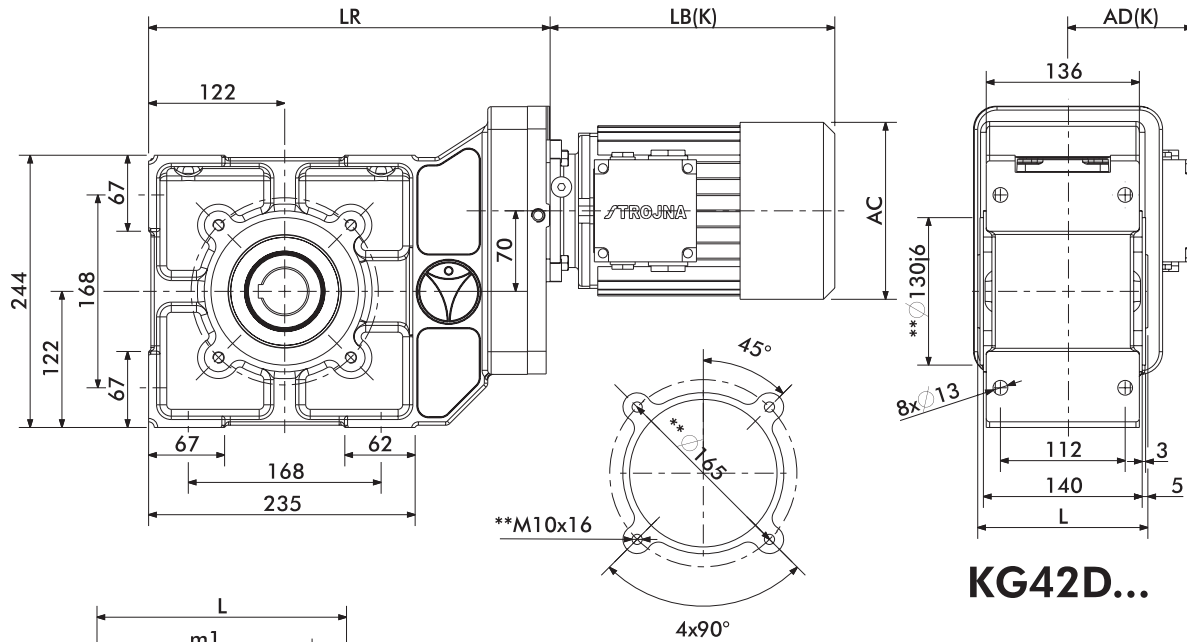
KG33PV...



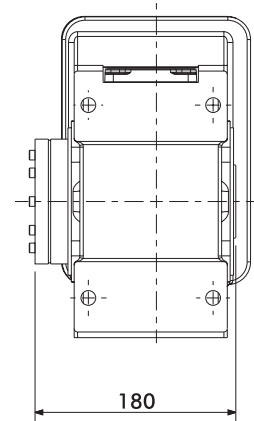
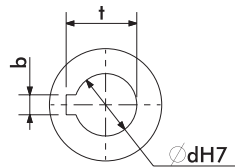
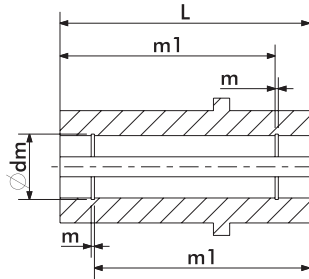
KG33PZ...



KG42...SMB/SMR



KG42D...



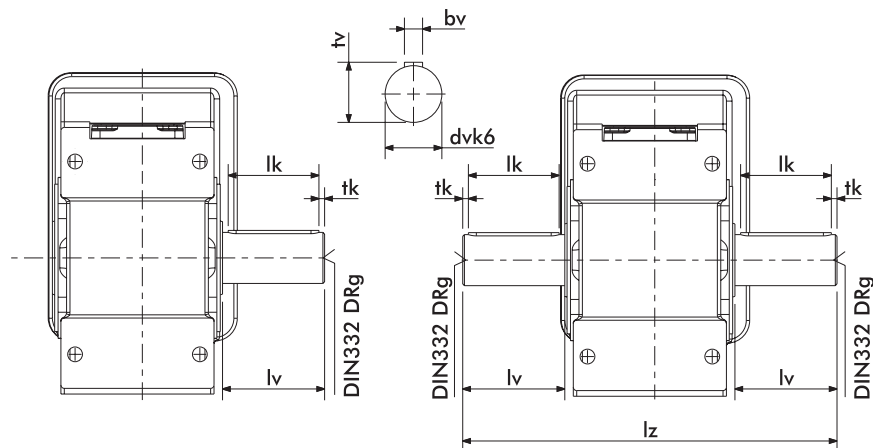
d	L	m1	dm	m	t	b
40	150	138	42,5	1,85	43,3	12
*45	150	133	47,5	1,85	48,8	14

dv	tv	bv	lv	lk	tk	g	lz
40	43	12	80	70	5	M16	310
*45	48,5	14	90	80	5	M16	330

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	354
71	223	105	280	137	140	354
80	251	110	311	147	154	354
90S	276	121	360	164	170	357
90L	301	121	385	164	170	357
100	329	157	418	174	193	362
112M	334	169	434	199	216	362
132S	377	190	492	183	247	372
132M	415	190	532	183	247	372
132Ma	415	190	532	183	247	372
160M	489	246	613	246	285	386
160L	533	246	657	246	285	386
180M						
180L						
200L						
225S						
225M						
250M						

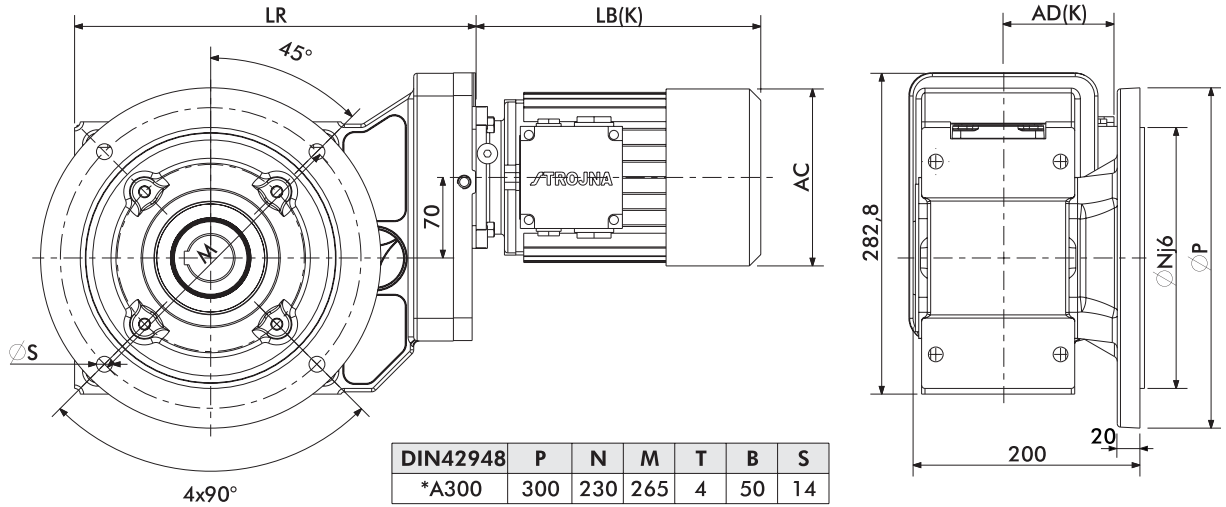
KG42V...

KG42Z...

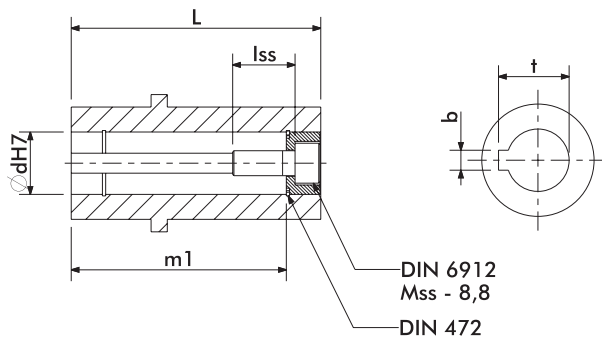


* Standard
** C Flange DIN42948

KG42P..SMB/SMR

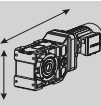
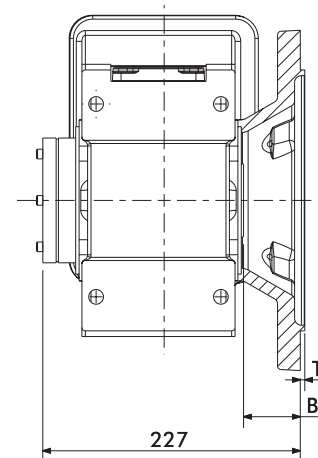


KG42PD...



d	L	m1	lss	Mss	t	b
40	150	138	40	M16	43,3	12
*45	150	133	40	M16	48,8	14

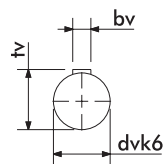
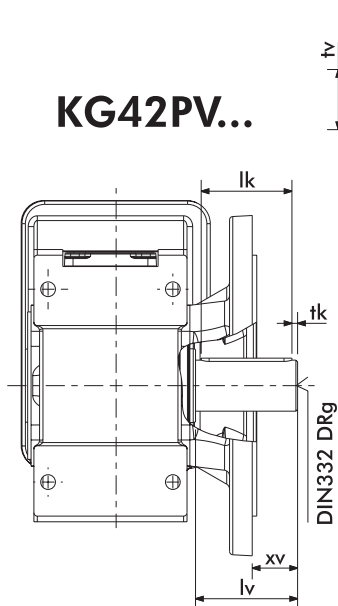
dv	tv	bv	lv	lk	tk	xv	g	lz
40	43	12	80	70	5	27	M16	310
*45	48,5	14	90	80	5	37	M16	330



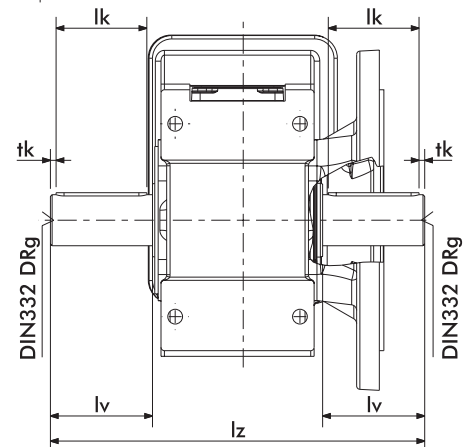
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	354
71	223	105	280	137	140	354
80	251	110	311	147	154	354
90S	276	121	360	164	170	357
90L	301	121	385	164	170	357
100	329	157	418	174	193	362
112M	334	169	434	199	216	362
132S	377	190	492	183	247	372
132M	415	190	532	183	247	372
132Ma	415	190	532	183	247	372
160M	489	246	613	246	285	386
160L	533	246	657	246	285	386
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

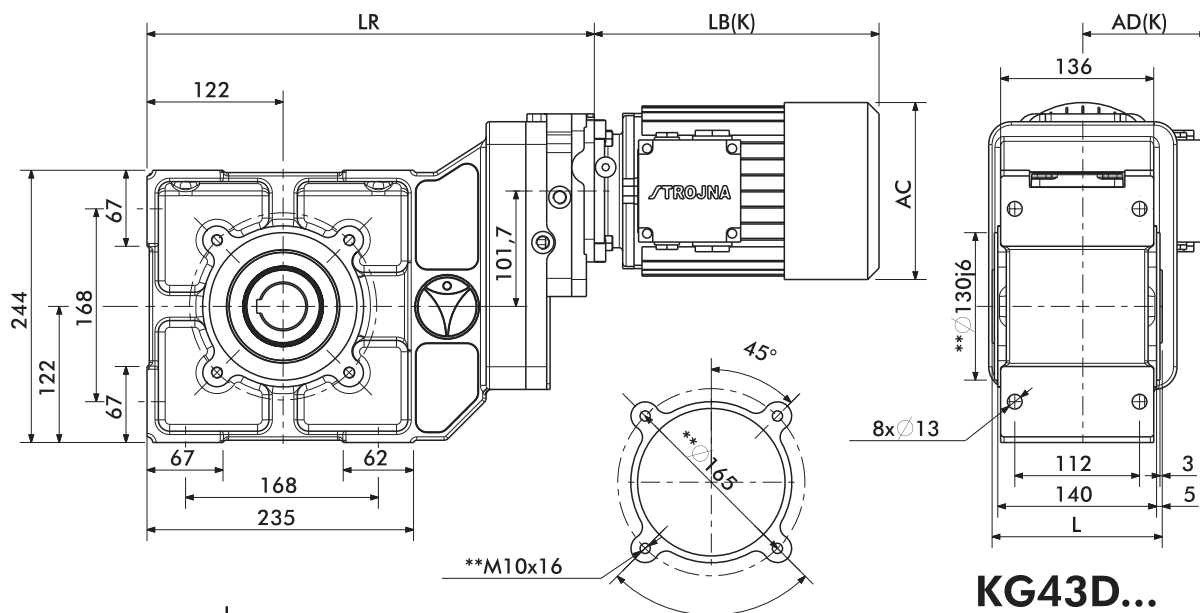
KG42PV...



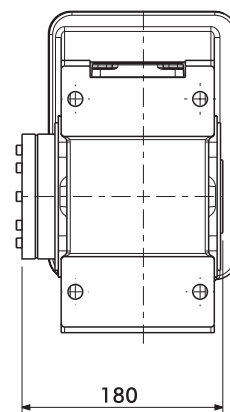
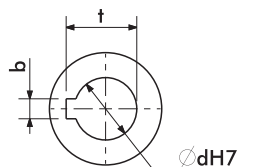
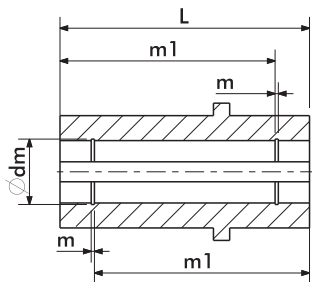
KG42PZ...



KG43...SMB/SMR



KG43D...



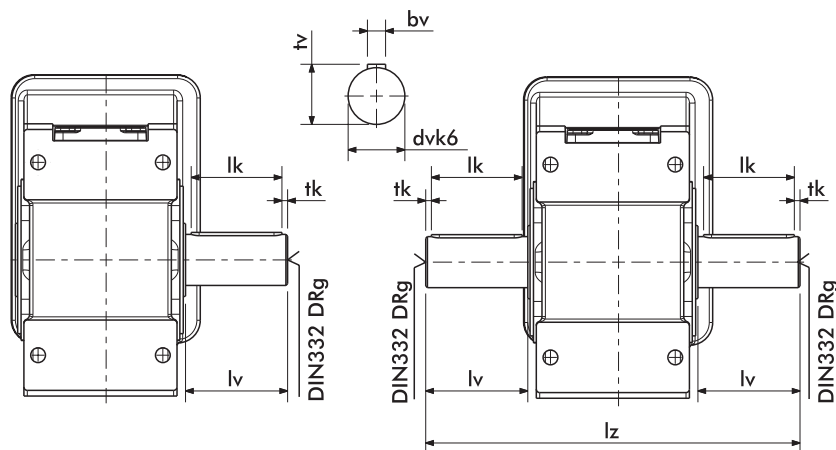
d	L	m1	dm	m	t	b
40	150	138	42,5	1,85	43,3	12
*45	150	133	47,5	1,85	48,8	14

dv	tv	bv	lv	lk	tk	g	lz
40	43	12	80	70	5	M16	310
*45	48,5	14	90	80	5	M16	330

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	396
71	223	105	280	137	140	396
80	251	110	311	147	154	396
90S	276	121	360	164	170	397
90L	301	121	385	164	170	397
100	329	157	418	174	193	400
112M	334	169	434	199	216	400
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

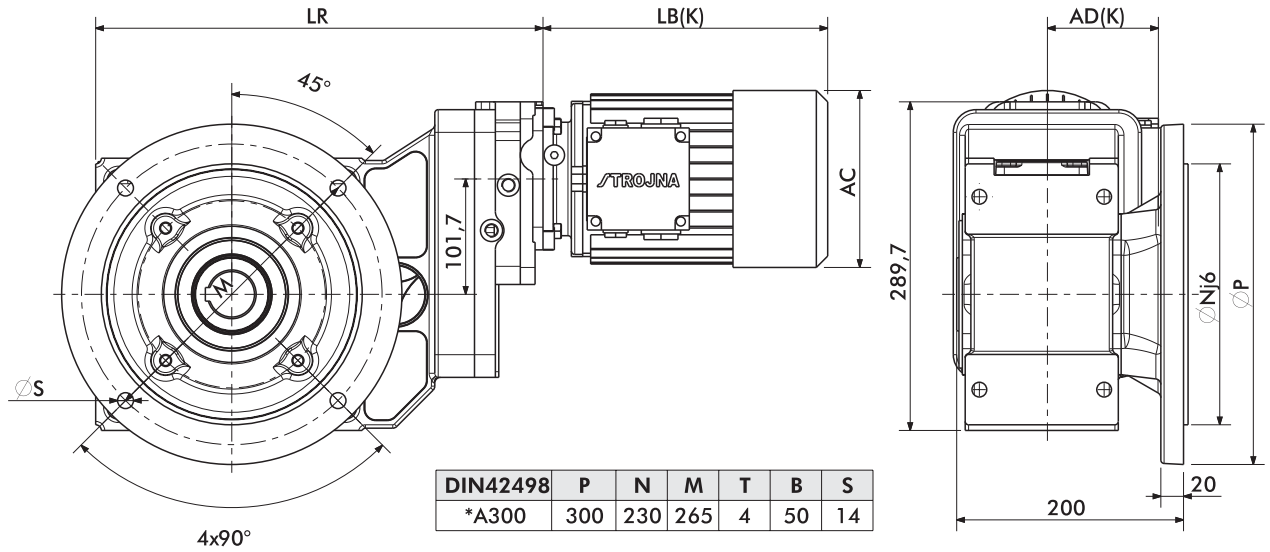
KG43V...

KG43Z...

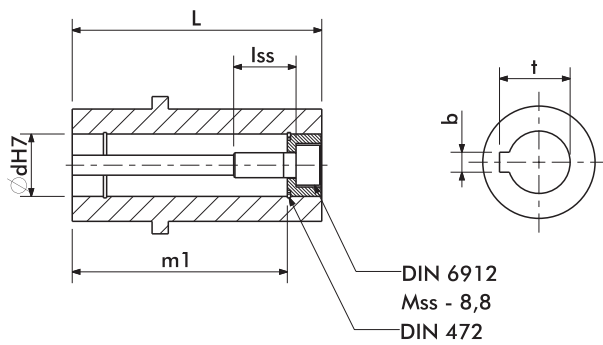


* Standard
** C Flange DIN42948

KG43P..SMB/SMR

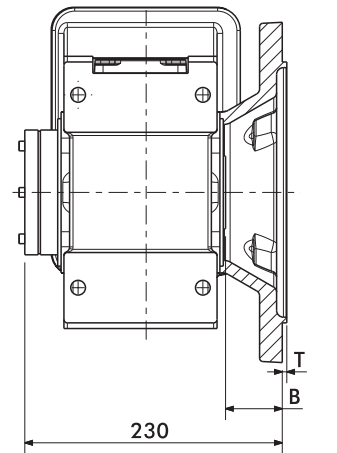


KG43PD...



d	L	m1	lss	Mss	t	b
40	150	138	40	M16	43,3	12
*45	150	133	40	M16	48,8	14

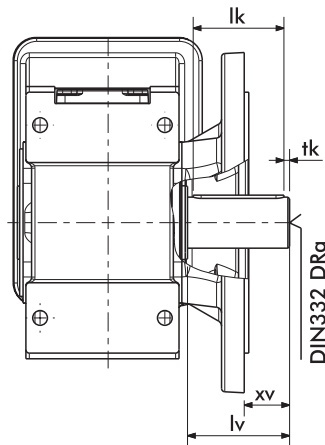
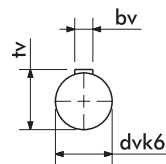
dv	tv	bv	lv	lk	tk	xv	g	lz
40	43	12	80	70	5	27	M16	310
*45	48,5	14	90	80	5	37	M16	330



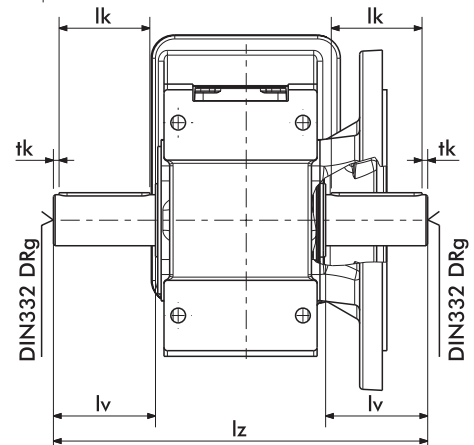
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	396
71	223	105	280	137	140	396
80	251	110	311	147	154	396
90S	276	121	360	164	170	397
90L	301	121	385	164	170	397
100	329	157	418	174	193	400
112M	334	169	434	199	216	400
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

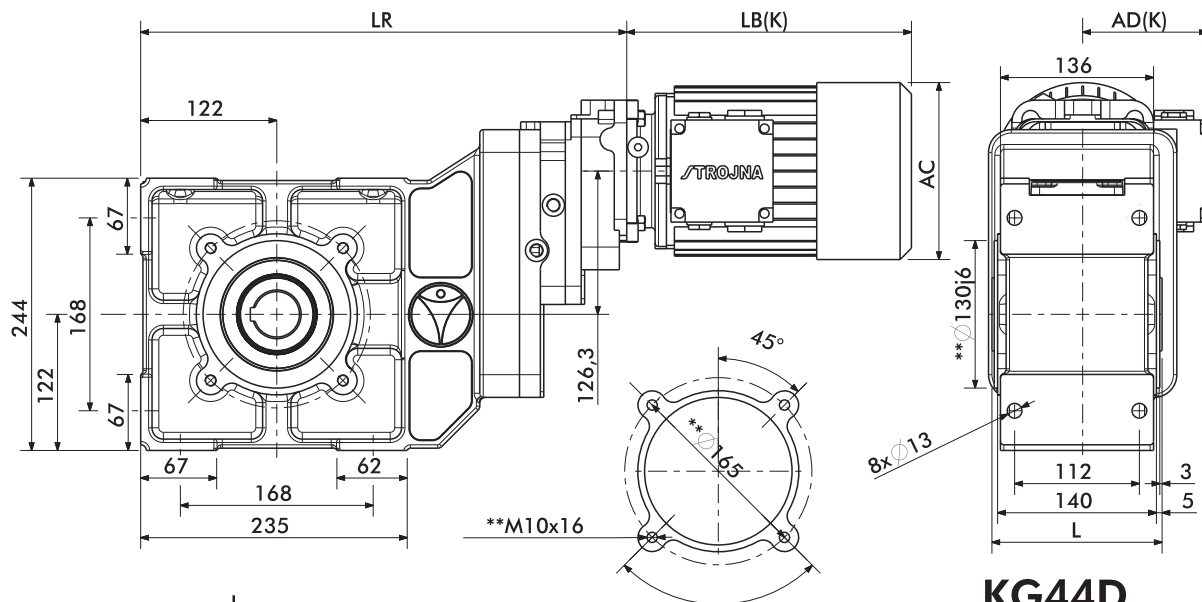
KG43PV...



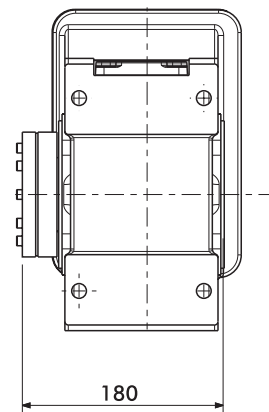
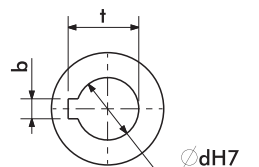
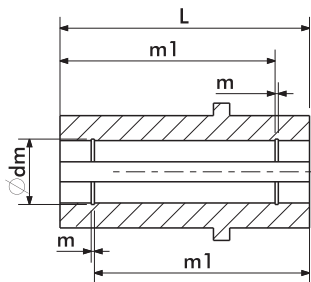
KG43PZ...



KG44...SMB/SMR



KG44D...



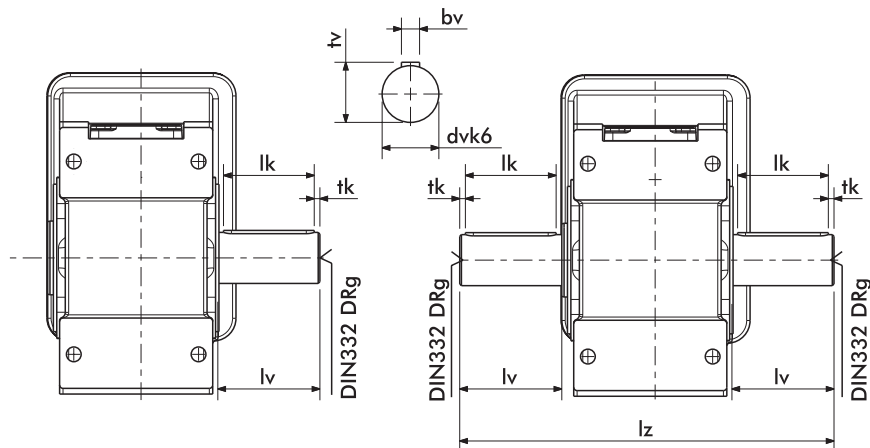
d	L	m1	dm	m	t	b
40	150	138	42,5	1,85	43,3	12
*45	150	133	47,5	1,85	48,8	14

dv	tv	bv	lv	lk	tk	g	lz
40	43	12	80	70	5	M16	310
*45	48,5	14	90	80	5	M16	330

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	429
71	223	105	280	137	140	429
80	251	110	311	147	154	429
90S	276	121	360	164	170	430
90L	301	121	385	164	170	430
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

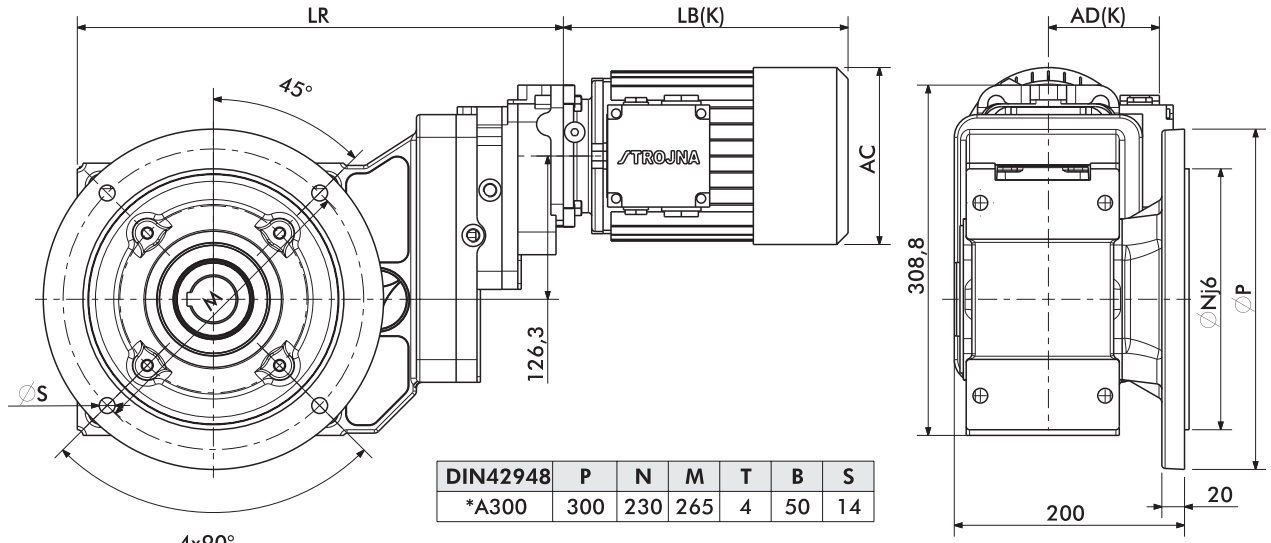
KG44V...

KG44Z...

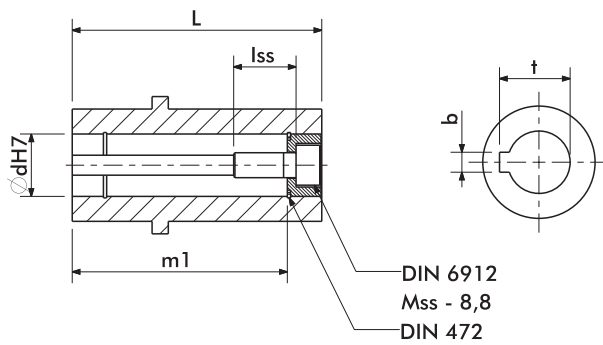


* Standard
** C Flange DIN42948

KG44P..SMB/SMR

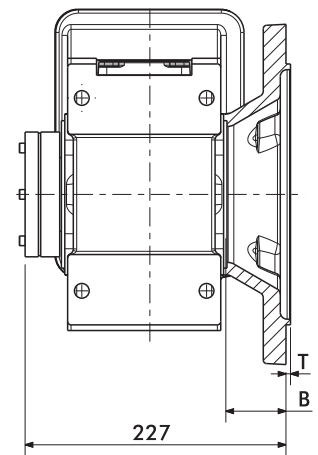


KG44PD...



d	L	m1	lss	Mss	t	b
40	150	138	40	M16	43,3	12
*45	150	133	40	M16	48,8	14

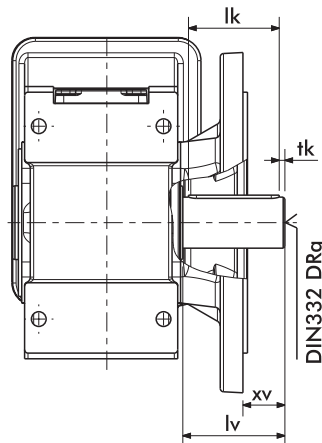
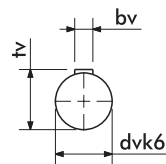
dv	tv	bv	lv	lk	tk	xv	g	lz
40	43	12	80	70	5	27	M16	310
*45	48,5	14	90	80	5	37	M16	330



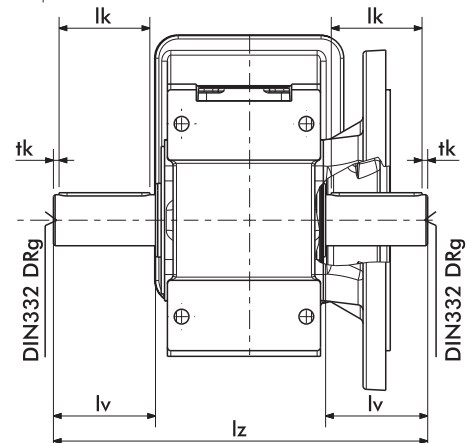
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	429
71	223	105	280	137	140	429
80	251	110	311	147	154	429
90S	276	121	360	164	170	430
90L	301	121	385	164	170	430
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

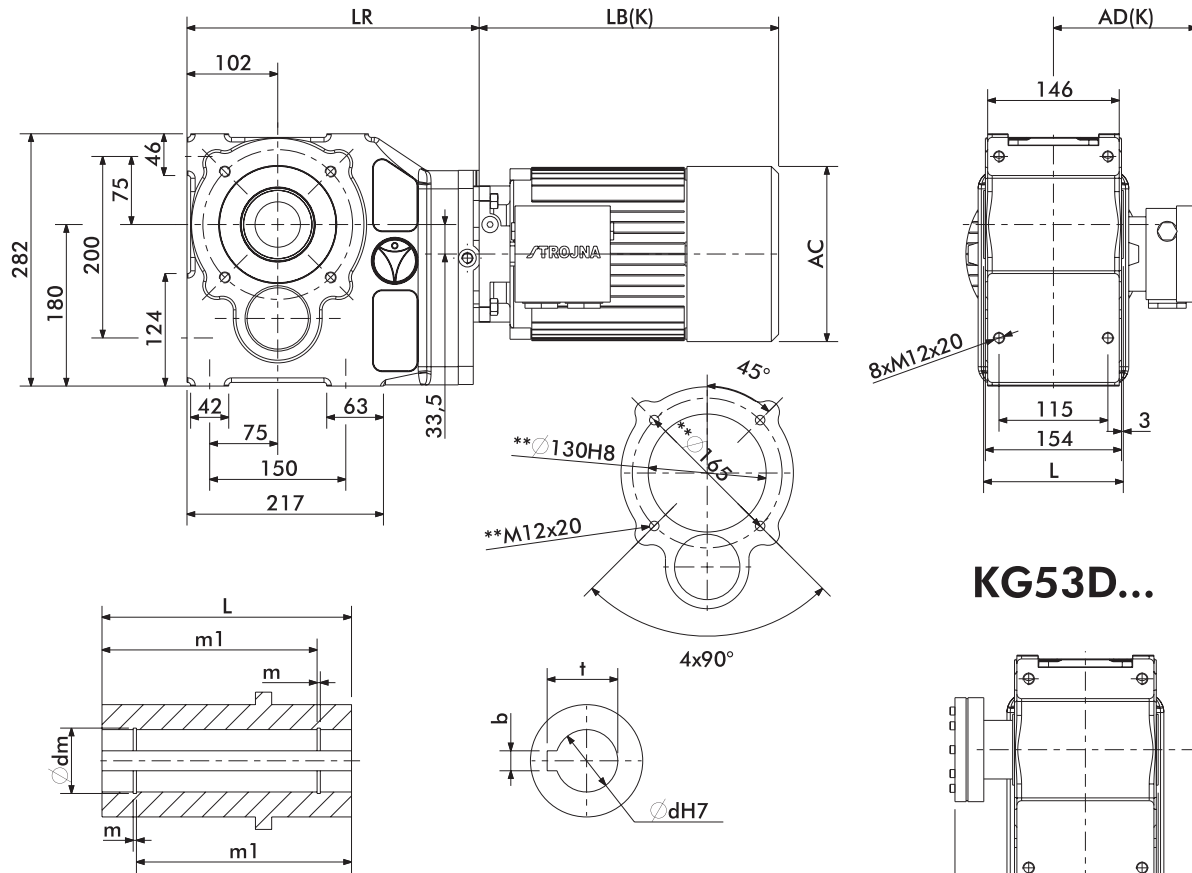
KG44PV...



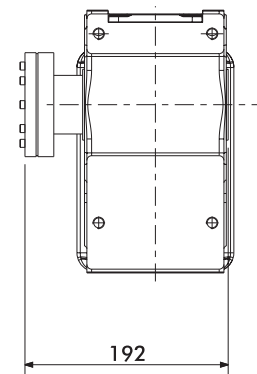
KG44PZ...



KG53...SMB/SMR



KG53D...

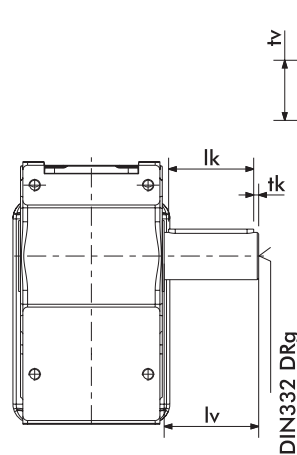


d	L	m1	dm	m	t	b
*50	160	143	53	2,15	53,8	14

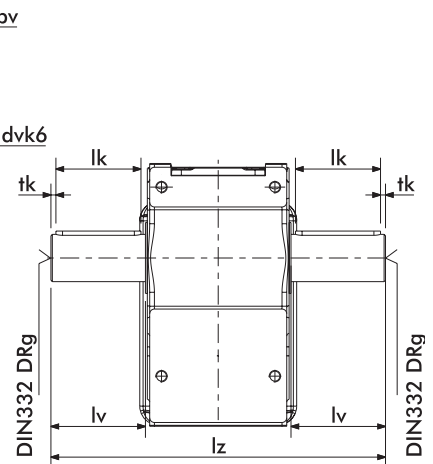
dv	tv	bv	lv	lk	tk	g	lz
*50	53,5	14	100	80	10	M16	360

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	317
71	223	105	280	137	140	317
80	251	110	311	147	154	317
90S	276	121	360	164	170	318
90L	301	121	385	164	170	318
100	329	157	418	174	193	322
112M	334	169	434	199	216	322
132S	377	190	492	183	247	335
132M	415	190	532	183	247	335
132Ma	415	190	532	183	247	335
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

KG53V...

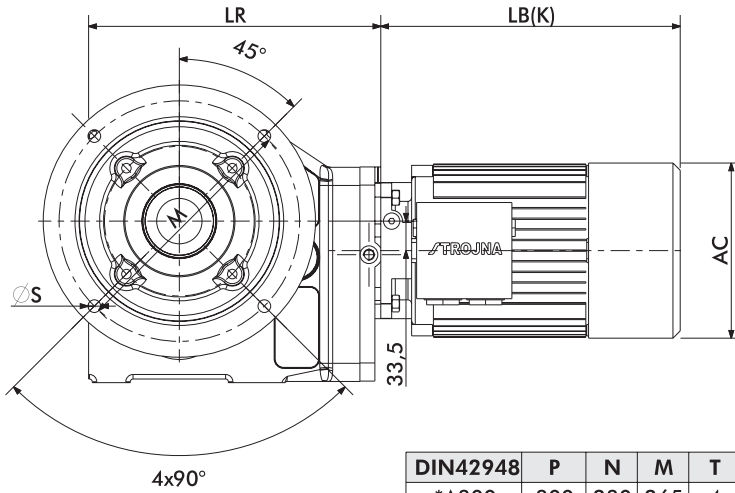


KG53Z...

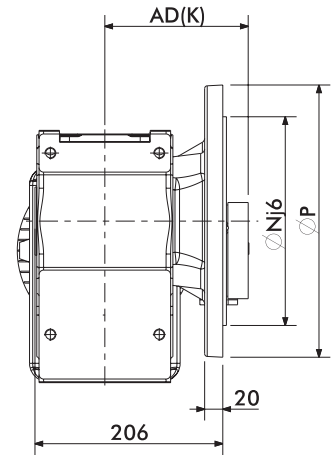


*Standard
**C Flange DIN42948

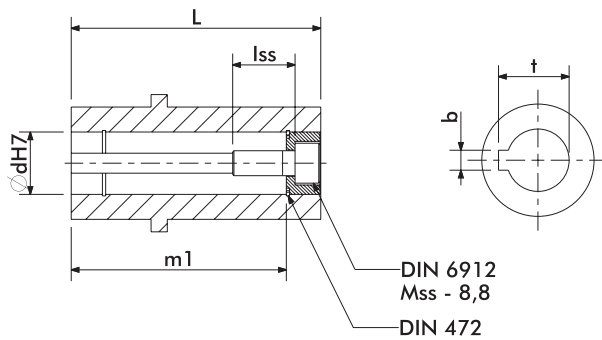
KG53P..SMB/SMR



DIN42948	P	N	M	T	B	S
*A300	300	230	265	4	52	14



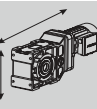
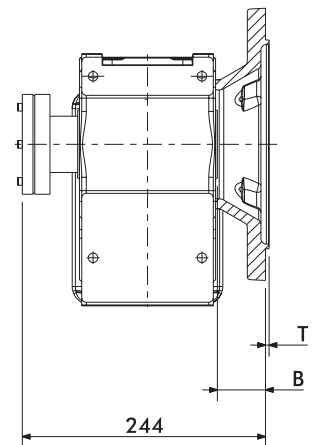
KG53PD...



DIN 6912
Mss - 8,8
DIN 472

d	L	m1	lss	Mss	t	b
*50	160	143	45	M16	53,8	14

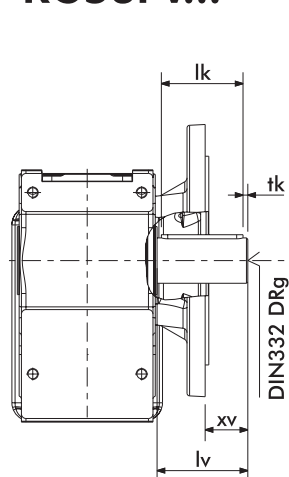
dv	tv	bv	lv	lk	tk	xv	g	lz
*50	53,5	14	100	80	10	47	M16	360



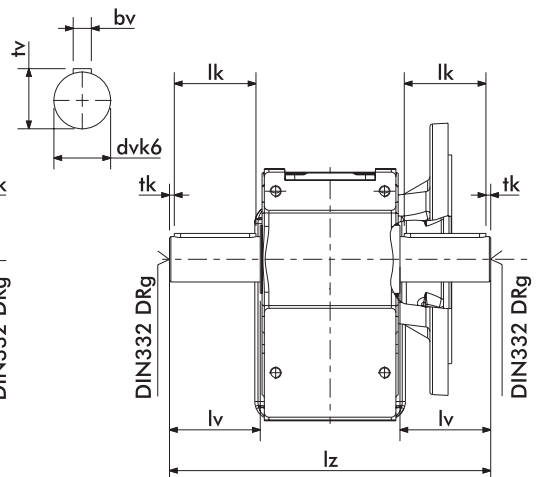
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	317
71	223	105	280	137	140	317
80	251	110	311	147	154	317
90S	276	121	360	164	170	318
90L	301	121	385	164	170	318
100	329	157	418	174	193	322
112M	334	169	434	199	216	322
132S	377	190	492	183	247	335
132M	415	190	532	183	247	335
132Ma	415	190	532	183	247	335
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

*Standard

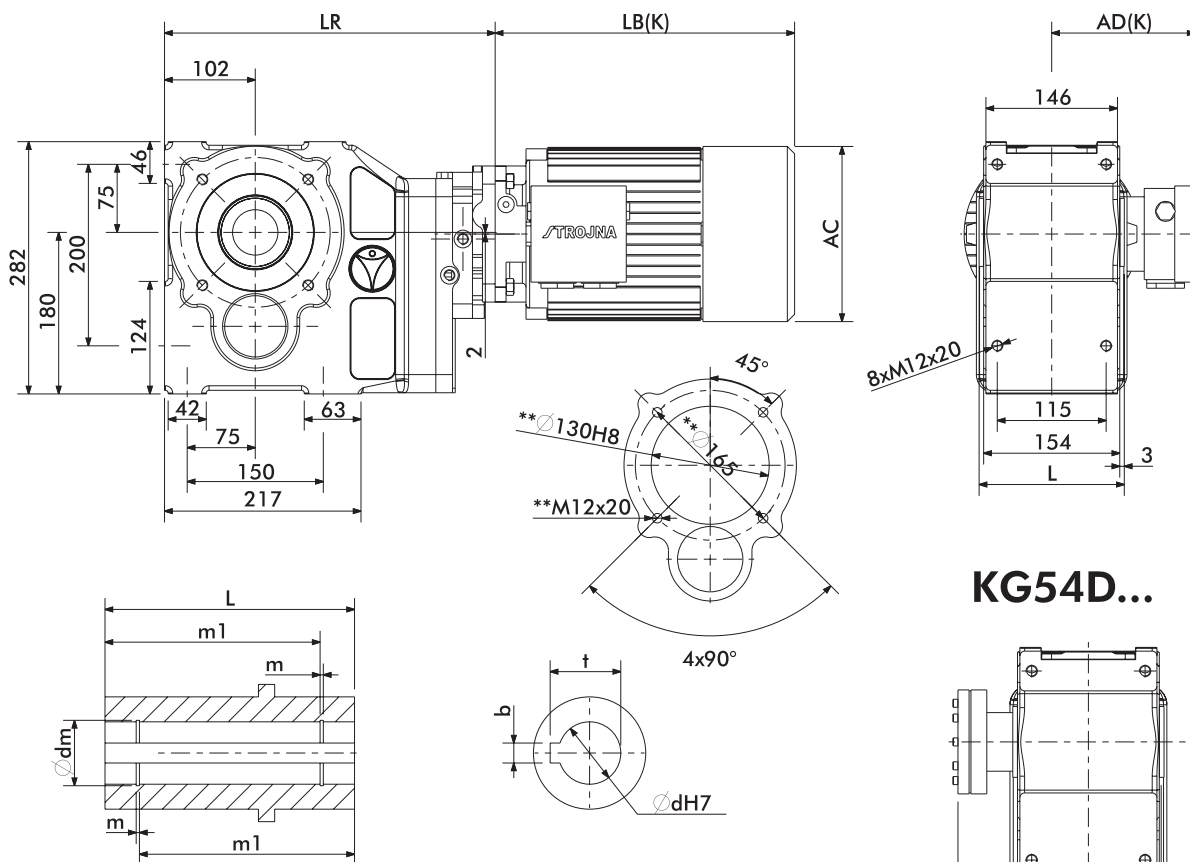
KG53PV...



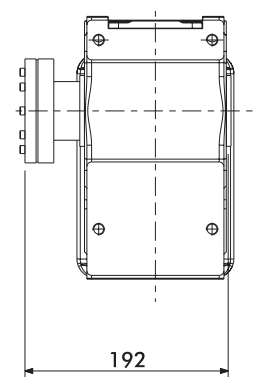
KG53PZ...



KG54...SMB/SMR



KG54D...

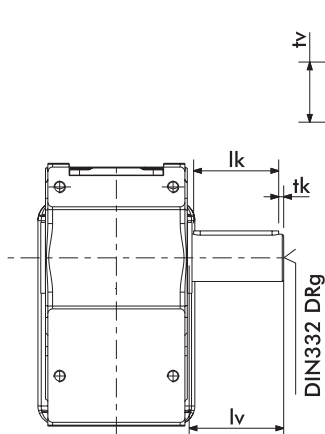


d	L	m1	dm	m	t	b
*50	160	143	53	2,15	53,8	14

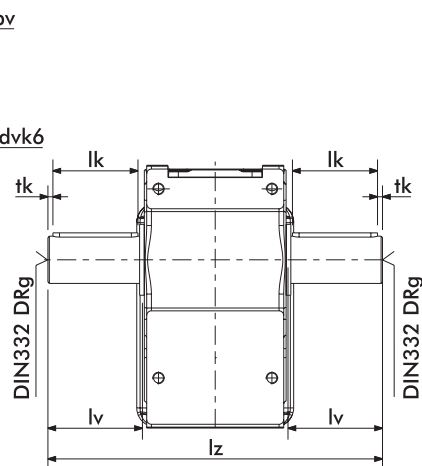
dv	tv	bv	lv	lk	tk	g	lz
*50	53,5	14	100	80	10	M16	360

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	362
71	223	105	280	137	140	362
80	251	110	311	147	154	362
90S	276	121	360	164	170	363
90L	301	121	385	164	170	363
100	329	157	418	174	193	368
112M	334	169	434	199	216	368
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

KG54V...

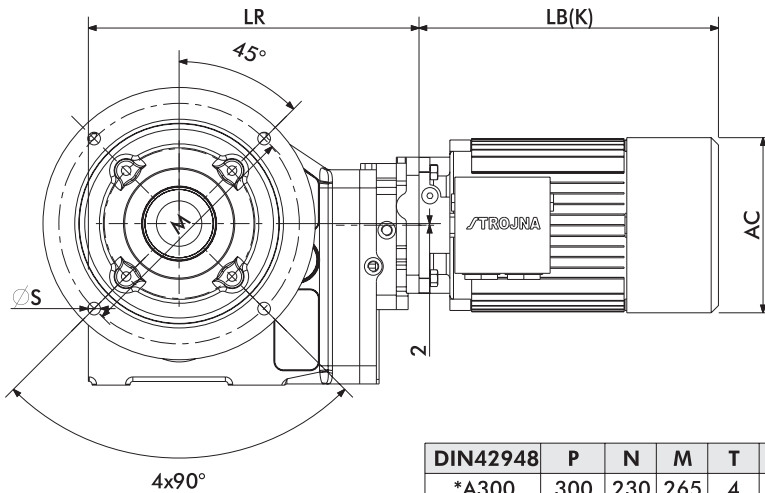


KG54Z...

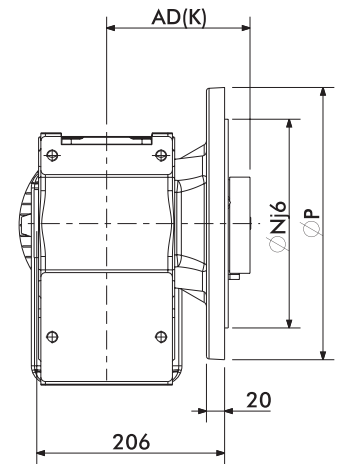


*Standard
**C Flange DIN42948

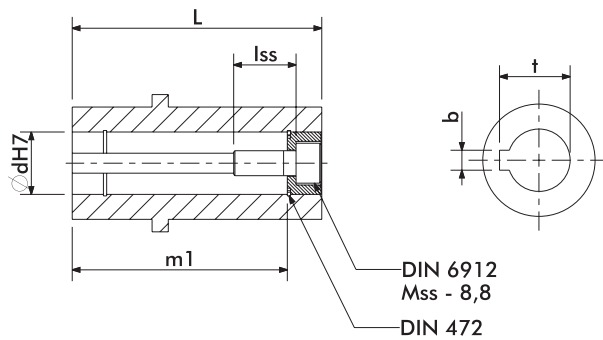
KG54P...SMB/SMR



DIN42948	P	N	M	T	B	S
*A300	300	230	265	4	52	14



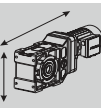
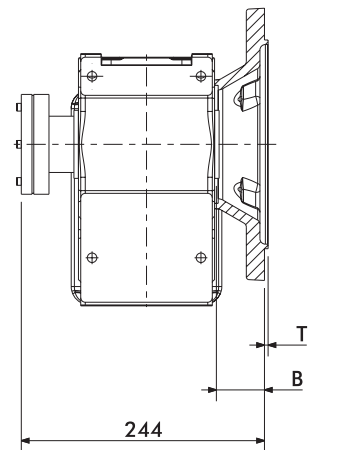
KG54PD...



DIN 6912
Mss - 8,8
DIN 472

d	L	m1	lss	Mss	t	b
*50	160	143	45	M16	53,8	14

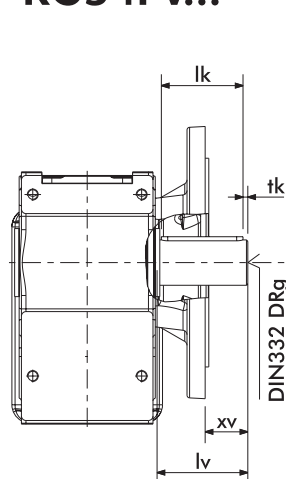
dv	tv	bv	lv	lk	tk	xv	g	lz
*50	53,5	14	100	80	10	47	M16	360



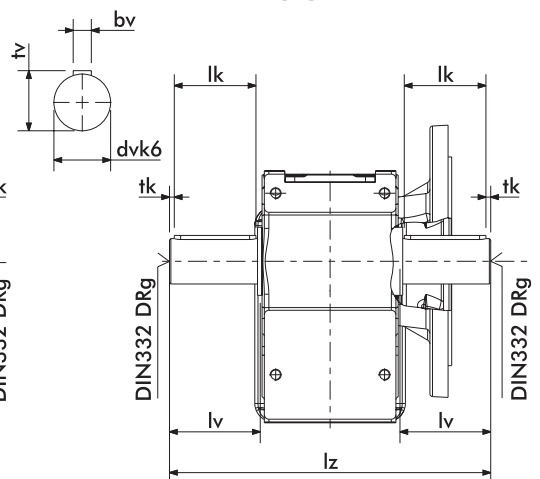
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	215	125	362
71	223	105	280	137	140	362
80	251	110	311	147	154	362
90S	276	121	360	164	170	363
90L	301	121	385	164	170	363
100	329	157	418	174	193	368
112M	334	169	434	199	216	368
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

*Standard

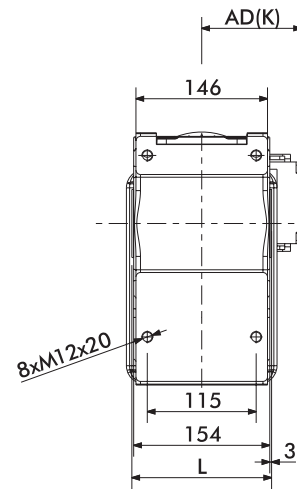
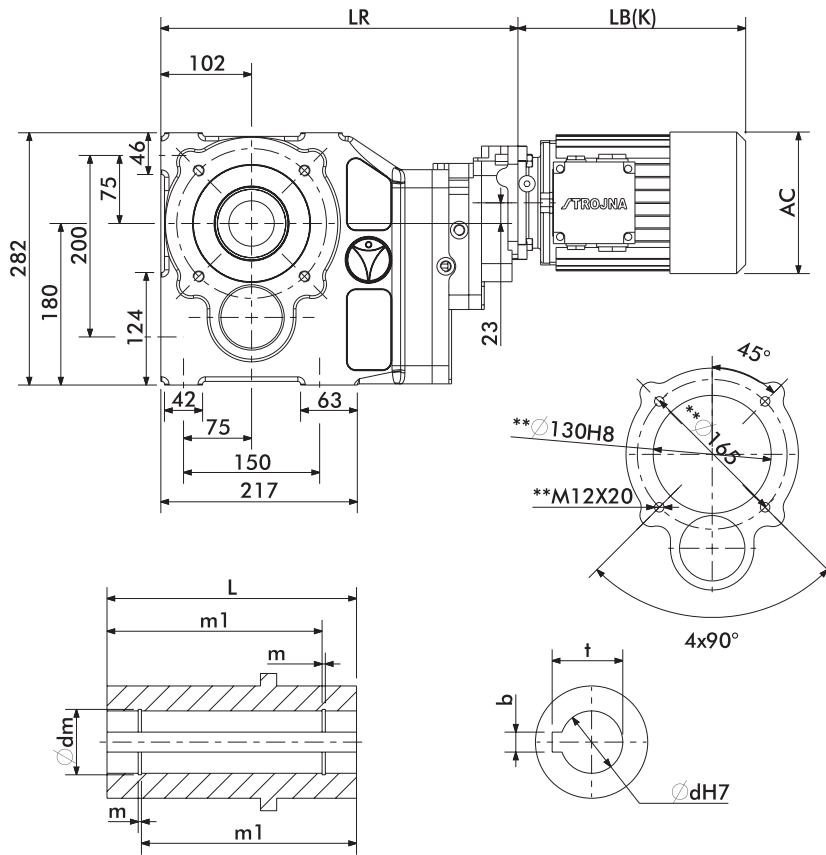
KG54PV...



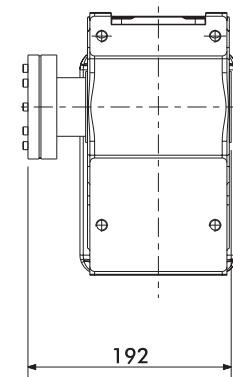
KG54PZ...



KG55...SMB/SMR



KG54D...

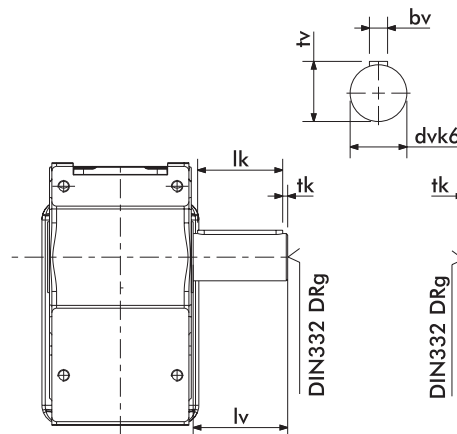


d	L	m1	dm	m	t	b
*50	160	143	53	2,15	53,8	14

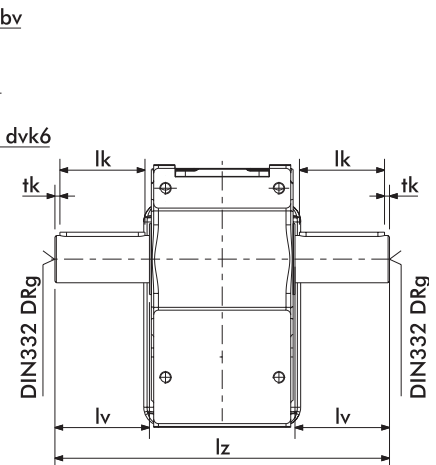
dv	tv	bv	lv	lk	tk	g	lz
*50	53,5	14	100	80	10	M16	360

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	395
71	223	105	280	137	140	395
80	251	110	311	147	154	395
90S	276	121	360	164	170	398
90L	301	121	385	164	170	398
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

KG55V...

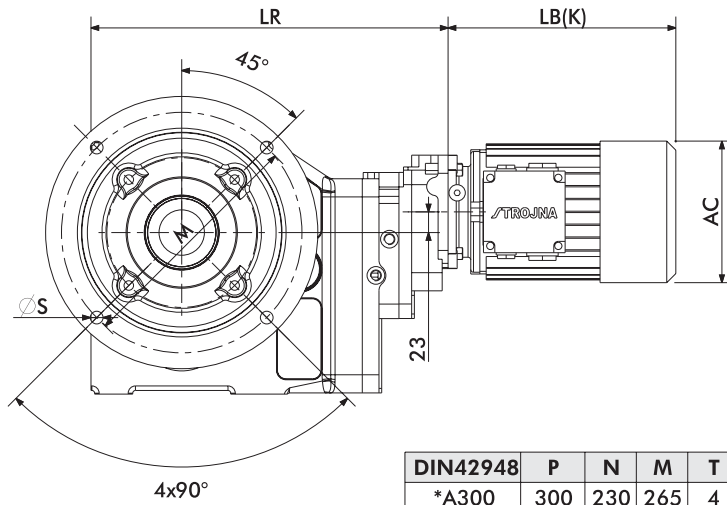


KG55Z...

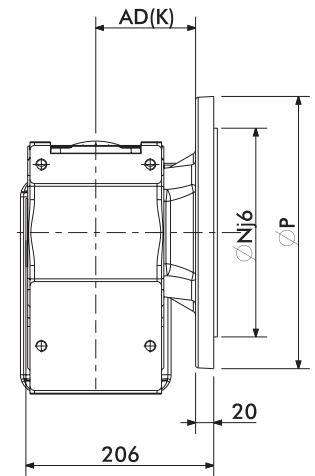


*Standard
**C Flange DIN42948

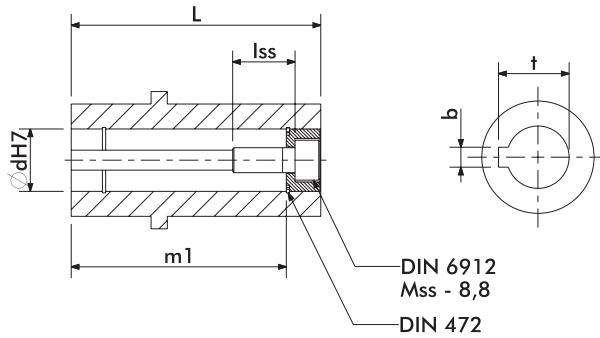
KG55P...SMB/SMR



DIN42948	P	N	M	T	B	S
*A300	300	230	265	4	52	14

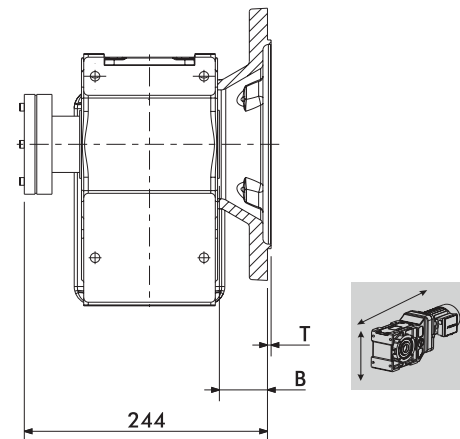


KG55PD...



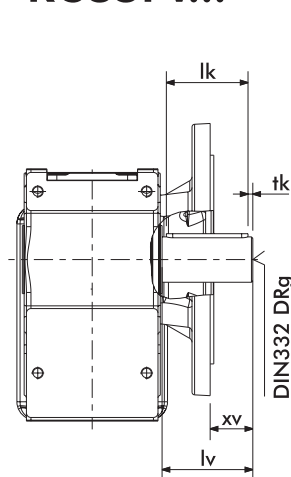
d	L	m1	lss	Mss	t	b
*50	154	143	45	M16	53,8	14

dv	tv	bv	lv	lk	tk	xv	g	lz
*50	53,5	14	100	80	10	47	M16	360

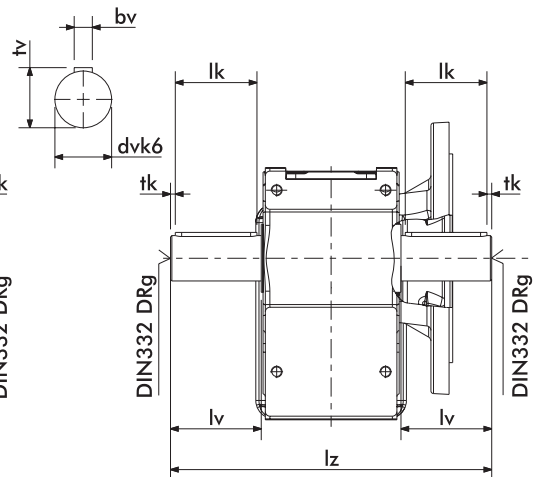


SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	395
71	223	105	280	137	140	395
80	251	110	311	147	154	395
90S	276	121	360	164	170	398
90L	301	121	385	164	170	398
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

KG55PV...

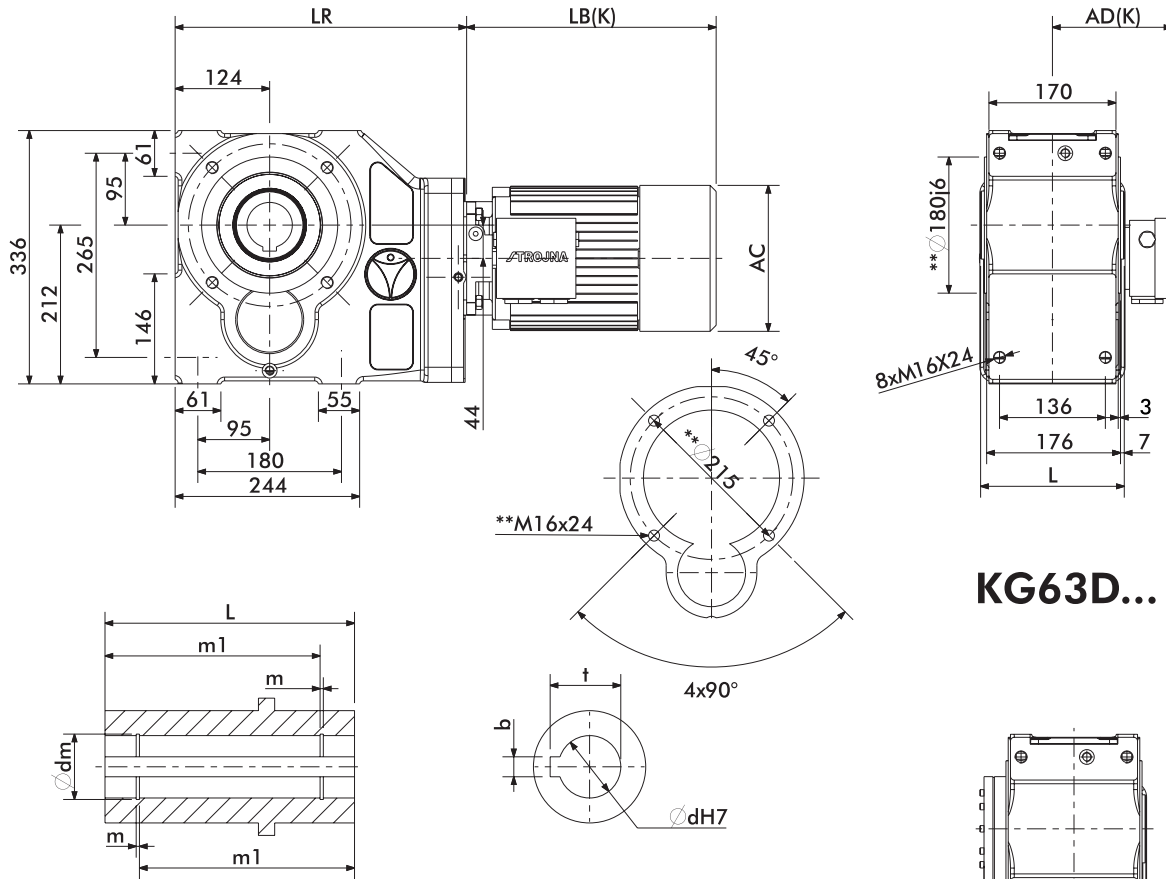


KG55PZ...

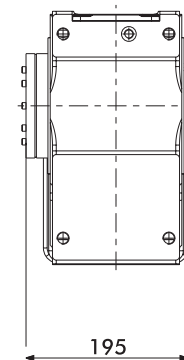


*Standard

KG63...SMB/SMR



KG63D...

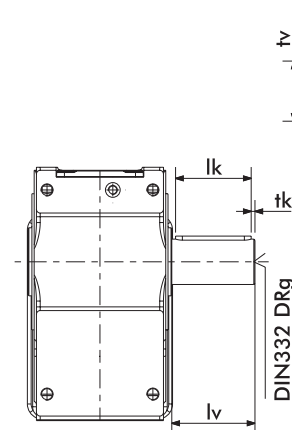


d	L	m1	dm	m	t	b
*60	190	167	63	2,15	64,4	18

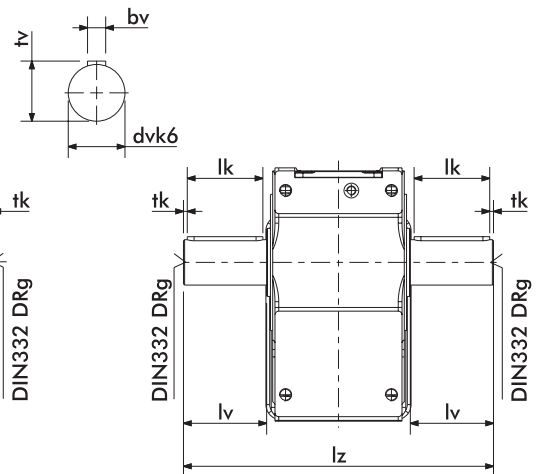
dv	tv	bv	lv	lk	tk	g	lz
*60	64	18	110	100	5	M20	410

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63						
71						
80						
90S						
90L						
100	329	157	418	174	193	386
112M	334	169	434	199	216	386
132S	377	190	492	183	247	400
132M	415	190	532	183	247	400
132Ma	415	190	532	183	247	400
160M	489	246	613	246	285	408
160L	533	246	657	246	285	408
180M	554	260	739	260	323	408
180L	592	260	777	260	323	408
200L						
225S						
225M						
250M						

KG63V...

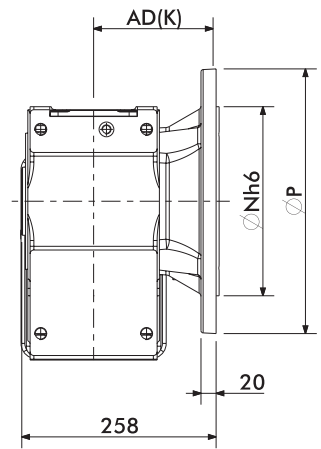
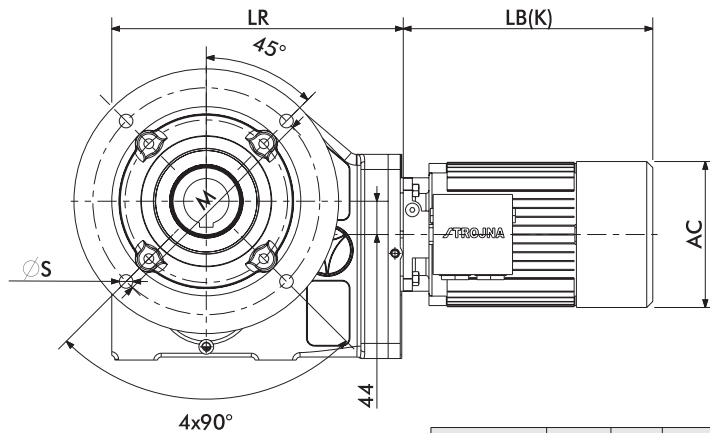


KG63Z...



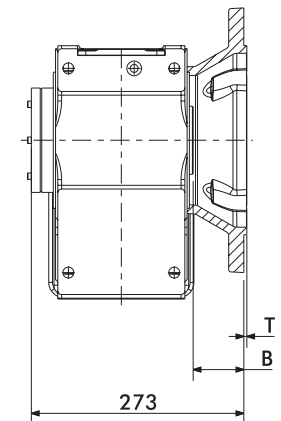
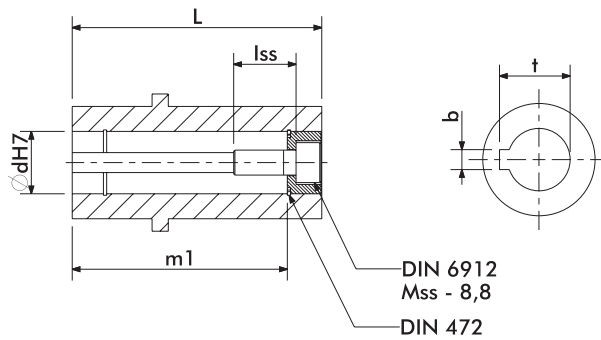
*Standard
**C Flange DIN42948

KG63P...SMB/SMR



DIN42948	P	N	M	T	B	S
*A350	350	250	300	4	68	18

KG63PD...



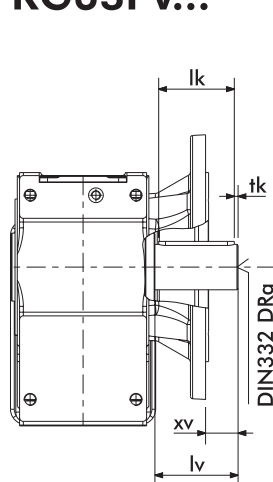
d	L	m1	lss	Mss	t	b
*60	190	167	50	M20	64,4	18

dv	tv	bv	lv	lk	tk	xv	g	lz
*60	64	18	110	100	5	40	M20	410

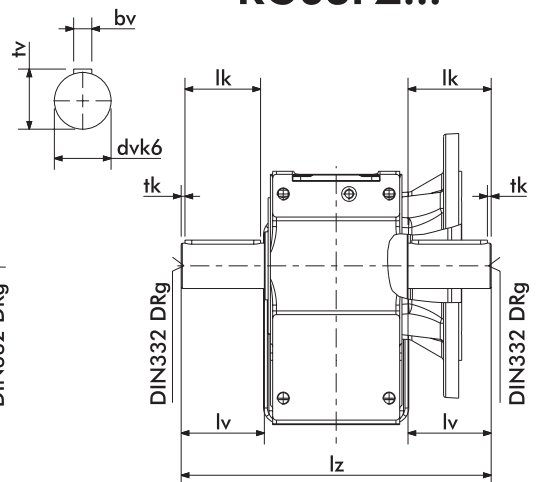
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63						
71						
80						
90S						
90L						
100	329	157	418	174	193	386
112M	334	169	434	199	216	386
132S	377	190	492	183	247	400
132M	415	190	532	183	247	400
132Ma	415	190	532	183	247	400
160M	489	246	613	246	285	408
160L	533	246	657	246	285	408
180M	554	260	739	260	323	408
180L	592	260	777	260	323	408
200L						
225S						
225M						
250M						

*Standard

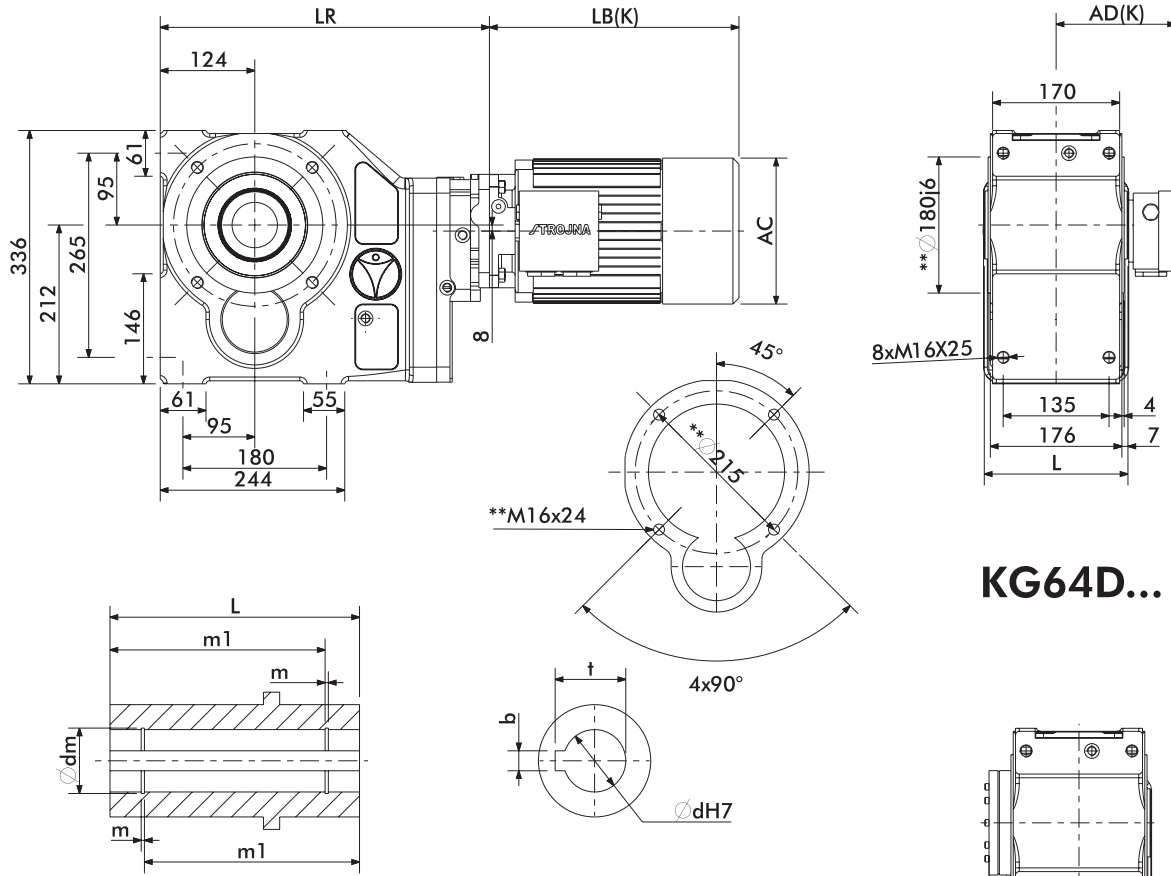
KG63PV...



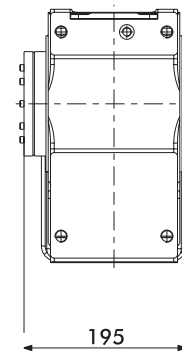
KG63PZ...



KG64...SMB/SMR



KG64D...

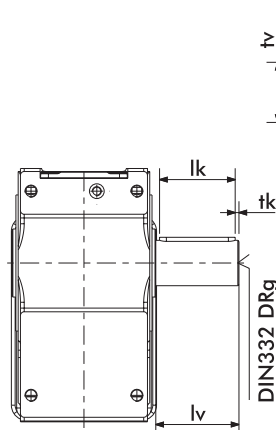


d	L	m1	dm	m	t	b
*60	190	167	63	2,15	64,4	18

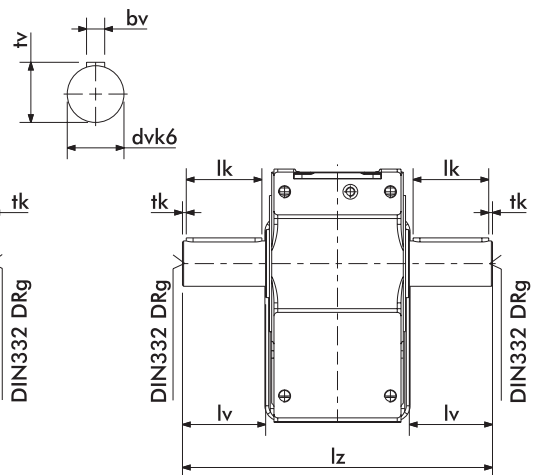
dv	tv	bv	lv	lk	tk	g	lz
*60	64	18	110	100	5	M20	410

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	428
71	223	105	280	137	140	428
80	251	110	311	147	154	428
90S	276	121	360	164	170	430
90L	301	121	385	164	170	430
100	329	157	418	174	193	434
112M	334	169	434	199	216	434
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

KG64V...

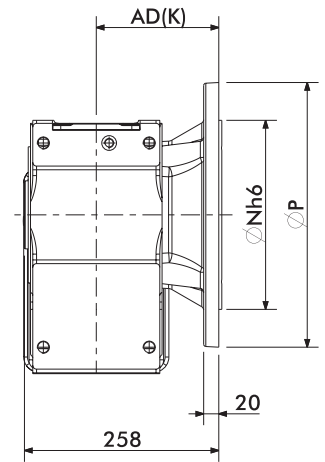
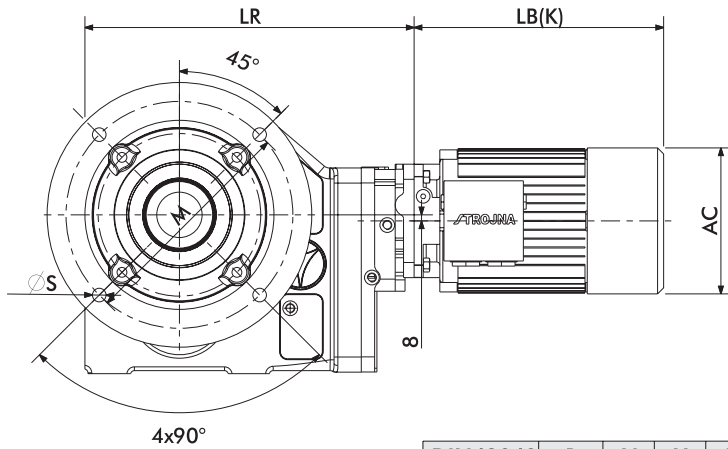


KG64Z...



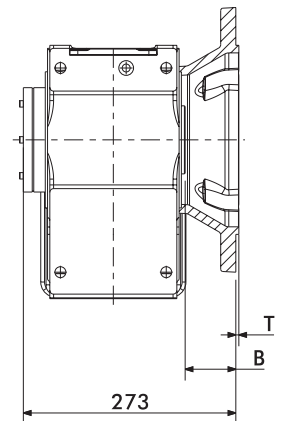
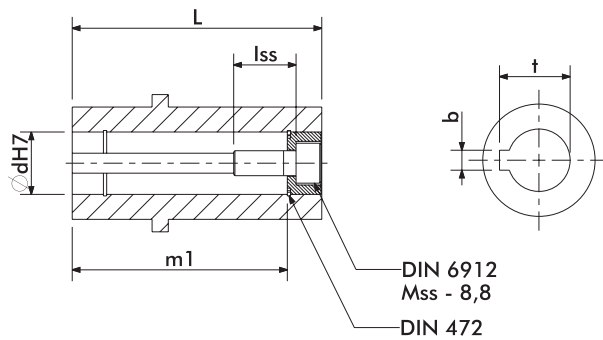
*Standard
**C Flange DIN 42948

KG64P...SMB/SMR



DIN42948	P	N	M	T	B	S
*A350	350	250	300	4	68	18

KG64PD...

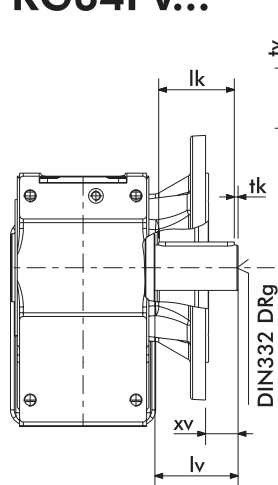


d	L	m1	lss	Mss	t	b
*60	190	167	50	M20	64,4	18

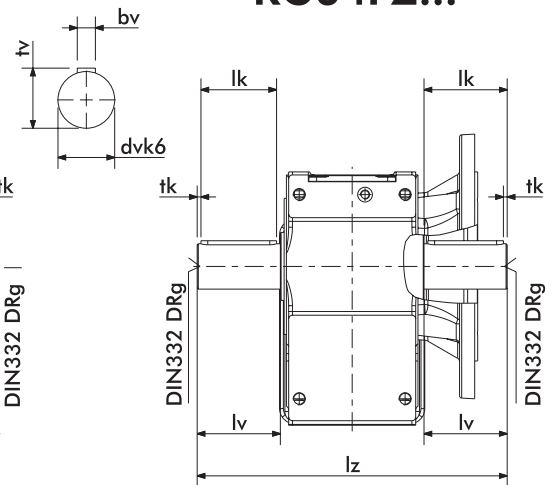
dv	tv	bv	lv	lk	tk	xv	g	lz
*60	64	18	110	100	5	40	M20	410

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	428
71	223	105	280	137	140	428
80	251	110	311	147	154	428
90S	276	121	360	164	170	430
90L	301	121	385	164	170	430
100	329	157	418	174	193	434
112M	334	169	434	199	216	434
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

KG64PV...

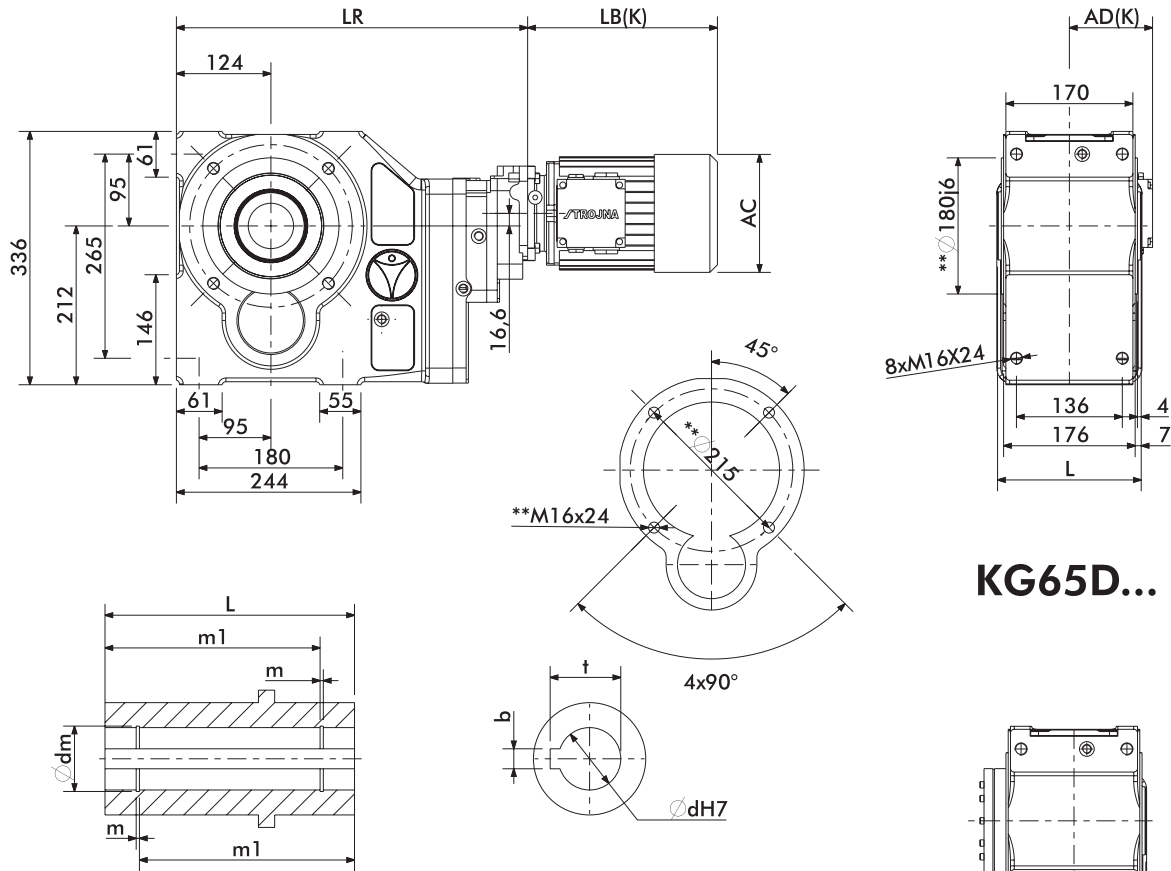


KG64PZ...

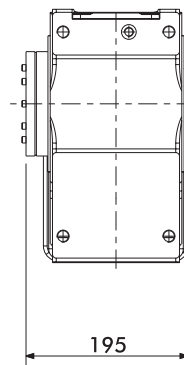


*Standard

KG65...SMB/SMR



KG65D...

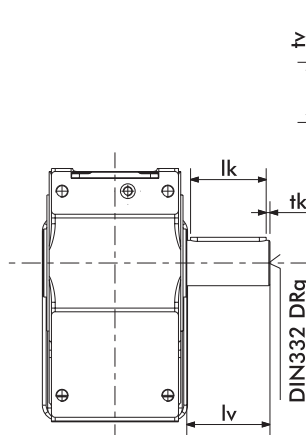


d	L	m1	dm	m	t	b
*60	190	167	63	2,15	64,4	18

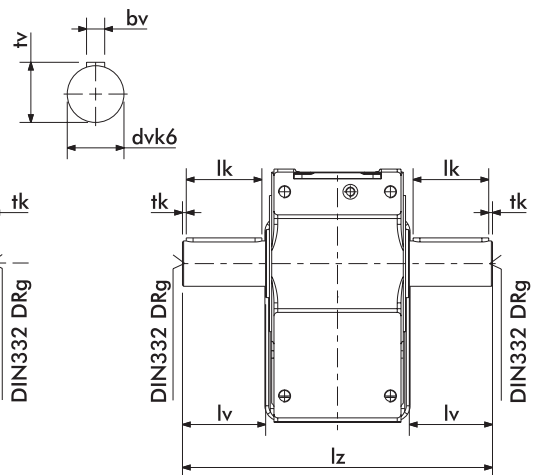
dv	tv	bv	lv	lk	tk	g	lz
*60	64	18	110	100	5	M20	410

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	462
71	223	105	280	137	140	462
80	251	110	311	147	154	462
90S	276	121	360	164	170	463
90L	301	121	385	164	170	463
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

KG65V...

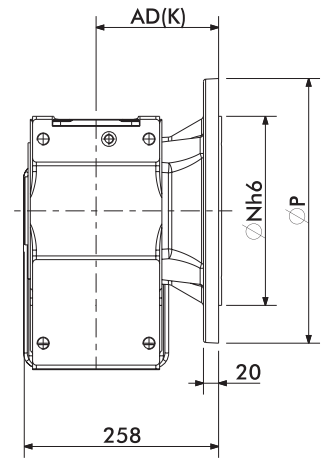
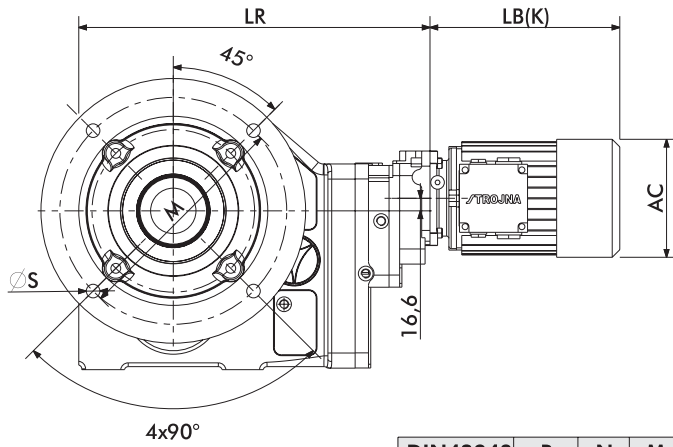


KG65Z...



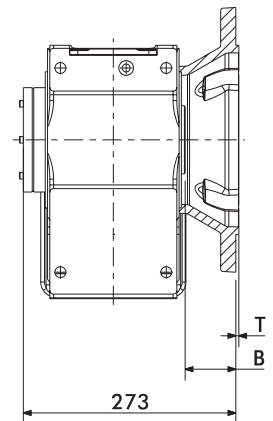
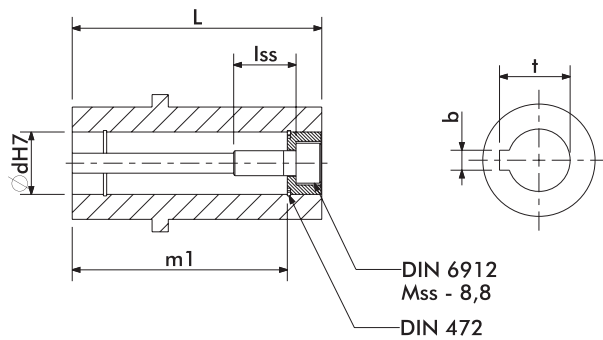
*Standard
**C Flange DIN42948

KG65P...SMB/SMR



DIN42948	P	N	M	T	B	S
*A350	350	280	300	4	68	18

KG65PD...

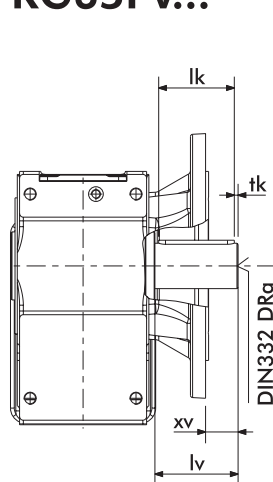


d	L	m1	lss	Mss	t	b
*60	190	167	50	M20	64,4	18

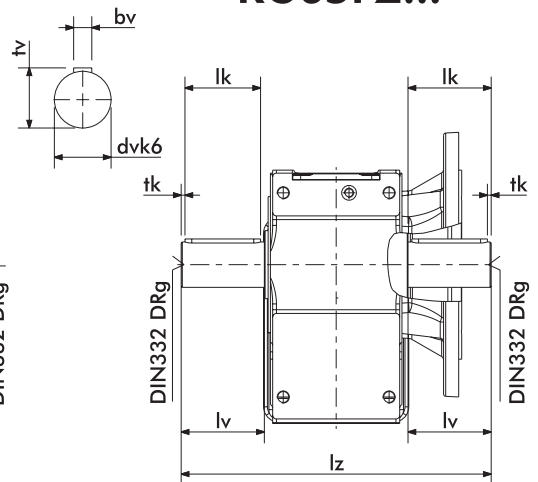
dv	tv	bv	lv	lk	tk	xv	g	lz
*60	64	18	110	100	5	40	M20	410

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	462
71	223	105	280	137	140	462
80	251	110	311	147	154	462
90S	276	121	360	164	170	463
90L	301	121	385	164	170	463
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

KG65PV...

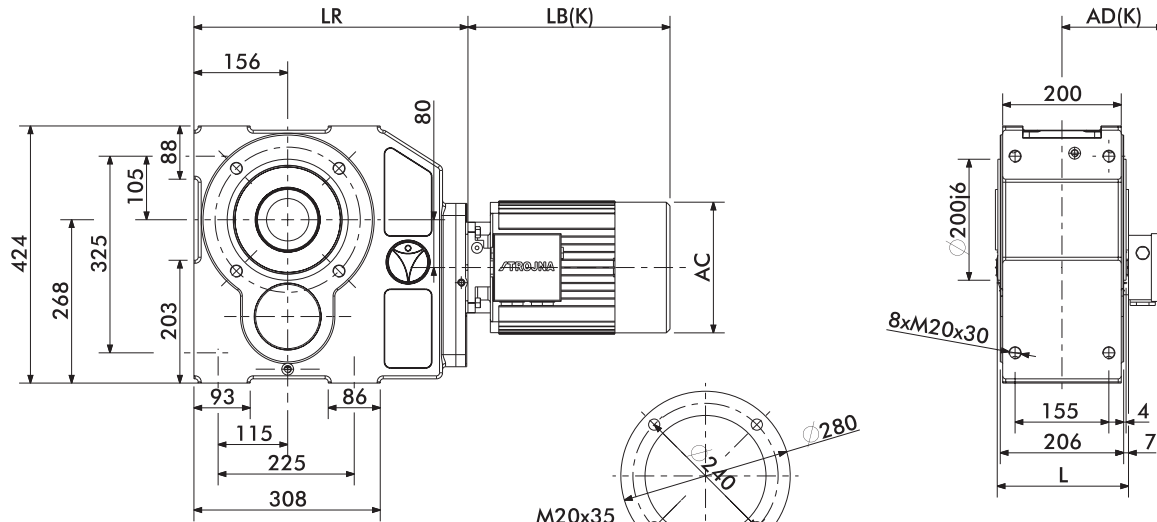


KG65PZ...

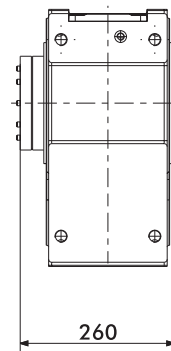


* Standard

KG73...SMB/SMR



KG73D...



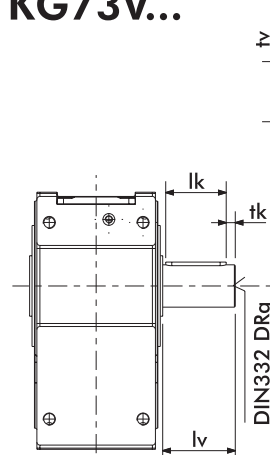
d	L	m1	dm	m	t	b
*70	220	198	73	2,65	74,9	20

dv	tv	bv	lv	lk	tk	g	lz
*70	74,5	20	120	100	10	M20	560

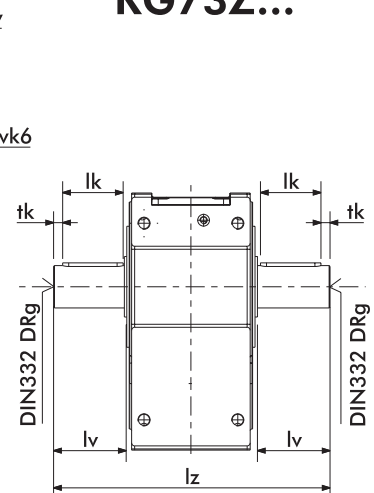
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63						
71						
80						
90S						
90L						
100	329	157	418	174	193	453
112M	334	169	434	199	216	453
132S	377	190	492	183	247	466
132M	415	190	532	183	247	466
132Ma	415	190	532	183	247	466
160M	489	246	613	246	285	475
160L	533	246	657	246	285	475
180M	554	260	739	260	323	475
180L	592	260	777	260	323	475
200L						
225S						
225M						
250M						

*Standard

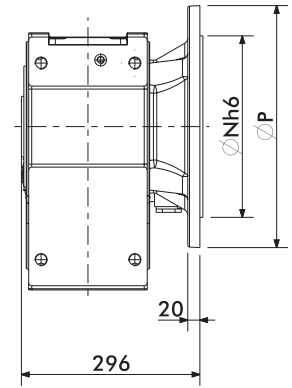
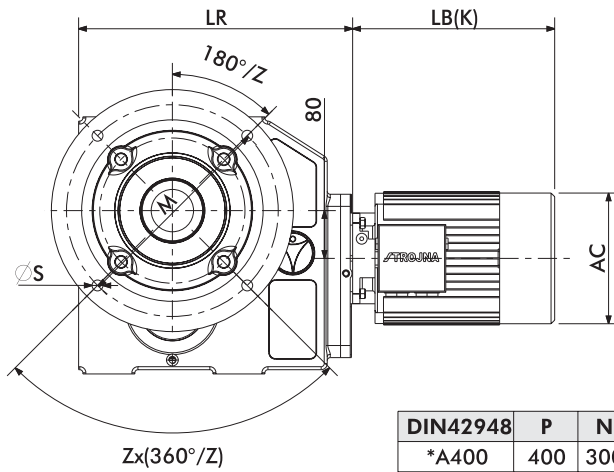
KG73V...



KG73Z...

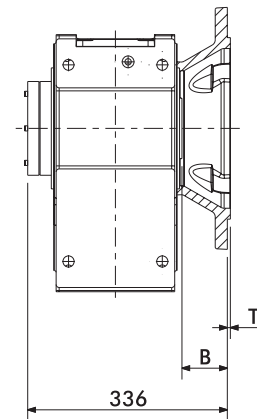
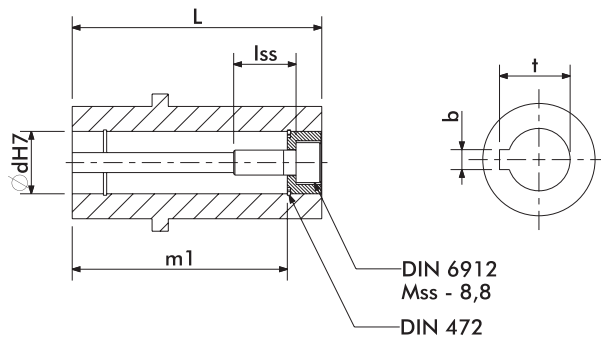


KG73P...SMB/SMR



DIN42948	P	N	M	T	B	Z	S
*A400	400	300	350	5	76	4	18
A450	450	350	400	5	76	8	18

KG73PD...



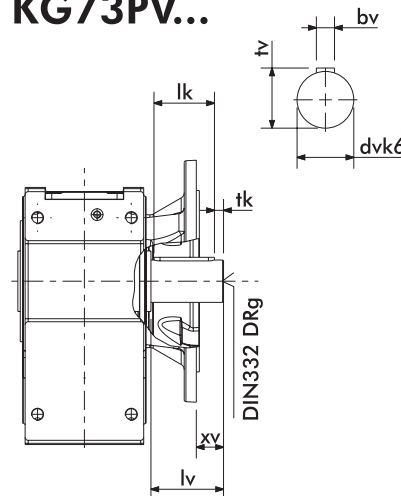
d	L	m1	lss	Mss	t	b
*70	220	198	55	M20	74,9	20

dv	tv	bv	lv	lk	tk	xv	g	lz
*70	74,5	20	120	100	10	42	M20	560

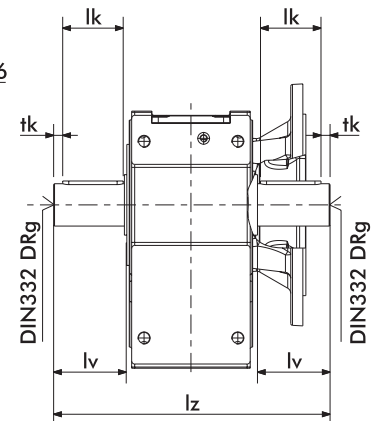
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63						
71						
80						
90S						
90L						
100	329	157	418	174	193	453
112M	334	169	434	199	216	453
132S	377	190	492	183	247	466
132M	415	190	532	183	247	466
132Ma	415	190	532	183	247	466
160M	489	246	613	246	285	475
160L	533	246	657	246	285	475
180M	554	260	739	260	323	475
180L	592	260	777	260	323	475
200L						
225S						
225M						
250M						

* Standard

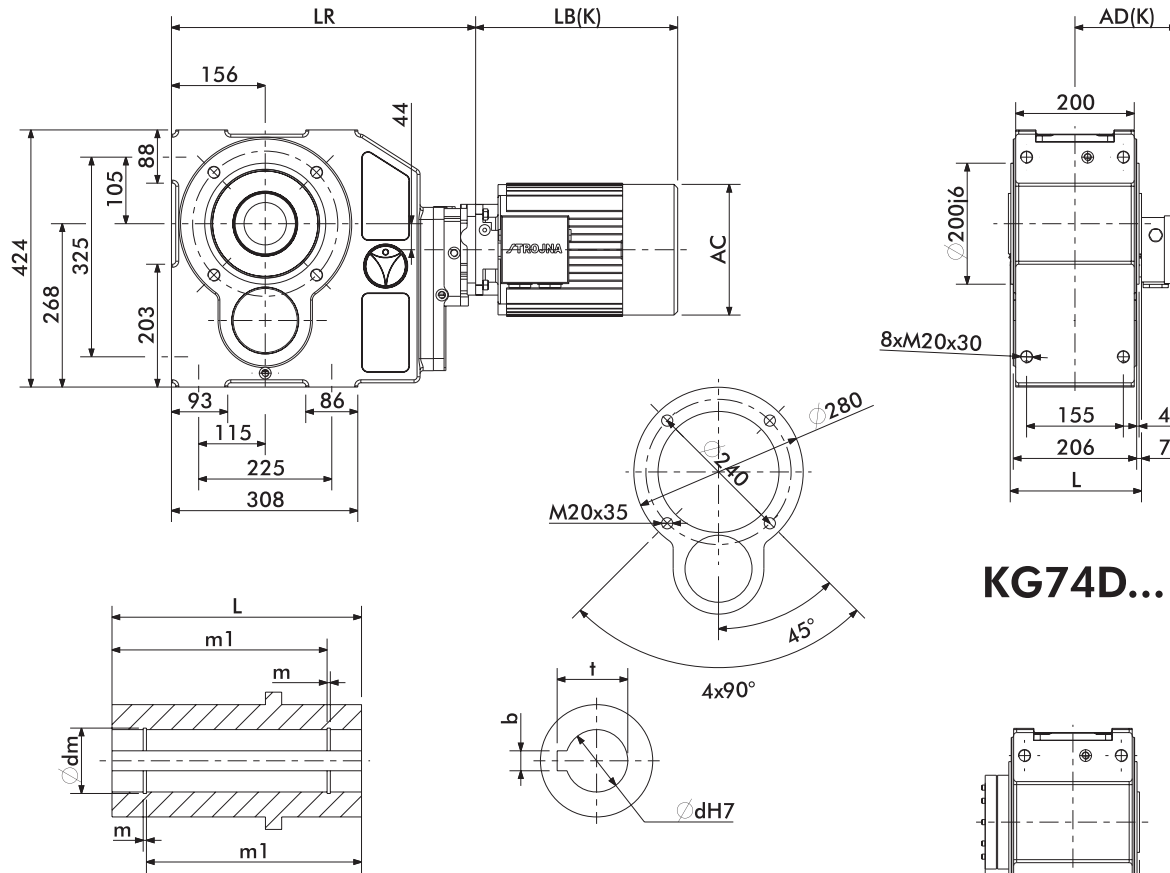
KG73PV...



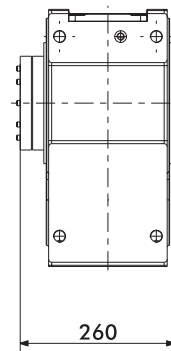
KG73PZ...



KG74...SMB/SMR



KG74D...

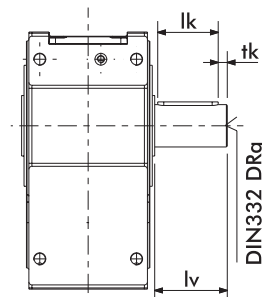
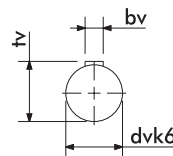


d	L	m1	dm	m	t	b
*70	220	198	73	2,65	74,9	20

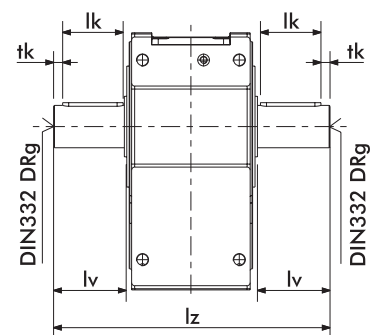
dv	tv	bv	lv	lk	tk	g	lz
*70	74,5	20	120	100	10	M20	560

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	498
71	223	105	280	137	140	498
80	251	110	311	147	154	498
90S	276	121	360	164	170	500
90L	301	121	385	164	170	500
100	329	157	418	174	193	506
112M	334	169	434	199	216	506
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

KG74V...

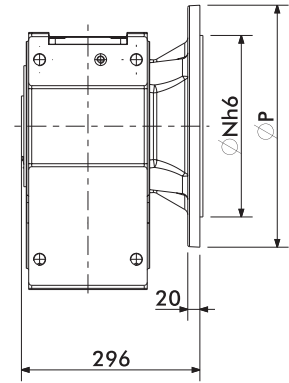
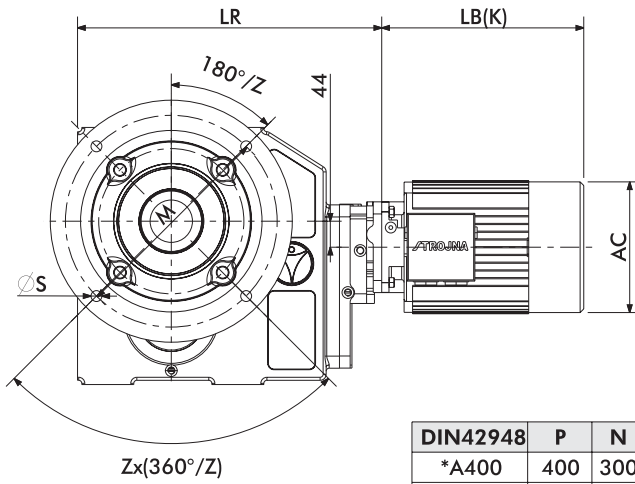


KG74Z...



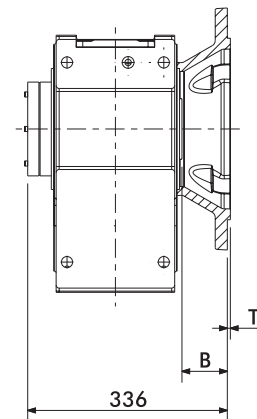
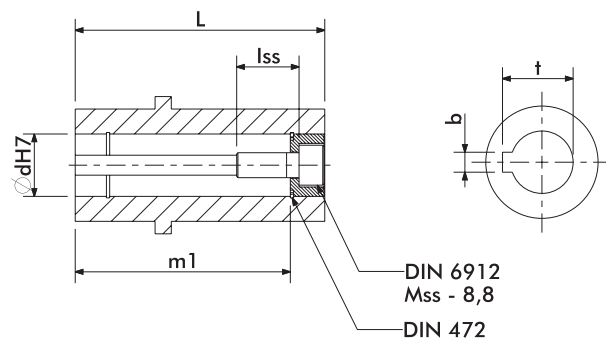
*Standard

KG74P..SMB/SMR



DIN42948	P	N	M	T	B	Z	S
*A400	400	300	350	5	75	4	18
A450	450	350	400	5	75	8	18

KG74PD...

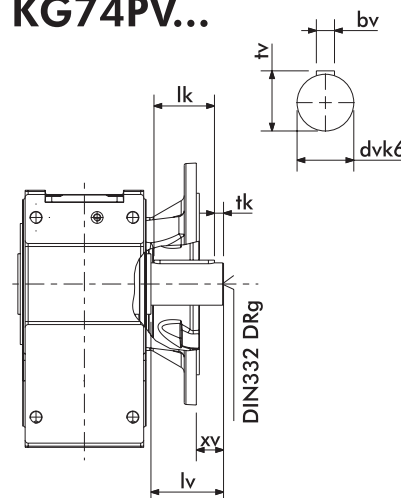


d	L	m1	lss	Mss	t	b
*70	220	198	55	M20	74,9	20

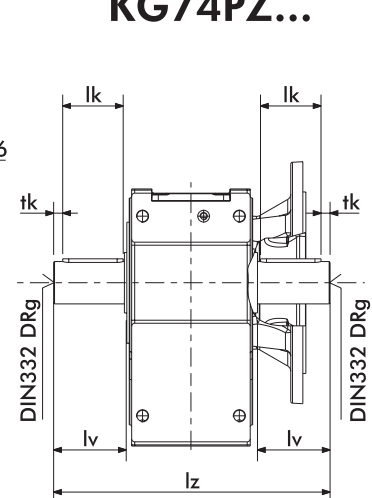
dv	tv	bv	lv	lk	tk	xv	g	lz
*70	74,5	20	120	100	10	42	M20	560

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	498
71	223	105	280	137	140	498
80	251	110	311	147	154	498
90S	276	121	360	164	170	500
90L	301	121	385	164	170	500
100	329	157	418	174	193	506
112M	334	169	434	199	216	506
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

KG74PV...

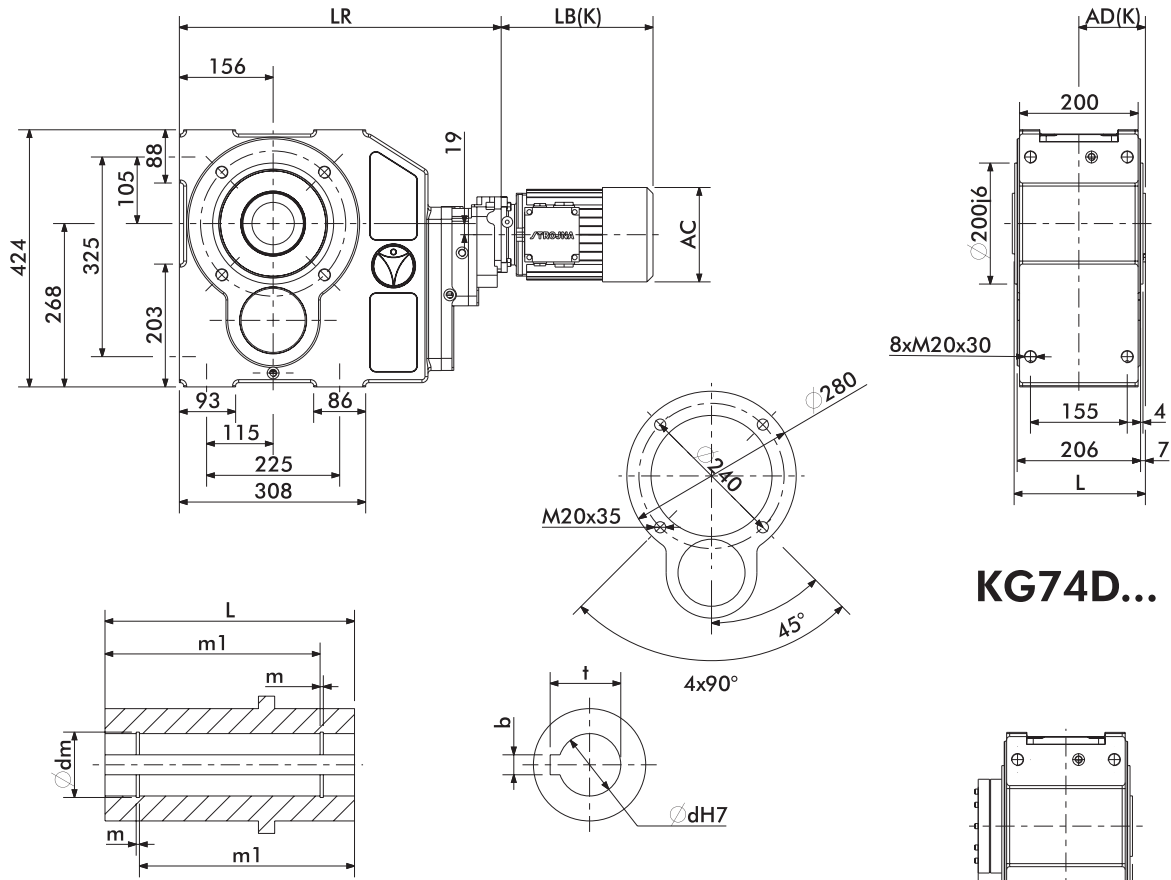


KG74PZ...

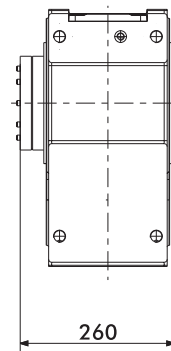


*Standard

KG75...SMB/SMR



KG74D...



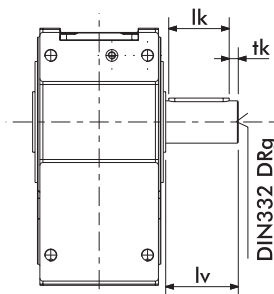
d	L	m1	dm	m	t	b
*70	220	198	73	2,65	74,9	20

dv	tv	bv	lv	lk	tk	g	lz
*70	74,5	20	120	100	10	M20	560

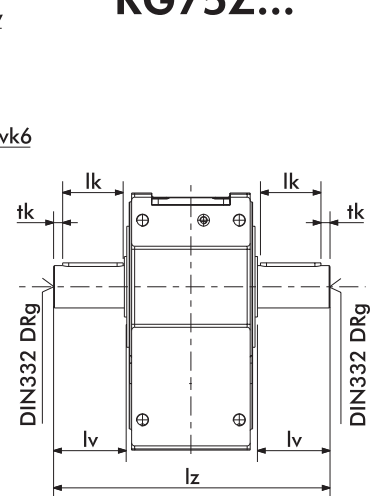
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	531
71	223	105	280	137	140	531
80	251	110	311	147	154	531
90S	276	121	360	164	170	532
90L	301	121	385	164	170	532
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

*Standard

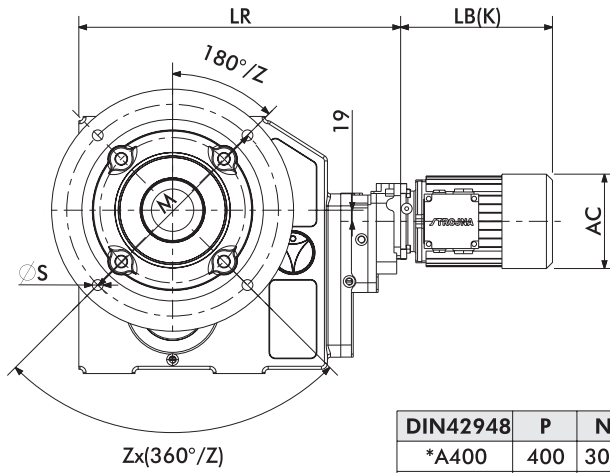
KG75V...



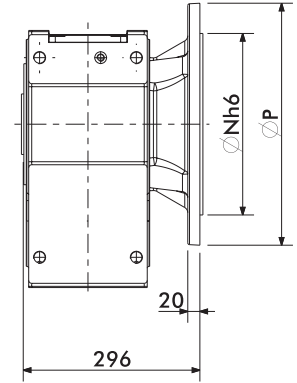
KG75Z...



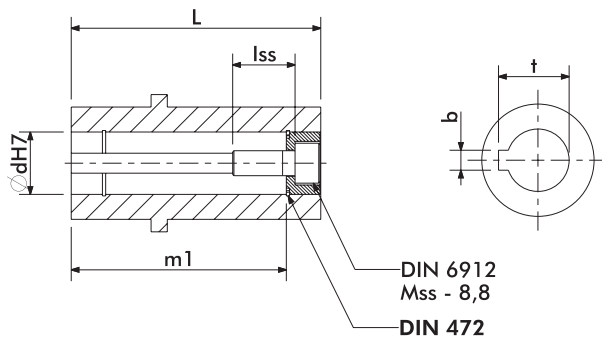
KG75P..SMB/SMR



DIN42948	P	N	M	T	B	Z	S
*A400	400	300	350	5	76	4	18
A450	450	350	400	5	76	8	18

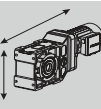
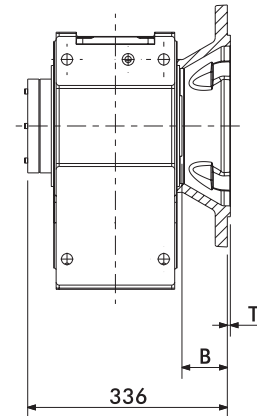


KG75PD...



d	L	m1	lss	Mss	t	b
*70	220	192,5	55	M20	74,9	20

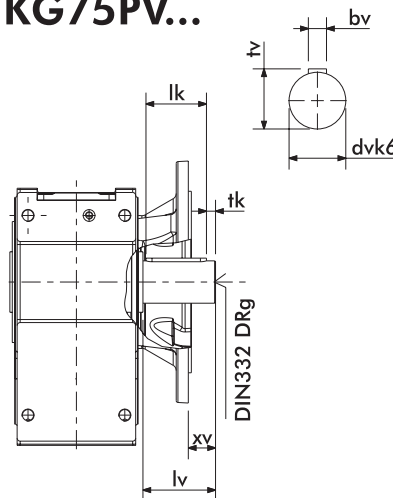
dv	tv	bv	lv	lk	tk	xv	g	lz
*70	74,5	20	120	100	10	42	M20	560



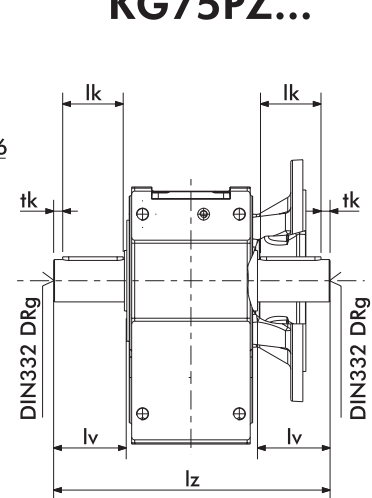
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	531
71	223	105	280	137	140	531
80	251	110	311	147	154	531
90S	276	121	360	164	170	532
90L	301	121	385	164	170	532
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

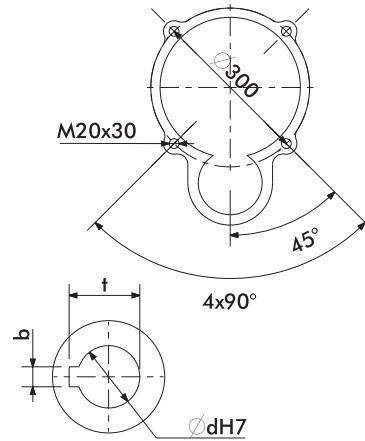
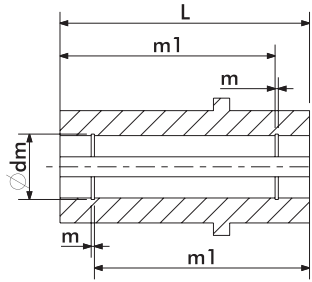
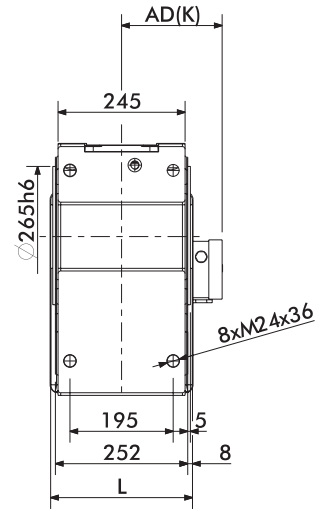
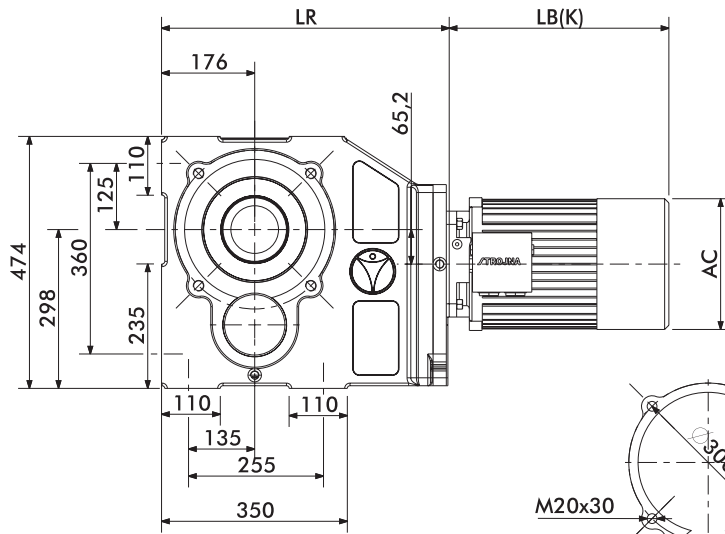
KG75PV...



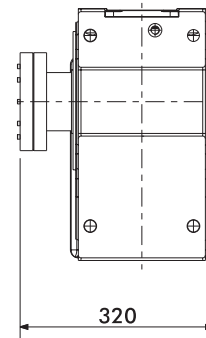
KG75PZ...



KG83...SMB/SMR



KG83D...



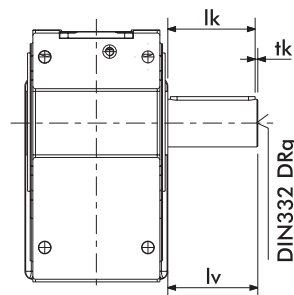
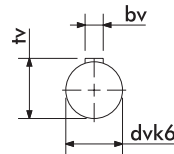
d	L	m1	dm	m	t	b
80	268	247	83,5	2,65	85,6	22
*90	268	247	93,5	3,15	95,4	25

dv	tv	bv	lv	lk	tk	g	lz
*90	95	25	170	160	5	M24	608

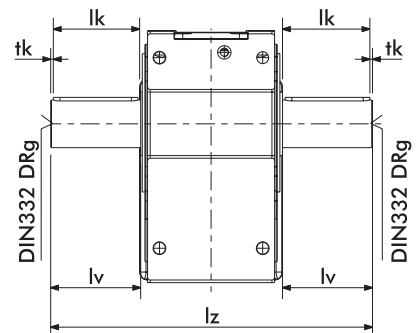
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63						
71						
80						
90S						
90L						
100						
112M						
132S	377	190	492	183	247	544
132M	415	190	532	183	247	544
132Ma	415	190	532	183	247	544
160M	489	246	611	246	285	553
160L	533	246	655	246	285	553
180M	554	260	739	260	323	553
180L	592	260	777	260	323	553
200L	658	299	828	299	369	567
225S						
225M						
250M						

*Standard

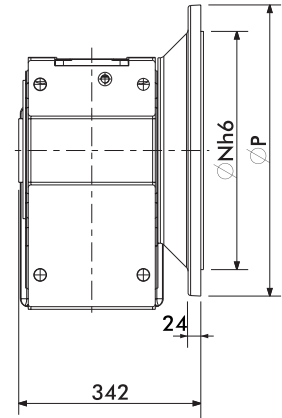
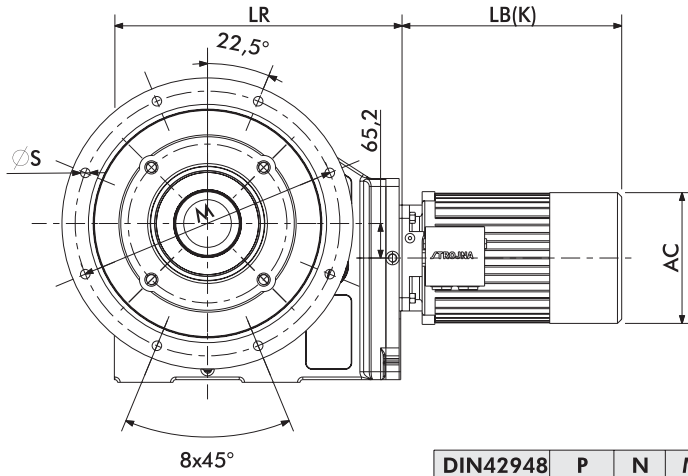
KG83V...



KG83Z...

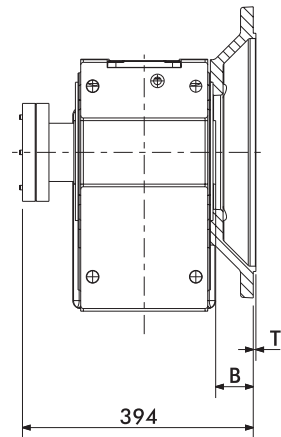
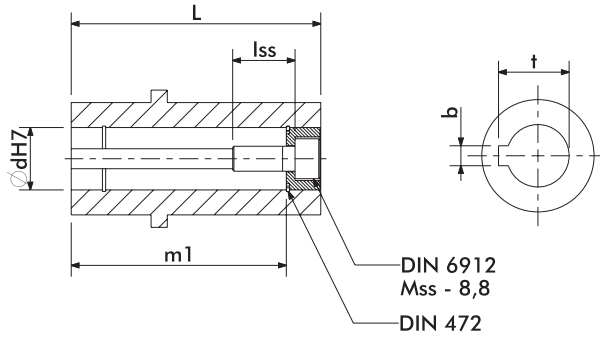


KG83P...SMB/SMR



DIN42948	P	N	M	T	B	S
*A550	550	450	500	5	74	18

KG83PD...



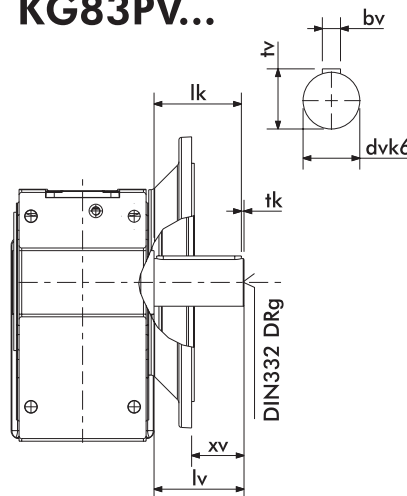
d	L	m1	lss	Mss	t	b
80	268	247	55	M20	85,6	22
*90	268	247	50	M24	95,4	25

dv	tv	bv	lv	lk	tk	xv	g	lz
*90	95	25	170	160	5	94	M24	608

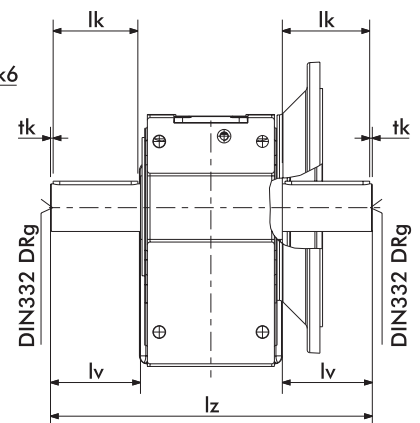
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63						
71						
80						
90S						
90L						
100						
112M						
132S	377	190	492	183	247	544
132M	415	190	532	183	247	544
132Ma	415	190	532	183	247	544
160M	489	246	611	246	285	553
160L	533	246	655	246	285	553
180M	554	260	739	260	323	553
180L	592	260	777	260	323	553
200L	658	299	828	299	369	567
225S						
225M						
250M						

* Standard

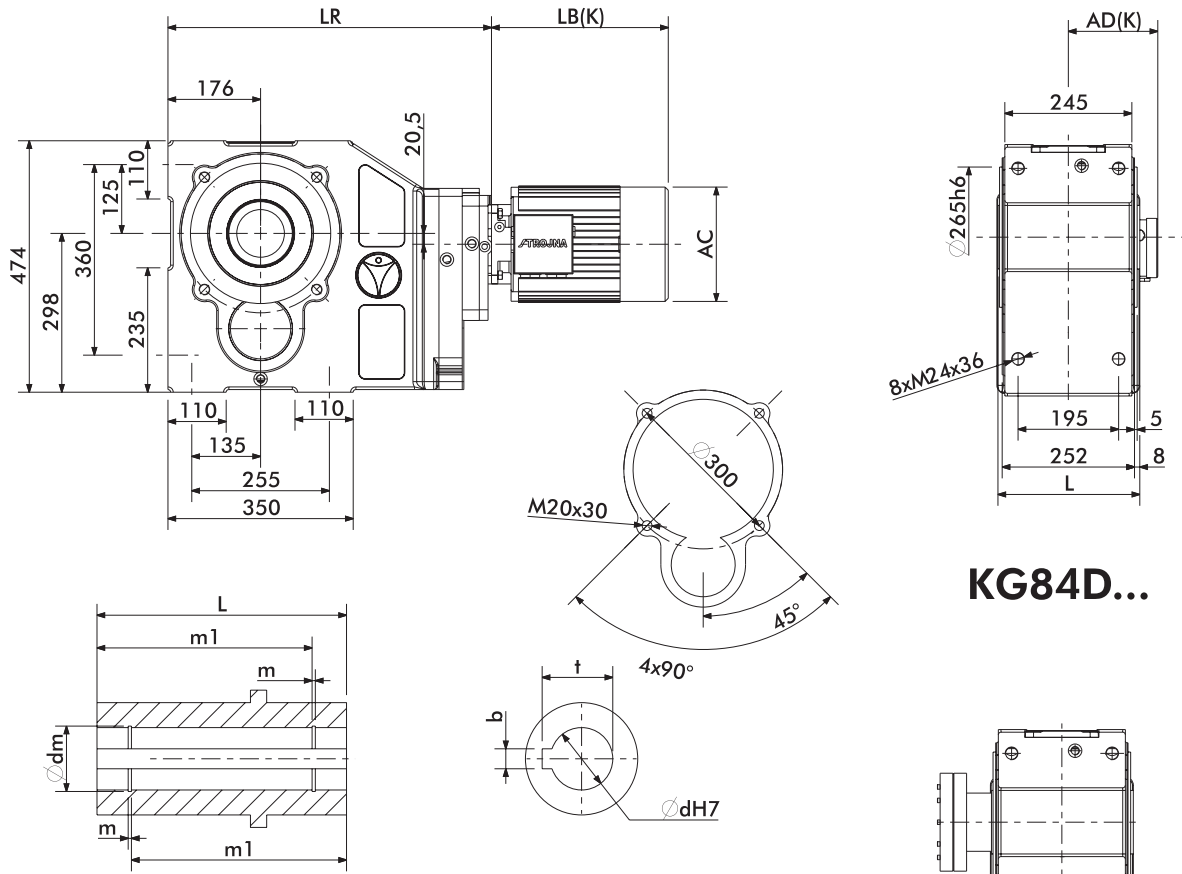
KG83PV...



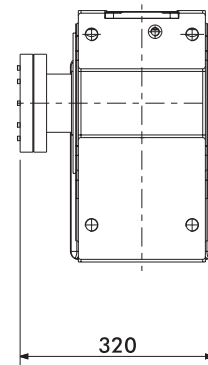
KG83PZ...



KG84...SMB/SMR



KG84D...



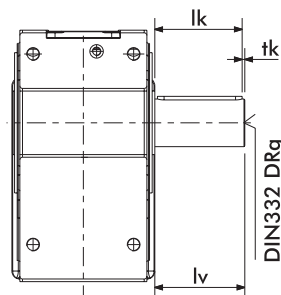
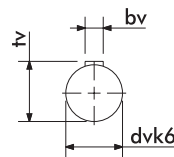
d	L	m1	dm	m	t	b
80	268	247	83,5	2,65	85,6	22
*90	268	236,5	93,5	3,15	95,4	25

dv	tv	bv	lv	lk	tk	g	lz
*90	95	25	170	160	5	M24	608

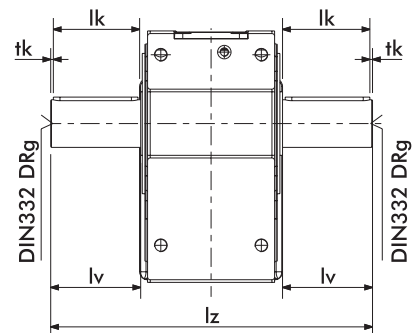
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	607
71	223	105	280	137	140	607
80	251	110	311	147	154	607
90S	276	121	360	164	170	608
90L	301	121	385	164	170	608
100	329	157	418	174	193	612
112M	334	169	434	199	216	612
132S	377	190	492	183	247	623
132M	415	190	532	183	247	623
132Ma	415	190	532	183	247	623
160M	489	246	611	246	285	628
160L	533	246	655	246	285	628
180M	554	260	739	260	323	628
180L	592	260	777	260	323	628
200L						
225S						
225M						
250M						

*Standard

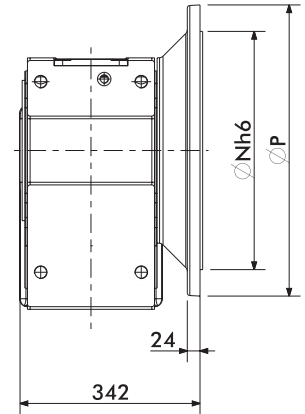
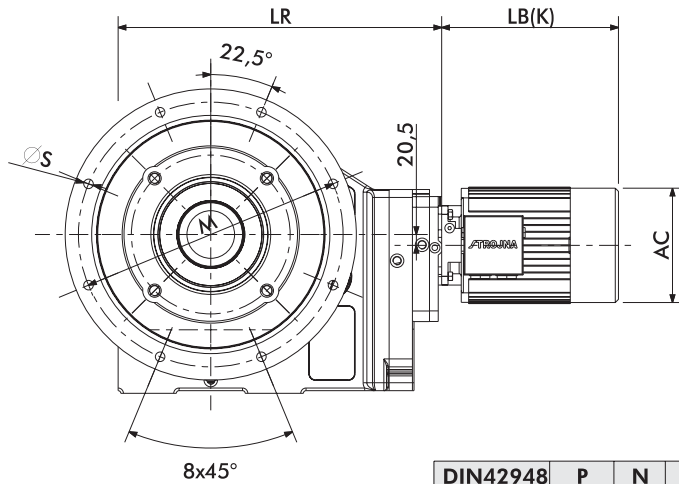
KG84V...



KG84Z...

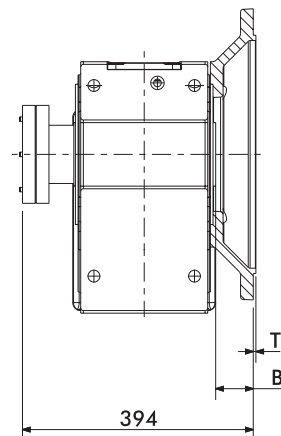
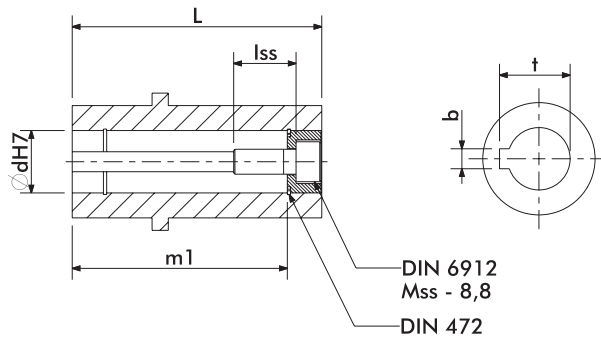


KG84P..SMB/SMR



DIN42948	P	N	M	T	B	S
*A550	550	450	500	5	74	18

KG84PD...



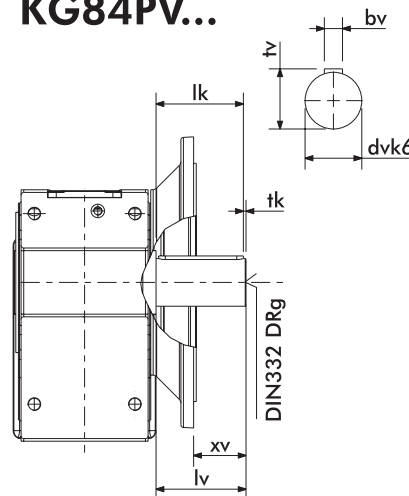
d	L	m1	lss	Mss	t	b
80	268	247	55	M20	85,6	22
*90	268	247	50	M24	95,4	25

dv	tv	bv	lv	lk	tk	xv	g	lz
*90	95	25	170	160	5	94	M24	608

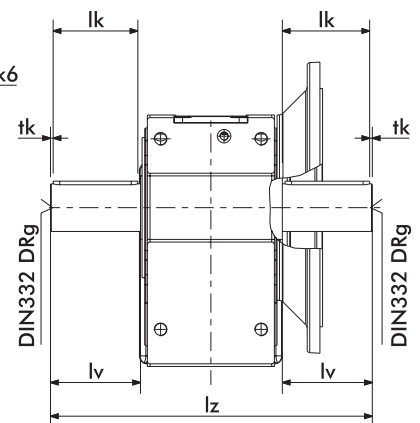
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	607
71	223	105	280	137	140	607
80	251	110	311	147	154	607
90S	276	121	360	164	170	608
90L	301	121	385	164	170	608
100	329	157	418	174	193	612
112M	334	169	434	199	216	612
132S	377	190	492	183	247	623
132M	415	190	532	183	247	623
132Ma	415	190	532	183	247	623
160M	489	246	611	246	285	628
160L	533	246	655	246	285	628
180M	554	260	739	260	323	628
180L	592	260	777	260	323	628
200L						
225S						
225M						
250M						

* Standard

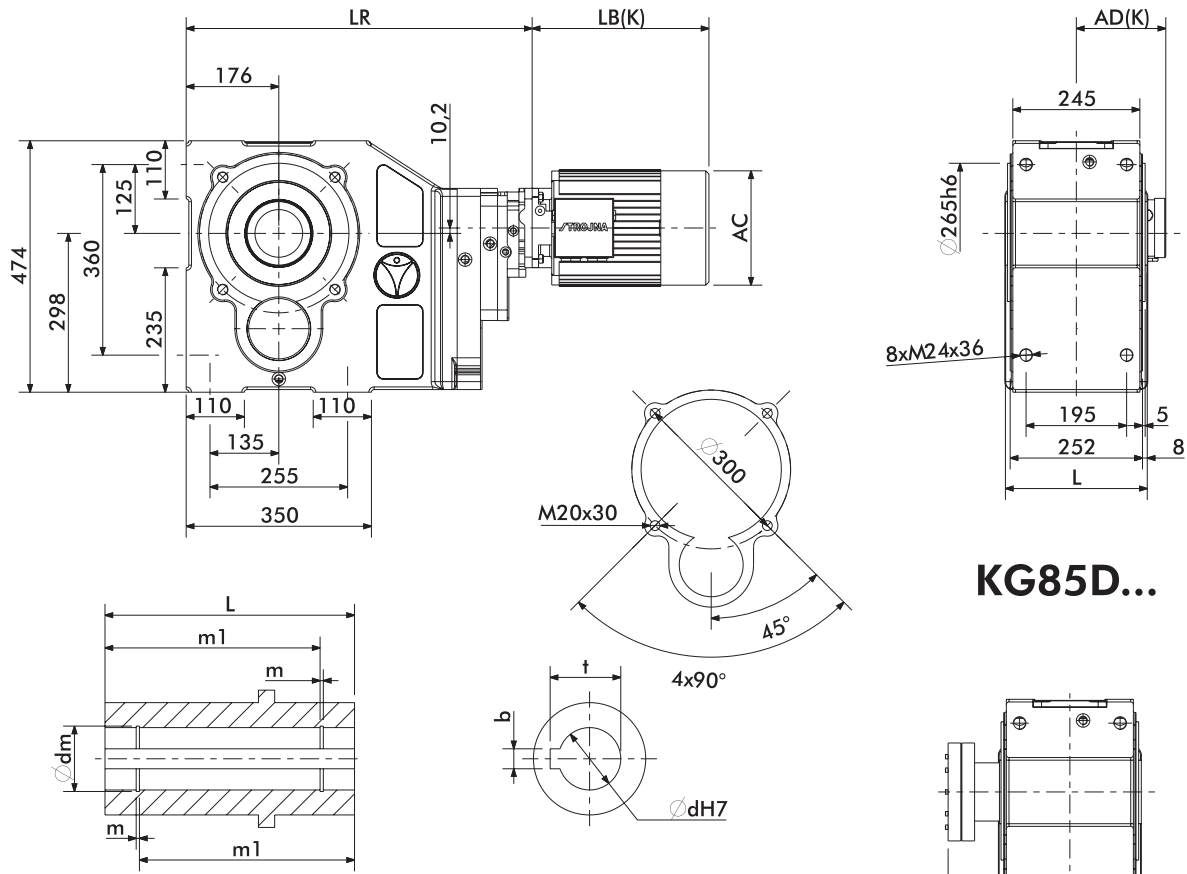
KG84PV...



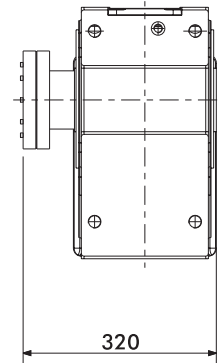
KG84PZ...



KG85...SMB/SMR



KG85D...

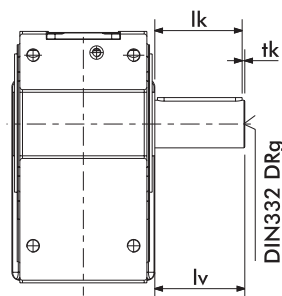
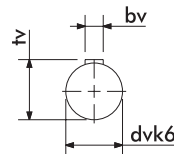


d	L	m1	dm	m	t	b
80	268	247	83,5	2,65	85,6	22
*90	268	247	93,5	3,15	95,4	25

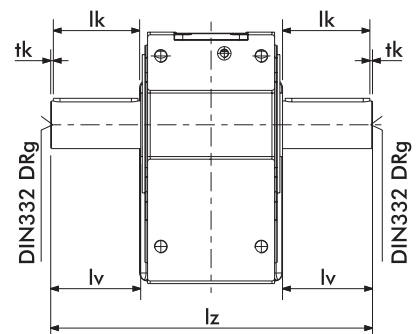
dv	tv	bv	lv	lk	tk	g	lz
*90	95	25	170	160	5	M24	608

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	648
71	223	105	280	137	140	648
80	251	110	311	147	154	648
90S	276	121	360	164	170	651
90L	301	121	385	164	170	651
100	329	157	418	174	193	656
112M	334	169	434	199	216	656
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

KG85V...

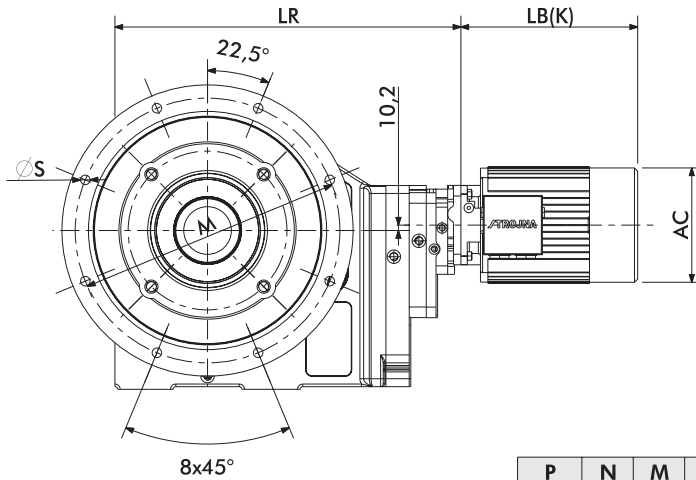


KG85Z...

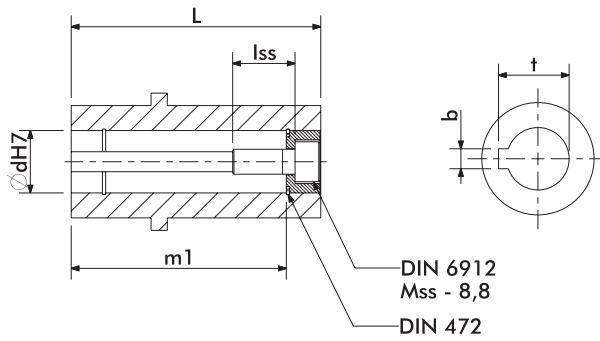
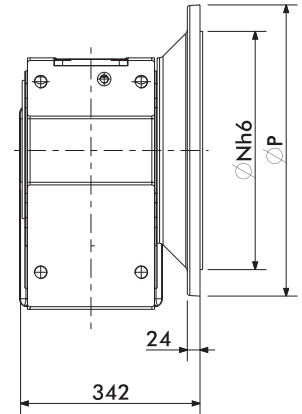


*Standard

KG85P...SMB/SMR



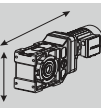
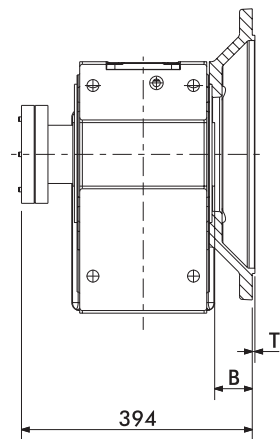
P	N	M	T	B	S
*550	450	500	5	74	18



d	L	m1	lss	Mss	t	b
80	268	247	55	M20	85,6	22
*90	268	247	50	M24	95,4	25

dv	tv	bv	lv	lk	tk	xv	g	lz
*90	95	25	170	160	5	94	M24	608

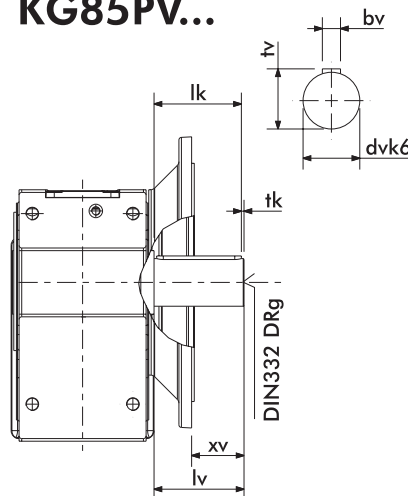
KG85PD...



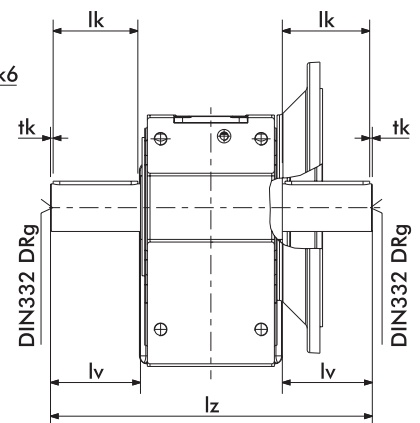
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	648
71	223	105	280	137	140	648
80	251	110	311	147	154	648
90S	276	121	360	164	170	651
90L	301	121	385	164	170	651
100	329	157	418	174	193	656
112M	334	169	434	199	216	656
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

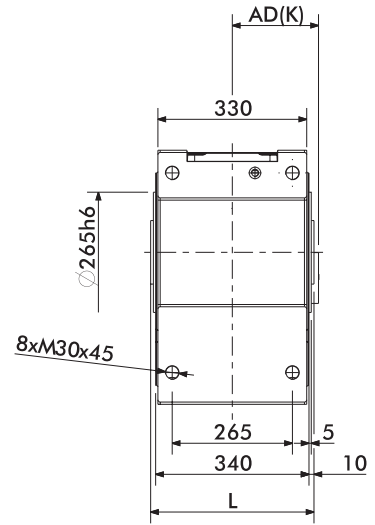
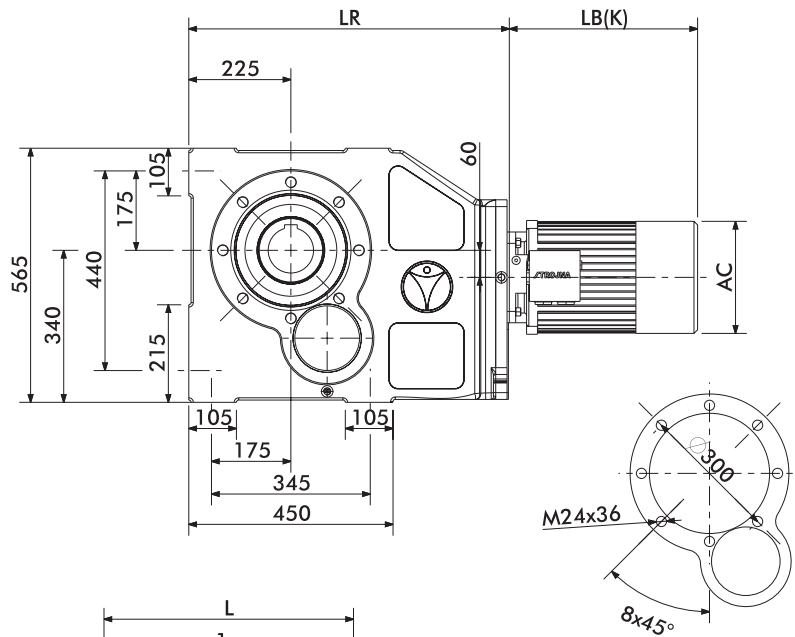
KG85PV...



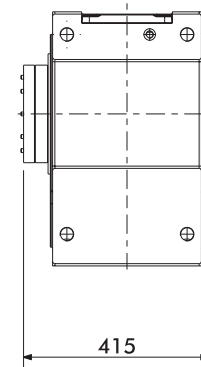
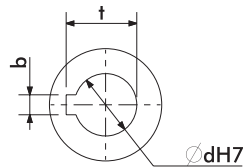
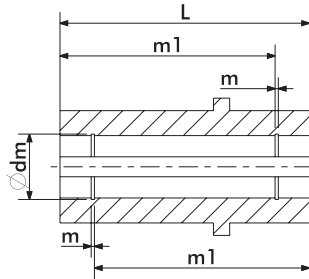
KG85PZ...



KG93...SMB/SMR



KG93D...



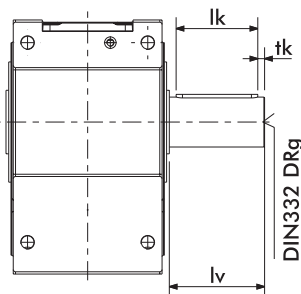
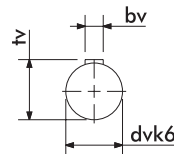
d	L	m1	dm	m	t	b
*100	360	335	103,5	3,15	106,4	28

dv	tv	bv	lv	lk	tk	g	lz
*110	116	28	210	180	15	M24	780

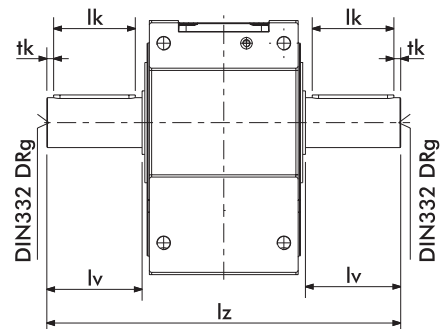
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63						
71						
80						
90S						
90L						
100						
112M						
132S	377	190	492	183	247	707
132M	415	190	532	183	247	707
132Ma	415	190	532	183	247	707
160M	489	246	611	246	285	716
160L	533	246	655	246	285	716
180M	554	260	739	260	323	716
180L	592	260	777	260	323	716
200L	658	299	828	299	369	729
225S	677	337	848	337	418	729
225M	702	337	873	337	418	729
250M	778	360	968	400	471	729

*Standard

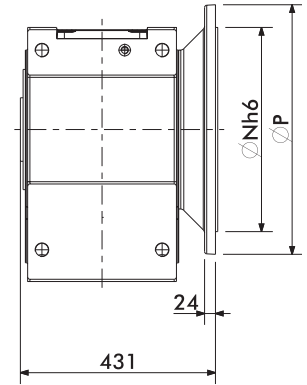
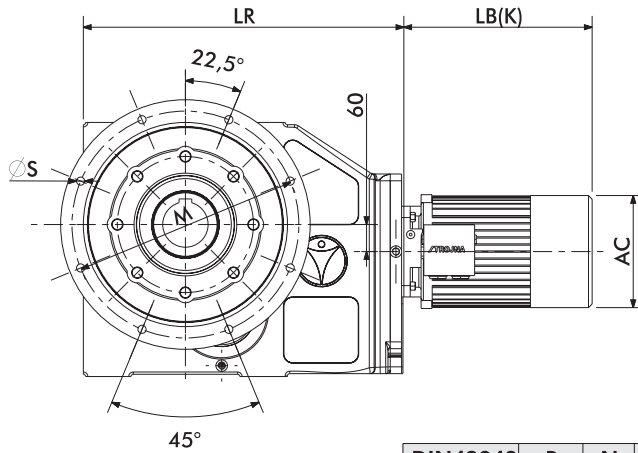
KG93V...



KG93Z...

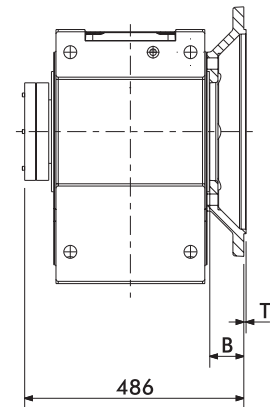
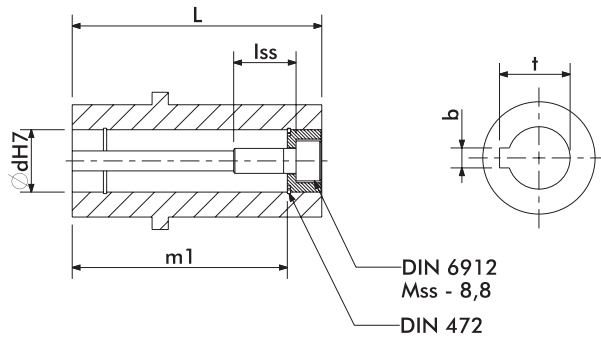


KG93P...SMB/SMR



DIN42948	P	N	M	T	B	S
*A550	550	450	500	5	71	18

KG93PD...



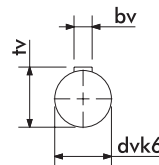
d	L	m1	lss	Mss	t	b
*100	360	335	50	M24	106,4	28

dv	tv	bv	lv	lk	tk	xv	g	lz
*110	116	28	210	180	15	135	M24	780

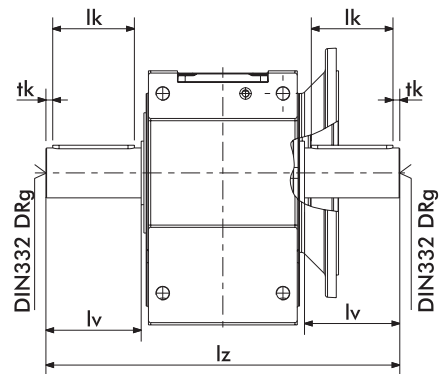
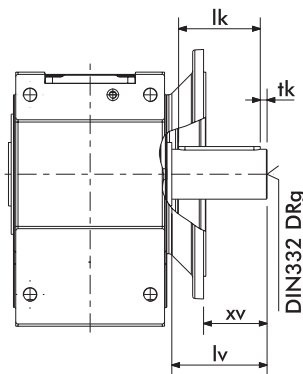
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63						
71						
80						
90S						
90L						
100						
112M						
132S	377	190	492	183	247	707
132M	415	190	532	183	247	707
132Ma	415	190	532	183	247	707
160M	489	246	611	246	285	716
160L	533	246	655	246	285	716
180M	554	260	739	260	323	716
180L	592	260	777	260	323	716
200L	658	299	828	299	369	729
225S	677	337	848	337	418	729
225M	702	337	873	337	418	729
250M	778	360	968	400	471	729

* Standard

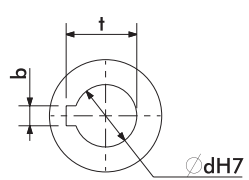
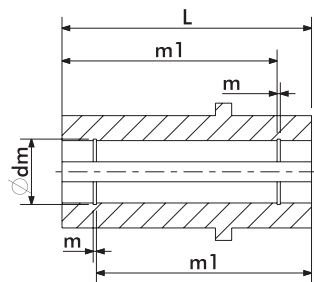
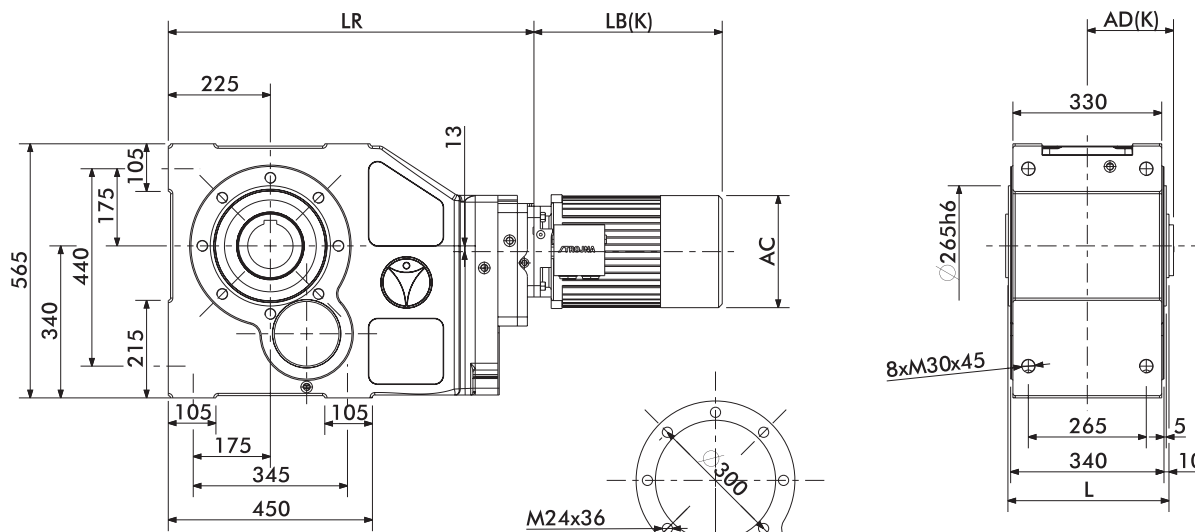
KG93PV...



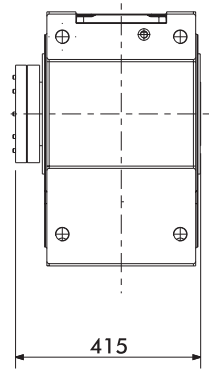
KG93PZ...



KG94...SMB/SMR

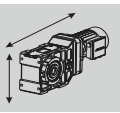


KG94D...



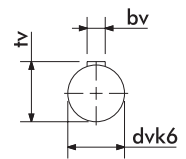
d	L	m1	dm	m	t	b
*100	360	343	103,5	3,15	106,4	28

dv	tv	bv	lv	lk	tk	g	lz
*110	116	28	210	180	15	M24	780

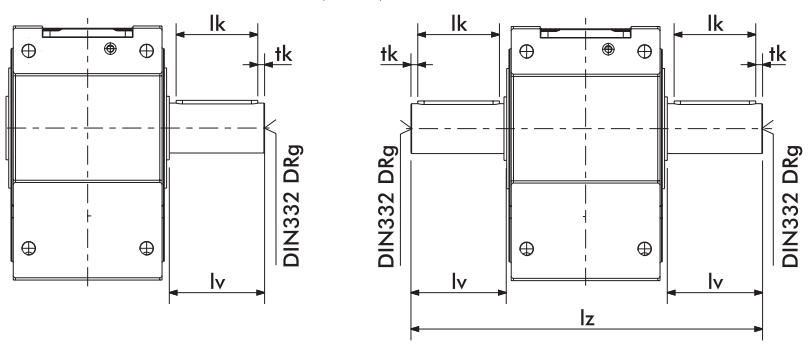


SMB/SMR	LB	AD	LBK	ADK	AC	LR
63						
71						
80						
90S						
90L						
100	329	157	418	174	193	795
112M	334	169	434	199	216	795
132S	377	190	492	183	247	806
132M	415	190	532	183	247	806
132Ma	415	190	532	183	247	806
160M	489	246	611	246	285	815
160L	533	246	655	246	285	815
180M	554	260	739	260	323	815
180L	592	260	777	260	323	815
200L						
225S						
225M						
250M						

KG94V...

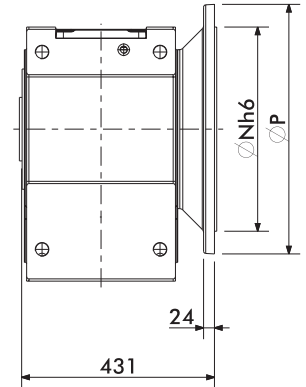
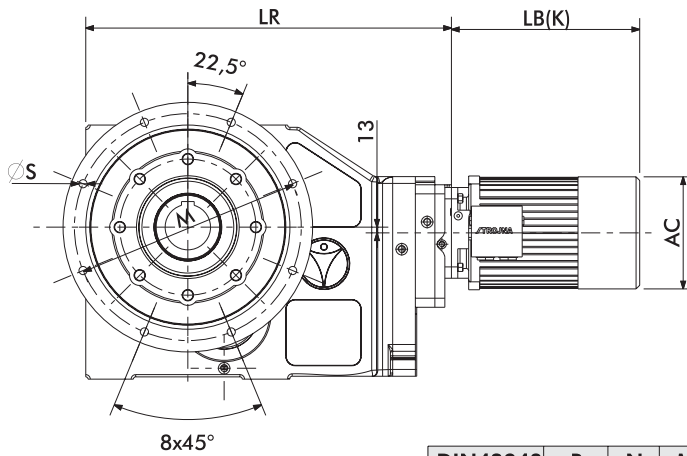


KG94Z...



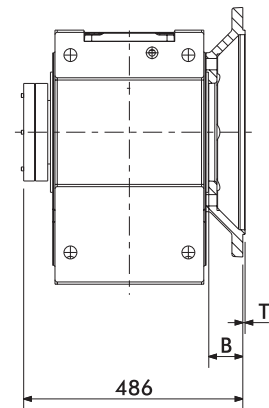
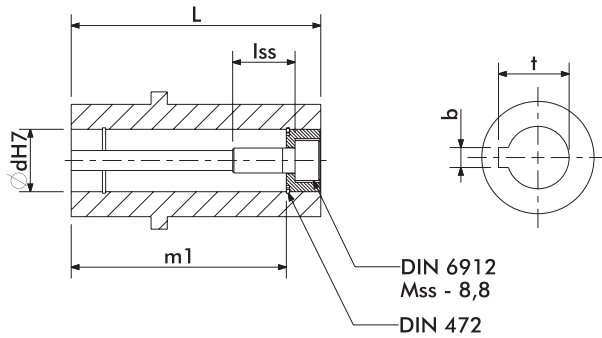
*Standard

KG94P...SMB/SMR



DIN42948	P	N	M	T	B	S
*A550	550	450	550	5	71	18

KG94PD...

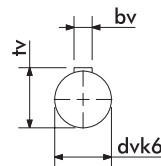


d	L	m1	lss	Mss	t	b
*100	360	335	50	M24	106,4	28

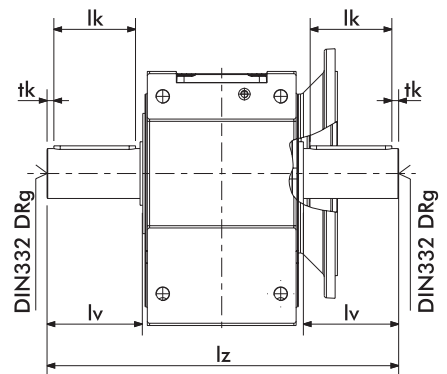
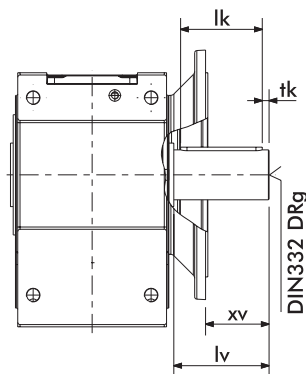
dv	tv	bv	lv	lk	tk	xv	g	lz
*110	116	28	210	180	15	135	M24	780

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63						
71						
80						
90S						
90L						
100						
112M						
132S	377	190	492	183	247	806
132M	415	190	532	183	247	806
132Ma	415	190	532	183	247	806
160M	489	246	611	246	285	815
160L	533	246	655	246	285	815
180M	554	260	739	260	323	815
180L	592	260	777	260	323	815
200L						
225S						
225M						
250M						

KG94PV...

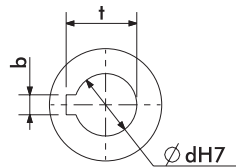
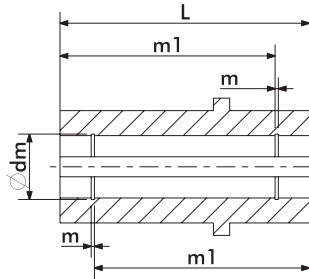
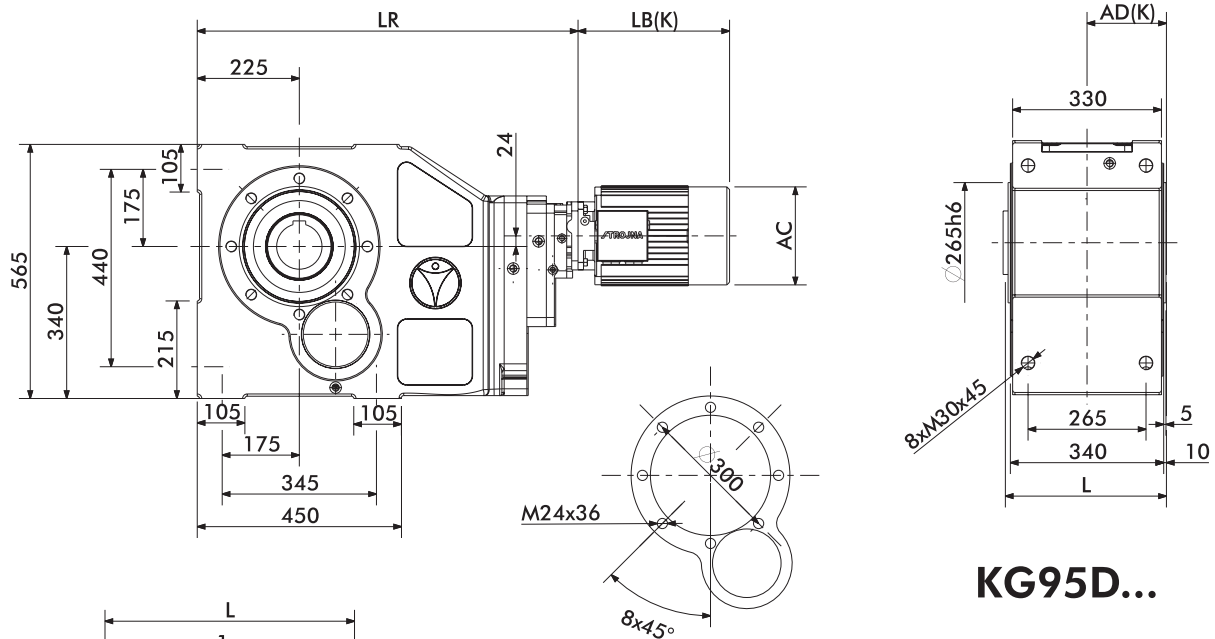


KG94PZ...

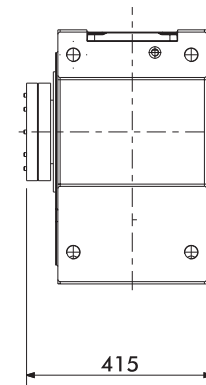


* Standard

KG95...SMB/SMR



KG95D...



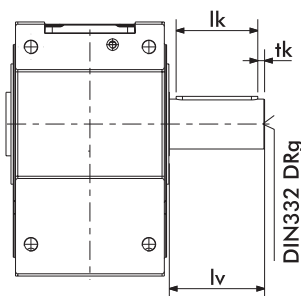
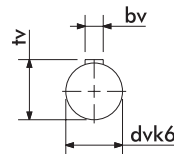
d	L	m1	dm	m	t	b
*100	360	335	103,5	3,15	106,4	28

dv	tv	bv	lv	lk	tk	g	lz
*110	116	28	210	180	15	M24	780

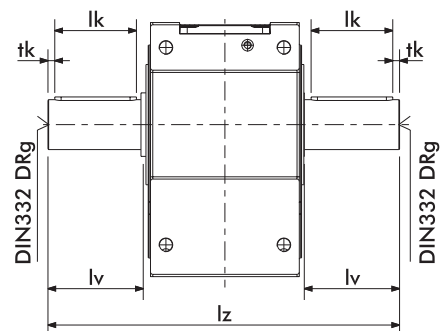
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	836
71	223	105	280	137	140	836
80	251	110	311	147	154	836
90S	276	121	360	164	170	836
90L	301	121	385	164	170	836
100	329	157	418	174	193	842
112M	334	169	434	199	216	842
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

*Standard

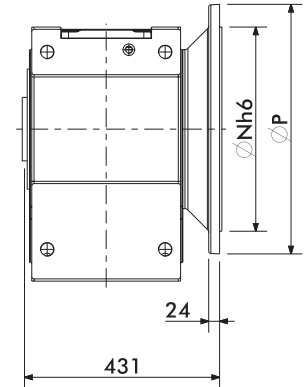
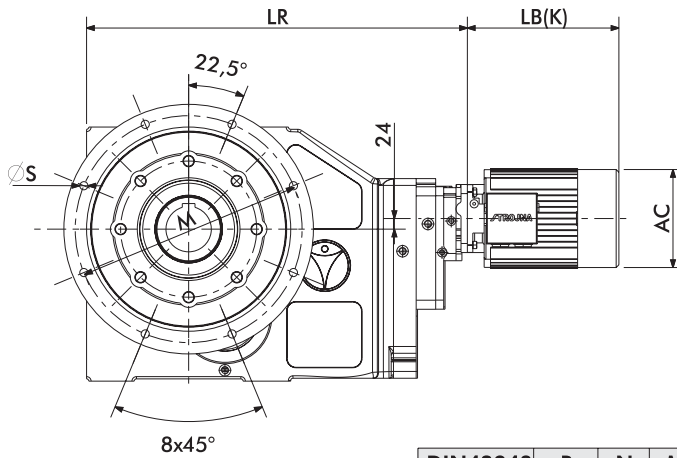
KG95V...



KG95Z...

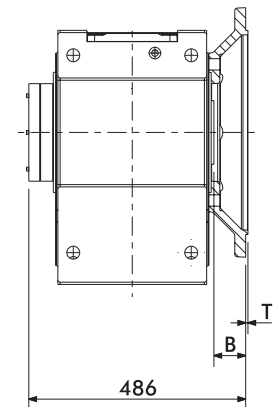
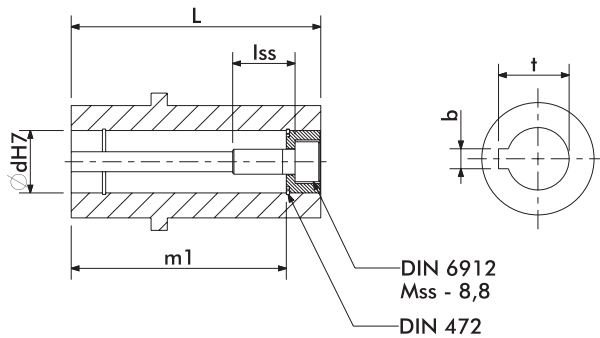


KG95P..SMB/SMR



DIN42948	P	N	M	T	B	S
*A550	550	450	550	5	71	18

KG95PD...

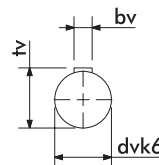


d	L	m1	lss	Mss	t	b
*100	350	325	50	M24	106,4	28

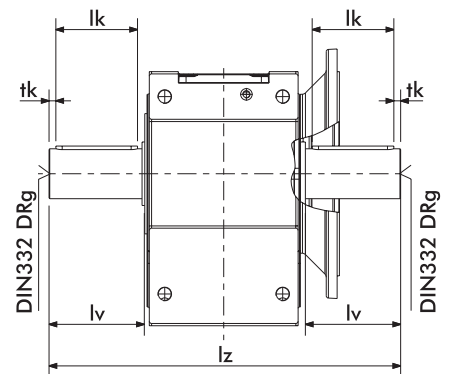
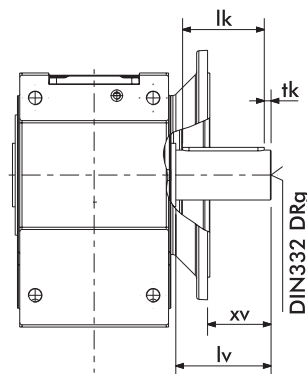
dv	tv	bv	lv	lk	tk	xv	g	lz
*110	116	28	210	180	15	135	M24	770

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	836
71	223	105	280	137	140	836
80	251	110	311	147	154	836
90S	276	121	360	164	170	836
90L	301	121	385	164	170	836
100	329	157	418	174	193	842
112M	334	169	434	199	216	842
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

KG95PV...



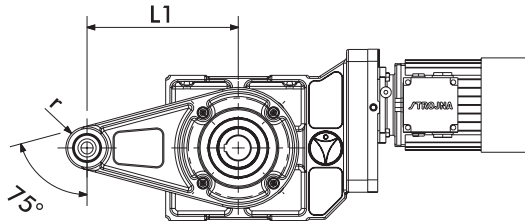
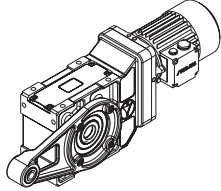
KG95PZ...



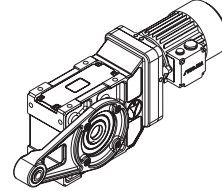
* Standard

Torque Arm KG...SM/MR

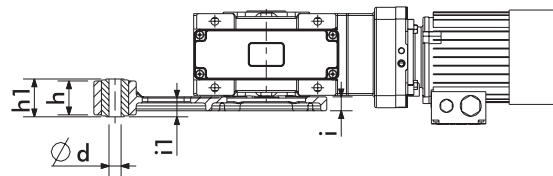
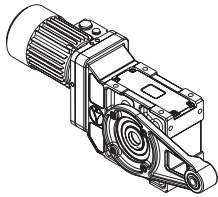
Position
KG...SM/MRL...



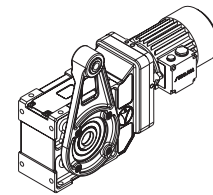
Direction
KG...SM/MR...0



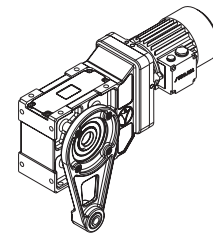
KG...SM/MRD...



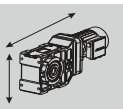
KG...SM/MR...1



KG...SM/MR...2



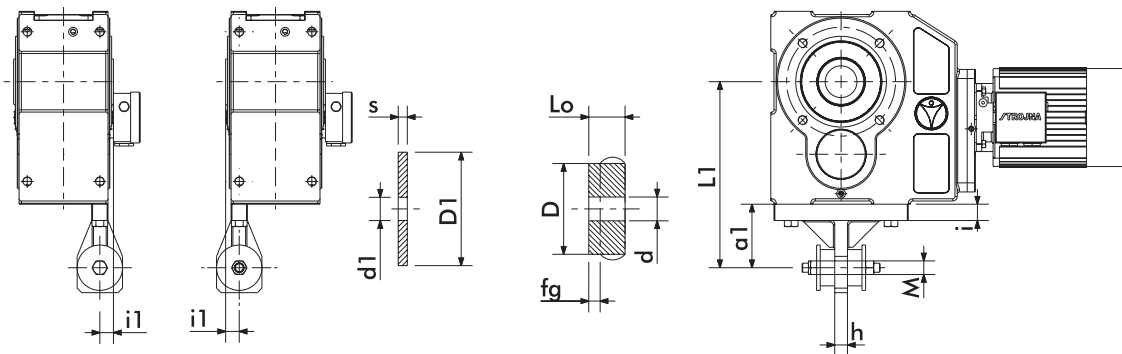
	L1	r	h	h1	d	i1	i
KG1	132	23	32	38	12	18	15
KG2	160	23	32	38	12	20	17
KG3	180	23	32	38	12	24	21
KG4	225	36	56	62,5	20	31	23



Position

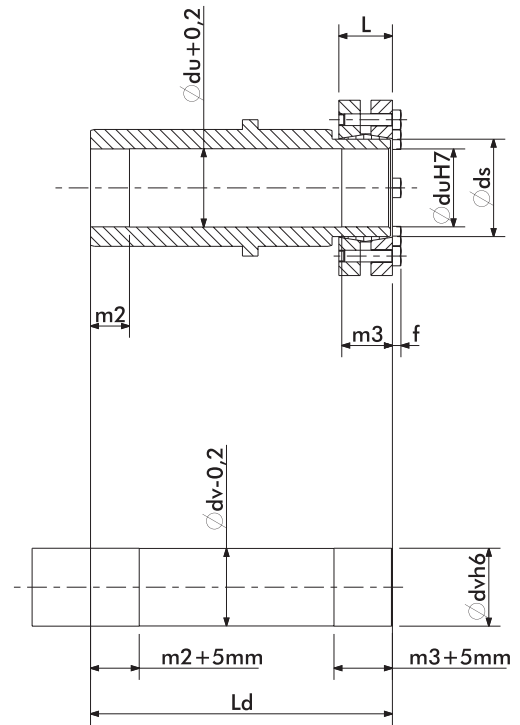
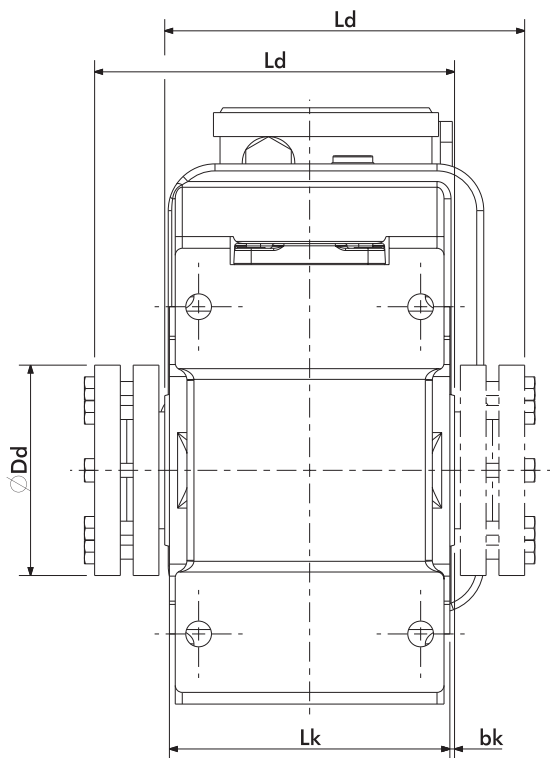
KG...SM/MRL

KG...SM/MRD



	L1	a1	i	h	i1	D	d	D1	d1	s	Lo	M	fg
KG5	250	70	15	20	22,5	40	13,5	50	13,5	5	32	M12	2,00
KG6	300	88	20	25	27	50	17	60	16,5	6	32	M16	2,00
KG7	350	82	20	30	32,5	63	17	80	16,5	6	32	M16	2,00
KG8	450	152	30	36	36,5	80	21	100	20,5	8	32	M20	1,50
KG9	500	160	45	40	47,5	100	21	120	20,5	8	32	M20	1,50

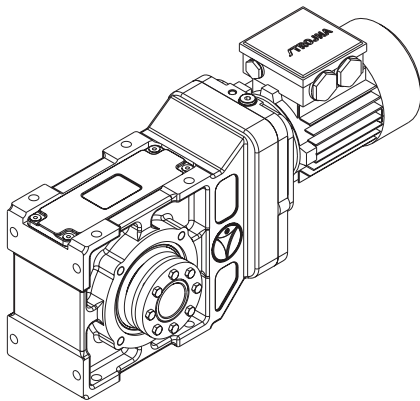
Shrink disc KG...(P)D SM



Position

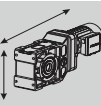
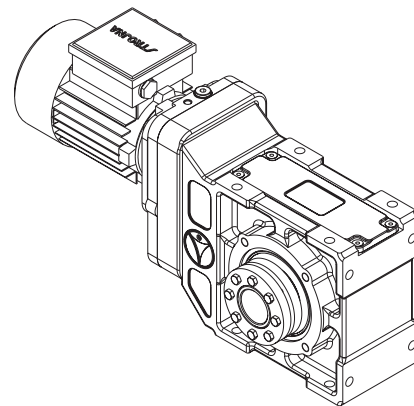
Left

KG...(P)DL SM



Right

KG...(P)DD SM

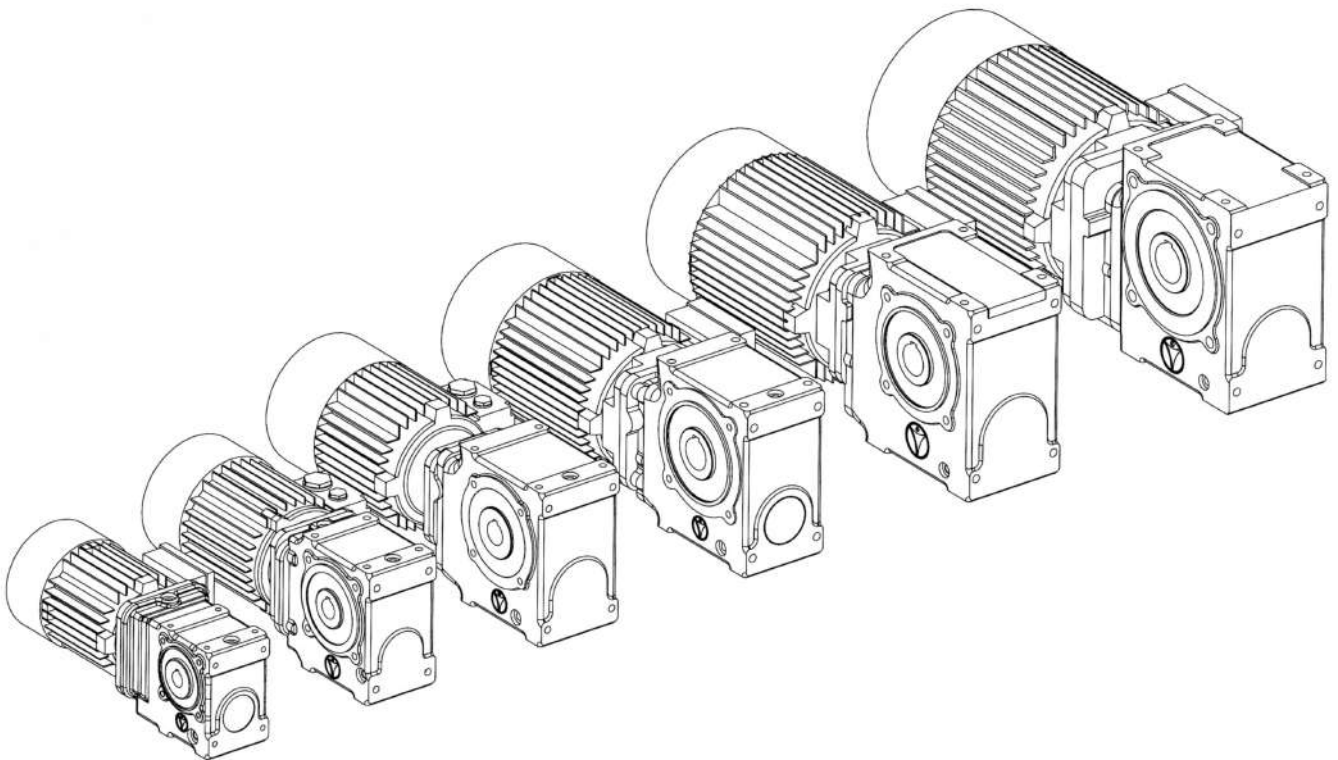


	m2	m3	Lk	bk	Ld	du/dv	ds	Dd	L	f	M _{smax} [Nm]	M _p [Nm]
KG1	20	20	95	5	130	30	36	72	23,5	4	570	12
KG2	20	20	105	5	140	30	36	72	23,5	4	570	12
KG3	20	25	120	5	160	35	44	80	25,5	4	780	12
KG4	30	25	140	5	180	40	50	90	27,5	4	1160	12
KG5	30	30	154	3	192	50	62	110	30,5	4	2200	12
KG6	35	30	176	7	225	65	75	138	32,5	5,3	3950	30
KG7	50	40	206	7	260	75	90	155	39	5,3	7250	30
KG8	60	45	252	8	320	90	110	185	50	6,4	13600	100
KG9	60	50	340	10	415	100	125	215	53	10	21300	121

SG

HELICAL WORM GEAR UNITS

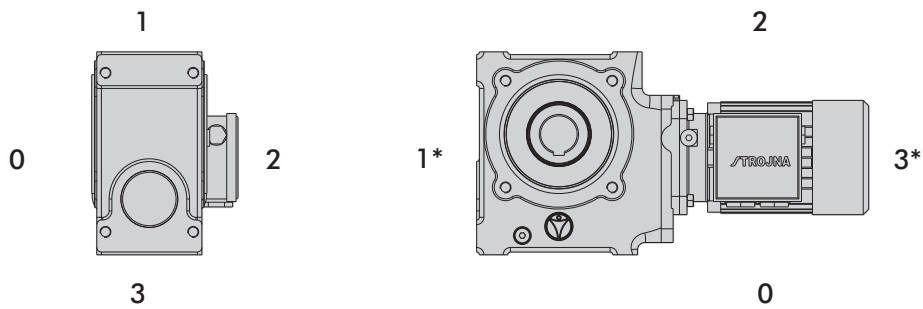
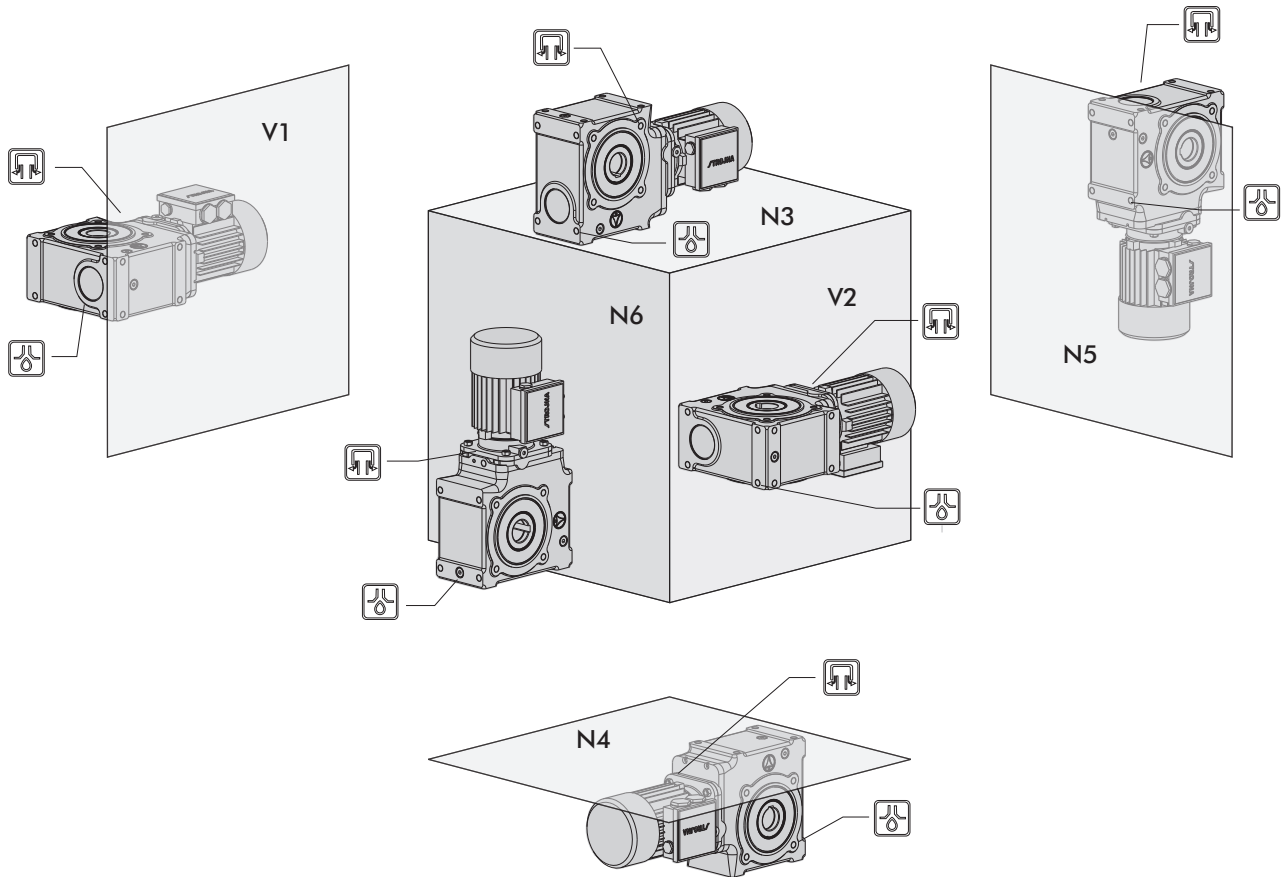
Power: 0,12 kW - 9,2 kW
Torque: 100 - 1.250 Nm
Ratio: 7,7 - 3208



4. Mounting positions SG

 Vent plug

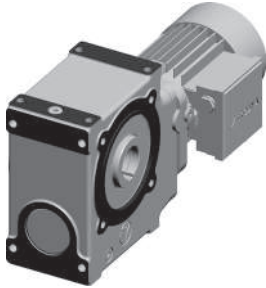
 Drain plug



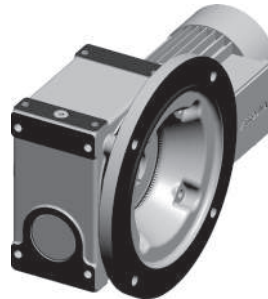
*Check for availability

Gear unit design

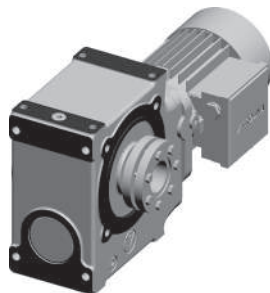
SG...SMB/SMR



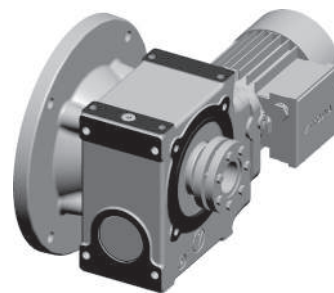
SG...P...



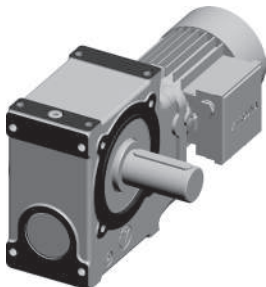
SG...D...



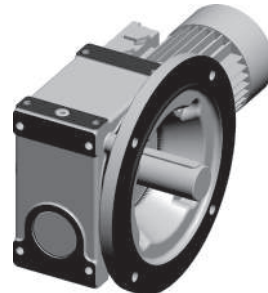
SG...PD...



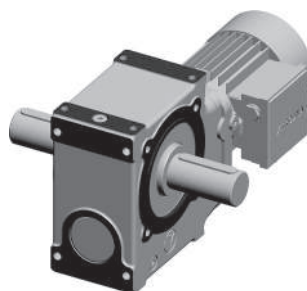
SG...V...



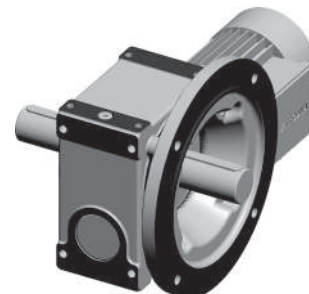
SG...PV...

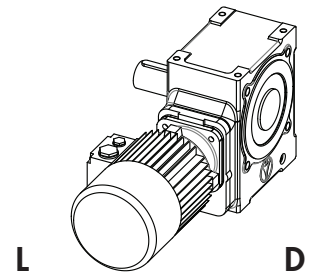
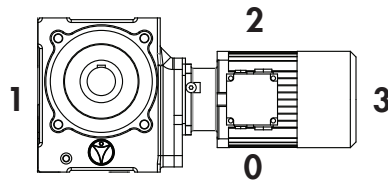
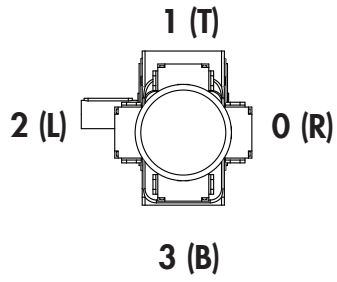


SG...Z...

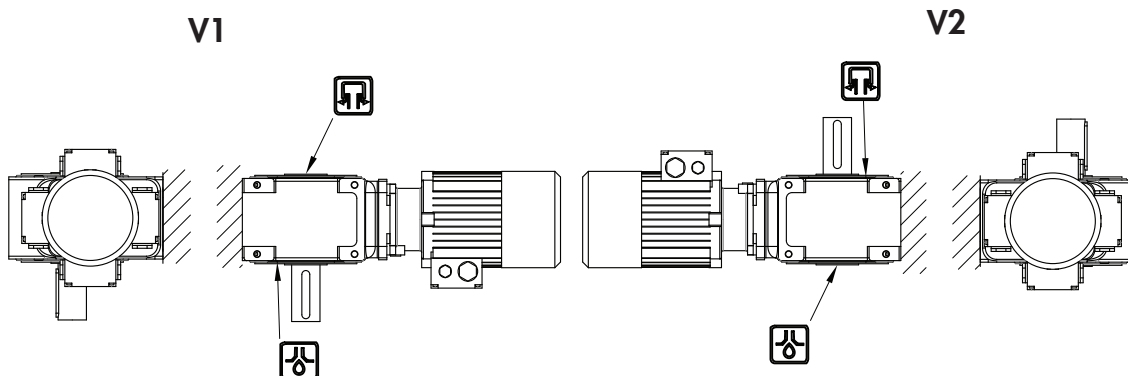
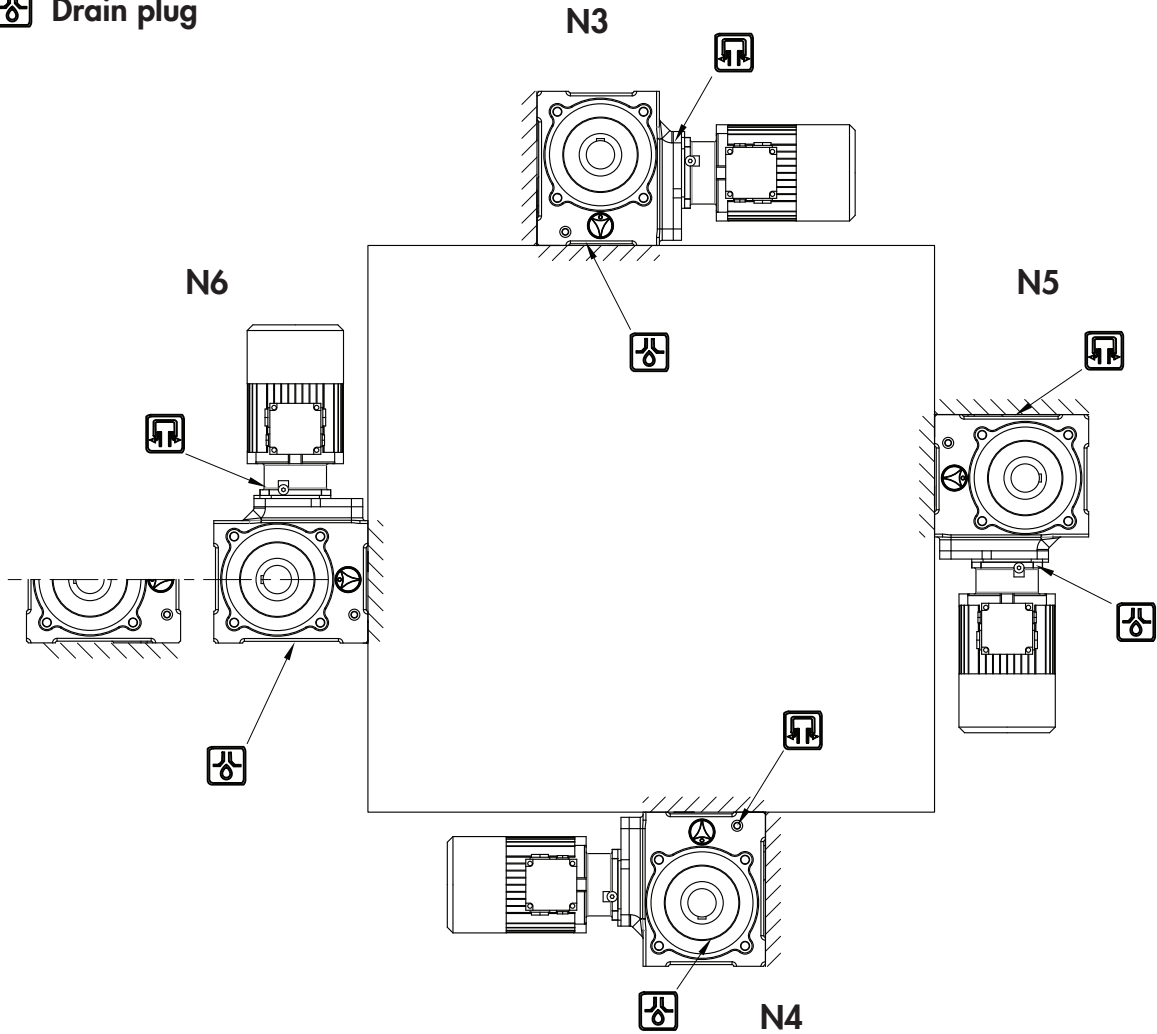


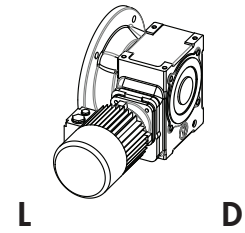
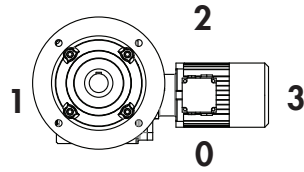
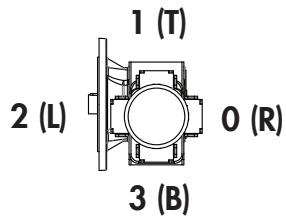
SG...PZ...



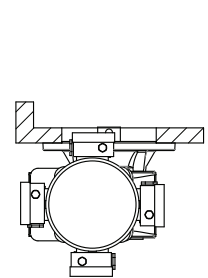
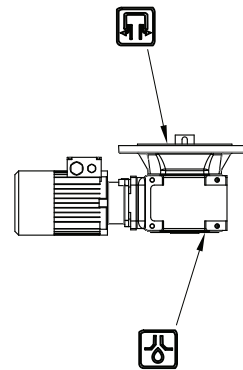
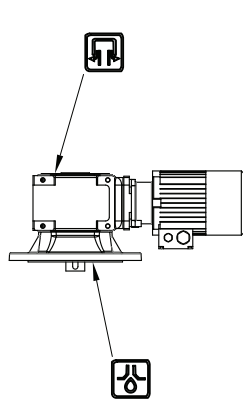
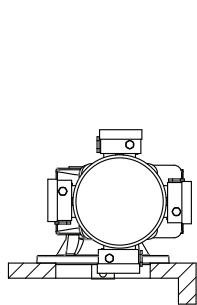
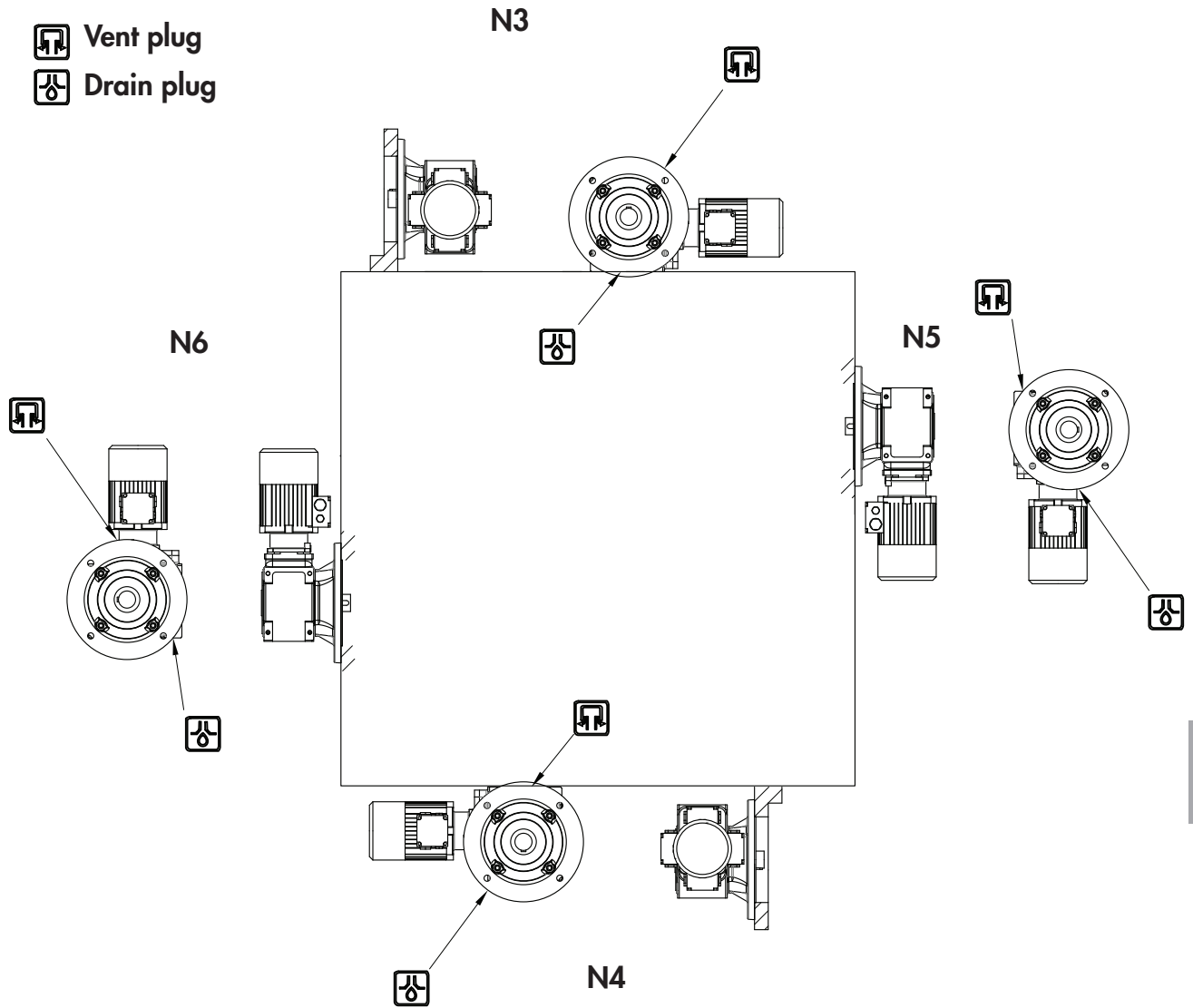


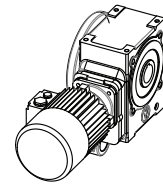
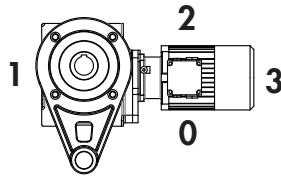
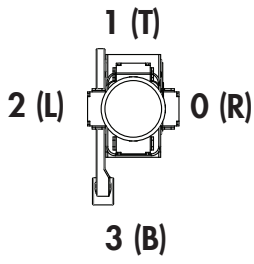
-  Vent plug
-  Drain plug



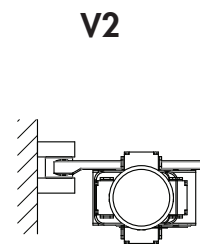
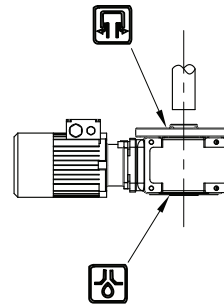
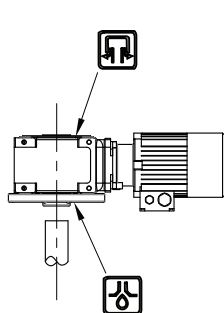
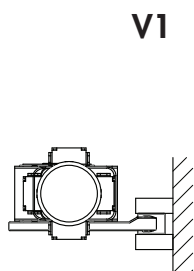
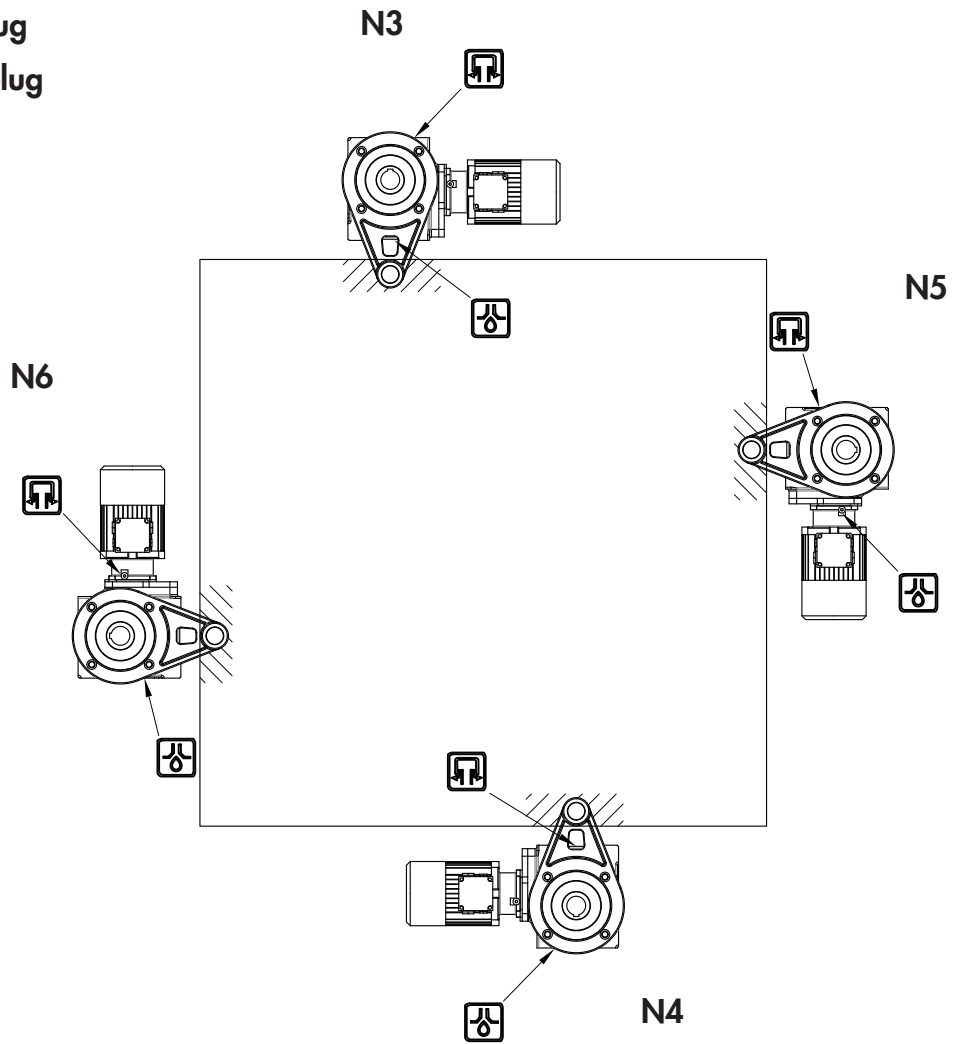


-  Vent plug
-  Drain plug

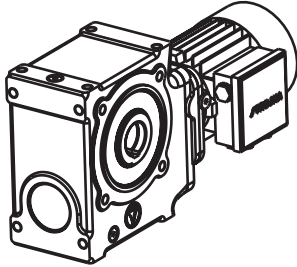




-  Vent plug
-  Drain plug



Structure of selection tables



SG

HELICAL WORM GEAR UNITS

Gear unit type Motor frame size

SG12															
$M_{t_{2max}}$ [Nm]	F_a [kN]	F_r [kN]	j_t [']	i	IEC/SMB/SMR										
					63	71	80	90	100	112	132	160	180	200	225
210	7,1	7,3	8,9	94,16											

→ Total ratio
→ Backlash

→ Permissible radial load
→ Permissible axial load

→ Permissible output torque



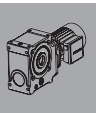
SG12																
Mt _{zmax} [Nm]	(F _r =0)	(F _s =0)	j _t [°]	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
164	7,30	7,80	*	245,78												
163	7,30	7,80	*	218,40												
163	7,30	7,80	*	201,09												
162	7,30	7,80	*	182,00												
160	7,30	7,80	*	161,54												
159	7,30	7,80	*	140,00												
158	7,30	7,80	*	126,00												
156	7,30	7,80	*	114,15												
155	7,30	7,80	*	104,00												
153	7,30	7,80	*	93,33												
152	7,30	7,80	*	88,31												
150	7,30	7,80	*	77,00												
147	7,30	7,80	*	66,50												
144	7,30	7,80	*	59,29												
142	7,30	7,76	*	52,89												
139	7,30	7,61	*	47,60												
137	7,30	7,50	*	44,15												
133	7,30	7,30	*	38,00												
127	7,30	7,00	*	31,61												
123	7,30	6,60	*	28,00												
137	7,30	7,90	*	67,30												
136	7,30	7,90	*	59,80												
136	7,30	7,90	*	55,06												
135	7,30	7,50	*	49,83												
134	7,30	7,40	*	44,23												
132	7,30	7,10	*	38,33												
131	7,30	6,85	*	34,50												
130	7,30	6,40	*	31,26												
129	7,30	6,20	*	28,48												
127	7,30	5,94	*	25,56												
127	7,30	5,70	*	24,18												
124	7,30	5,50	*	21,08												
122	7,30	5,30	*	18,21												
120	7,30	5,20	*	16,24												
117	7,16	5,07	*	14,48												
115	6,40	4,85	*	13,03												
111	5,94	4,60	*	12,09												
108	5,55	4,40	*	10,40												
104	4,90	4,00	*	8,66												
101	4,80	3,80	*	7,67												



SG22																
Mt _{zmax} [Nm]	(F _r =0)	(F _r =0)	j _t [°]	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
222	11,6	10,8	*	333,56												
222	11,6	10,9	*	296,40												
222	11,6	10,9	*	272,91												
222	11,6	10,9	*	247,00												
222	11,6	10,9	*	219,23												
222	11,6	10,9	*	190,00												
222	11,6	10,9	*	171,00												
222	11,6	10,9	*	154,92												
222	11,6	10,9	*	141,14												
222	11,6	10,9	*	126,67												
222	11,6	10,9	*	119,85												
222	11,6	10,9	*	104,50												
222	11,6	10,9	*	90,25												
222	11,6	10,9	*	80,47												
222	11,6	10,9	*	71,78												
219	11,6	10,9	*	64,60												
216	11,6	10,9	*	59,92												
210	11,6	10,9	*	51,57												
200	11,6	10,9	*	42,90												
194	11,6	10,9	*	38,00												
270	11,6	10,9	*	93,63												
268	11,6	10,9	*	83,20												
267	11,6	10,9	*	76,61												
265	11,6	10,9	*	69,33												
263	11,6	10,9	*	61,54												
260	11,6	10,9	*	53,33												
258	11,6	10,9	*	48,00												
255	11,6	11	*	43,49												
253	11,6	11	*	39,62												
250	11,6	11	*	35,56												
248	11,6	10,91	*	33,64												
243	11,6	10,76	*	29,33												
238	11,6	10,6	*	25,33												
234	11,6	10,35	*	22,59												
229	11,6	10,1	*	20,15												
224	11,6	9,8	*	18,13												
223	11,6	9,6	*	16,82												
213	11,6	9,2	*	14,48												
202	11,6	8,7	*	12,04												
195	11,5	8,3	*	10,67												



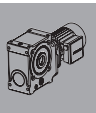
SG33																
Mt _{zmax} [Nm]	(F _r =0)	(F _s =0)	j _t [°]	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
530	18,00	11,00	*	1446,90												
522	18,00	11,30	*	1332,23												
515	18,00	11,50	*	1205,75												
508	18,00	11,70	*	1070,19												
497	18,00	11,87	*	927,50												
487	18,00	12,10	*	834,75												
478	18,00	12,30	*	756,27												
474	18,00	12,32	*	689,00												
464	18,00	12,35	*	618,33												
461	18,00	12,35	*	585,04												
458	18,00	12,36	*	510,13												
458	18,00	12,36	*	440,56												
458	18,00	12,37	*	392,82												
458	18,00	12,40	*	350,39												
458	18,00	12,44	*	315,35												
458	18,00	12,48	*	292,52												
458	18,00	12,52	*	251,75												
458	18,00	12,57	*	209,44												
458	18,00	12,59	*	185,50												



SG32																
Mt _{2max} [Nm]	(F _r =0)	(F _r =0)	j _t [']	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
458	18,00	12,30	*	385,00												
458	18,00	12,60	*	343,00												
458	18,00	12,70	*	308,64												
458	18,00	12,71	*	285,83												
458	18,00	12,72	*	261,15												
458	18,00	12,75	*	222,73												
458	18,00	12,77	*	201,25												
458	18,00	12,80	*	183,08												
458	18,00	12,82	*	167,50												
458	18,00	12,83	*	157,50												
458	18,00	12,90	*	142,69												
458	18,00	12,97	*	125,42												
458	18,00	13,10	*	109,38												
458	18,00	13,14	*	100,88												
458	18,00	13,20	*	93,33												
458	18,00	13,23	*	80,50												
458	18,00	13,23	*	76,73												
458	18,00	13,23	*	68,75												
448	18,00	13,25	*	58,71												
428	18,00	13,27	*	50,44												
407	18,00	13,30	*	43,51												
379	18,00	13,30	*	35,85												
489	18,00	13,50	*	95,33												
485	18,00	13,30	*	84,93												
481	18,00	13,30	*	76,42												
478	18,00	13,30	*	70,78												
475	18,00	13,30	*	64,67												
468	18,00	13,30	*	55,15												
463	18,00	13,30	*	49,83												
458	18,00	13,30	*	45,33												
453	18,00	13,30	*	41,48												
449	18,00	13,30	*	39,00												
443	18,00	13,30	*	35,33												
434	18,00	13,30	*	31,06												
423	18,00	13,30	*	27,08												
417	18,00	13,30	*	24,98												
410	18,00	13,30	*	23,11												
397	18,00	13,30	*	19,93												
392	17,00	13,23	*	19,00												
381	16,00	12,90	*	17,02												
365	14,80	11,10	*	14,54												
348	13,50	10,60	*	12,49												
330	13,40	10,20	*	10,77												
306	13,10	9,90	*	8,88												



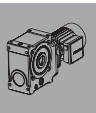
SG43																
Mt _{zmax} [Nm]	(F _r =0)	(F _s =0)	j _t [°]	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
744	*	*	*	1953,93												
729	*	*	*	1736,28												
715	*	*	*	1598,67												
703	20,30	14,60	*	1446,90												
693	20,30	14,60	*	1284,23												
674	20,30	14,60	*	1113,00												
666	20,30	14,60	*	1001,70												
659	20,30	14,60	*	907,52												
646	20,30	14,60	*	826,80												
635	20,30	14,60	*	742,00												
629	20,30	14,60	*	702,05												
616	20,30	15,00	*	612,15												
607	20,30	15,30	*	528,68												
607	20,30	15,50	*	471,39												
607	20,30	15,50	*	420,47												
607	20,30	15,50	*	378,42												
607	20,30	15,50	*	351,02												
607	20,30	15,50	*	302,10												
607	20,30	15,50	*	251,32												
607	20,30	15,50	*	222,60												



SG42																
Mt _{zmax} [Nm]	(F _r =0)	(F _r =0)	j _t [']	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
607	20,30	15,50	*	462,00												
607	20,30	15,50	*	411,60												
607	20,30	15,50	*	370,36												
607	20,30	15,50	*	343,00												
607	20,30	15,50	*	313,38												
607	20,30	15,52	*	267,27												
607	20,30	15,55	*	241,50												
607	20,30	15,60	*	219,69												
607	20,30	15,68	*	201,00												
607	20,30	15,86	*	189,00												
607	20,30	16,00	*	171,23												
607	20,30	16,07	*	150,50												
607	20,30	16,11	*	131,25												
607	20,30	16,14	*	121,06												
607	20,30	16,17	*	112,00												
607	20,30	16,31	*	96,60												
607	20,30	16,40	*	92,08												
607	20,30	16,60	*	82,50												
607	20,30	16,92	*	70,45												
607	20,30	17,00	*	60,53												
607	20,30	17,00	*	52,22												
607	20,30	17,00	*	43,02												
768	20,30	17,50	*	113,67												
762	20,30	17,20	*	101,27												
756	20,30	16,77	*	91,12												
752	20,30	16,50	*	84,39												
746	20,30	16,50	*	77,10												
735	20,30	16,50	*	65,76												
727	20,30	16,50	*	59,42												
719	20,30	16,50	*	54,05												
711	20,30	16,50	*	49,45												
705	20,30	16,04	*	46,50												
696	20,30	15,57	*	42,13												
681	20,30	14,90	*	37,03												
665	20,30	14,60	*	32,29												
655	20,20	14,40	*	29,78												
645	19,70	13,90	*	27,56												
624	18,40	13,30	*	23,77												
616	17,80	12,92	*	22,65												
599	17,30	12,30	*	20,30												
573	16,80	11,90	*	17,33												
546	15,20	11,40	*	14,89												
519	14,00	11,00	*	12,85												
495	13,30	10,40	*	10,59												



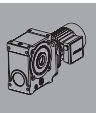
SG53																
Mt _{zmax} [Nm]	(F _r =0)	(F _s =0)	j _t [°]	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
1174	*	*	*	2760,61												
1172	*	*	*	2453,10												
1172	*	*	*	2258,68												
1170	*	*	*	2044,25												
1148	*	*	*	1814,42												
1146	*	*	*	1572,50												
1127	20,30	8,90	*	1415,25												
1110	20,30	8,90	*	1282,19												
1095	20,30	8,90	*	1168,14												
1080	20,30	8,90	*	1048,33												
1068	20,30	8,90	*	991,88												
1045	20,30	8,90	*	864,88												
1017	20,30	9,50	*	746,94												
1001	20,30	10,40	*	666,00												
979	20,30	10,50	*	594,06												
973	20,30	10,50	*	534,65												
973	20,30	10,60	*	495,94												
973	20,30	10,70	*	426,82												
973	20,30	10,70	*	355,08												
973	20,30	10,90	*	314,50												



SG52																
Mt _{zmax} [Nm]	(F _r =0)	(F _r =0)	j _t [']	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
973	20,30	10,70	*	430,55												
973	20,30	10,70	*	391,58												
973	20,30	10,70	*	364,31												
973	20,30	11,10	*	312,82												
973	20,30	11,40	*	283,67												
973	20,30	11,60	*	264,69												
973	20,30	11,80	*	240,50												
973	20,30	12,10	*	218,92												
973	20,30	12,46	*	199,23												
973	20,30	12,80	*	175,75												
973	20,30	12,80	*	159,56												
973	20,30	12,90	*	145,82												
973	20,30	13,00	*	137,72												
973	20,30	13,25	*	120,25												
961	20,30	13,54	*	106,89												
944	20,30	13,88	*	97,37												
915	20,30	14,33	*	84,57												
887	20,30	14,60	*	74,00												
843	20,30	14,90	*	61,19												
797	20,30	15,00	*	51,03												
750	20,30	15,00	*	42,78												
717	20,10	14,70	*	38,06												
948	20,30	17,50	*	104,73												
942	20,30	16,50	*	95,25												
938	20,30	16,20	*	88,62												
927	20,30	15,00	*	76,09												
920	20,30	14,80	*	69,00												
914	20,30	14,60	*	64,38												
908	20,30	14,40	*	58,50												
897	20,30	14,30	*	53,25												
887	20,30	14,30	*	48,46												
873	20,30	14,20	*	42,75												
861	20,30	14,10	*	38,81												
850	20,10	14,00	*	35,47												
842	18,75	13,90	*	33,50												
822	17,70	13,80	*	29,25												
804	16,86	13,60	*	26,00												
788	16,34	13,20	*	23,68												
763	15,36	12,24	*	20,57												
738	15,00	11,60	*	18,00												
698	14,70	11,30	*	14,88												
658	14,50	11,10	*	12,41												
617	14,30	10,90	*	10,41												
589	13,90	10,50	*	9,26												



SG63																
Mt _{zmax} [Nm]	(F _r =0)	(F _s =0)	j _t [°]	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
1413	*	*	*	3208,28												
1413	*	*	*	2850,90												
1413	*	*	*	2624,95												
1413	*	*	*	2375,75												
1386	*	*	*	2108,65												
1357	*	*	*	1827,50												
1331	*	*	*	1644,75												
1331	*	*	*	1490,12												
1309	24,50	17,00	*	1357,57												
1289	24,50	17,00	*	1218,33												
1271	24,50	17,00	*	1152,73												
1240	24,50	17,00	*	1005,13												
1215	24,50	17,00	*	868,06												
1192	24,50	17,00	*	774,00												
1172	24,50	16,80	*	690,39												
1146	24,50	16,70	*	621,35												
1138	24,50	16,60	*	576,37												
1131	24,50	16,40	*	496,04												
1131	24,50	16,30	*	412,66												
1131	24,50	16,20	*	365,50												

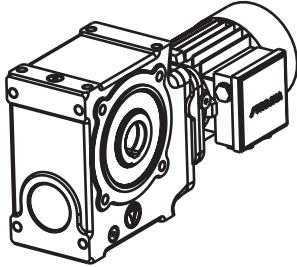


SG62																
Mt _{zmax} [Nm]	(F _r =0)	(F _r =0)	j _t [°]	i	IEC/SMB/SMR											
	Fa [kN]	Fr [kN]			63	71	80	90	100	112	132	160	180	200	225	250
1131	24,50	16,20	*	500,36												
1131	24,50	16,20	*	455,08												
1131	24,50	16,20	*	423,38												
1131	24,50	16,55	*	363,55												
1131	24,50	16,60	*	329,67												
1131	24,50	16,66	*	307,62												
1131	24,50	16,70	*	279,50												
1131	24,50	16,70	*	254,42												
1131	24,50	16,70	*	231,54												
1131	24,50	16,70	*	204,25												
1131	24,50	16,70	*	185,44												
1131	24,50	16,70	*	169,47												
1131	24,50	16,70	*	160,06												
1131	24,50	16,76	*	139,75												
1131	24,50	16,80	*	124,22												
1131	24,50	16,90	*	113,16												
1131	24,50	17,20	*	98,29												
1131	24,50	17,40	*	86,00												
1093	24,50	17,60	*	71,12												
1034	24,50	17,70	*	59,31												
972	24,50	17,70	*	49,72												
930	22,50	17,69	*	44,23												
1249	24,50	19,60	*	120,24												
1241	24,50	19,10	*	109,36												
1235	24,50	18,40	*	101,74												
1221	24,50	18,20	*	87,36												
1211	24,50	18,00	*	79,22												
1204	24,50	17,90	*	73,92												
1193	24,50	17,80	*	67,17												
1181	24,50	17,70	*	61,14												
1168	24,50	17,60	*	55,64												
1150	24,50	17,60	*	49,08												
1135	23,36	17,60	*	44,56												
1119	22,30	17,40	*	40,73												
1109	21,56	17,20	*	38,46												
1083	20,78	16,70	*	33,58												
1059	19,84	15,90	*	29,85												
1038	19,10	15,00	*	27,19												
1005	17,27	13,40	*	23,62												
972	16,50	13,20	*	20,67												
920	16,30	12,80	*	17,09												
867	16,00	12,40	*	14,25												
813	15,60	12,00	*	11,95												
775	14,80	11,00	*	10,63												



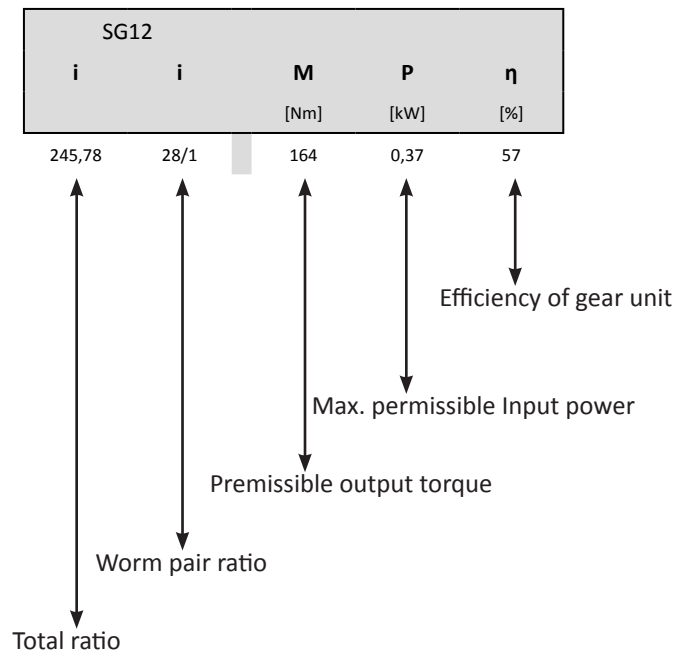
Structure of selection tables.

Calculated for input speed $n_1=1400 \text{ min}^{-1}$

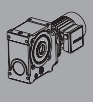


SG

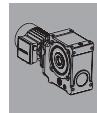
HELICAL WORM GEAR UNITS



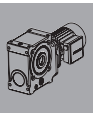
SG12					SG22				
i	i	M	P	η	i	i	M	P	η
		[Nm]	[kW]	[%]			[Nm]	[kW]	[%]
245,78		164	0,37	57	333,56		222	0,75	55
218,40		163	0,37	58	296,40		222	0,75	56
201,09		163	0,37	59	272,91		222	0,75	57
182,00		162	0,37	60	247,00		222	0,75	58
161,54		160	0,37	61	219,23		222	0,75	59
140,00		159	0,37	63	190,00		222	0,75	60
126,00		158	0,37	64	171,00		222	0,75	61
114,15		156	0,37	65	154,92		222	0,75	62
104,00		155	0,37	65	141,14		222	0,75	63
93,33	28/1	153	0,37	66	126,67	38/1	222	0,75	64
88,31		152	0,37	67	119,85		222	0,75	65
77,00		150	0,37	68	104,50		222	0,75	66
66,50		147	0,37	69	90,25		222	0,75	67
59,29		144	0,37	70	80,47		222	0,75	68
52,89		142	0,37	71	71,78		222	0,75	69
47,60		139	0,37	72	64,60		219	0,75	70
44,15		137	0,37	72	59,92		216	0,75	70
38,00		133	0,37	73	51,57		210	0,75	71
31,61		127	0,37	74	42,90		200	0,75	72
28,00	123	0,37	75	38,00	194	0,75	73		
67,30	23/3	137	1,10	82	93,63	32/3	270	1,5	80
59,80		136	1,10	83	83,20		268	1,5	80
55,06		136	1,10	83	76,61		267	1,5	81
49,83		135	1,10	84	69,33		265	1,5	81
44,23		134	1,10	84	61,54		263	1,5	82
38,33		132	1,10	85	53,33		260	1,5	83
34,50		131	1,10	86	48,00		258	1,5	84
31,26		130	1,10	86	43,49		255	1,5	84
28,48		129	1,10	86	39,62		253	1,5	85
25,56		127	1,10	87	35,56		250	1,5	85
24,18		127	1,10	87	33,64		248	1,5	85
21,08		124	1,10	88	29,33		243	1,5	86
18,21		122	1,10	88	25,33		238	1,5	87
16,24		120	1,10	88	22,59		234	1,5	87
14,48		117	1,10	89	20,15		229	1,5	88
13,03		115	1,10	89	18,13		224	1,5	88
12,09		111	1,10	90	16,82		223	1,5	88
10,40		108	1,10	90	14,48		213	1,5	89
8,66		104	1,10	91	12,04		202	1,5	89
7,67		101	1,10	91	10,67		195	1,5	89



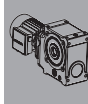
SG33					SG32				
i	i	M	P	η	i	i	M	P	η
		[Nm]	[kW]	[%]			[Nm]	[kW]	[%]
1628,28		539	1,50	41	385,00		458	1,1	52
1446,90		530	1,50	42	343,00		458	1,1	53
1332,23		522	1,50	43	308,64		458	1,1	54
1205,75		515	1,50	43	285,83		458	1,1	55
1070,19		508	1,50	44	261,15		458	1,1	56
927,50		497	1,50	44	222,73		458	1,1	57
834,75		487	1,50	45	201,25		458	1,1	58
756,27		478	1,50	46	183,08		458	1,1	59
689,00		474	1,50	47	167,50		458	1,1	60
618,33		464	1,50	48	157,50		458	1,1	61
585,04	35/1	461	1,50	48	142,69	35/1	458	1,1	61
510,13		458	1,50	49	125,42		458	1,1	63
440,56		458	1,50	51	109,38		458	1,1	64
392,82		458	1,50	52	100,88		458	1,1	64
350,39		458	1,50	53	93,33		458	1,1	65
315,35		458	1,50	54	80,50		458	1,1	66
292,52		458	1,50	55	76,73		458	1,1	66
251,75		458	1,50	56	68,75		458	1,1	67
209,44		458	1,50	58	58,71		448	1,1	68
185,50		458	1,50	59	50,44		428	1,1	68
					43,51		407	1,1	69
					35,85		379	1,1	70
					95,33		489	3,00	80
					84,93		485	3,00	81
					76,42		481	3,00	82
					70,78		478	3,00	82
					64,67		475	3,00	83
					55,15		468	3,00	84
					49,83		463	3,00	84
					45,33		458	3,00	85
					41,48		453	3,00	85
					39,00		449	3,00	85
					35,33	26/3	443	3,00	86
					31,06		434	3,00	86
					27,08		423	3,00	87
					24,98		417	3,00	87
					23,11		410	3,00	88
					19,93		397	3,00	88
					19,00		392	3,00	88
					17,02		381	3,00	88
					14,54		365	3,00	89
					12,49		348	3,00	89
					10,77		330	3,00	89
					8,88		306	3,00	90



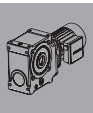
SG43					SG42				
i	i	M	P	η	i	i	M	P	η
		[Nm]	[kW]	[%]			[Nm]	[kW]	[%]
1953,93		744	1,50	41	462,00		607	1,50	52
1736,28		729	1,50	42	411,60		607	1,50	53
1598,67		715	1,50	42	370,36		607	1,50	54
1446,90		703	1,50	43	343,00		607	1,50	55
1284,23		693	1,50	44	313,38		607	1,50	56
1113,00		674	1,50	45	267,27		607	1,50	57
1001,70		666	1,50	45	241,50		607	1,50	58
907,52		659	1,50	46	219,69		607	1,50	59
826,80		646	1,50	46	201,00		607	1,50	60
742,00		635	1,50	47	189,00		607	1,50	61
702,05	42/1	629	1,50	48	171,23	42/1	607	1,50	61
612,15		616	1,50	49	150,50		607	1,50	63
528,68		607	1,50	50	131,25		607	1,50	64
471,39		607	1,50	52	121,06		607	1,50	64
420,47		607	1,50	53	112,00		607	1,50	65
378,42		607	1,50	54	96,60		607	1,50	66
351,02		607	1,50	55	92,08		607	1,50	66
302,10		607	1,50	56	82,50		607	1,50	67
251,32		607	1,50	58	70,45		607	1,50	68
222,60		607	1,50	59	60,53		607	1,50	68
					52,22		607	1,50	69
					43,02		607	1,50	70
					113,67		768	4,00	80
					101,27		762	4,00	81
					91,12		756	4,00	82
					84,39		752	4,00	82
					77,10		746	4,00	83
					65,76		735	4,00	84
					59,42		727	4,00	84
					54,05		719	4,00	85
					49,45		711	4,00	85
					46,50		705	4,00	85
					42,13		696	4,00	86
					37,03	31/3	681	4,00	86
					32,29		665	4,00	87
					29,78		655	4,00	87
					27,56		645	4,00	87
					23,77		624	4,00	88
					22,65		616	4,00	88
					20,30		599	4,00	88
					17,33		573	4,00	89
					14,89		546	4,00	89
					12,85		519	4,00	89
					10,59		495	4,00	90

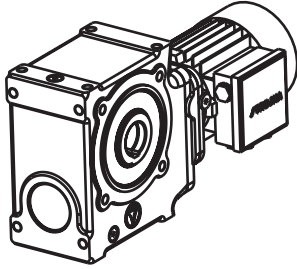


SG53					SG52				
i	i	M	P	η	i	i	M	P	η
		[Nm]	[kW]	[%]			[Nm]	[kW]	[%]
2760,61		1174	1,50	47	430,55		973	2,20	59
2453,10		1172	1,50	48	391,58		973	2,20	60
2258,68		1172	1,50	48	364,31		973	2,20	61
2044,25		1170	1,50	49	312,82		973	2,20	62
1814,42		1148	1,50	49	283,67		973	2,20	63
1572,50		1146	1,50	50	264,69		973	2,20	64
1415,25		1127	1,50	50	240,50		973	2,20	65
1282,19		1110	1,50	51	218,92		973	2,20	66
1168,14		1095	1,50	51	199,23		973	2,20	66
1048,33	37/1	1080	1,50	52	175,75		973	2,20	68
991,88		1068	1,50	52	159,56	37/1	973	2,20	68
864,88		1045	1,50	53	145,82		973	2,20	69
746,94		1017	1,50	55	137,72		973	2,20	70
666,00		1001	1,50	55	120,25		973	2,20	70
594,06		979	1,50	57	106,89		961	2,20	71
534,65		973	1,50	57	97,37		944	2,20	72
495,94		973	1,50	58	84,57		915	2,20	73
426,82		973	1,50	59	74,00		887	2,20	73
355,08		973	1,50	61	61,19		843	2,20	74
314,50		973	1,50	62	51,03		797	2,20	75
					42,78		750	2,20	76
					38,06		717	2,20	76
					104,73		948	7,50	84
					95,25		942	7,50	85
					88,62		938	7,50	85
					76,09		927	7,50	86
					69,00		920	7,50	86
					64,38		914	7,50	87
					58,50		908	7,50	87
					53,25		897	7,50	88
					48,46		887	7,50	88
					42,75		873	7,50	89
					38,81	27/3	861	7,50	89
					35,47		850	7,50	89
					33,50		842	7,50	89
					29,25		822	7,50	90
					26,00		804	7,50	90
					23,68		788	7,50	90
					20,57		763	7,50	91
					18,00		738	7,50	91
					14,88		698	7,50	91
					12,41		658	7,50	92
					10,41		617	7,50	92
					9,26		589	7,50	92



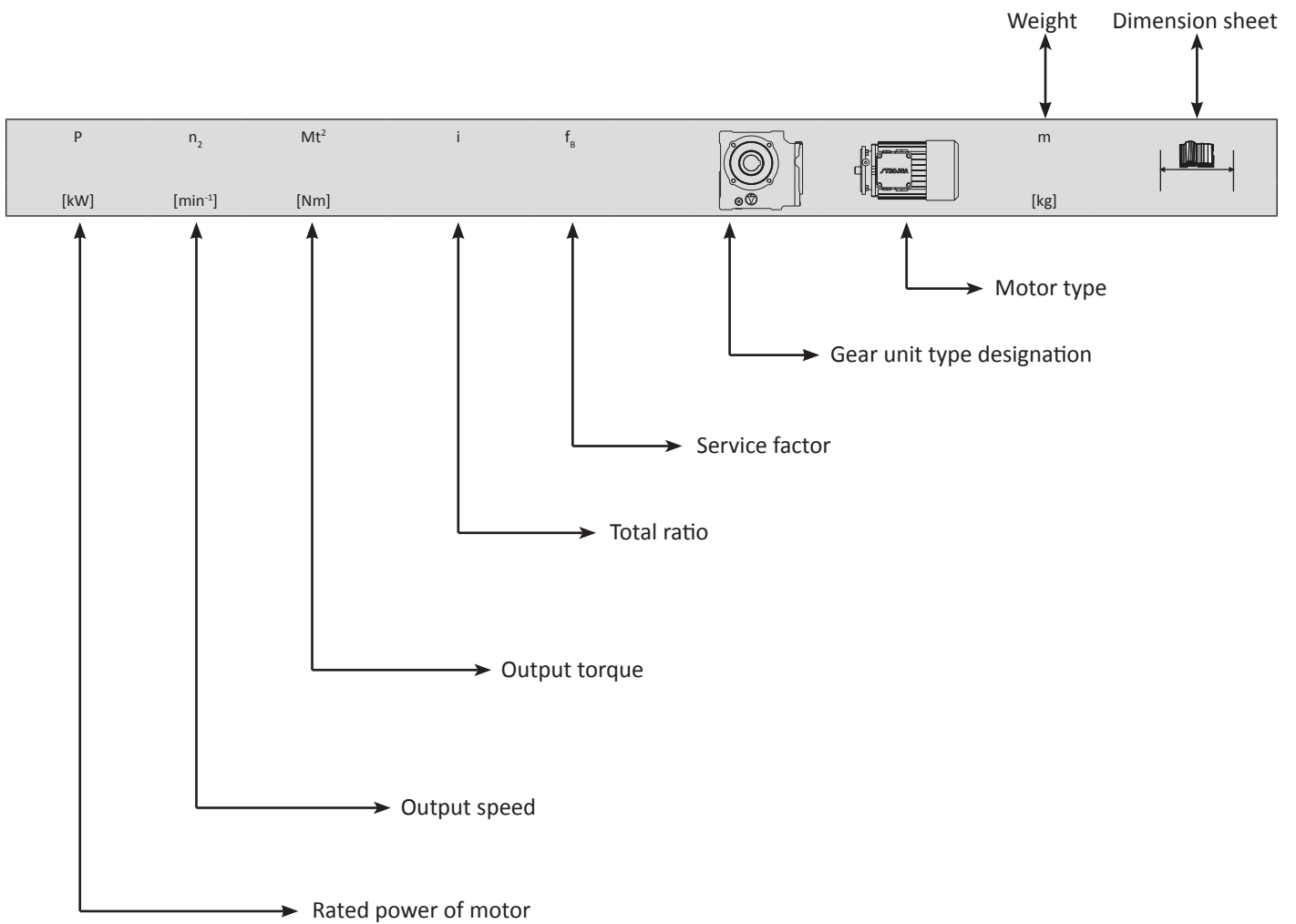
SG63					SG62				
i	i	M	P	η	i	i	M	P	η
		[Nm]	[kW]	[%]			[Nm]	[kW]	[%]
3208,28		1413	1,50	48	500,36		1131	3,00	60
2850,90		1413	1,50	48	455,08		1131	3,00	61
2624,95		1413	1,50	48	423,38		1131	3,00	61
2375,75		1413	1,50	49	363,55		1131	3,00	63
2108,65		1386	1,50	50	329,67		1131	3,00	63
1827,50		1357	1,50	50	307,62		1131	3,00	64
1644,75		1331	1,50	51	279,50		1131	3,00	65
1490,12		1331	1,50	51	254,42		1131	3,00	66
1357,57		1309	1,50	52	231,54		1131	3,00	67
1218,33	43/1	1289	1,50	52	204,25		1131	3,00	68
1152,73		1271	1,50	53	185,44	43/1	1131	3,00	69
1005,13		1240	1,50	54	169,47		1131	3,00	69
868,06		1215	1,50	55	160,06		1131	3,00	70
774,00		1192	1,50	56	139,75		1131	3,00	71
690,39		1172	1,50	57	124,22		1131	3,00	72
621,35		1146	1,50	58	113,16		1131	3,00	72
576,37		1138	1,50	58	98,29		1131	3,00	73
496,04		1131	1,50	60	86,00		1131	3,00	74
412,66		1131	1,50	62	71,12		1093	3,00	75
365,50		1131	1,50	63	59,31		1034	3,00	76
					49,72		972	3,00	76
					44,23		930	3,00	77
					120,24		1249	9,20	85
					109,36		1241	9,20	85
					101,74		1235	9,20	86
					87,36		1221	9,20	86
					79,22		1211	9,20	87
					73,92		1204	9,20	87
					67,17		1193	9,20	88
					61,14		1181	9,20	88
					55,64		1168	9,20	88
					49,08		1150	9,20	89
					44,56		1135	9,20	89
					40,73	31/3	1119	9,20	89
					38,46		1109	9,20	90
					33,58		1083	9,20	90
					29,85		1059	9,20	90
					27,19		1038	9,20	91
					23,62		1005	9,20	91
					20,67		972	9,20	91
					17,09		920	9,20	92
					14,25		867	9,20	92
					11,95		813	9,20	92
					10,63		775	9,20	92


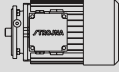






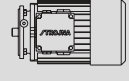

SG

HELICAL WORM GEAR UNITS






P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,12	0.41	1342	3208,28	1,05	SG63	SMB	63A4	
	0.46	1196	2850,90	1,18	SG63	SMB	63A4	
	0.50	1100	2624,95	1,28	SG63	SMB	63A4	
	0.55	1021	2375,75	1,38	SG63	SMB	63A4	
	0.62	924	2108,65	1,50	SG63	SMB	63A4	
	0.72	796	1827,50	1,71	SG63	SMB	63A4	
	0.80	731	1644,75	1,82	SG63	SMB	63A4	
	0.88	664	1490,12	2,00	SG63	SMB	63A4	
	0.96	621	1357,57	2,11	SG63	SMB	63A4	50
	1.1	542	1218,33	2,38	SG63	SMB	63A4	536
	1.2	552	1152,73	2,30	SG63	SMB	63A4	
	1.3	476	1005,13	2,60	SG63	SMB	63A4	
	1.5	420	868,06	2,89	SG63	SMR	63A4	
	1.7	378	774,00	3,16	SG63	SMR	63A4	
	1.9	344	690,39	3,41	SG63	SMR	63A4	
	2.1	317	621,35	3,62	SG63	SMR	63A4	
	2.3	289	576,37	3,94	SG63	SMR	63A4	
	2.6	264	496,04	4,28	SG63	SMR	63A4	
	2.6	264	500,36	4,28	SG62	SMB	63A4	46
	0.47	1146	2760,61	1,02	SG53	SMB	63A4	
	0.53	1038	2453,10	1,13	SG53	SMB	63A4	
	0.58	948	2258,68	1,24	SG53	SMB	63A4	
	0.64	877	2044,25	1,33	SG53	SMB	63A4	
	0.72	780	1814,42	1,47	SG53	SMB	63A4	
	0.83	690	1572,50	1,66	SG53	SMB	63A4	
	0.93	616	1415,25	1,83	SG53	SMB	63A4	
	1.0	584	1282,19	1,90	SG53	SMB	63A4	
	1.1	531	1168,14	2,06	SG53	SMB	63A4	42
	1.2	497	1048,33	2,17	SG53	SMB	63A4	532
	1.3	458	991,88	2,33	SG53	SMB	63A4	
	1.5	405	864,88	2,58	SG53	SMB	63A4	
	1.8	350	746,94	2,90	SG53	SMR	63A4	
	2.0	315	666,00	3,18	SG53	SMR	63A4	
	2.2	297	594,06	3,30	SG53	SMR	63A4	
	2.5	261	534,65	3,72	SG53	SMR	63A4	
	2.6	256	495,94	3,81	SG53	SMR	63A4	
	3.1	218	426,82	4,46	SG53	SMR	63A4	
	3.0	225	430,55	4,32	SG52	SMB	63A4	39
	0.67	701	1953,93	1,06	SG43	SMB	63A4	
	0.75	642	1736,28	1,14	SG43	SMB	63A4	
	0.82	587	1598,67	1,22	SG43	SMB	63A4	
	0.91	542	1446,90	1,30	SG43	SMB	63A4	
	1.0	504	1284,23	1,37	SG43	SMB	63A4	30
	1.2	430	1113,00	1,57	SG43	SMB	63A4	528
	1.3	397	1001,70	1,68	SG43	SMB	63A4	
	1.4	377	907,52	1,75	SG43	SMB	63A4	
	1.6	329	826,80	1,96	SG43	SMB	63A4	
	1.8	299	742,00	2,12	SG43	SMB	63A4	


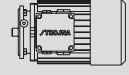



P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
0,12	1.9	290	702,05	2,17	SG43	SMB	63A4	30	528
	2.1	267	612,15	2,30					
	2.5	229	528,68	2,65					
	2.8	213	471,39	2,85					
	3.1	196	420,47	3,10					
	3.5	177	378,42	3,43					
	3.7	170	351,02	3,56					
	4.3	149	302,10	4,07					
2.8	213	462,00	2,85	SG42	SMB	63A4	28	526	
3.2	190	411,60	3,20						
3.5	177	370,36	3,43						
3.8	166	343,00	3,66						
4.2	153	313,38	3,97						
0.91	529	1446,90	1,00	SG33	SMB	63A4	26	524	
0.98	503	1332,23	1,04						
1.1	448	1205,75	1,15						
1.2	420	1070,19	1,21						
1.4	360	927,50	1,38						
1.6	322	834,75	1,51						
1.7	310	756,27	1,54						
1.9	283	689,00	1,67						
2.1	262	618,33	1,77						
2.2	250	585,04	1,84						
2.6	216	510,13	2,12						
3.0	195	440,56	2,35						
3.3	181	392,82	2,54						
3.7	164	350,39	2,79						
4.2	147	315,35	3,11						
4.5	140	292,52	3,27						
5.2	123	251,75	3,71						
6.3	106	209,44	4,34						
3.4	175	385,00	2,61	SG32	SMB	63A4	24	522	
3.8	160	343,00	2,87						
4.2	147	308,64	3,11						
4.6	137	285,83	3,34						
5.0	128	261,15	3,57						
5.9	111	222,73	4,14						
6.5	102	201,25	4,48						
3.9	162	333,56	1,37	SG22	SMB	63A4	16	520	
4.4	146	296,40	1,52						
4.8	136	272,91	1,63						
5.3	125	247,00	1,77						
6.0	113	219,23	1,97						
6.9	100	190,00	2,23						
7.7	91	171,00	2,45						
8.5	84	154,92	2,66						
9.3	78	141,14	2,86						
10	73	126,67	3,03						


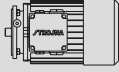



P	n ₂	Mt ₂	i	f _b			m					
[kW]	[min ⁻¹]	[Nm]					[kg]					
0,12	11	68	119,85	3,28	SG22	SMB	63A4	16	520			
	13	58	104,50	3,82		SMB	63A4					
	15	51	90,25	4,34		SMR	63A4					
	18	44	71,78	5,05		SMR	63A4					
	20	40	64,60	5,46		SMR	63A4					
	22	36	59,92	5,92		SMR	63A4					
	31	27	42,90	7,51		SMR	63A4					
	34	25	38,00	7,88		SMR	63A4					
	14	65	93,63	4,12		SMR	63A4					
	16	57	83,20	4,68		SMB	63A4					
	17	55	76,61	4,89		SMB	63A4					
	19	49	69,33	5,42		SMB	63A4					
	21	45	61,54	5,88		SMB	63A4					
	25	38	53,33	6,83		SMB	63A4					
	27	36	48,00	7,24		SMB	63A4					
	30	32	43,49	7,95		SMB	63A4					
	33	30	39,62	8,57		SMB	63A4					
	37	26	35,56	9,50		SMB	63A4					
	39	25	33,64	9,93		SMB	63A4					
	45	22	29,33	11,10		SMB	63A4					
	52	19	25,33	12,41		SMR	63A4					
	58	17	22,59	13,61		SMR	63A4					
	65	16	20,15	14,76		SMR	63A4					
	5.3	123	245,78	1,33		SG12	SMB			63A4	12	518
	6.0	111	218,40	1,47			SMB			63A4		
	6.5	104	201,09	1,57	SMB		63A4					
	7.2	96	182,00	1,70	SMB		63A4					
	8.1	86	161,54	1,85	SMB		63A4					
	9.4	77	140,00	2,07	SMB		63A4					
	10	73	126,00	2,15	SMB		63A4					
	11	68	114,15	2,30	SMB		63A4					
	13	57	104,00	2,71	SMB		63A4					
	14	54	93,33	2,83	SMB		63A4					
	15	51	88,31	2,97	SMB		63A4					
	17	46	77,00	3,27	SMB		63A4					
	20	40	66,50	3,72	SMR		63A4					
	22	36	59,29	3,95	SMR		63A4					
	25	33	52,89	4,36	SMR		63A4					
	28	29	47,60	4,72	SMR		63A4					
	30	28	44,15	4,98	SMR		63A4					
	34	25	38,00	5,41	SMR		63A4					
	41	21	31,61	6,14	SMR		63A4					
	47	18	28,00	6,73	SMR		63A4					
	19	49	67,30	2,77	SMB		63A4					
	24	40	55,06	3,43	SMB		63A4					
	26	37	49,83	3,65	SMB		63A4					
	38	26	34,50	5,05	SMB		63A4					
	42	23	31,26	5,54	SMB		63A4					






P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
0,12	46	21	28,48	6,02	SG12	SMB	63A4	12	518
	51	20	25,56	6,50	SG12	SMB	63A4		
	54	18	24,18	6,88	SG12	SMB	63A4		
	62	16	21,08	7,62	SG12	SMB	63A4		
	72	14	18,21	8,71	SG12	SMR	63A4		
	81	12	16,24	9,64	SG12	SMR	63A4		
	90	11	14,48	10,32	SG12	SMR	63A4		
	101	10	13,03	11,39	SG12	SMR	63A4		
	108	10	12,09	11,62	SG12	SMR	63A4		
	126	8	10,40	13,19	SG12	SMR	63A4		
0,18	0.63	1364	2108,65	1,02	SG63	SMB	63B4	51	536
	0.73	1177	1827,50	1,15	SG63	SMB	63B4		
	0.81	1082	1644,75	1,23	SG63	SMB	63B4		
	0.89	985	1490,12	1,35	SG63	SMB	63B4		
	0.98	912	1357,57	1,44	SG63	SMB	63B4		
	1.1	813	1218,33	1,59	SG63	SMB	63B4		
	1.2	759	1152,73	1,67	SG63	SMB	63B4		
	1.3	714	1005,13	1,74	SG63	SMB	63B4		
	1.5	630	868,06	1,93	SG63	SMR	63B4		
	1.7	566	774,00	2,11	SG63	SMR	63B4		
	1.9	516	690,39	2,27	SG63	SMR	63B4		
	2.1	475	621,35	2,41	SG63	SMR	63B4		
	2.3	433	576,37	2,63	SG63	SMR	63B4		
	2.7	382	496,04	2,96	SG63	SMR	63B4		
	3.2	333	412,66	3,40	SG63	SMR	63B4		
	3.6	301	365,50	3,76	SG63	SMR	63B4		
	2.7	382	500,36	2,96	SG62	SMB	63B4	47	534
	2.9	362	455,08	3,13	SG62	SMB	63B4		
	3.1	338	423,38	3,34	SG62	SMB	63B4		
	3.7	293	363,55	3,86	SG62	SMB	63B4		
	4.0	271	329,67	4,18	SG62	SMB	63B4		
	4.3	256	307,62	4,42	SG62	SMB	63B4		
	0.73	1154	1814,42	0,99	SG53	SMB	63B4	43	532
	0.85	1011	1572,50	1,13	SG53	SMB	63B4		
	0.94	914	1415,25	1,23	SG53	SMB	63B4		
	1.0	877	1282,19	1,27	SG53	SMB	63B4		
1.1	797	1168,14	1,37	SG53	SMB	63B4			
1.3	688	991,88	1,55	SG53	SMB	63B4			
1.5	607	864,88	1,72	SG53	SMB	63B4			
1.8	525	746,94	1,94	SG53	SMR	63B4			
2.0	473	666,00	2,12	SG53	SMR	63B4			
2.2	445	594,06	2,20	SG53	SMR	63B4			
2.5	392	534,65	2,48	SG53	SMR	63B4			
2.7	369	495,94	2,63	SG53	SMR	63B4			
3.1	327	426,82	2,97	SG53	SMR	63B4			
3.7	283	355,08	3,43	SG53	SMR	63B4			
4.2	254	314,50	3,83	SG53	SMR	63B4			
3.1	327	430,55	2,97	SG52	SMB	63B4	40	530	






P	n ₂	Mt ₂	i	f _B			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,18	3.4	303	391,58	3,21	SG52	SMB 63B4	40	530
	3.7	283	364,31	3,43	SG52	SMB 63B4		
	4.3	248	312,82	3,93	SG52	SMB 63B4		
	4.7	230	283,67	4,22	SG52	SMB 63B4		
	5.0	220	264,69	4,42	SG52	SMB 63B4		
1.2	645	1113,00	1,05	SG43	SMB 63B4	31	528	
1.3	595	1001,70	1,12	SG43	SMB 63B4			
1.5	527	907,52	1,25	SG43	SMB 63B4			
1.6	494	826,80	1,31	SG43	SMB 63B4			
1.8	449	742,00	1,41	SG43	SMB 63B4			
1.9	434	702,05	1,45	SG43	SMB 63B4			
2.2	383	612,15	1,61	SG43	SMB 63B4			
2.5	344	528,68	1,77	SG43	SMR 63B4			
2.8	319	471,39	1,90	SG43	SMR 63B4			
3.2	285	420,47	2,13	SG43	SMR 63B4			
3.5	265	378,42	2,29	SG43	SMR 63B4			
3.8	249	351,02	2,44	SG43	SMR 63B4			
4.4	219	302,10	2,77	SG43	SMR 63B4			
5.3	188	251,32	3,23	SG43	SMR 63B4			
6.0	169	222,60	3,59	SG43	SMR 63B4			
2.9	308	462,00	1,97	SG42	SMB 63B4	29	526	
3.2	285	411,60	2,13	SG42	SMB 63B4			
3.6	258	370,36	2,35	SG42	SMB 63B4			
3.9	242	343,00	2,50	SG42	SMB 63B4			
4.2	229	313,38	2,65	SG42	SMB 63B4			
5.0	196	267,27	3,10	SG42	SMB 63B4			
5.5	181	241,50	3,35	SG42	SMB 63B4			
6.1	166	219,69	3,65	SG42	SMB 63B4			
6.6	156	201,00	3,88	SG42	SMB 63B4			
7.0	150	189,00	4,05	SG42	SMB 63B4			
1.6	483	834,75	1,01	SG33	SMB 63B4	27	524	
1.8	439	756,27	1,09	SG33	SMB 63B4			
1.9	425	689,00	1,11	SG33	SMB 63B4			
2.2	375	618,33	1,24	SG33	SMB 63B4			
2.3	359	585,04	1,29	SG33	SMB 63B4			
2.6	324	510,13	1,41	SG33	SMB 63B4			
3.0	292	440,56	1,57	SG33	SMR 63B4			
3.4	263	392,82	1,74	SG33	SMR 63B4			
3.8	240	350,39	1,91	SG33	SMR 63B4			
4.2	221	315,35	2,07	SG33	SMR 63B4			
4.5	210	292,52	2,18	SG33	SMR 63B4			
5.3	182	251,75	2,52	SG33	SMR 63B4			
6.4	156	209,44	2,94	SG33	SMR 63B4			
7.2	141	185,50	3,25	SG33	SMR 63B4			
3.5	255	385,00	1,79	SG32	SMB 63B4			25
3.9	234	343,00	1,96	SG32	SMB 63B4			
4.3	216	308,64	2,12	SG32	SMB 63B4			
4.7	201	285,83	2,28	SG32	SMB 63B4			


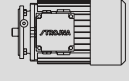



P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
0,18	5.1	189	261,15	2,43	SG32	SMB	63B4	25	522
	6.0	163	222,73	2,80					
	6.6	151	201,25	3,03					
	7.3	139	183,08	3,30					
	7.9	131	167,50	3,51					
	8.4	125	157,50	3,67					
	9.3	113	142,69	4,06					
	4.5	214	296,40	1,04					
4.9	200	272,91	1,11	SG22	SMB	63B4			
5.4	185	247,00	1,20	SG22	SMB	63B4			
6.1	166	219,23	1,34	SG22	SMB	63B4			
7.0	147	190,00	1,51	SG22	SMB	63B4			
7.8	134	171,00	1,65	SG22	SMB	63B4			
8.6	124	154,92	1,79	SG22	SMB	63B4			
9.4	115	141,14	1,93	SG22	SMB	63B4			
11	102	119,85	2,19	SG22	SMB	63B4			
13	87	104,50	2,54	SG22	SMB	63B4			
15	77	90,25	2,89	SG22	SMR	63B4			
17	69	80,47	3,23	SG22	SMR	63B4			
21	57	64,60	3,82	SG22	SMR	63B4			
26	47	51,57	4,47	SG22	SMR	63B4			
35	36	38,00	5,41	SG22	SMR	63B4			
14	98	93,63	2,75	SG22	SMB	63B4			
16	86	83,20	3,12	SG22	SMB	63B4			
19	73	69,33	3,62	SG22	SMB	63B4			
22	64	61,54	4,10	SG22	SMB	63B4			
25	57	53,33	4,56	SG22	SMB	63B4			
28	52	48,00	5,00	SG22	SMB	63B4			
31	47	43,49	5,47	SG22	SMB	63B4			
34	43	39,62	5,89	SG22	SMB	63B4			
37	39	35,56	6,33	SG22	SMB	63B4			
40	37	33,64	6,79	SG22	SMB	63B4			
45	33	29,33	7,40	SG22	SMB	63B4			
53	28	25,33	8,43	SG22	SMR	63B4			
59	25	22,59	9,23	SG22	SMR	63B4			
66	23	20,15	9,99	SG22	SMR	63B4			
73	21	18,13	10,81	SG22	SMR	63B4			
79	19	16,82	11,65	SG22	SMR	63B4			
92	17	14,48	12,81	SG22	SMR	63B4			
110	14	12,04	14,52	SG22	SMR	63B4			
6.1	163	218,40	1,00	SG12	SMB	63B4	13	518	
6.6	154	201,09	1,06	SG12	SMB	63B4			
7.3	141	182,00	1,15	SG12	SMB	63B4			
8.2	128	161,54	1,25	SG12	SMB	63B4			
9.5	114	140,00	1,39	SG12	SMB	63B4			
11	100	126,00	1,58	SG12	SMB	63B4			
12	93	114,15	1,68	SG12	SMB	63B4			
13	86	104,00	1,80	SG12	SMB	63B4			


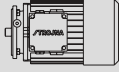



P	n ₂	Mt ₂	i	f _b			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
0,18	14	81	93,33	1,89	SG12	SMB	63B4	518			
	15	77	88,31	1,98		SMB					
	17	69	77,00	2,18		SMB					
	20	59	66,50	2,48		SMR					
	22	55	59,29	2,63		SMR					
	25	49	52,89	2,91		SMR					
	28	44	47,60	3,14		SMR					
	30	41	44,15	3,32		SMR					
	35	36	38,00	3,71		SMR					
	42	30	31,61	4,19		SMR					
	48	27	28,00	4,58		SMR					
	24	59	55,06	2,29		SMB					
	27	53	49,83	2,52		SMB					
	39	38	34,50	3,46		SMB					
	43	34	31,26	3,78		SMB					
	47	31	28,48	4,10		SMB					
	52	29	25,56	4,42		SMB					
	55	27	24,18	4,67		SMB					
	63	24	21,08	5,16		SMB					
	73	21	18,21	5,89		SMR					
	82	18	16,24	6,50		SMR					
	92	17	14,48	7,04		SMR					
	102	15	13,03	7,67		SMR					
	110	14	12,09	7,89		SMR					
	128	12	10,40	8,94		SMR					
	154	10	8,66	10,24		SMR					
	173	9	7,67	11,17		SMR					
	0,25	0.90	1353	1490,12		0,98			SG63	SMB	71A4
0.99		1254	1357,57	1,04	SMB						
1.1		1129	1218,33	1,14	SMB						
1.2		1054	1152,73	1,21	SMB						
1.3		992	1005,13	1,25	SMB						
1.5		875	868,06	1,39	SMR						
1.7		786	774,00	1,52	SMR						
1.9		716	690,39	1,64	SMR						
2.2		629	621,35	1,82	SMR						
2.3		602	576,37	1,89	SMR						
2.7		531	496,04	2,13	SMR						
3.2		463	412,66	2,44	SMR						
3.7		407	365,50	2,78	SMR						
2.7		531	500,36	2,13	SG62	SMB	71A4	47			
2.9		502	455,08	2,25		SMB					
3.2		455	423,38	2,49		SMB					
3.7		407	363,55	2,78		SMB					
4.1		367	329,67	3,08		SMB					
4.4		347	307,62	3,26		SMB					
4.8		323	279,50	3,50		SMB					
5.3		297	254,42	3,80		SMB					






P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,25	5.8	276	231,54	4,10	SG62	SMB 71A4	47	534
	1.1	1107	1168,14	0,99	SG53	SMB 71A4		
	1.3	955	1048,33	1,13	SG53	SMB 71A4		
	1.4	887	991,88	1,20	SG53	SMB 71A4		
	1.5	844	864,88	1,24	SG53	SMB 71A4		
	1.8	730	746,94	1,39	SG53	SMR 71A4		
	2.0	657	666,00	1,52	SG53	SMR 71A4	43	532
	2.3	592	594,06	1,65	SG53	SMR 71A4		
	2.5	544	534,65	1,79	SG53	SMR 71A4		
	2.7	513	495,94	1,90	SG53	SMR 71A4		
	3.1	454	426,82	2,14	SG53	SMR 71A4		
	3.8	383	355,08	2,54	SG53	SMR 71A4		
	4.3	344	314,50	2,83	SG53	SMR 71A4		
	3.1	454	430,55	2,14	SG52	SMB 71A4		
	3.4	421	391,58	2,31	SG52	SMB 71A4		
	3.7	394	364,31	2,47	SG52	SMB 71A4		
	4.3	344	312,82	2,83	SG52	SMB 71A4		
	4.7	320	283,67	3,04	SG52	SMB 71A4	40	530
	5.1	300	264,69	3,25	SG52	SMB 71A4		
	5.6	277	240,50	3,51	SG52	SMB 71A4		
	6.1	258	218,92	3,77	SG52	SMB 71A4		
	6.7	235	199,23	4,14	SG52	SMB 71A4		
	1.8	623	742,00	1,02	SG43	SMB 71A4		
	1.9	603	702,05	1,04	SG43	SMB 71A4		
	2.2	532	612,15	1,16	SG43	SMB 71A4		
	2.5	478	528,68	1,27	SG43	SMR 71A4		
	2.8	443	471,39	1,37	SG43	SMR 71A4		
	3.2	395	420,47	1,54	SG43	SMR 71A4	31	528
	3.5	368	378,42	1,65	SG43	SMR 71A4		
	3.8	346	351,02	1,76	SG43	SMR 71A4		
	4.4	304	302,10	2,00	SG43	SMR 71A4		
	5.3	261	251,32	2,32	SG43	SMR 71A4		
	6.0	235	222,60	2,59	SG43	SMR 71A4		
	2.9	428	462,00	1,42	SG42	SMB 71A4		
	3.3	383	411,60	1,58	SG42	SMB 71A4		
	3.6	358	370,36	1,69	SG42	SMB 71A4		
	3.9	337	343,00	1,80	SG42	SMB 71A4		
	4.3	311	313,38	1,95	SG42	SMB 71A4		
	5.0	272	267,27	2,23	SG42	SMB 71A4		
	5.5	252	241,50	2,41	SG42	SMB 71A4		
	6.1	231	219,69	2,63	SG42	SMB 71A4	29	526
	6.7	214	201,00	2,84	SG42	SMB 71A4		
	7.1	205	189,00	2,96	SG42	SMB 71A4		
	7.8	187	171,23	3,25	SG42	SMB 71A4		
	8.9	169	150,50	3,59	SG42	SMB 71A4		
	10	153	131,25	3,97	SG42	SMR 71A4		
	11	139	121,06	4,37	SG42	SMR 71A4		
	2.6	450	510,13	1,02	SG33	SMB 71A4	27	524


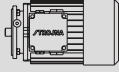



P	n ₂	Mt ₂	i	f _B			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
0,25	3.0	406	440,56	1,13	SG33	SMR	71A4	27	524
	3.4	365	392,82	1,25					
	3.8	333	350,39	1,38					
	4.2	307	315,35	1,49					
	4.6	285	292,52	1,60					
	5.3	252	251,75	1,82					
	6.4	216	209,44	2,12					
	7.2	196	185,50	2,34					
	3.5	355	385,00	1,29	SG32	SMB	71A4	25	522
	3.9	324	343,00	1,41					
	4.3	300	308,64	1,53					
	4.7	279	285,83	1,64					
	5.1	262	261,15	1,75					
	6.0	227	222,73	2,02					
	6.7	207	201,25	2,22					
	7.3	193	183,08	2,37					
	8.0	179	167,50	2,56					
	8.5	171	157,50	2,67					
	9.4	155	142,69	2,96					
	11	137	125,42	3,35					
	12	127	109,38	3,60					
	13	118	100,88	3,90					
	14	111	93,33	4,13					
	14	136	95,33	3,58					
	16	121	84,93	4,01					
	18	109	76,42	4,42					
	6.1	231	219,23	0,96	SG22	SMB	71A4	17	520
	7.1	202	190,00	1,10					
	7.8	187	171,00	1,19					
	8.6	172	154,92	1,29					
	9.5	158	141,14	1,40					
	11	141	119,85	1,57					
	13	121	104,50	1,83					
	15	107	90,25	2,08					
	21	80	64,60	2,75					
	26	65	51,57	3,22					
	35	50	38,00	3,90					
	14	136	93,63	1,98					
	16	119	83,20	2,25					
	17	114	76,61	2,35					
	19	102	69,33	2,60					
	22	89	61,54	2,96					
	25	79	53,33	3,28					
	28	72	48,00	3,60					
	31	65	43,49	3,94					
	34	60	39,62	4,24					
	38	53	35,56	4,68					
	40	51	33,64	4,89					


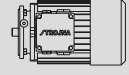



P	n ₂	Mt ₂	i	f _b			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
0,25	46	45	29,33	5,44	SG22	SMB	71A4	17	520
	53	39	25,33	6,07	SG22	SMR	71A4		
	59	35	22,59	6,65	SG22	SMR	71A4		
	67	31	20,15	7,30	SG22	SMR	71A4		
	74	28	18,13	7,89	SG22	SMR	71A4		
	80	26	16,82	8,49	SG22	SMR	71A4		
	93	23	14,48	9,32	SG22	SMR	71A4		
	111	19	12,04	10,55	SG22	SMR	71A4		
	126	17	10,67	11,56	SG22	SMR	71A4		
	9.6	157	140,00	1,01	SG12	SMB	71A4	13	518
	11	139	126,00	1,14	SG12	SMB	71A4		
	12	129	114,15	1,21	SG12	SMB	71A4		
	13	119	104,00	1,30	SG12	SMB	71A4		
	14	113	93,33	1,36	SG12	SMB	71A4		
	15	107	88,31	1,43	SG12	SMB	71A4		
	17	96	77,00	1,57	SG12	SMB	71A4		
	20	82	66,50	1,78	SG12	SMR	71A4		
	23	73	59,29	1,98	SG12	SMR	71A4		
25	68	52,89	2,09	SG12	SMR	71A4			
28	61	47,60	2,26	SG12	SMR	71A4			
30	57	44,15	2,39	SG12	SMR	71A4			
35	50	38,00	2,67	SG12	SMR	71A4			
42	42	31,61	3,02	SG12	SMR	71A4			
48	37	28,00	3,30	SG12	SMR	71A4			
22	90	59,80	1,51	SG12	SMB	71A4			
24	83	55,06	1,65	SG12	SMB	71A4			
27	74	49,83	1,82	SG12	SMB	71A4			
39	53	34,50	2,49	SG12	SMB	71A4			
43	48	31,26	2,72	SG12	SMB	71A4			
47	44	28,48	2,95	SG12	SMB	71A4			
52	40	25,56	3,18	SG12	SMB	71A4			
55	38	24,18	3,36	SG12	SMB	71A4			
64	33	21,08	3,78	SG12	SMB	71A4			
74	28	18,21	4,30	SG12	SMR	71A4			
83	25	16,24	4,74	SG12	SMR	71A4			
93	23	14,48	5,12	SG12	SMR	71A4			
103	21	13,03	5,57	SG12	SMR	71A4			
111	19	12,09	5,73	SG12	SMR	71A4			
129	17	10,40	6,48	SG12	SMR	71A4			
155	14	8,66	7,42	SG12	SMR	71A4			
175	12	7,67	8,14	SG12	SMR	71A4			
0,37	1.7	1164	774,00	1,02	SG63	SMR	71B4	52	536
	1.9	1060	690,39	1,11	SG63	SMR	71B4		
	2.2	932	621,35	1,23	SG63	SMR	71B4		
	2.3	891	576,37	1,28	SG63	SMR	71B4		
	2.7	785	496,04	1,44	SG63	SMR	71B4		
	3.2	685	412,66	1,65	SG63	SMR	71B4		
	3.7	602	365,50	1,88	SG63	SMR	71B4		






P	n ₂	Mt ₂	i	f _B			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
0,37	2.7	785	500,36	1,44	SG62	SMB	71B4	48	534
	2.9	743	455,08	1,52		SMB	71B4		
	3.2	674	423,38	1,68		SMB	71B4		
	3.7	602	363,55	1,88		SMB	71B4		
	4.1	543	329,67	2,08		SMB	71B4		
	4.4	514	307,62	2,20		SMB	71B4		
	4.8	478	279,50	2,36		SMB	71B4		
	5.3	440	254,42	2,57		SMB	71B4		
	5.8	408	231,54	2,77		SMB	71B4		
	6.6	364	204,25	3,11		SMB	71B4		
	7.2	339	185,44	3,34		SMR	71B4		
	7.9	309	169,47	3,66		SMR	71B4		
	8.4	294	160,06	3,84		SMR	71B4		
	9.6	261	139,75	4,33		SMR	71B4		
	2.0	972	666,00	1,03		SG53	SMR		
	2.3	876	594,06	1,12	SMR		71B4		
	2.5	806	534,65	1,21	SMR		71B4		
	2.7	759	495,94	1,28	SMR		71B4		
	3.1	673	426,82	1,45	SMR		71B4		
	3.8	567	355,08	1,72	SMR		71B4		
	4.3	509	314,50	1,91	SMR		71B4		
	3.1	673	430,55	1,45	SG52		SMB	71B4	41
	3.4	624	391,58	1,56		SMB	71B4		
	3.7	583	364,31	1,67		SMB	71B4		
	4.3	509	312,82	1,91		SMB	71B4		
	4.7	474	283,67	2,05		SMB	71B4		
	5.1	443	264,69	2,19		SMB	71B4		
	5.6	410	240,50	2,37		SMB	71B4		
	6.1	382	218,92	2,55		SMB	71B4		
	6.7	348	199,23	2,80		SMB	71B4		
	7.6	316	175,75	3,08		SMB	71B4		
	8.4	286	159,56	3,40		SMR	71B4		
	9.2	265	145,82	3,67		SMR	71B4		
	9.7	255	137,72	3,82		SMR	71B4		
	11	225	120,25	4,33		SMR	71B4		
	13	228	104,73	4,15		SMB	71B4		
	14	215	95,25	4,39	SMB	71B4			
	3.2	585	420,47	1,04	SG43	SMR	71B4	32	528
	3.5	545	378,42	1,11		SMR	71B4		
	3.8	511	351,02	1,19		SMR	71B4		
	4.4	450	302,10	1,35		SMR	71B4		
	5.3	387	251,32	1,57		SMR	71B4		
	6.0	347	222,60	1,75		SMR	71B4		
	2.9	634	462,00	0,96		SG42	SMB		
	3.3	568	411,60	1,07	SMB		71B4		
	3.6	530	370,36	1,15	SMB		71B4		
	3.9	498	343,00	1,22	SMB		71B4		
	4.3	460	313,38	1,32	SMB		71B4		


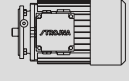



P	n ₂	Mt ₂	i	f _b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
0,37	5.0	403	267,27	1,51	SG42	SMB	71B4	30	526	
	5.5	373	241,50	1,63		SG42	SMB			71B4
	6.1	342	219,69	1,78		SG42	SMB			71B4
	6.7	316	201,00	1,92		SG42	SMB			71B4
	7.1	304	189,00	2,00		SG42	SMB			71B4
	7.8	276	171,23	2,20		SG42	SMB			71B4
	8.9	250	150,50	2,43		SG42	SMB			71B4
	10	226	131,25	2,68		SG42	SMR			71B4
	11	206	121,06	2,95		SG42	SMR			71B4
	12	191	112,00	3,17		SG42	SMR			71B4
	14	167	96,60	3,64		SG42	SMR			71B4
	15	155	92,08	3,90		SG42	SMR			71B4
	16	148	82,50	4,10		SG42	SMR			71B4
	12	236	113,67	3,26		SG42	SMB			71B4
	13	220	101,27	3,46		SG42	SMB			71B4
	15	193	91,12	3,91		SG42	SMB			71B4
	16	181	84,39	4,15		SG42	SMB			71B4
17	173	77,10	4,32	SG42	SMB	71B4				
4.2	454	315,35	1,01	SG33	SMR	71B4	28	524		
4.6	422	292,52	1,08	SG33	SMR	71B4				
5.3	373	251,75	1,23	SG33	SMR	71B4				
6.4	320	209,44	1,43	SG33	SMR	71B4				
7.2	290	185,50	1,58	SG33	SMR	71B4				
3.9	480	343,00	0,95	SG32	SMB	71B4	26	522		
4.3	444	308,64	1,03	SG32	SMB	71B4				
4.7	413	285,83	1,11	SG32	SMB	71B4				
5.1	388	261,15	1,18	SG32	SMB	71B4				
6.0	336	222,73	1,36	SG32	SMB	71B4				
6.7	306	201,25	1,50	SG32	SMB	71B4				
7.3	286	183,08	1,60	SG32	SMB	71B4				
8.0	265	167,50	1,73	SG32	SMB	71B4				
8.5	254	157,50	1,81	SG32	SMB	71B4				
9.4	229	142,69	2,00	SG32	SMB	71B4				
11	202	125,42	2,26	SG32	SMB	71B4				
12	188	109,38	2,43	SG32	SMR	71B4				
13	174	100,88	2,63	SG32	SMR	71B4				
14	164	93,33	2,79	SG32	SMR	71B4				
17	137	76,73	3,34	SG32	SMR	71B4				
19	125	68,75	3,68	SG32	SMR	71B4				
23	104	58,71	4,29	SG32	SMR	71B4				
14	202	95,33	2,42	SG32	SMB	71B4				
16	179	84,93	2,71	SG32	SMB	71B4				
18	161	76,42	2,99	SG32	SMB	71B4				
19	152	70,78	3,13	SG32	SMB	71B4				
21	140	64,67	3,40	SG32	SMB	71B4				
24	124	55,15	3,78	SG32	SMB	71B4				
27	110	49,83	4,21	SG32	SMB	71B4				
11	209	119,85	1,06	SG22	SMB	71B4			18	520






P	n ₂	Mt ₂	i	f _B			m					
[kW]	[min ⁻¹]	[Nm]					[kg]					
0,37	13	179	104,50	1,24	SG22	SMB	71B4	18	520			
	15	158	90,25	1,41		SMR	71B4					
	21	118	64,60	1,86		SMR	71B4					
	26	96	51,57	2,18		SMR	71B4					
	35	74	38,00	2,63		SMR	71B4					
	14	202	93,63	1,34		SMB	71B4					
	16	177	83,20	1,52		SMB	71B4					
	17	168	76,61	1,59		SMB	71B4					
	19	151	69,33	1,76		SMB	71B4					
	22	132	61,54	2,00		SMB	71B4					
	25	117	53,33	2,22		SMB	71B4					
	28	106	48,00	2,43		SMB	71B4					
	31	96	43,49	2,66		SMB	71B4					
	34	88	39,62	2,86		SMB	71B4					
	38	79	35,56	3,16		SMB	71B4					
	40	75	33,64	3,30		SMB	71B4					
	46	66	29,33	3,68		SMB	71B4					
	53	58	25,33	4,10		SMR	71B4					
	59	52	22,59	4,49		SMR	71B4					
	67	46	20,15	4,93		SMR	71B4					
	74	42	18,13	5,33		SMR	71B4					
	80	39	16,82	5,74		SMR	71B4					
	93	34	14,48	6,30		SMR	71B4					
	111	28	12,04	7,13		SMR	71B4					
	126	25	10,67	7,81		SMR	71B4					
	15	158	88,31	0,96		SG12	SMB			71B4	14	518
	17	141	77,00	1,06			SMB			71B4		
	20	122	66,50	1,21			SMR			71B4		
	23	108	59,29	1,34			SMR			71B4		
	25	100	52,89	1,42			SMR			71B4		
	28	91	47,60	1,53			SMR			71B4		
	30	85	44,15	1,62			SMR			71B4		
	35	74	38,00	1,80			SMR			71B4		
	42	62	31,61	2,04	SMR		71B4					
	48	55	28,00	2,23	SMR		71B4					
	22	133	59,80	1,02	SMB		71B4					
	24	122	55,06	1,11	SMB		71B4					
	27	110	49,83	1,23	SMB		71B4					
	39	78	34,50	1,68	SMB		71B4					
	43	71	31,26	1,84	SMB		71B4					
	47	65	28,48	2,00	SMB		71B4					
	52	59	25,56	2,15	SMB		71B4					
	55	56	24,18	2,27	SMB		71B4					
	64	49	21,08	2,55	SMB		71B4					
	74	42	18,21	2,90	SMR		71B4					
	83	37	16,24	3,20	SMR		71B4					
	93	34	14,48	3,46	SMR		71B4					
	103	31	13,03	3,77	SMR		71B4					


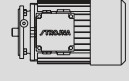



P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,37	111	29	12,09	3,87	SG12	SMR 71B4	14	518
	129	25	10,40	4,38	SG12	SMR 71B4		
	155	21	8,66	5,01	SG12	SMR 71B4		
	175	18	7,67	5,50	SG12	SMR 71B4		
0,55	2.8	1126	496,04	1,00	SG63	SMR 80A4	54	536
	3.3	987	412,66	1,15	SG63	SMR 80A4		
	3.8	871	365,50	1,30	SG63	SMR 80A4		
	2.7	1167	500,36	0,97	SG62	SMB 80A4	50	534
	3.0	1068	455,08	1,06	SG62	SMB 80A4		
	3.2	1001	423,38	1,13	SG62	SMB 80A4		
	3.8	871	363,55	1,30	SG62	SMB 80A4		
	4.2	788	329,67	1,44	SG62	SMB 80A4		
	4.5	747	307,62	1,51	SG62	SMB 80A4		
	4.9	697	279,50	1,62	SG62	SMB 80A4		
	5.4	642	254,42	1,76	SG62	SMB 80A4		
	5.9	596	231,54	1,90	SG62	SMB 80A4		
	6.7	533	204,25	2,12	SG62	SMB 80A4		
	7.4	490	185,44	2,31	SG62	SMR 80A4		
	8.1	447	169,47	2,53	SG62	SMR 80A4		
	8.6	428	160,06	2,65	SG62	SMR 80A4		
	9.8	381	139,75	2,97	SG62	SMR 80A4		
	11	344	124,22	3,29	SG62	SMR 80A4		
	11	406	120,24	3,08	SG62	SMB 80A4		
	13	343	109,36	3,61	SG62	SMB 80A4		
	14	323	101,74	3,83	SG62	SMB 80A4		
	16	282	87,36	4,32	SG62	SMB 80A4		
	3.2	968	426,82	1,00	SG53	SMR 80A4		
	3.9	822	355,08	1,18	SG53	SMR 80A4		
	4.4	740	314,50	1,31	SG53	SMR 80A4		
	3.2	968	430,55	1,00	SG52	SMB 80A4	43	530
	3.5	900	391,58	1,08	SG52	SMB 80A4		
	3.8	843	364,31	1,15	SG52	SMB 80A4		
	4.4	740	312,82	1,31	SG52	SMB 80A4		
	4.8	689	283,67	1,41	SG52	SMB 80A4		
	5.2	646	264,69	1,51	SG52	SMB 80A4		
	5.7	599	240,50	1,62	SG52	SMB 80A4		
6.3	550	218,92	1,77	SG52	SMB 80A4			
6.9	502	199,23	1,94	SG52	SMB 80A4			
7.8	458	175,75	2,12	SG52	SMB 80A4			
8.6	415	159,56	2,34	SG52	SMR 80A4			
9.4	386	145,82	2,52	SG52	SMR 80A4			
10.0	368	137,72	2,65	SG52	SMR 80A4			
11	334	120,25	2,91	SG52	SMR 80A4			
13	287	106,89	3,35	SG52	SMR 80A4			
13	339	104,73	2,79	SG52	SMB 80A4			
14	319	95,25	2,95	SG52	SMB 80A4			
16	279	88,62	3,36	SG52	SMB 80A4			
18	251	76,09	3,69	SG52	SMB 80A4			






P	n ₂	Mt ₂	i	f _B			80A4	m			
[kW]	[min ⁻¹]	[Nm]						[kg]			
0,55	20	226	69,00	4,07	SG52	SMB	80A4	43	530		
	21	218	64,38	4,20	SG52	SMB	80A4				
5.5	554	251,32	1,10		SG43	SMR	80A4	34	528		
6.2	500	222,60	1,21		SG43	SMR	80A4				
5.1	587	267,27	1,03		SG42	SMB	80A4	32	526		
5.7	534	241,50	1,14		SG42	SMB	80A4				
6.3	492	219,69	1,23		SG42	SMB	80A4				
6.8	463	201,00	1,31		SG42	SMB	80A4				
7.3	439	189,00	1,38		SG42	SMB	80A4				
8.0	401	171,23	1,52		SG42	SMB	80A4				
9.1	364	150,50	1,67		SG42	SMB	80A4				
10	336	131,25	1,81		SG42	SMR	80A4				
11	306	121,06	1,99		SG42	SMR	80A4				
12	285	112,00	2,13		SG42	SMR	80A4				
14	248	96,60	2,45		SG42	SMR	80A4				
15	231	92,08	2,63		SG42	SMR	80A4				
17	207	82,50	2,93		SG42	SMR	80A4				
20	179	70,45	3,40		SG42	SMR	80A4				
23	155	60,53	3,91		SG42	SMR	80A4				
26	139	52,22	4,35		SG42	SMR	80A4				
14	304	101,27	2,51		SG42	SMB	80A4				
15	287	91,12	2,63		SG42	SMB	80A4				
16	269	84,39	2,79		SG42	SMB	80A4				
18	242	77,10	3,08		SG42	SMB	80A4				
21	210	65,76	3,50		SG42	SMB	80A4				
23	192	59,42	3,79		SG42	SMB	80A4				
25	179	54,05	4,03		SG42	SMB	80A4				
28	159	49,45	4,46		SG42	SMB	80A4				
6.6	462	209,44	0,99		SG33	SMR	80A4			30	524
7.4	419	185,50	1,09		SG33	SMR	80A4				
6.8	448	201,25	1,02		SG32	SMB	80A4			28	522
7.5	413	183,08	1,11		SG32	SMB	80A4				
8.2	384	167,50	1,19		SG32	SMB	80A4				
8.7	368	157,50	1,24		SG32	SMB	80A4				
9.6	334	142,69	1,37		SG32	SMB	80A4				
11	301	125,42	1,52		SG32	SMB	80A4				
13	259	109,38	1,77		SG32	SMR	80A4				
14	240	100,88	1,91		SG32	SMR	80A4				
15	228	93,33	2,01		SG32	SMR	80A4				
17	204	80,50	2,25		SG32	SMR	80A4				
18	193	76,73	2,38		SG32	SMR	80A4				
20	176	68,75	2,60		SG32	SMR	80A4				
23	155	58,71	2,88		SG32	SMR	80A4				
27	132	50,44	3,24		SG32	SMR	80A4				
32	113	43,51	3,59		SG32	SMR	80A4				
38	97	35,85	3,92		SG32	SMR	80A4				
16	266	84,93	1,82		SG32	SMB	80A4				
18	239	76,42	2,01		SG32	SMB	80A4				


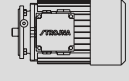



P	n ₂	Mt ₂	i	f _b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
0,55	19	227	70,78	2,11		SG32	SMB	80A4	28	522
	21	208	64,67	2,29		SG32	SMB	80A4		
	25	176	55,15	2,65		SG32	SMB	80A4		
	28	158	49,83	2,94		SG32	SMB	80A4		
	30	149	45,33	3,08		SG32	SMB	80A4		
	33	135	41,48	3,35		SG32	SMB	80A4		
	35	128	39,00	3,52		SG32	SMB	80A4		
	39	116	35,33	3,82		SG32	SMB	80A4		
	44	103	31,06	4,23		SG32	SMB	80A4		
	19	191	71,78	1,16		SG22	SMR	80A4		
	21	175	64,60	1,25		SG22	SMR	80A4		
	23	160	59,92	1,35		SG22	SMR	80A4		
	27	138	51,57	1,52		SG22	SMR	80A4		
	36	107	38,00	1,82		SG22	SMR	80A4		
	17	247	83,20	1,08		SG22	SMB	80A4		
	18	236	76,61	1,13		SG22	SMB	80A4		
	20	213	69,33	1,25		SG22	SMB	80A4		
	22	196	61,54	1,34		SG22	SMB	80A4		
	26	168	53,33	1,55		SG22	SMB	80A4		
	29	152	48,00	1,70		SG22	SMB	80A4		
32	138	43,49	1,85	SG22	SMB	80A4				
35	128	39,62	1,98	SG22	SMB	80A4				
39	114	35,56	2,18	SG22	SMB	80A4				
41	109	33,64	2,28	SG22	SMB	80A4				
47	96	29,33	2,53	SG22	SMB	80A4				
54	85	25,33	2,81	SG22	SMR	80A4				
61	75	22,59	3,12	SG22	SMR	80A4				
68	68	20,15	3,37	SG22	SMR	80A4				
76	61	18,13	3,68	SG22	SMR	80A4				
82	56	16,82	3,96	SG22	SMR	80A4				
95	49	14,48	4,33	SG22	SMR	80A4				
36	107	38,00	1,25	SG12	SMR	80A4	16	518		
36	124	38,33	1,06	SG12	SMB	80A4				
40	113	34,50	1,16	SG12	SMB	80A4				
44	103	31,26	1,27	SG12	SMB	80A4				
48	94	28,48	1,37	SG12	SMB	80A4				
54	85	25,56	1,50	SG12	SMB	80A4				
57	80	24,18	1,58	SG12	SMB	80A4				
65	71	21,08	1,74	SG12	SMB	80A4				
76	61	18,21	2,01	SG12	SMR	80A4				
85	54	16,24	2,21	SG12	SMR	80A4				
95	49	14,48	2,38	SG12	SMR	80A4				
105	45	13,03	2,58	SG12	SMR	80A4				
114	41	12,09	2,68	SG12	SMR	80A4				
132	36	10,40	3,02	SG12	SMR	80A4				
159	30	8,66	3,46	SG12	SMR	80A4				
179	27	7,67	3,78	SG12	SMR	80A4				
0,75	3.8	1187	365,50	0,95	SG63	SMR	80B4	55	536	






P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
0,75	3.8	1187	363,55	0,95	SG62	SMB	80B4	
	4.2	1074	329,67	1,05	SG62	SMB	80B4	
	4.5	1019	307,62	1,11	SG62	SMB	80B4	
	4.9	950	279,50	1,19	SG62	SMB	80B4	
	5.4	875	254,42	1,29	SG62	SMB	80B4	
	5.9	813	231,54	1,39	SG62	SMB	80B4	
	6.7	727	204,25	1,56	SG62	SMB	80B4	
	7.4	668	185,44	1,69	SG62	SMR	80B4	
	8.1	610	169,47	1,85	SG62	SMR	80B4	
	8.6	583	160,06	1,94	SG62	SMR	80B4	51
	9.8	519	139,75	2,18	SG62	SMR	80B4	534
	11	469	124,22	2,41	SG62	SMR	80B4	
	11	553	120,24	2,26	SG62	SMB	80B4	
	13	468	109,36	2,65	SG62	SMB	80B4	
	14	440	101,74	2,81	SG62	SMB	80B4	
	16	385	87,36	3,17	SG62	SMB	80B4	
	17	367	79,22	3,30	SG62	SMB	80B4	
	19	328	73,92	3,67	SG62	SMB	80B4	
	20	315	67,17	3,79	SG62	SMB	80B4	
	22	287	61,14	4,12	SG62	SMB	80B4	
	4.4	1009	314,50	0,96	SG53	SMR	80B4	47
	4.4	1009	312,82	0,96	SG52	SMB	80B4	
	4.8	940	283,67	1,04	SG52	SMB	80B4	
	5.2	882	264,69	1,10	SG52	SMB	80B4	
	5.7	817	240,50	1,19	SG52	SMB	80B4	
	6.3	750	218,92	1,30	SG52	SMB	80B4	
	6.9	685	199,23	1,42	SG52	SMB	80B4	
	7.8	624	175,75	1,56	SG52	SMB	80B4	
	8.6	566	159,56	1,72	SG52	SMR	80B4	
	9.4	526	145,82	1,85	SG52	SMR	80B4	
	10.0	501	137,72	1,94	SG52	SMR	80B4	
	11	456	120,25	2,13	SG52	SMR	80B4	44
	13	391	106,89	2,46	SG52	SMR	80B4	530
	13	463	104,73	2,05	SG52	SMB	80B4	
	14	435	95,25	2,17	SG52	SMB	80B4	
	16	381	88,62	2,47	SG52	SMB	80B4	
	18	342	76,09	2,71	SG52	SMB	80B4	
	20	308	69,00	2,99	SG52	SMB	80B4	
	21	297	64,38	3,08	SG52	SMB	80B4	
	24	260	58,50	3,50	SG52	SMB	80B4	
	26	242	53,25	3,70	SG52	SMB	80B4	
	28	225	48,46	3,94	SG52	SMB	80B4	
	32	199	42,75	4,38	SG52	SMB	80B4	
	6.8	632	201,00	0,96	SG42	SMB	80B4	
	7.3	599	189,00	1,01	SG42	SMB	80B4	
	8.0	546	171,23	1,11	SG42	SMB	80B4	33
	9.1	496	150,50	1,22	SG42	SMB	80B4	526
	10	458	131,25	1,32	SG42	SMR	80B4	


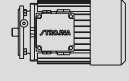



P	n ₂	Mt ₂	i	f _b			m					
[kW]	[min ⁻¹]	[Nm]					[kg]					
0,75	11	417	121,06	1,46	SG42	SMR	80B4	33	526			
	12	388	112,00	1,56		SMR	80B4					
	15	315	92,08	1,93		SMR	80B4					
	17	282	82,50	2,15		SMR	80B4					
	20	244	70,45	2,49		SMR	80B4					
	23	212	60,53	2,87		SMR	80B4					
	26	190	52,22	3,19		SMR	80B4					
	32	157	43,02	3,87		SMR	80B4					
	14	414	101,27	1,84		SMB	80B4					
	15	392	91,12	1,93		SMB	80B4					
	16	367	84,39	2,05		SMB	80B4					
	18	330	77,10	2,26		SMB	80B4					
	21	287	65,76	2,57		SMB	80B4					
	25	244	54,05	2,95		SMB	80B4					
	28	217	49,45	3,27		SMB	80B4					
	30	203	46,50	3,47		SMB	80B4					
	33	187	42,13	3,73		SMB	80B4					
	37	166	37,03	4,09		SMB	80B4					
	9.6	455	142,69	1,01		SG32	SMB			80B4	29	522
	11	410	125,42	1,12		SG32	SMB			80B4		
	13	353	109,38	1,30		SG32	SMR			80B4		
	14	327	100,88	1,40		SG32	SMR			80B4		
	15	310	93,33	1,48		SG32	SMR			80B4		
	17	278	80,50	1,65		SG32	SMR			80B4		
	18	263	76,73	1,74		SG32	SMR			80B4		
	20	240	68,75	1,91		SG32	SMR			80B4		
	23	212	58,71	2,12		SG32	SMR			80B4		
	27	180	50,44	2,37		SG32	SMR			80B4		
	32	154	43,51	2,64		SG32	SMR			80B4		
	38	132	35,85	2,87		SG32	SMR			80B4		
	16	363	84,93	1,34		SG32	SMB			80B4		
	19	309	70,78	1,55		SG32	SMB			80B4		
	21	283	64,67	1,68		SG32	SMB			80B4		
	25	241	55,15	1,94		SG32	SMB			80B4		
	28	215	49,83	2,15		SG32	SMB			80B4		
	30	203	45,33	2,26		SG32	SMB			80B4		
	33	184	41,48	2,46		SG32	SMB			80B4		
35	174	39,00	2,58	SG32	SMB	80B4						
39	158	35,33	2,80	SG32	SMB	80B4						
44	140	31,06	3,10	SG32	SMB	80B4						
51	122	27,08	3,46	SG32	SMR	80B4						
55	113	24,98	3,68	SG32	SMR	80B4						
59	107	23,11	3,84	SG32	SMR	80B4						
69	91	19,93	4,35	SG32	SMR	80B4						
72	88	19,00	4,48	SG32	SMR	80B4						
23	218	59,92	0,99	SG22	SMR	80B4	21	520				
27	188	51,57	1,11	SG22	SMR	80B4						
36	145	38,00	1,34	SG22	SMR	80B4						






P	n ₂	Mt ₂	i	f _B			m					
[kW]	[min ⁻¹]	[Nm]					[kg]					
0,75	22	267	61,54	0,99		SG22	SMB	80B4	21	520		
	26	229	53,33	1,14		SG22	SMB	80B4				
	29	207	48,00	1,24		SG22	SMB	80B4				
	32	188	43,49	1,36		SG22	SMB	80B4				
	35	174	39,62	1,45		SG22	SMB	80B4				
	39	156	35,56	1,60		SG22	SMB	80B4				
	41	148	33,64	1,67		SG22	SMB	80B4				
	47	131	29,33	1,85		SG22	SMB	80B4				
	54	115	25,33	2,06		SG22	SMR	80B4				
	61	102	22,59	2,29		SG22	SMR	80B4				
	68	93	20,15	2,47		SG22	SMR	80B4				
	76	83	18,13	2,70		SG22	SMR	80B4				
	82	77	16,82	2,90		SG22	SMR	80B4				
	95	67	14,48	3,17		SG22	SMR	80B4				
	114	56	12,04	3,61		SG22	SMR	80B4				
	129	49	10,67	3,95		SG22	SMR	80B4				
	48	128	28,48	1,01		SG12	SMB	80B4			17	518
	54	115	25,56	1,10		SG12	SMB	80B4				
	57	109	24,18	1,16		SG12	SMB	80B4				
65	97	21,08	1,28	SG12	SMB	80B4						
76	83	18,21	1,47	SG12	SMR	80B4						
85	74	16,24	1,62	SG12	SMR	80B4						
95	67	14,48	1,74	SG12	SMR	80B4						
105	61	13,03	1,89	SG12	SMR	80B4						
114	57	12,09	1,96	SG12	SMR	80B4						
132	49	10,40	2,21	SG12	SMR	80B4						
159	41	8,66	2,54	SG12	SMR	80B4						
179	36	7,67	2,77	SG12	SMR	80B4						
1,10	6.1	1154	231,54	0,98		SG62	SMB	90S4	55	534		
	6.9	1035	204,25	1,09		SG62	SMB	90S4				
	7.6	954	185,44	1,19		SG62	SMB	90S4				
	8.3	873	169,47	1,30		SG62	SMB	90S4				
	8.8	836	160,06	1,35		SG62	SMR	90S4				
	10	746	139,75	1,52		SG62	SMR	90S4				
	11	688	124,22	1,64		SG62	SMR	90S4				
	12	630	113,16	1,79		SG62	SMR	90S4				
	14	548	98,29	2,06		SG62	SMR	90S4				
	16	486	86,00	2,33		SG62	SMR	90S4				
	13	687	109,36	1,81		SG62	SMB	90S4				
	18	508	79,22	2,39		SG62	SMB	90S4				
	19	481	73,92	2,50		SG62	SMB	90S4				
	21	440	67,17	2,71		SG62	SMB	90S4				
	23	402	61,14	2,94		SG62	SMB	90S4				
	25	370	55,64	3,16		SG62	SMB	90S4				
	29	322	49,08	3,57		SG62	SMB	90S4				
	32	292	44,56	3,88		SG62	SMB	90S4				
	35	267	40,73	4,19		SG62	SMB	90S4				
	37	256	38,46	4,34		SG62	SMR	90S4				


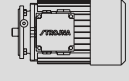



P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
1,10	7.1	977	199,23	1,00	SG52	SMB	90S4	
	8.0	893	175,75	1,09	SG52	SMB	90S4	
	8.8	812	159,56	1,20	SG52	SMB	90S4	
	9.7	747	145,82	1,30	SG52	SMB	90S4	
	10	735	137,72	1,32	SG52	SMR	90S4	
	12	613	120,25	1,59	SG52	SMR	90S4	
	13	574	106,89	1,67	SG52	SMR	90S4	
	14	540	97,37	1,75	SG52	SMR	90S4	
	17	451	84,57	2,03	SG52	SMR	90S4	
	19	404	74,00	2,20	SG52	SMR	90S4	
	15	595	95,25	1,58	SG52	SMB	90S4	48
	16	558	88,62	1,68	SG52	SMB	90S4	530
	20	452	69,00	2,04	SG52	SMB	90S4	
	22	415	64,38	2,20	SG52	SMB	90S4	
	24	381	58,50	2,38	SG52	SMB	90S4	
	26	356	53,25	2,52	SG52	SMB	90S4	
	29	319	48,46	2,78	SG52	SMB	90S4	
	33	283	42,75	3,08	SG52	SMB	90S4	
	36	260	38,81	3,32	SG52	SMB	90S4	
	40	234	35,47	3,64	SG52	SMB	90S4	
	42	223	33,50	3,78	SG52	SMR	90S4	
	48	197	29,25	4,17	SG52	SMR	90S4	
	11	611	131,25	0,99	SG42	SMB	90S4	
	12	560	121,06	1,08	SG42	SMB	90S4	
	13	525	112,00	1,16	SG42	SMR	90S4	
	15	462	96,60	1,31	SG42	SMR	90S4	
	15	462	92,08	1,31	SG42	SMR	90S4	
	20	357	70,45	1,70	SG42	SMR	90S4	
	23	311	60,53	1,95	SG42	SMR	90S4	
	27	268	52,22	2,26	SG42	SMR	90S4	
	33	223	43,02	2,72	SG42	SMR	90S4	
	17	507	84,39	1,48	SG42	SMB	90S4	
	18	484	77,10	1,54	SG42	SMB	90S4	
	21	420	65,76	1,75	SG42	SMB	90S4	37
	24	368	59,42	1,98	SG42	SMB	90S4	526
	26	343	54,05	2,09	SG42	SMB	90S4	
	29	308	49,45	2,31	SG42	SMB	90S4	
	30	298	46,50	2,37	SG42	SMB	90S4	
	38	238	37,03	2,86	SG42	SMB	90S4	
	44	208	32,29	3,20	SG42	SMB	90S4	
	47	194	29,78	3,37	SG42	SMB	90S4	
	51	179	27,56	3,60	SG42	SMR	90S4	
	59	157	23,77	3,98	SG42	SMR	90S4	
	62	149	22,65	4,13	SG42	SMR	90S4	
	69	134	20,30	4,47	SG42	SMR	90S4	
	14	480	100,88	0,95	SG32	SMB	90S4	
	15	455	93,33	1,01	SG32	SMR	90S4	33
	18	385	80,50	1,19	SG32	SMR	90S4	522


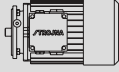



P	n ₂	Mt ₂	i	f _B			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
1,10	18	385	76,73	1,19	SG32	SMR	90S4		
	21	335	68,75	1,37	SG32	SMR	90S4		
	24	298	58,71	1,51	SG32	SMR	90S4		
	28	255	50,44	1,68	SG32	SMR	90S4		
	32	227	43,51	1,80	SG32	SMR	90S4		
	39	189	35,85	2,01	SG32	SMR	90S4		
	20	431	70,78	1,11	SG32	SMB	90S4		
	22	396	64,67	1,20	SG32	SMB	90S4		
	26	339	55,15	1,38	SG32	SMB	90S4		
	31	288	45,33	1,59	SG32	SMB	90S4		
	34	263	41,48	1,72	SG32	SMB	90S4	33	522
	36	248	39,00	1,81	SG32	SMB	90S4		
	40	226	35,33	1,96	SG32	SMB	90S4		
	45	201	31,06	2,16	SG32	SMB	90S4		
	52	176	27,08	2,41	SG32	SMB	90S4		
	56	163	24,98	2,56	SG32	SMB	90S4		
	61	152	23,11	2,71	SG32	SMR	90S4		
	71	130	19,93	3,05	SG32	SMR	90S4		
	74	125	19,00	3,14	SG32	SMR	90S4		
	83	111	17,02	3,42	SG32	SMR	90S4		
97	96	14,54	3,79	SG32	SMR	90S4			
113	83	12,49	4,21	SG32	SMR	90S4			
36	248	39,62	1,02	SG22	SMB	90S4			
40	223	35,56	1,12	SG22	SMB	90S4			
42	213	33,64	1,17	SG22	SMB	90S4			
48	188	29,33	1,29	SG22	SMB	90S4			
56	163	25,33	1,46	SG22	SMB	90S4			
62	147	22,59	1,59	SG22	SMB	90S4	25	520	
70	132	20,15	1,73	SG22	SMR	90S4			
78	119	18,13	1,89	SG22	SMR	90S4			
84	110	16,82	2,03	SG22	SMR	90S4			
97	96	14,48	2,21	SG22	SMR	90S4			
117	80	12,04	2,53	SG22	SMR	90S4			
132	71	10,67	2,75	SG22	SMR	90S4			
77	120	18,21	1,02	SG12	SMB	90S4			
87	106	16,24	1,13	SG12	SMB	90S4			
97	96	14,48	1,21	SG12	SMR	90S4			
108	87	13,03	1,33	SG12	SMR	90S4	21	518	
117	81	12,09	1,37	SG12	SMR	90S4			
136	70	10,40	1,55	SG12	SMR	90S4			
163	59	8,66	1,77	SG12	SMR	90S4			
184	52	7,67	1,94	SG12	SMR	90S4			
1,50	8.8	1139	160,06	0,99	SG62	SMR	90L4		
	10	1017	139,75	1,11	SG62	SMR	90L4		
	11	938	124,22	1,21	SG62	SMR	90L4	58	534
	12	860	113,16	1,32	SG62	SMR	90L4		
	14	747	98,29	1,51	SG62	SMR	90L4		
	16	663	86,00	1,71	SG62	SMR	90L4		


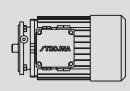



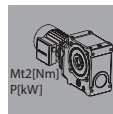
P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
1,50	13	937	109,36	1,32	SG62	SMB	90L4	
	14	880	101,74	1,40	SG62	SMB	90L4	
	16	770	87,36	1,59	SG62	SMB	90L4	
	18	692	79,22	1,75	SG62	SMB	90L4	
	19	656	73,92	1,84	SG62	SMB	90L4	
	21	600	67,17	1,99	SG62	SMB	90L4	
	23	548	61,14	2,15	SG62	SMB	90L4	
	25	504	55,64	2,32	SG62	SMB	90L4	58
	29	440	49,08	2,62	SG62	SMB	90L4	534
	32	398	44,56	2,85	SG62	SMB	90L4	
	34	375	40,73	2,98	SG62	SMB	90L4	
	37	348	38,46	3,18	SG62	SMR	90L4	
	42	307	33,58	3,53	SG62	SMR	90L4	
	47	274	29,85	3,86	SG62	SMR	90L4	
	52	251	27,19	4,14	SG62	SMR	90L4	
	10	1003	137,72	0,97	SG52	SMR	90L4	
	12	836	120,25	1,16	SG52	SMR	90L4	
	13	782	106,89	1,23	SG52	SMR	90L4	
	14	737	97,37	1,28	SG52	SMR	90L4	
	17	615	84,57	1,49	SG52	SMR	90L4	
	19	550	74,00	1,61	SG52	SMR	90L4	
	15	812	95,25	1,16	SG52	SMB	90L4	
	16	761	88,62	1,23	SG52	SMB	90L4	
	18	684	76,09	1,35	SG52	SMB	90L4	
	20	616	69,00	1,49	SG52	SMB	90L4	
	22	566	64,38	1,61	SG52	SMB	90L4	
	24	519	58,50	1,75	SG52	SMB	90L4	51
	26	485	53,25	1,85	SG52	SMB	90L4	530
	29	435	48,46	2,04	SG52	SMB	90L4	
	33	386	42,75	2,26	SG52	SMB	90L4	
	36	354	38,81	2,43	SG52	SMB	90L4	
	40	319	35,47	2,67	SG52	SMB	90L4	
	42	304	33,50	2,77	SG52	SMR	90L4	
	48	269	29,25	3,06	SG52	SMR	90L4	
	54	239	26,00	3,37	SG52	SMR	90L4	
	59	219	23,68	3,61	SG52	SMR	90L4	
	68	192	20,57	3,98	SG52	SMR	90L4	
	78	167	18,00	4,42	SG52	SMR	90L4	
	15	630	92,08	0,96	SG42	SMR	90L4	
	17	565	82,50	1,08	SG42	SMR	90L4	
	20	487	70,45	1,25	SG42	SMR	90L4	
	23	424	60,53	1,43	SG42	SMR	90L4	
	27	366	52,22	1,66	SG42	SMR	90L4	
	33	304	43,02	2,00	SG42	SMR	90L4	40
	17	691	84,39	1,09	SG42	SMB	90L4	526
	18	661	77,10	1,13	SG42	SMB	90L4	
	21	573	65,76	1,28	SG42	SMB	90L4	
	24	501	59,42	1,45	SG42	SMB	90L4	


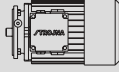



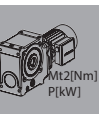
P	n ₂	Mt ₂	i	f _B			m				
[kW]	[min ⁻¹]	[Nm]					[kg]				
1,50	26	468	54,05	1,54		SG42	SMB	90L4			
	28	435	49,45	1,63		SG42	SMB	90L4			
	30	406	46,50	1,74		SG42	SMB	90L4			
	33	373	42,13	1,86		SG42	SMB	90L4			
	38	324	37,03	2,10		SG42	SMB	90L4			
	44	283	32,29	2,35		SG42	SMB	90L4			
	47	265	29,78	2,47		SG42	SMB	90L4			
	51	244	27,56	2,64		SG42	SMR	90L4		40	526
	59	214	23,77	2,92		SG42	SMR	90L4			
	62	203	22,65	3,03		SG42	SMR	90L4			
	69	183	20,30	3,28		SG42	SMR	90L4			
	81	157	17,33	3,64		SG42	SMR	90L4			
	94	136	14,89	4,03		SG42	SMR	90L4			
	109	117	12,85	4,44		SG42	SMR	90L4			
	25	481	55,15	0,97		SG32	SMB	90L4			
	28	430	49,83	1,08		SG32	SMB	90L4			
	31	393	45,33	1,17		SG32	SMB	90L4			
	34	358	41,48	1,26		SG32	SMB	90L4			
	36	338	39,00	1,33		SG32	SMB	90L4			
	40	308	35,33	1,44		SG32	SMB	90L4			
	45	274	31,06	1,59		SG32	SMB	90L4			
	52	240	27,08	1,76		SG32	SMB	90L4			
	56	223	24,98	1,87		SG32	SMB	90L4		36	522
	61	207	23,11	1,98		SG32	SMR	90L4			
	70	180	19,93	2,20		SG32	SMR	90L4			
	74	170	19,00	2,30		SG32	SMR	90L4			
	83	152	17,02	2,51		SG32	SMR	90L4			
	97	131	14,54	2,78		SG32	SMR	90L4			
	112	114	12,49	3,06		SG32	SMR	90L4			
	130	98	10,77	3,36		SG32	SMR	90L4			
	158	82	8,88	3,75		SG32	SMR	90L4			
	55	227	25,33	1,05		SG22	SMB	90L4			
	62	201	22,59	1,16		SG22	SMB	90L4			
	70	180	20,15	1,27		SG22	SMR	90L4			
	77	164	18,13	1,37		SG22	SMR	90L4			
84	150	16,82	1,49	SG22	SMR	90L4	27	520			
97	131	14,48	1,62	SG22	SMR	90L4					
117	109	12,04	1,85	SG22	SMR	90L4					
132	97	10,67	2,02	SG22	SMR	90L4					
2,20	14	1096	98,29	1,03	SG62	SMR	100L4				
	16	972	86,00	1,16	SG62	SMR	100L4				
	20	788	71,12	1,39	SG62	SMR	100L4				
	24	665	59,31	1,55	SG62	SMR	100L4				
	28	570	49,72	1,70	SG62	SMR	100L4	63	534		
	32	506	44,23	1,84	SG62	SMR	100L4				
	18	1015	79,22	1,19	SG62	SMB	100L4				
	19	962	73,92	1,25	SG62	SMB	100L4				
	21	880	67,17	1,36	SG62	SMB	100L4				






P	n ₂	Mt ₂	i	f _b			m	
[kW]	[min ⁻¹]	[Nm]					[kg]	
2,20	23	804	61,14	1,47	SG62	SMB	100L4	
	25	740	55,64	1,58	SG62	SMB	100L4	
	29	645	49,08	1,78	SG62	SMB	100L4	
	32	584	44,56	1,94	SG62	SMB	100L4	
	35	534	40,73	2,09	SG62	SMB	100L4	
	37	511	38,46	2,17	SG62	SMB	100L4	
	42	450	33,58	2,41	SG62	SMR	100L4	63
	47	402	29,85	2,63	SG62	SMR	100L4	534
	52	368	27,19	2,82	SG62	SMR	100L4	
	60	319	23,62	3,15	SG62	SMR	100L4	
	68	281	20,67	3,46	SG62	SMR	100L4	
	83	233	17,09	3,95	SG62	SMR	100L4	
	99	195	14,25	4,44	SG62	SMR	100L4	
	17	902	84,57	1,01	SG52	SMR	100L4	
	19	807	74,00	1,10	SG52	SMR	100L4	
	23	676	61,19	1,25	SG52	SMR	100L4	
	28	563	51,03	1,42	SG52	SMR	100L4	
	33	484	42,78	1,55	SG52	SMR	100L4	
	37	432	38,06	1,66	SG52	SMR	100L4	
	20	903	69,00	1,02	SG52	SMB	100L4	
	22	831	64,38	1,10	SG52	SMB	100L4	
	24	762	58,50	1,19	SG52	SMB	100L4	
	26	711	53,25	1,26	SG52	SMB	100L4	
	29	638	48,46	1,39	SG52	SMB	100L4	
	33	567	42,75	1,54	SG52	SMB	100L4	56
	36	519	38,81	1,66	SG52	SMB	100L4	530
	40	467	35,47	1,82	SG52	SMB	100L4	
	42	445	33,50	1,89	SG52	SMB	100L4	
	48	394	29,25	2,09	SG52	SMR	100L4	
	54	350	26,00	2,30	SG52	SMR	100L4	
	60	315	23,68	2,50	SG52	SMR	100L4	
	69	277	20,57	2,75	SG52	SMR	100L4	
	78	245	18,00	3,01	SG52	SMR	100L4	
	95	201	14,88	3,47	SG52	SMR	100L4	
	114	170	12,41	3,88	SG52	SMR	100L4	
	135	143	10,41	4,31	SG52	SMR	100L4	
	24	735	59,42	0,99	SG42	SMB	100L4	
	26	687	54,05	1,05	SG42	SMB	100L4	
	29	616	49,45	1,15	SG42	SMB	100L4	
	30	595	46,50	1,18	SG42	SMB	100L4	
	33	548	42,13	1,27	SG42	SMB	100L4	
	38	475	37,03	1,43	SG42	SMB	100L4	
	44	415	32,29	1,60	SG42	SMB	100L4	45
	47	389	29,78	1,68	SG42	SMB	100L4	526
	51	358	27,56	1,80	SG42	SMB	100L4	
	59	313	23,77	1,99	SG42	SMR	100L4	
	62	298	22,65	2,07	SG42	SMR	100L4	
	69	268	20,30	2,24	SG42	SMR	100L4	






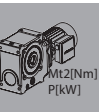
P	n ₂	Mt ₂	i	f _B			m							
[kW]	[min ⁻¹]	[Nm]					[kg]							
2,20	81	231	17,33	2,48	SG42	SMR	100L4	45	526					
	95	197	14,89	2,77										
	110	170	12,85	3,05										
	133	142	10,59	3,48										
	40	452	35,33	0,98	SG32	SMB	100L4	41	522					
	45	402	31,06	1,08										
	52	352	27,08	1,20										
	56	326	24,98	1,28										
	61	303	23,11	1,35										
	71	260	19,93	1,52										
	74	250	19,00	1,57										
	83	223	17,02	1,71										
	97	193	14,54	1,89										
	113	165	12,49	2,10										
131	143	10,77	2,31											
159	119	8,88	2,57											
3,00	20	1074	71,12	1,02						SG62	SMR	100Ld4	65	534
	24	907	59,31	1,14										
	28	778	49,72	1,25										
	32	689	44,23	1,35										
	21	1201	67,17	0,99										
	23	1096	61,14	1,08										
	25	1008	55,64	1,16										
	29	879	49,08	1,31										
	32	797	44,56	1,42										
	35	729	40,73	1,54										
	37	697	38,46	1,59										
	42	614	33,58	1,76										
	47	549	29,85	1,93										
	52	501	27,19	2,07										
	60	435	23,62	2,31										
	68	383	20,67	2,54										
	83	318	17,09	2,90										
	99	266	14,25	3,26										
	118	223	11,95	3,64										
	133	198	10,63	3,91										
	29	869	48,46	1,02	SG52	SMB	100Ld4	58	530					
	33	773	42,75	1,13										
	36	708	38,81	1,22										
	40	637	35,47	1,33										
	42	607	33,50	1,39										
	48	537	29,25	1,53										
	54	478	26,00	1,68										
	60	430	23,68	1,83										
	69	378	20,57	2,02										
	78	334	18,00	2,21										
	95	274	14,88	2,54										
	114	231	12,41	2,85										



P	n_2	Mt_2	i	f_b			m			
[kW]	[min ⁻¹]	[Nm]					[kg]			
3,00	135	195	10,41	3,16	SG52	SMR 100Ld4	58	530		
	152	173	9,26	3,40	SG52	SMR 100Ld4				
	38	648	37,03	1,05	SG42	SMB 100Ld4	47	526		
	44	566	32,29	1,17	SG42	SMB 100Ld4				
	47	530	29,78	1,24	SG42	SMB 100Ld4				
	51	489	27,56	1,32	SG42	SMB 100Ld4				
	59	427	23,77	1,46	SG42	SMR 100Ld4				
	62	407	22,65	1,51	SG42	SMR 100Ld4				
	69	365	20,30	1,64	SG42	SMR 100Ld4				
	81	315	17,33	1,82	SG42	SMR 100Ld4				
	95	268	14,89	2,03	SG42	SMR 100Ld4				
	110	232	12,85	2,24	SG42	SMR 100Ld4				
	133	194	10,59	2,55	SG42	SMR 100Ld4				
	61	413	23,11	0,99	SG32	SMB 100Ld4			43	522
	71	355	19,93	1,12	SG32	SMR 100Ld4				
	74	341	19,00	1,15	SG32	SMR 100Ld4				
	83	304	17,02	1,25	SG32	SMR 100Ld4				
	97	263	14,54	1,39	SG32	SMR 100Ld4				
	113	226	12,49	1,54	SG32	SMR 100Ld4				
	131	195	10,77	1,70	SG32	SMR 100Ld4				
159	162	8,88	1,89	SG32	SMR 100Ld4					
4,00	29	1001	49,72	0,97	SG62	SMR 112M4	70	534		
	32	919	44,23	1,01	SG62	SMR 112M4				
	29	1172	49,08	0,98	SG62	SMB 112M4				
	32	1062	44,56	1,07	SG62	SMB 112M4				
	35	971	40,73	1,15	SG62	SMB 112M4				
	37	929	38,46	1,19	SG62	SMB 112M4				
	42	819	33,58	1,32	SG62	SMR 112M4				
	48	716	29,85	1,48	SG62	SMR 112M4				
	52	669	27,19	1,55	SG62	SMR 112M4				
	60	579	23,62	1,73	SG62	SMR 112M4				
	69	504	20,67	1,93	SG62	SMR 112M4				
	83	423	17,09	2,17	SG62	SMR 112M4				
	100	351	14,25	2,47	SG62	SMR 112M4				
	119	295	11,95	2,75	SG62	SMR 112M4				
	134	262	10,63	2,95	SG62	SMR 112M4				
	40	850	35,47	1,00	SG52	SMB 112M4			63	530
	42	809	33,50	1,04	SG52	SMB 112M4				
	49	702	29,25	1,17	SG52	SMR 112M4				
	55	625	26,00	1,29	SG52	SMR 112M4				
	60	573	23,68	1,38	SG52	SMR 112M4				
	69	504	20,57	1,51	SG52	SMR 112M4				
	79	440	18,00	1,68	SG52	SMR 112M4				
	95	366	14,88	1,91	SG52	SMR 112M4				
	114	308	12,41	2,13	SG52	SMR 112M4				
	136	258	10,41	2,39	SG52	SMR 112M4				
	153	230	9,26	2,56	SG52	SMR 112M4				
	52	639	27,56	1,01	SG42	SMB 112M4	52	526		



P	n ₂	Mt ₂	i	f _B			m		
[kW]	[min ⁻¹]	[Nm]					[kg]		
4,00	60	560	23,77	1,11		SG42	SMR 112M4	52	526
	63	534	22,65	1,15		SG42	SMR 112M4		
	70	480	20,30	1,25		SG42	SMR 112M4		
	82	415	17,33	1,38		SG42	SMR 112M4		
	95	358	14,89	1,53		SG42	SMR 112M4		
	111	306	12,85	1,69		SG42	SMR 112M4		
	134	257	10,59	1,93		SG42	SMR 112M4		
5,50	43	1099	33,58	0,99		SG62	SMB 132S4	95	534
	49	965	29,85	1,10		SG62	SMB 132S4		
	53	902	27,19	1,15		SG62	SMB 132S4		
	61	784	23,62	1,28		SG62	SMR 132S4		
	70	683	20,67	1,42		SG62	SMR 132S4		
	85	569	17,09	1,62		SG62	SMR 132S4		
	102	474	14,25	1,83		SG62	SMR 132S4		
	121	399	11,95	2,04		SG62	SMR 132S4		
	136	355	10,63	2,18		SG62	SMR 132S4		
	56	844	26,00	0,95		SG52	SMB 132S4		
	61	775	23,68	1,02		SG52	SMB 132S4		
	70	683	20,57	1,12		SG52	SMR 132S4		
	81	590	18,00	1,25		SG52	SMR 132S4		
	97	493	14,88	1,42		SG52	SMR 132S4		
	117	413	12,41	1,59		SG52	SMR 132S4		
	139	348	10,41	1,77		SG52	SMR 132S4		
	157	308	9,26	1,91		SG52	SMR 132S4		
7,50	70	931	20,67	1,04		SG62	SMR 132M4	106	534
	85	775	17,09	1,19		SG62	SMR 132M4		
	102	646	14,25	1,34		SG62	SMR 132M4		
	121	545	11,95	1,49		SG62	SMR 132M4		
	136	485	10,63	1,60		SG62	SMR 132M4		
	97	672	14,88	1,04		SG52	SMR 132M4		
	117	563	12,41	1,17		SG52	SMR 132M4		
	139	474	10,41	1,30		SG52	SMR 132M4		
	157	420	9,26	1,40		SG52	SMR 132M4		
	9,20	84	962	17,09		0,96			
101		800	14,25	1,08	SG62	SMR 132Ma4			
121		668	11,95	1,22	SG62	SMR 132Ma4			
135		599	10,63	1,29	SG62	SMR 132Ma4			

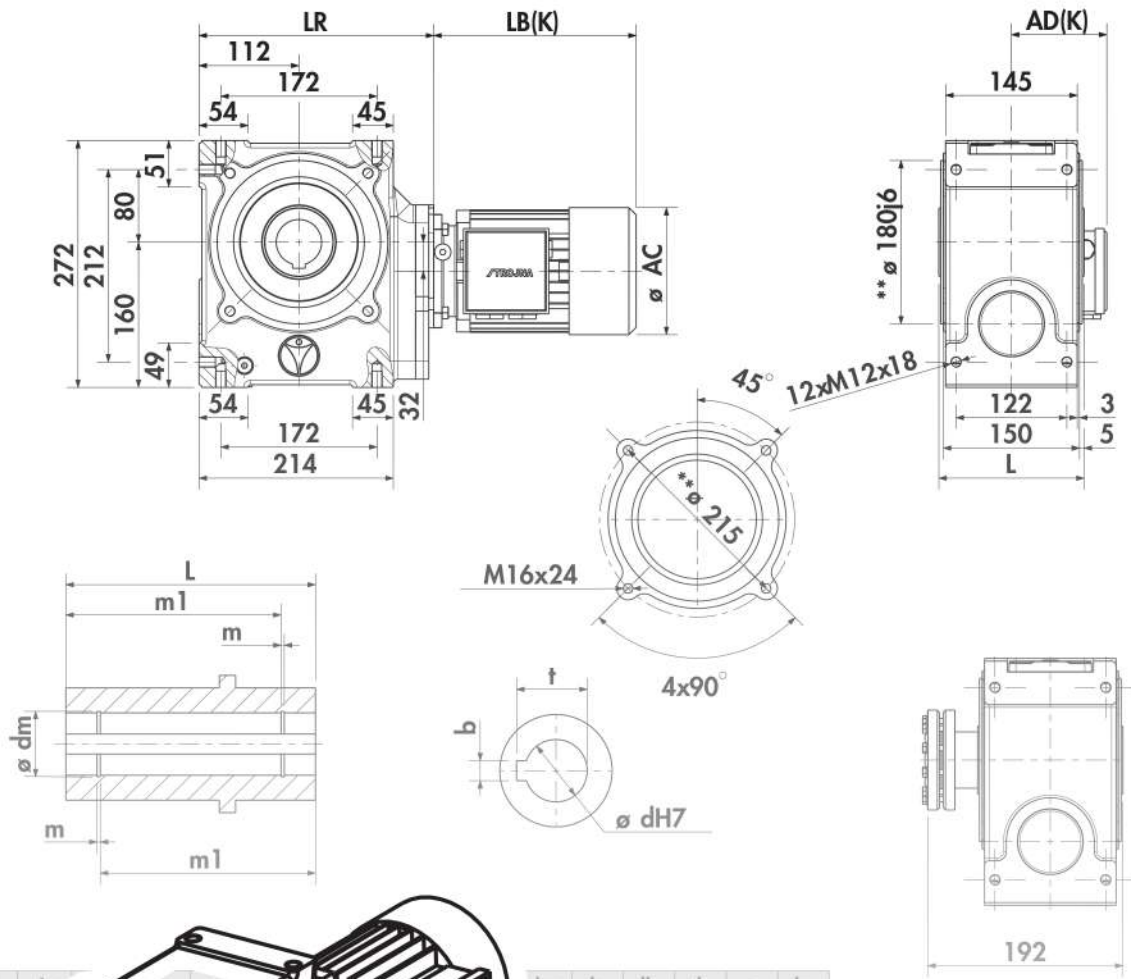




SG

HELICAL WORM GEAR UNIT

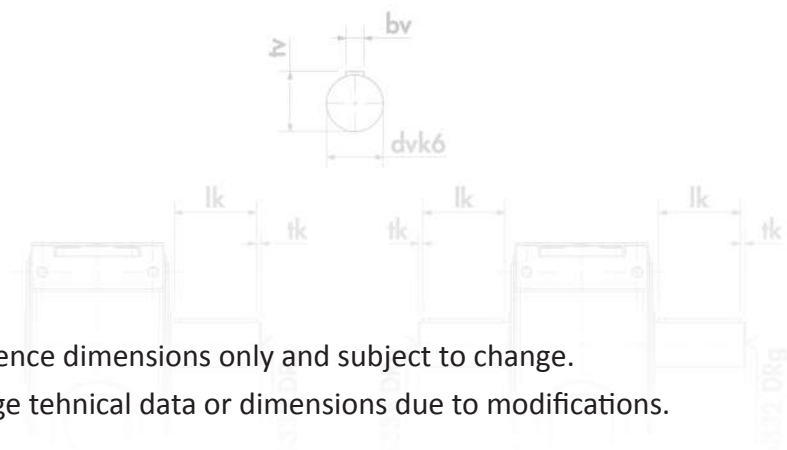
Dimension sheets - Geared motors



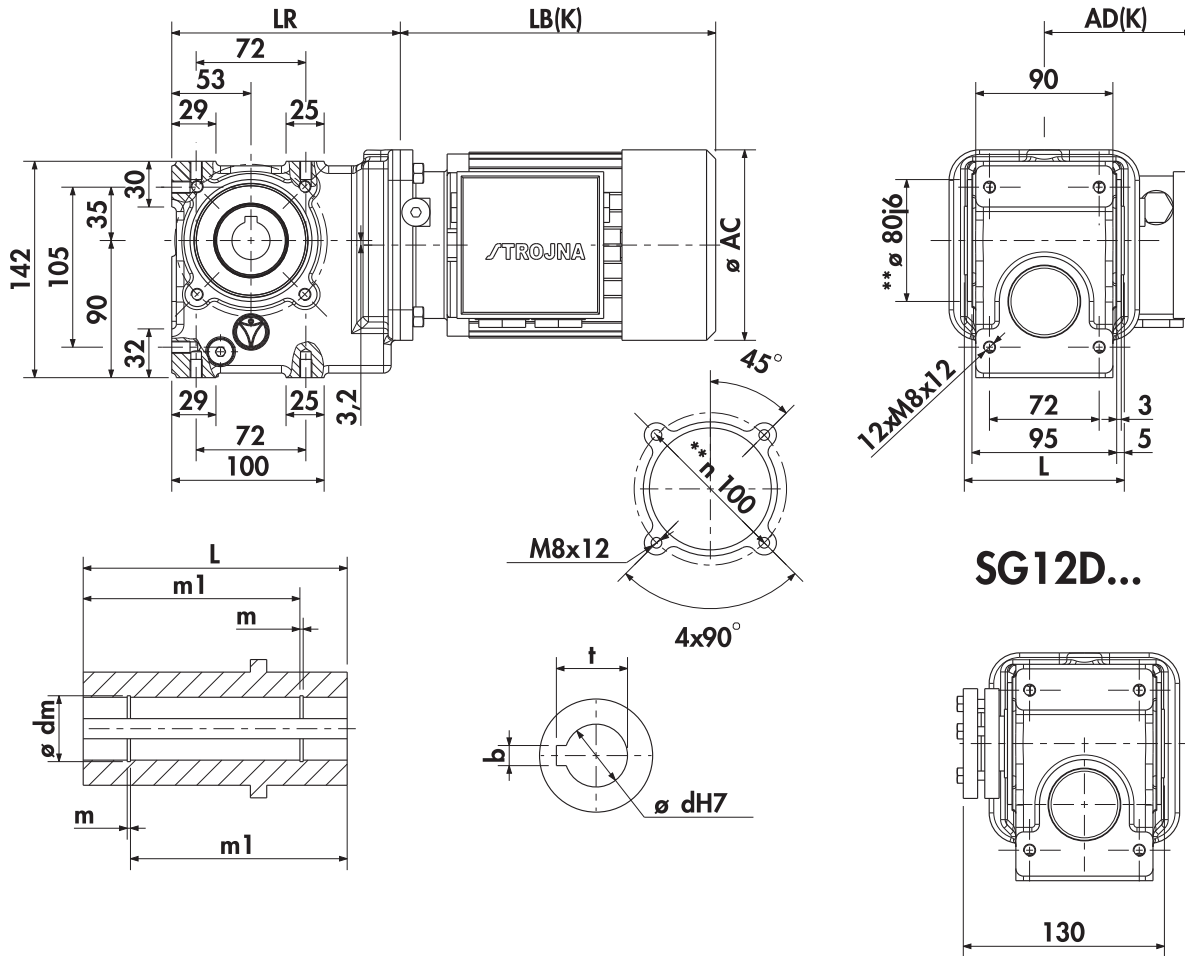
d	L	bv	lv	lk	tk	g	lz
*50	1c	14	100	80	10	M16	360

SMB/SMR	d	L	bv	lv	lk	tk	g	lz
63								
71								
80								
90S	270							258
90L	301	121	385	164	170	170	258	
100	329	157	418	174	193	362		
112M	334	169	413	199	216	362		
132S	377	190	492	183	247	375		
132M	415	190	532	183	247	375		
132Ma	415	190	532	183	247	375		
160M								
180M								

Drawings are for reference dimensions only and subject to change.
We reserve the right to change technical data or dimensions due to modifications.



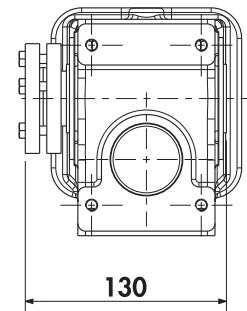
SG12...SMB/SMR



d	L	m1	dm	m	t	b
20	105	97	21	1,3	22,8	6
*25	105	91	26,2	1,3	28,3	8

dv	tv	bv	lv	lk	tk	g	lz
20	22,5	6	40	30	5	M6	185
*25	28	8	50	40	5	M10	205

SG12D...

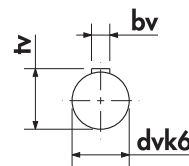


SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	151
71	223	105	280	137	140	151
80	251	110	311	147	154	151
90S	276	121	360	164	170	151
90L	301	121	385	164	170	151
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

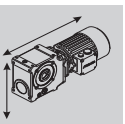
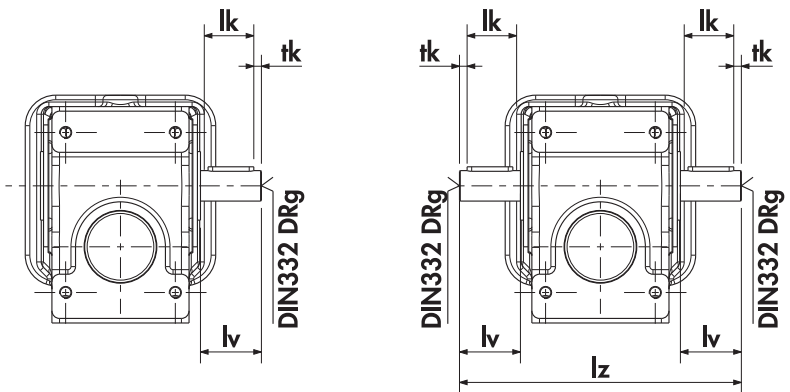
* Standard

** C Flange DIN42948

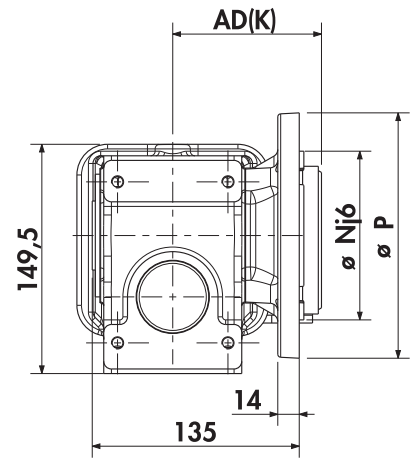
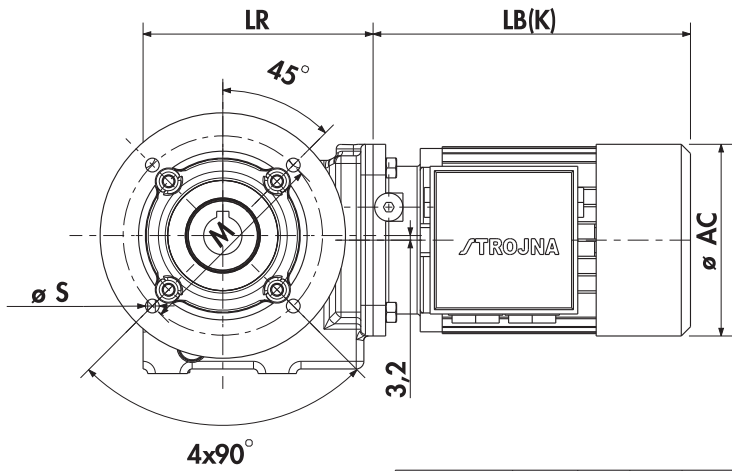
SG12V...



SG12Z...

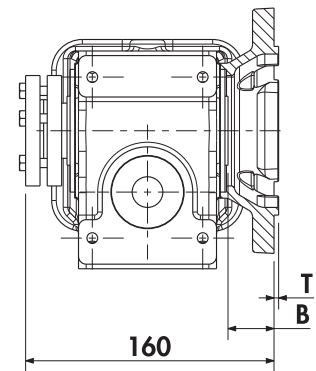
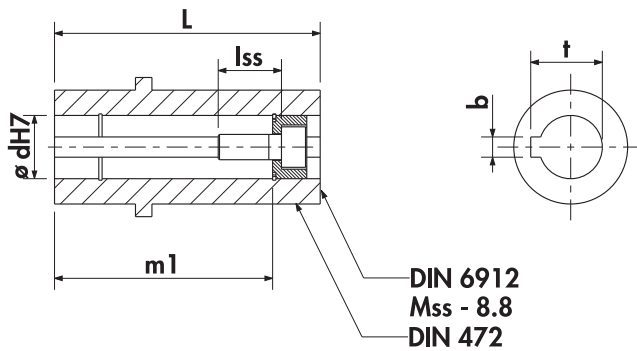


SG12P...SMB/SMR



DIN42948	P	N	M	T	B	S
*A160	160	110	130	3	30	9
A200	200	130	165	3	30	11

SG12PD...

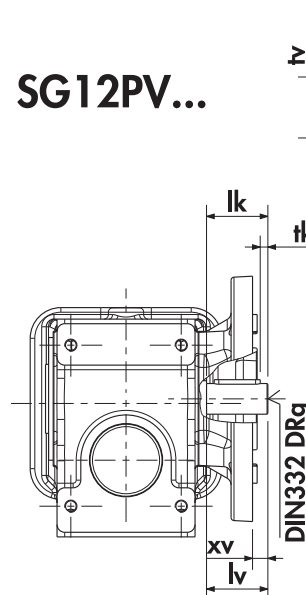


d	L	m1	lss	Mss	t	b
20	105	97	20	M6	22,8	6
*25	105	91	25	M10	28,3	8

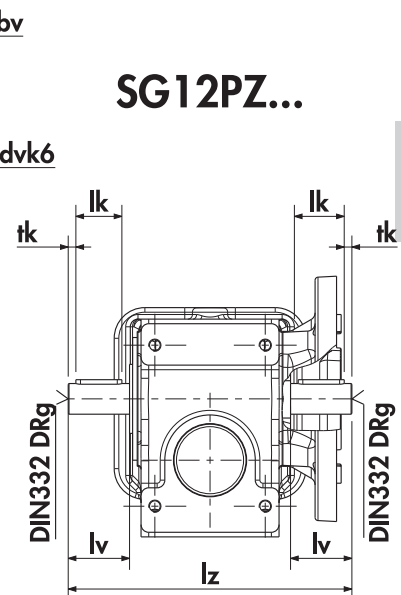
dv	tv	bv	lv	lk	tk	xv	g	lz
20	22,5	6	40	30	5	7	M6	185
*25	28	8	50	40	5	17	M10	205

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	151
71	223	105	280	137	140	151
80	251	110	311	147	154	151
90S	276	121	360	164	170	151
90L	301	121	385	164	170	151
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

SG12PV...

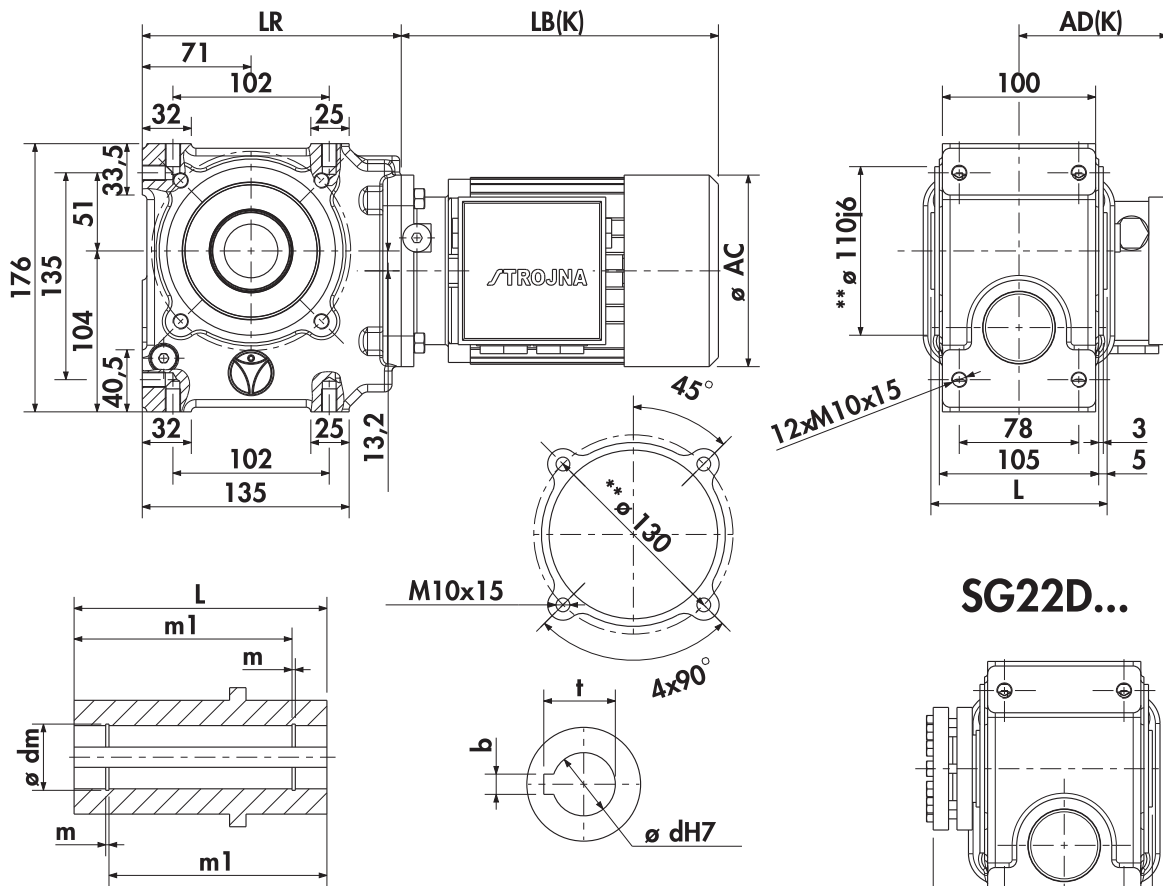


SG12PZ...

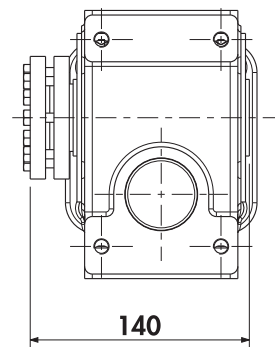


* Standard

SG22...SMB/SMR



SG22D...



d	L	ml	dm	m	t	b
25	115	101	26,2	1,3	28,3	8
*30	115	101	31,4	1,3	33,3	8

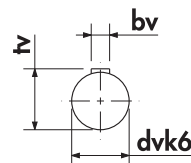
dv	tv	bv	lv	lk	tk	g	lz
25	28	8	50	40	5	M10	215
*30	33	8	60	50	5	M10	235

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	169
71	223	105	280	137	140	169
80	251	110	311	147	154	169
90S	276	121	360	164	170	169
90L	301	121	385	164	170	169
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

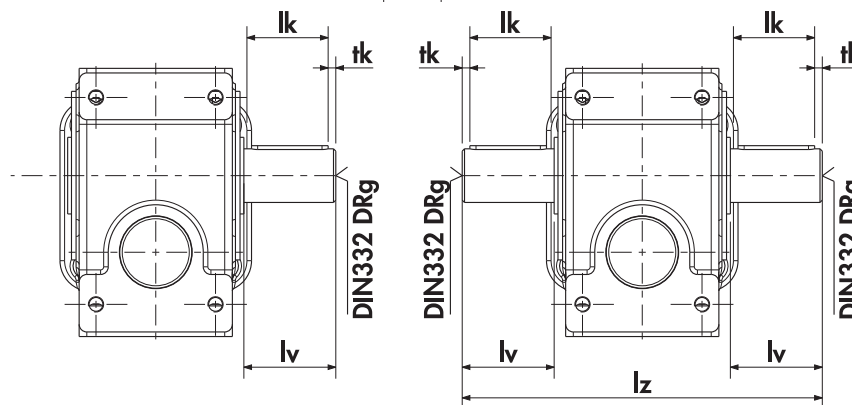
* Standard

** C Flange DIN42948

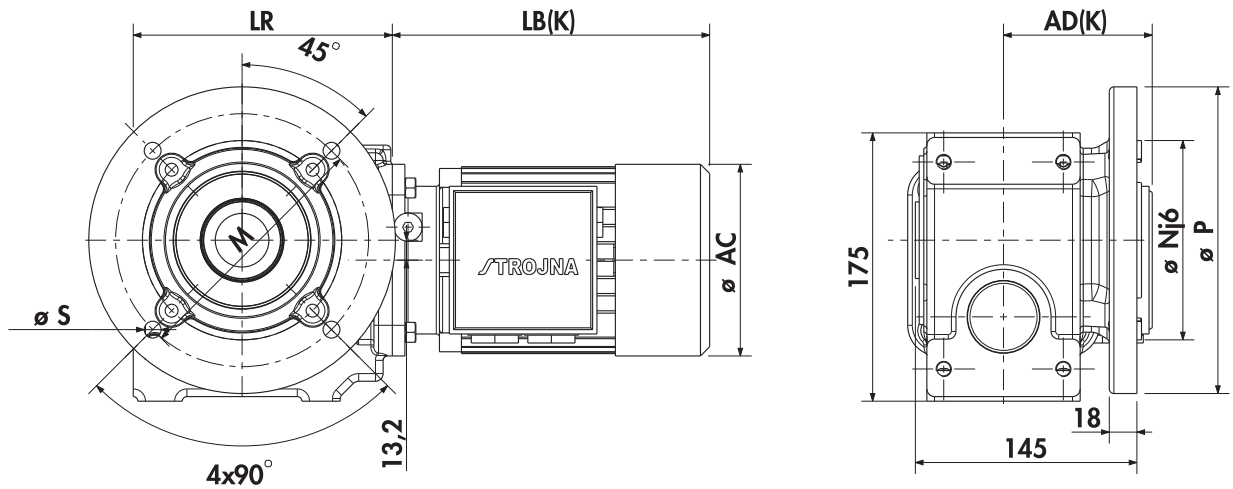
SG22V...



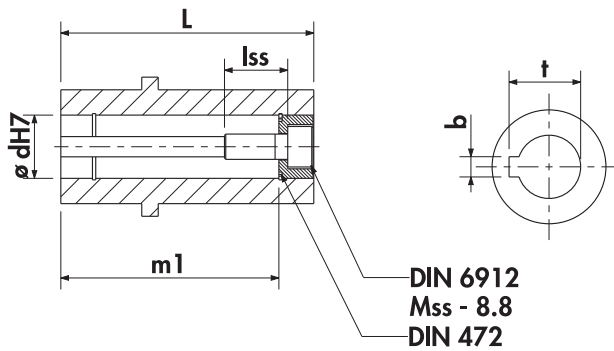
SG22Z...



SG22P...SMB/SMR



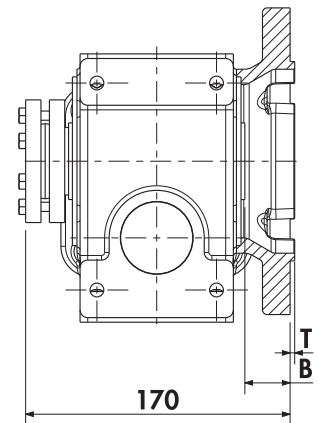
DIN42948	P	N	M	T	B	S
*A200	200	130	165	3	30	11
A250	250	180	215	4	30	14



d	L	m1	lss	Mss	t	b
25	115	101	25	M10	28,3	8
*30	115	101	25	M10	33,3	8

dv	tv	bv	lv	lk	tk	xv	g	lz
25	28	8	50	40	5	17	M10	215
*30	33	8	60	50	5	27	M10	235

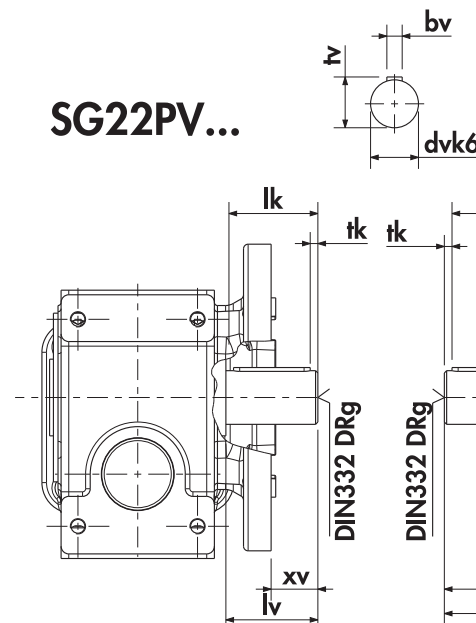
SG22PD...



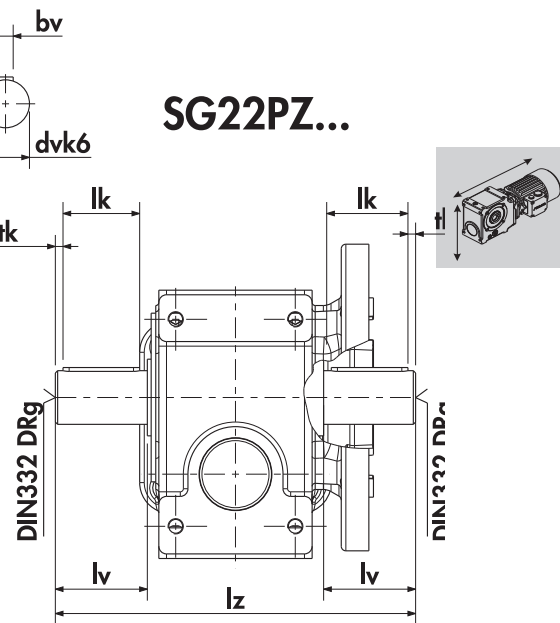
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	169
71	223	105	280	137	140	169
80	251	110	311	147	154	169
90S	276	121	360	164	170	169
90L	301	121	385	164	170	169
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

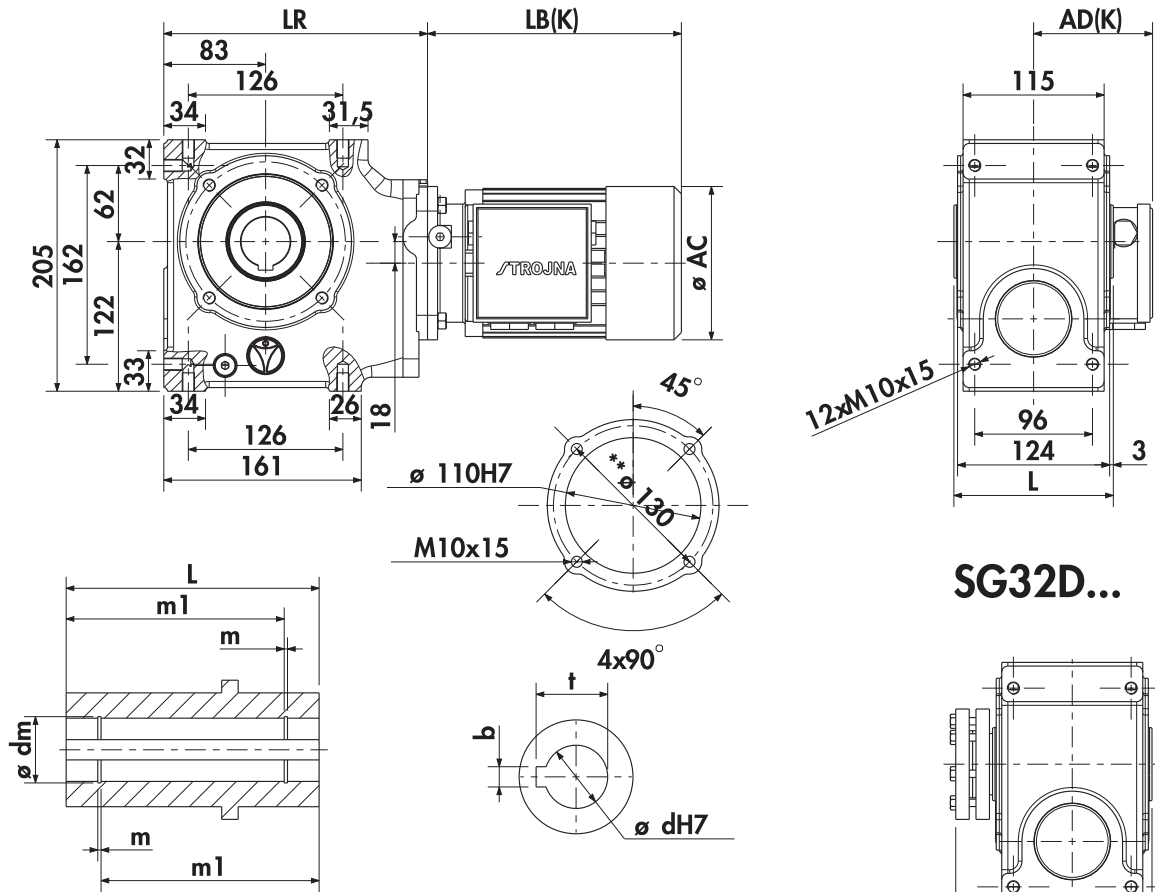
SG22PV...



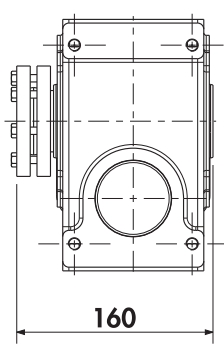
SG22PZ...



SG32...SMB/SMR



SG32D...

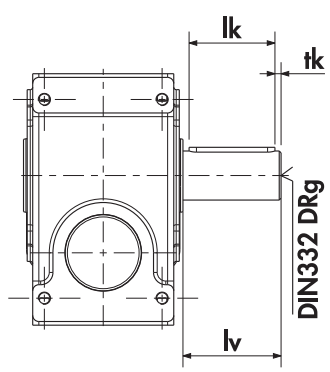


d	L	m1	dm	m	t	b	dv	tv	bv	lv	lk	tk	g	lz
30	130	122	31,4	1,3	33,3	8	30	33	8	60	50	5	M10	250
*35	130	115	37	1,6	38,3	10	*35	38	10	70	60	5	M12	270

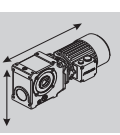
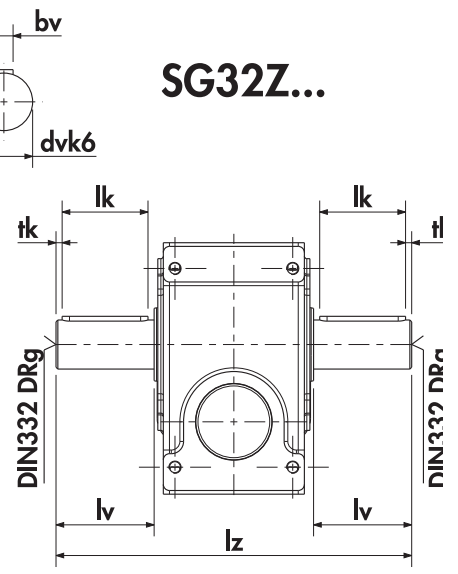
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	216
71	223	105	280	137	140	216
80	251	110	311	147	154	216
90S	276	121	360	164	170	216
90L	301	121	385	164	170	216
100	329	157	418	174	193	220
112M	334	169	413	199	216	220
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard ** C Flange DIN42948

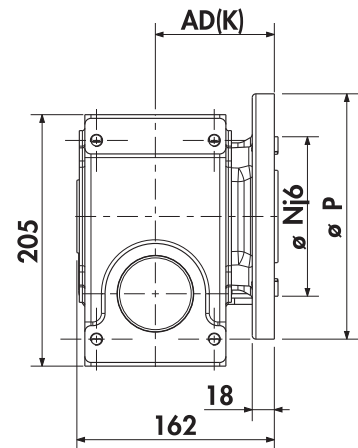
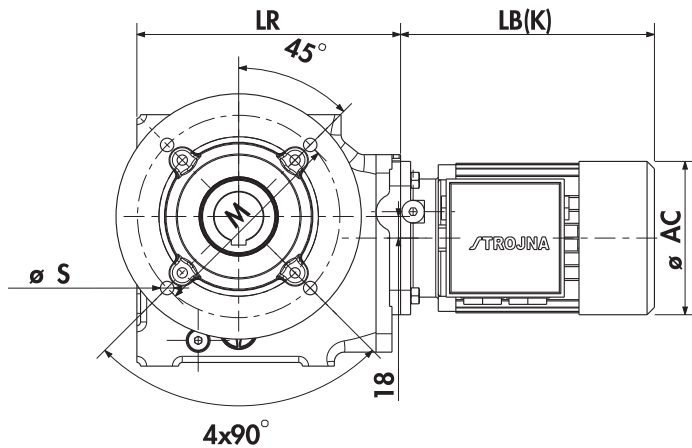
SG32V...



SG32Z...

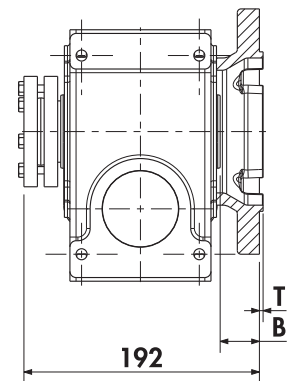
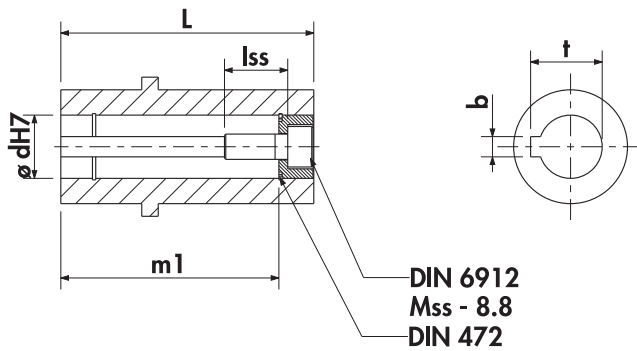


SG32P...SMB/SMR



DIN42948	P	N	M	T	B	S
*A200	200	130	165	3	32	11
A250	250	180	215	4	32	14

SG32PD...

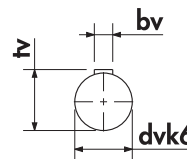


d	L	m1	lss	Mss	t	b
30	130	122	25	M10	33,3	8
*35	130	115	30	M12	38,3	10

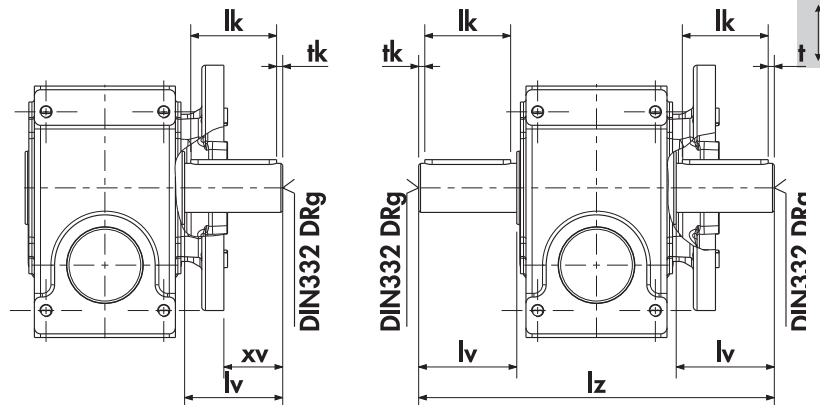
dv	tv	bv	lv	lk	tk	xv	g	lz
30	33	8	60	50	5	27	M10	250
*35	38	10	70	40	5	37	M12	270

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	216
71	223	105	280	137	140	216
80	251	110	311	147	154	216
90S	276	121	360	164	170	216
90L	301	121	385	164	170	216
100	329	157	418	174	193	220
112M	334	169	413	199	216	220
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

SG32PV...

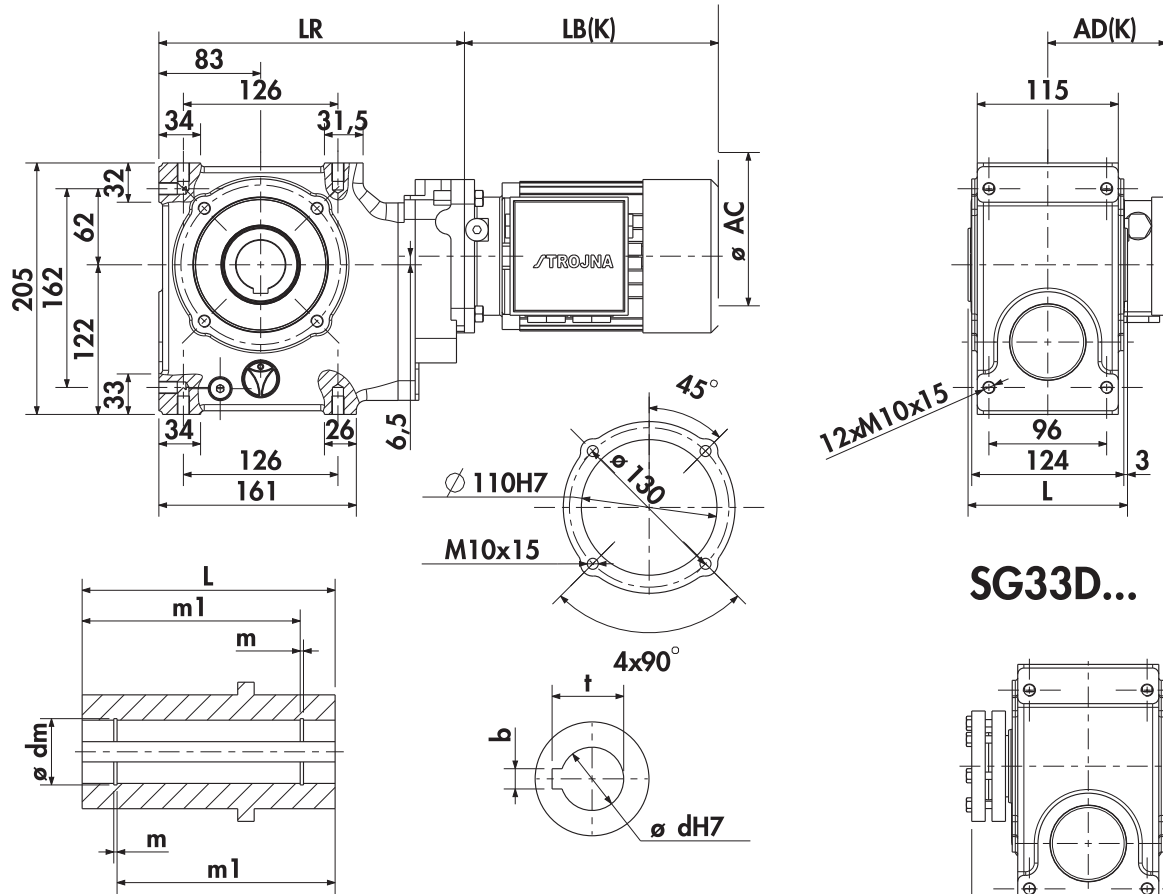


SG32PZ...

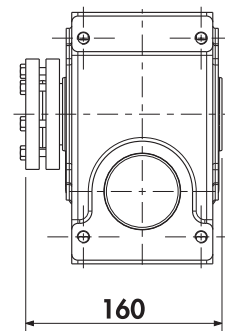


* Standard

SG33...SMB/SMR



SG33D...

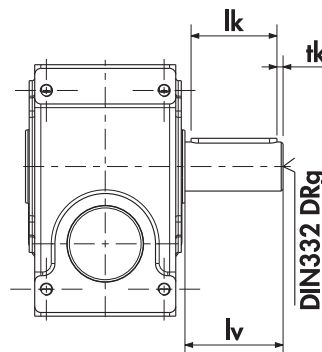


d	L	m1	dm	m	t	b
30	130	122	31,4	1,3	33,3	8
*35	130	115	37	1,6	38,3	10

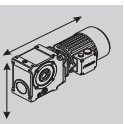
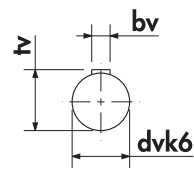
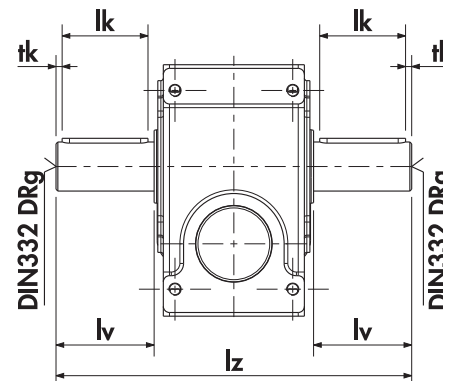
dv	tv	bv	lv	lk	tk	g	lz
30	33	8	60	50	5	M10	250
*35	38	10	70	60	5	M12	270

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	249
71	223	105	280	137	140	249
80	251	110	311	147	154	249
90S	276	121	360	164	170	249
90L	301	121	385	164	170	249
100						
112M						
132S						
132M						
132M α						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

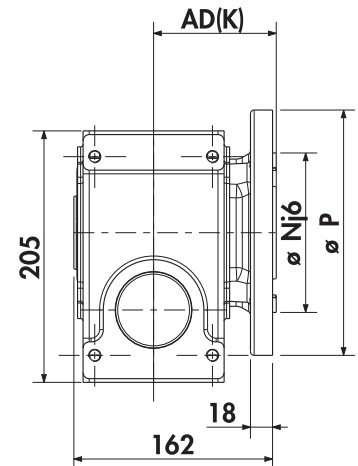
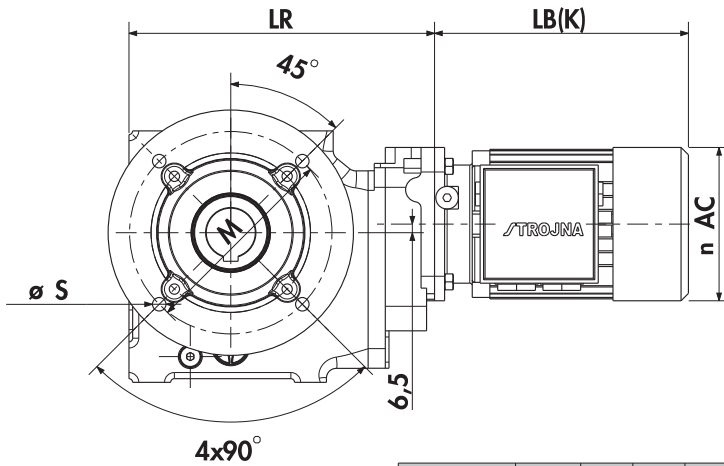
SG33V...



SG33Z...

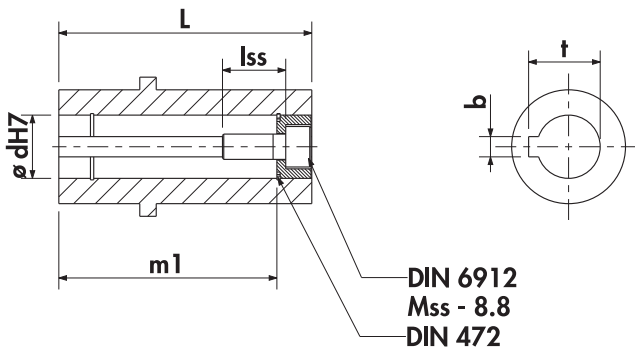


SG33P...SMB/SMR

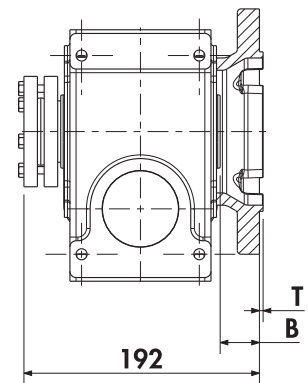


DIN42948	P	N	M	T	B	S
*A200	200	130	165	3	32	11
A250	250	180	215	4	32	14

SG33PD...



DIN 6912
M_{ss} - 8.8
DIN 472

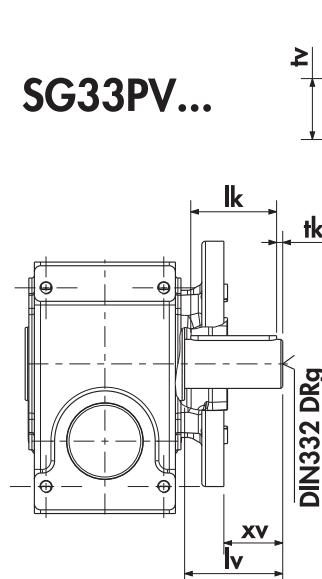


d	L	m1	lss	M _{ss}	t	b
30	130	122	25	M10	33,3	8
*35	130	115	30	M12	38,3	10

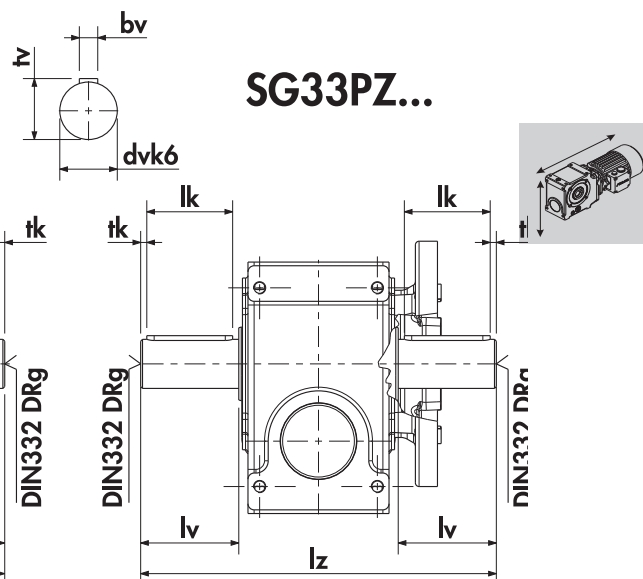
dv	tv	bv	lv	lk	tk	xv	g	lz
30	33	8	60	50	5	27	M10	250
*35	38	10	70	60	5	37	M12	270

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	249
71	223	105	280	137	140	249
80	251	110	311	147	154	249
90S	276	121	360	164	170	249
90L	301	121	385	164	170	249
100						
112M						
132S						
132M						
132M _α						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

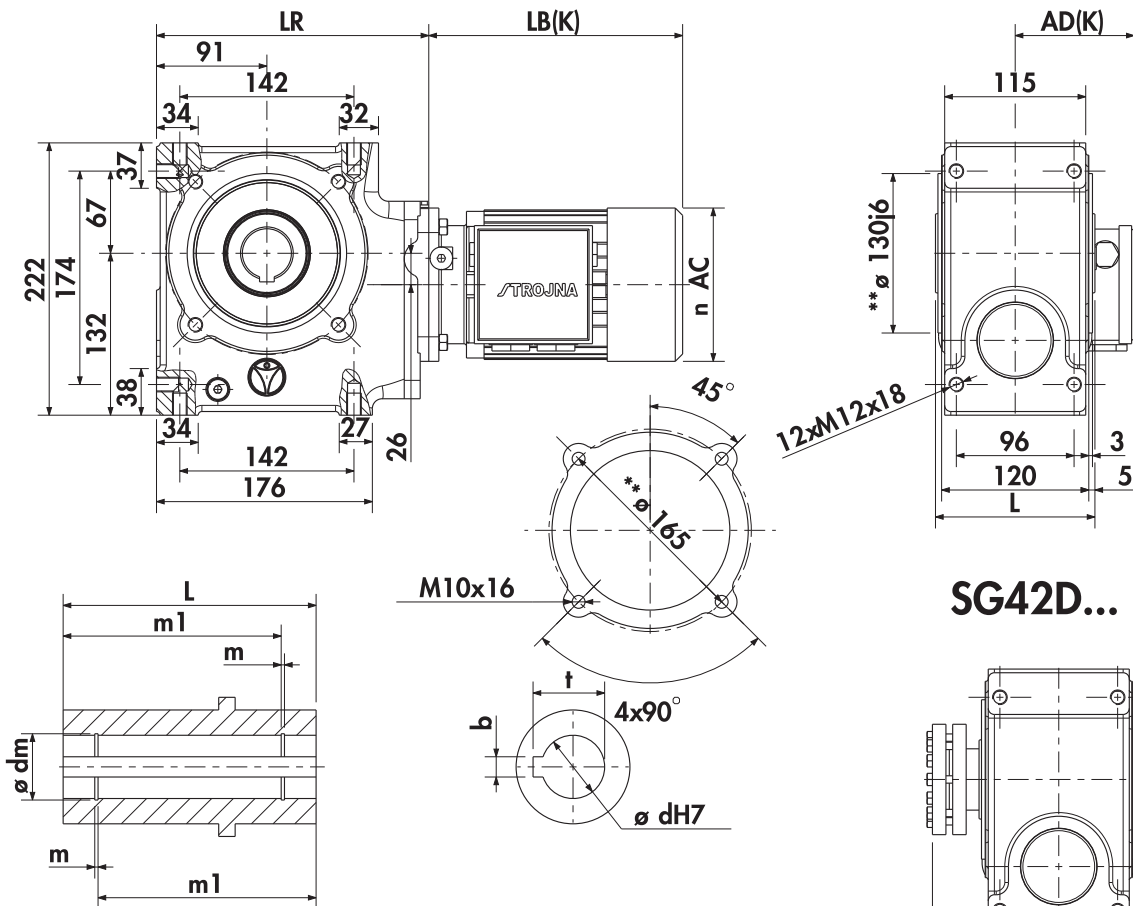
SG33PV...



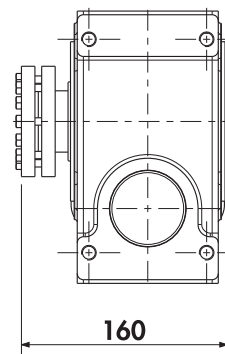
SG33PZ...



SG42...SMB/SMR



SG42D...



d	L	m1	dm	m	t	b
40	130	108	42,5	1,85	43,3	12
*45	130	108	47,5	1,85	48,8	14

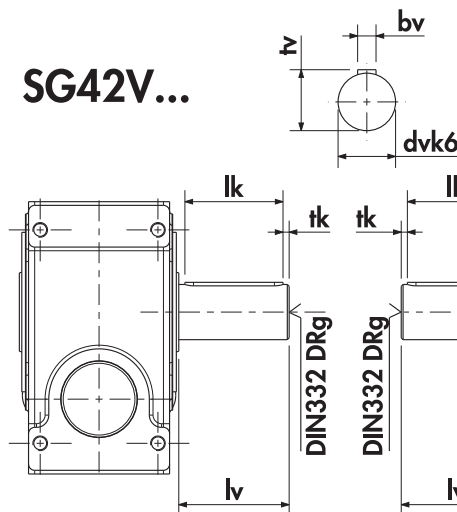
dv	tv	bv	lv	lk	tk	g	lz
40	43	12	80	70	5	M16	290
*45	48,5	14	90	80	5	M16	310

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	221
71	223	105	280	137	140	221
80	251	110	311	147	154	221
90S	276	121	360	164	170	221
90L	301	121	385	164	170	221
100	329	157	418	174	193	225
112M	334	169	413	199	216	225
132S						
132M						
132Mα						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

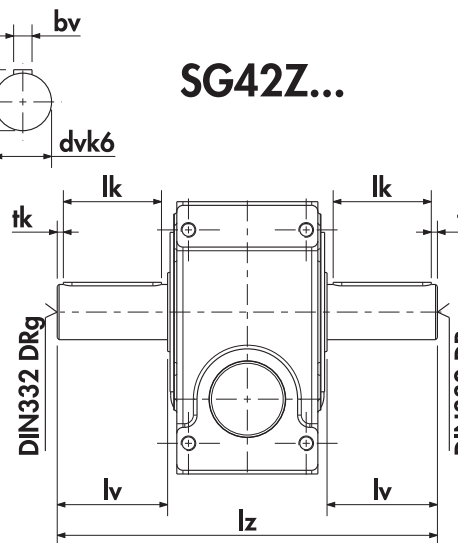
* Standard

** C Flange DIN42948

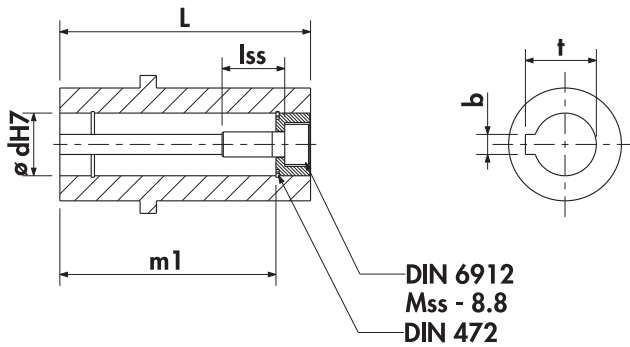
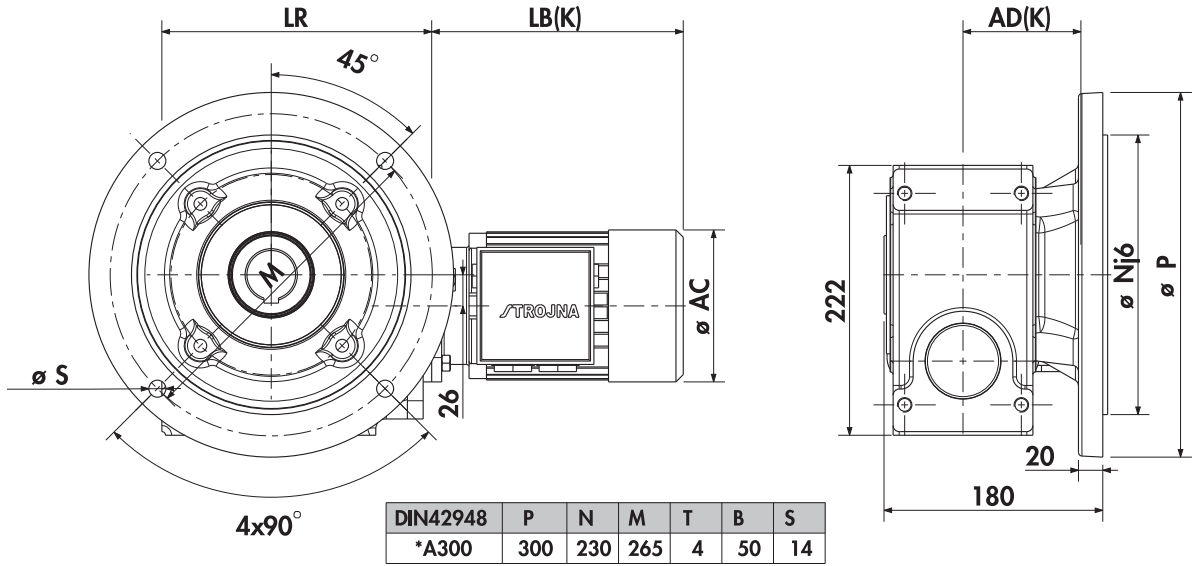
SG42V...



SG42Z...



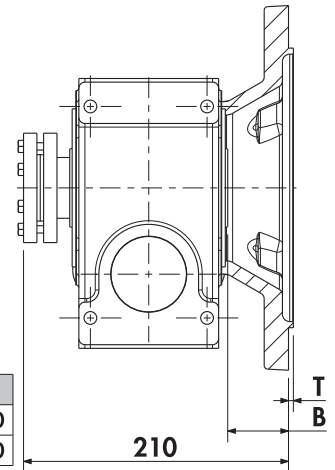
SG42P...SMB/SMR



d	L	m1	lss	M _{ss}	t	b
40	130	108	40	M16	43,3	12
*45	130	108	40	M16	48,8	14

dv	tv	bv	lv	lk	tk	xv	g	lz
40	43	12	80	70	5	27	M16	290
*45	48,5	14	90	80	5	37	M16	310

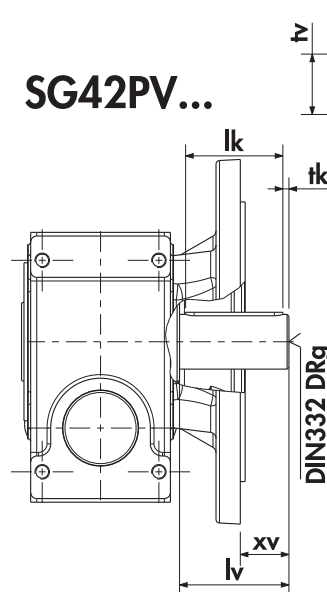
SG42PD...



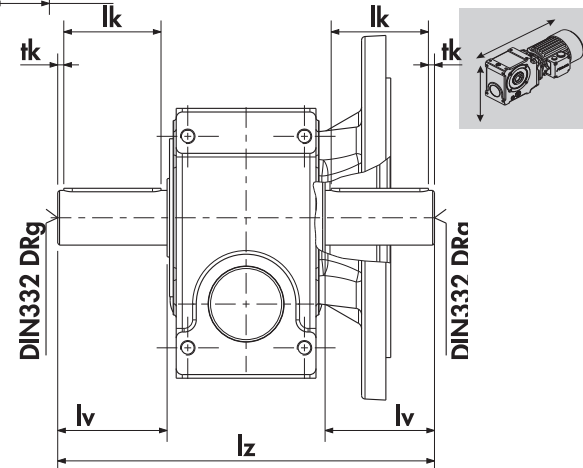
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	221
71	223	105	280	137	140	221
80	251	110	311	147	154	221
90S	276	121	360	164	170	221
90L	301	121	385	164	170	221
100	329	157	418	174	193	225
112M	334	169	413	199	216	225
132S						
132M						
132M _α						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

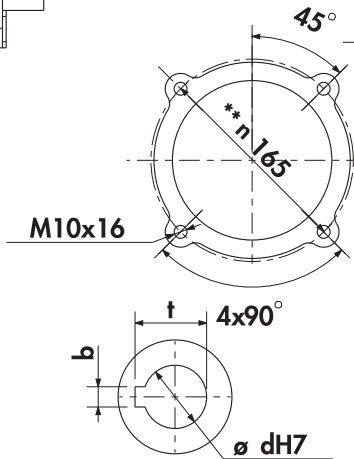
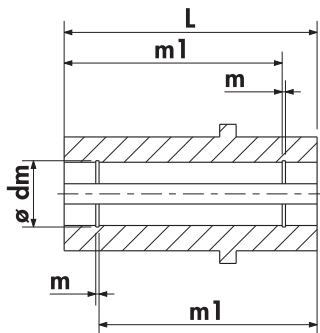
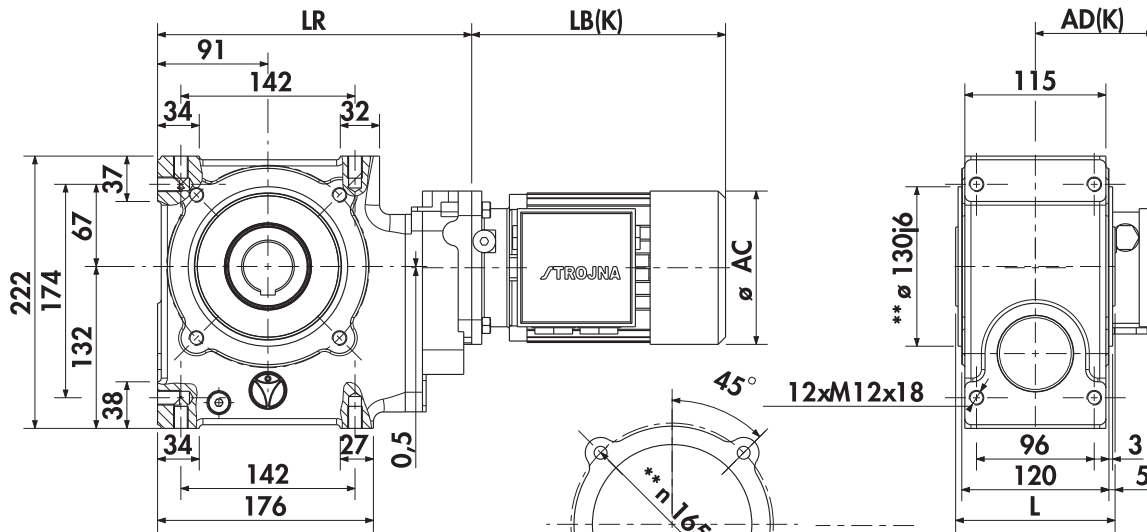
SG42PV...



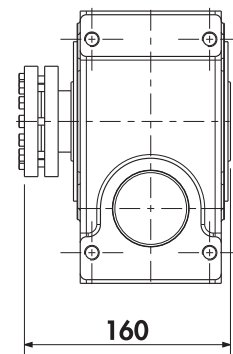
SG42PZ...



SG43...SMB/SMR



SG43D...



d	L	m1	dm	m	t	b
40	130	108	42,5	1,85	43,3	12
*45	130	108	47,5	1,85	48,8	14

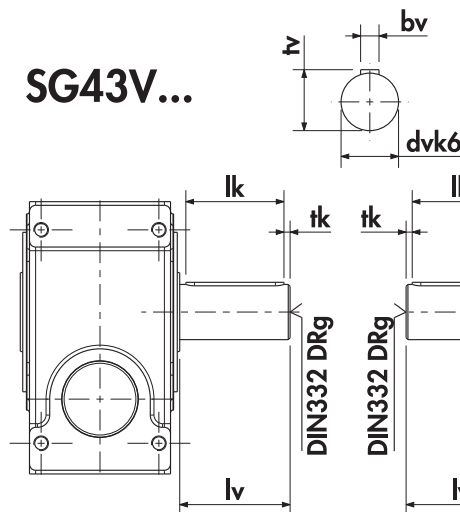
dv	tv	bv	lv	lk	tk	g	lz
40	43	12	80	70	5	M16	290
*45	48,5	14	90	80	5	M16	310

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	257
71	223	105	280	137	140	257
80	251	110	311	147	154	257
90S	276	121	360	164	170	257
90L	301	121	385	164	170	257
100						
112M						
132S						
132M						
132Mα						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

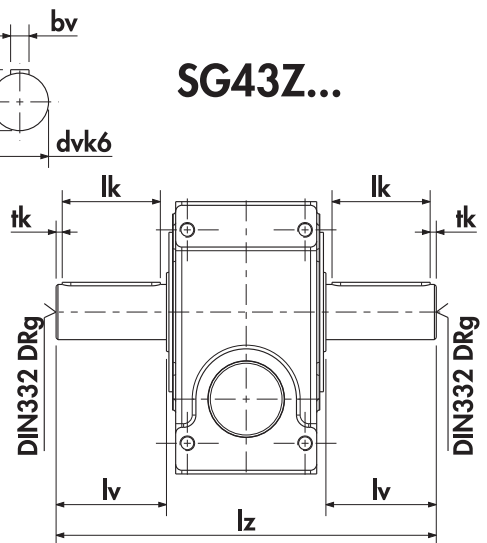
* Standard

** C Flange DIN42948

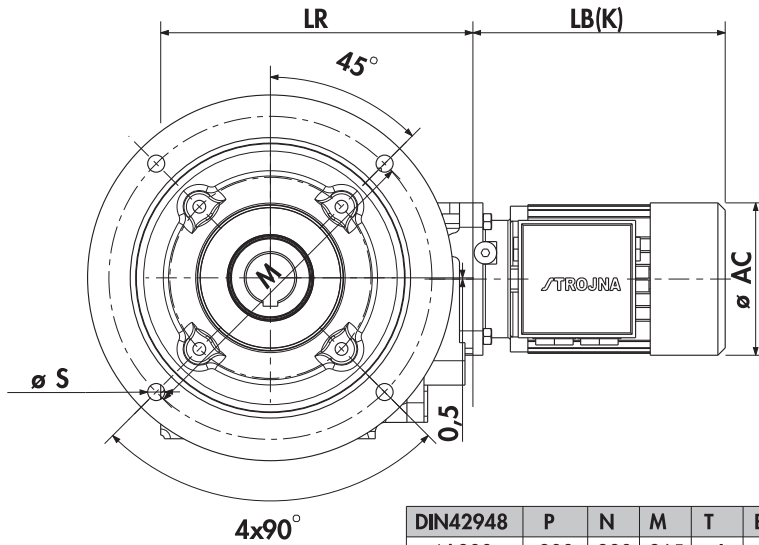
SG43V...



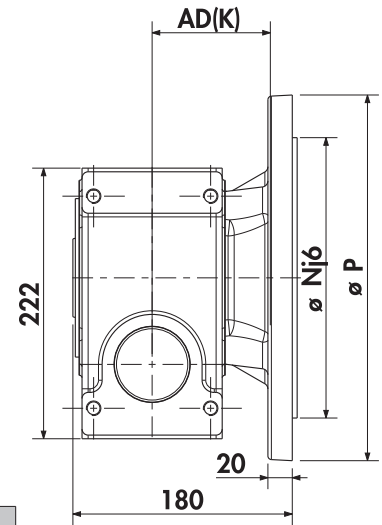
SG43Z...



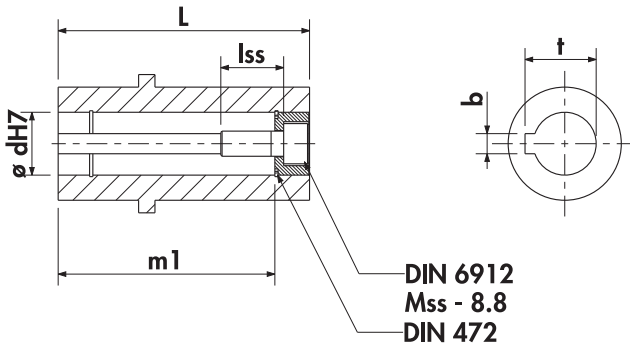
SG43P...SMB/SMR



DIN42948	P	N	M	T	B	S
*A300	300	230	265	4	50	14

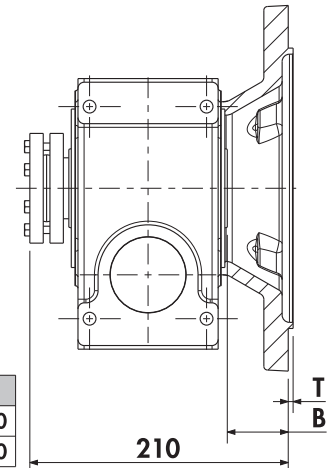


SG43PD...



d	L	m1	lss	Mss	t	b
40	130	108	40	M16	43,3	12
*45	130	108	40	M16	48,8	14

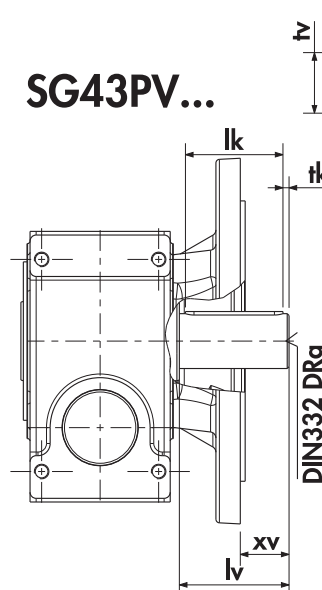
dv	tv	bv	lv	lk	tk	xv	g	lz
40	43	12	80	70	5	27	M16	290
*45	48,5	14	90	80	5	37	M16	310



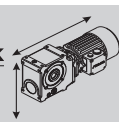
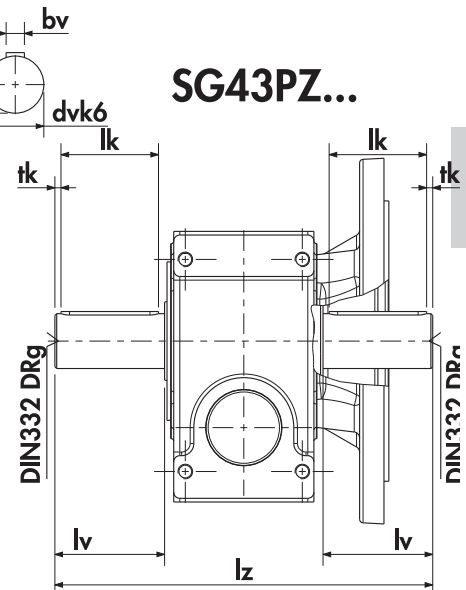
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	257
71	223	105	280	137	140	257
80	251	110	311	147	154	257
90S	276	121	360	164	170	257
90L	301	121	385	164	170	257
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

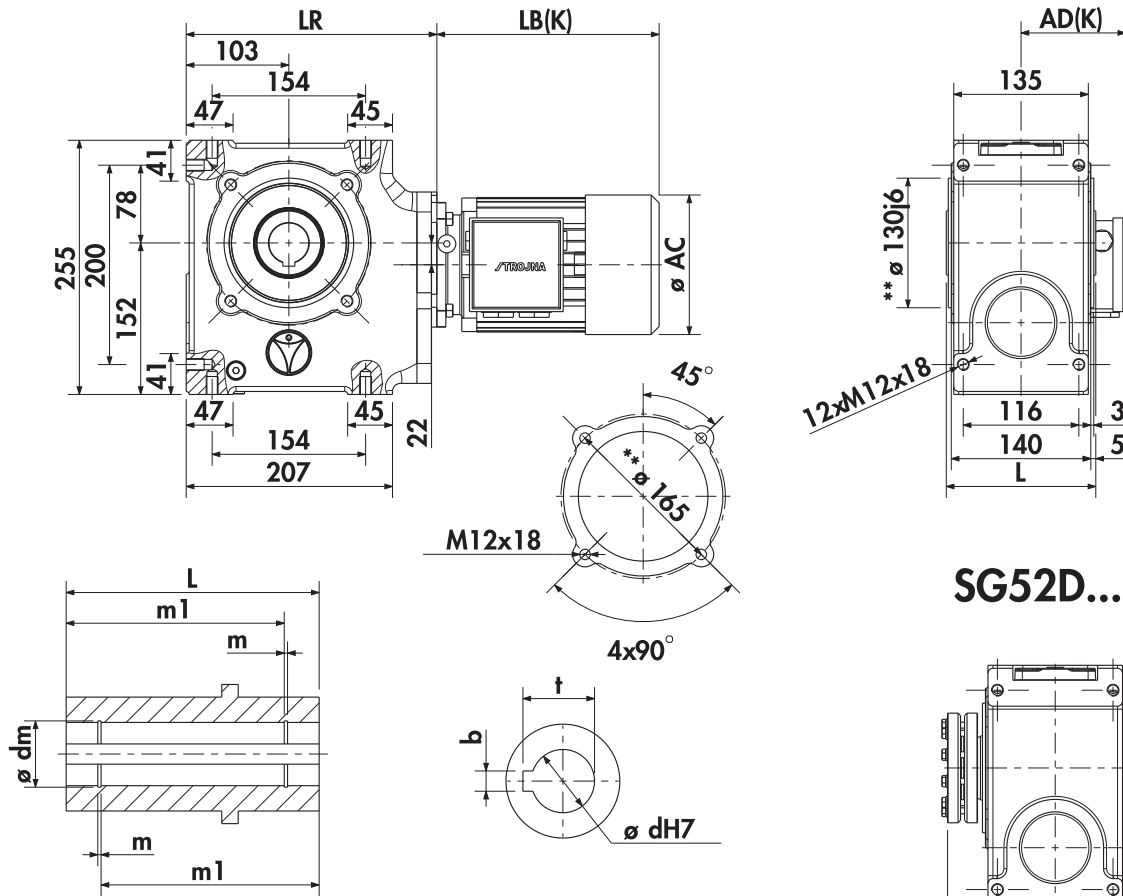
SG43PV...



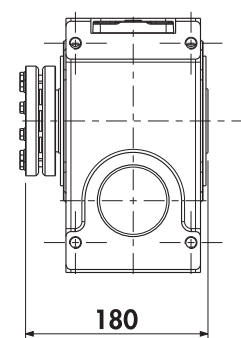
SG43PZ...



SG52...SMB/SMR



SG52D...

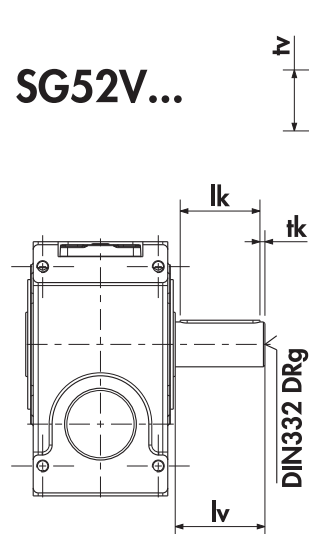


d	L	m1	dm	m	t	b
40	150	138	42,5	1,85	43,3	12
*45	150	133	47,5	1,85	48,8	14

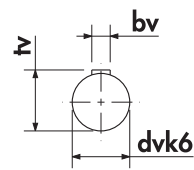
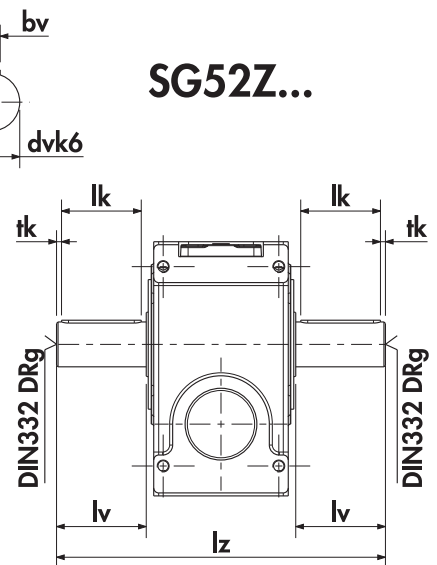
dv	tv	bv	lv	lk	tk	g	lz
40	43	12	80	70	5	M16	310
*45	48,5	14	90	80	5	M16	330

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	252
71	223	105	280	137	140	252
80	251	110	311	147	154	252
90S	276	121	360	164	170	252
90L	301	121	385	164	170	252
100	329	157	418	174	193	256
112M	334	169	413	199	216	256
132S	377	190	492	183	247	269
132M	415	190	532	183	247	269
132Mα	415	190	532	183	247	269
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

SG52V...



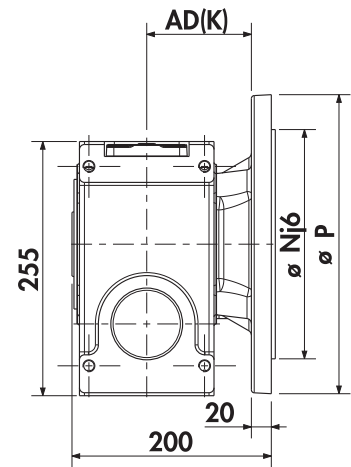
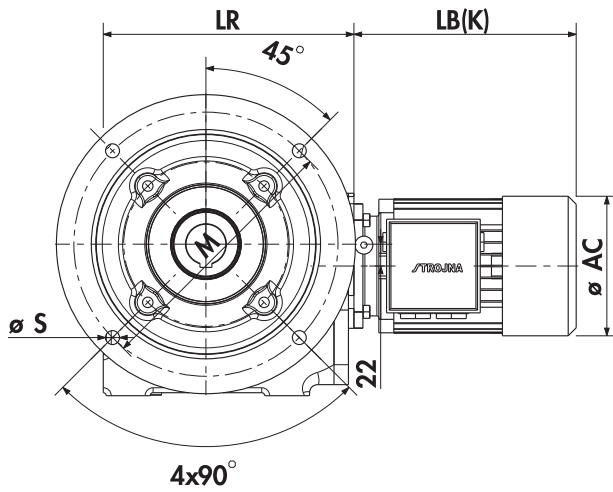
SG52Z...



* Standard

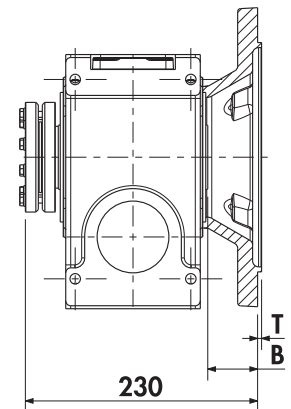
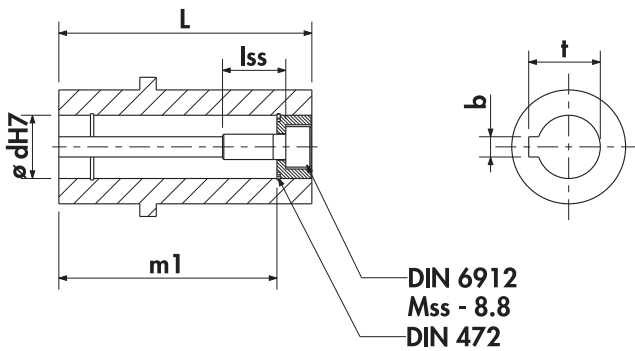
** C Flange DIN42948

SG52P...SMB/SMR



DIN42948	P	N	M	T	B	S
*A300	300	230	265	4	50	14

SG52PD...



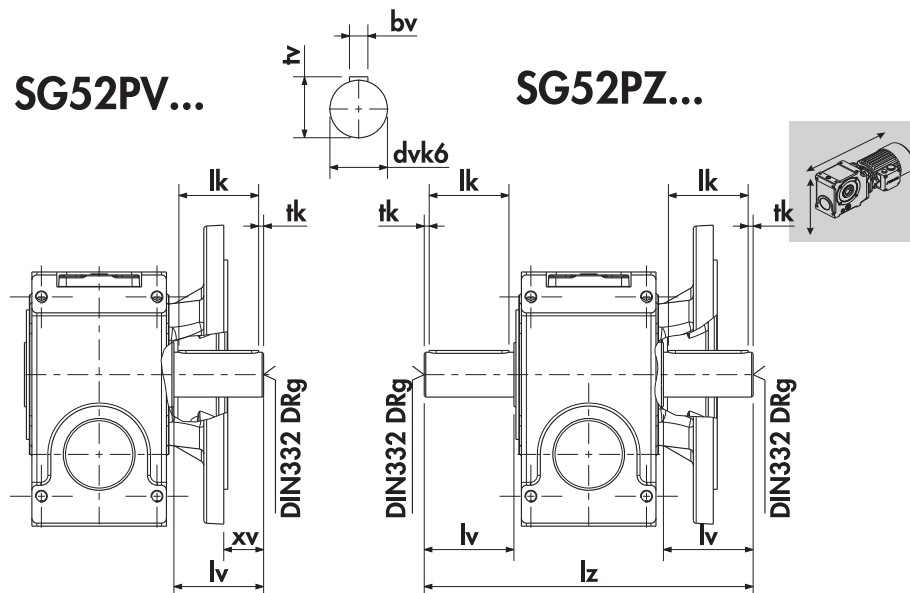
d	L	m1	lss	Mss	t	b
40	150	138	40	M16	43,3	12
*45	150	133	40	M16	48,8	14

dv	tv	bv	lv	lk	tk	xv	g	lz
40	43	12	80	70	5	27	M16	310
*45	48,5	14	90	80	5	37	M16	330

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	252
71	223	105	280	137	140	252
80	251	110	311	147	154	252
90S	276	121	360	164	170	252
90L	301	121	385	164	170	252
100	329	157	418	174	193	256
112M	334	169	413	199	216	256
132S	377	190	492	183	247	269
132M	415	190	532	183	247	269
132Ma	415	190	532	183	247	269
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

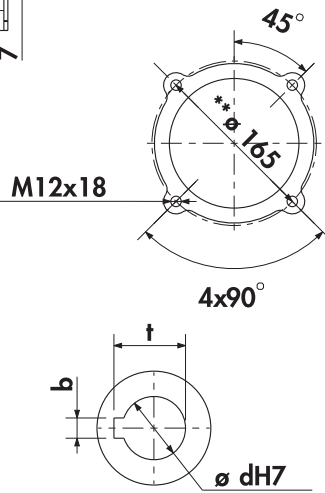
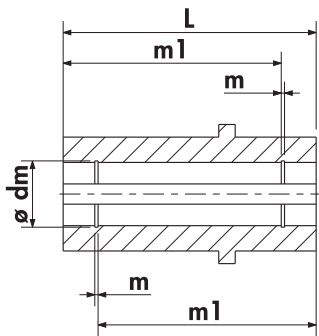
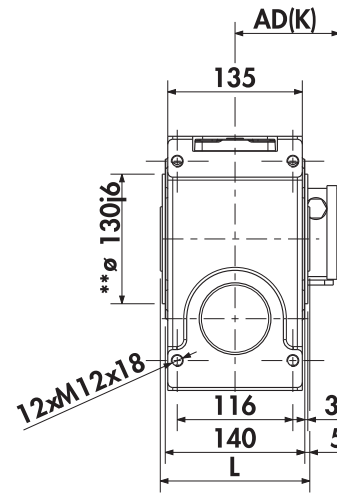
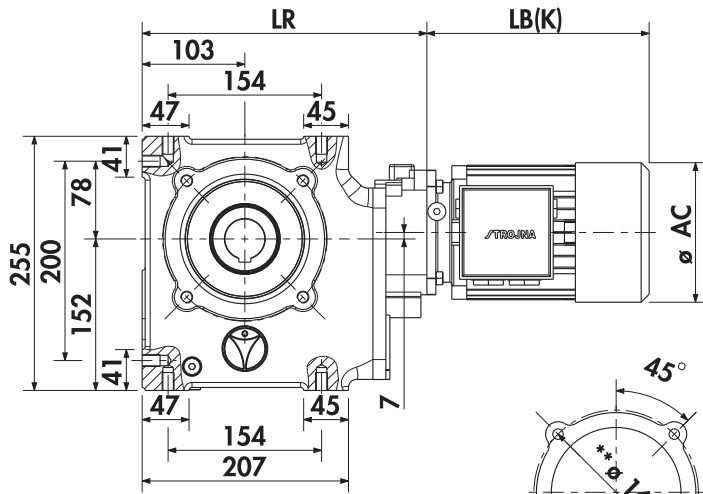
SG52PV...

SG52PZ...

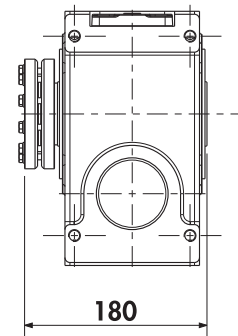


* Standard

SG53...SMB/SMR



SG53D...



d	L	m1	dm	m	t	b
40	150	138	42,5	1,85	43,3	12
*45	150	133	47,5	1,85	48,8	14

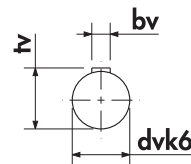
dv	tv	bv	lv	lk	tk	g	lz
40	43	12	80	70	5	M16	310
*45	48,5	14	90	80	5	M16	330

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	286
71	223	105	280	137	140	286
80	251	110	311	147	154	286
90S	276	121	360	164	170	286
90L	301	121	385	164	170	286
100						
112M						
132S						
132M						
132Mα						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

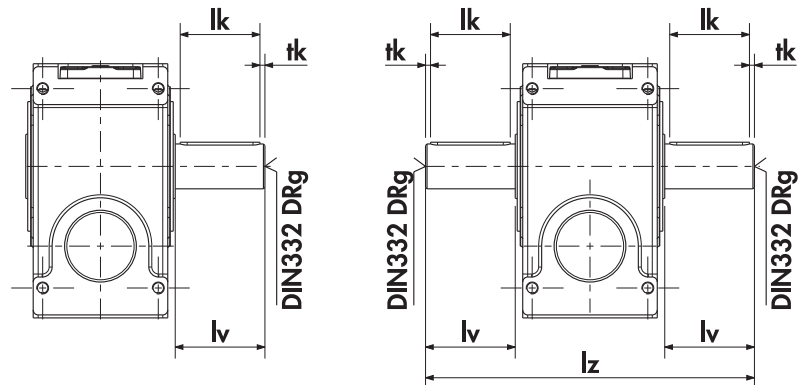
* Standard

** C Flange DIN42948

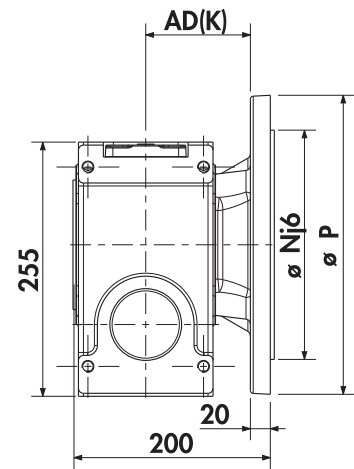
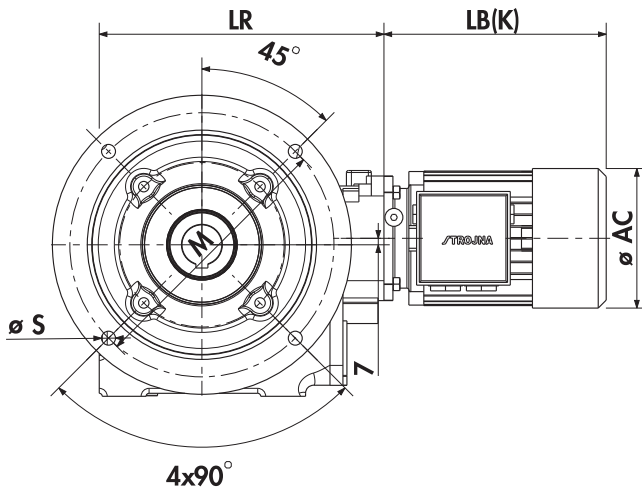
SG53V...



SG53Z...

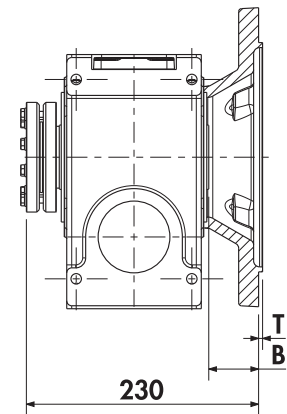
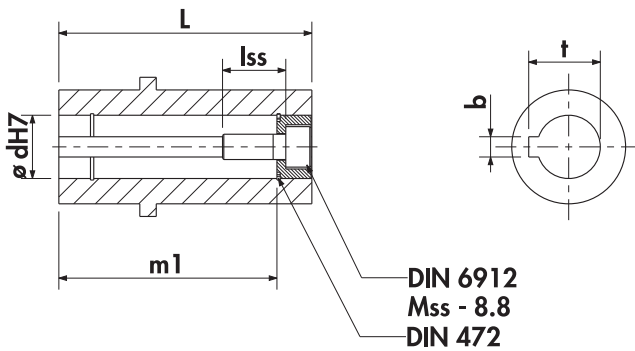


SG53P...SMB/SMR



DIN42948	P	N	M	T	B	S
*A300	300	230	265	4	50	14

SG53PD...

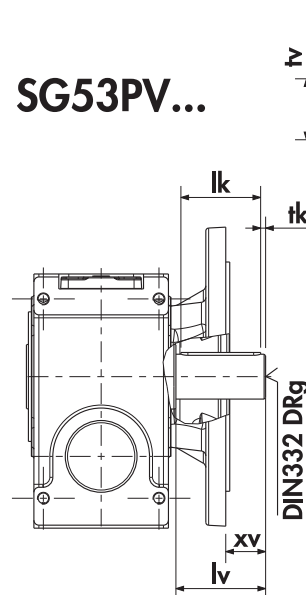


d	L	m1	lss	Mss	t	b
40	150	138	40	M16	43,3	12
*45	150	133	40	M16	48,8	14

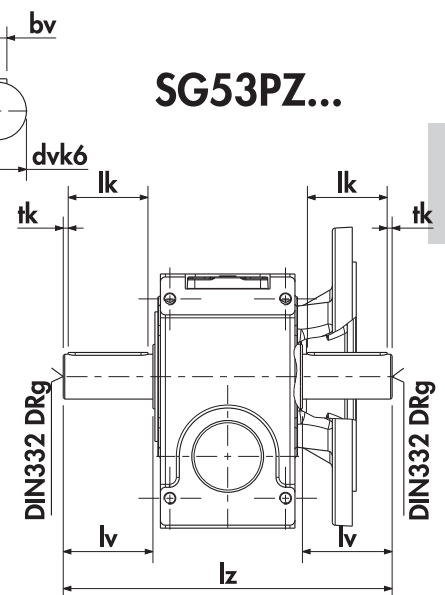
dv	tv	bv	lv	lk	tk	xv	g	lz
40	43	12	80	70	5	27	M16	310
*45	48,5	14	90	80	5	37	M16	330

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	286
71	223	105	280	137	140	286
80	251	110	311	147	154	286
90S	276	121	360	164	170	286
90L	301	121	385	164	170	286
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

SG53PV...

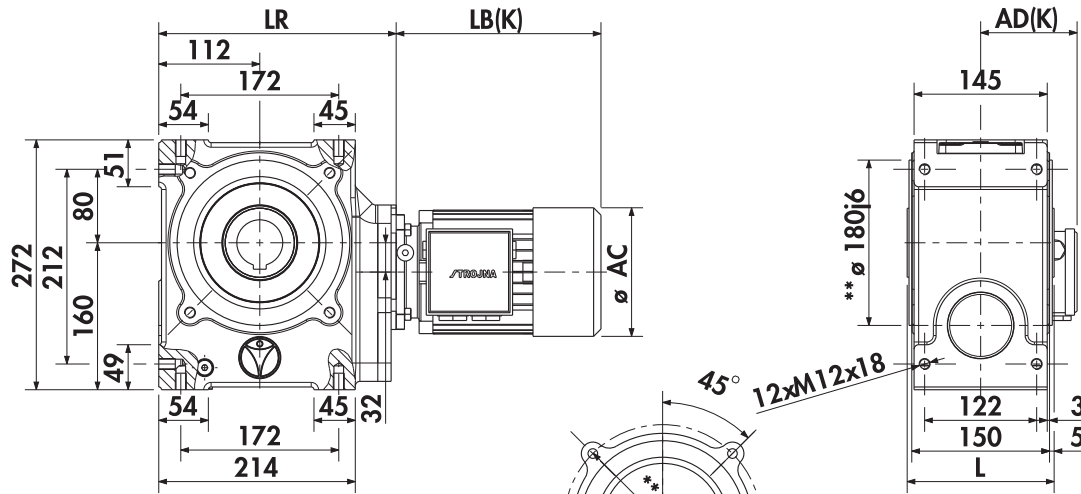


SG53PZ...

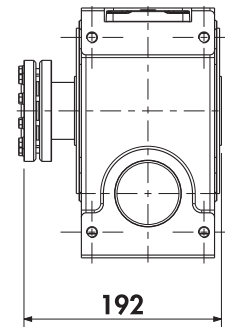


* Standard

SG62...SMB/SMR



SG62D...



d	L	m1	dm	m	t	b
*50	160	143	53	2,15	53,8	14

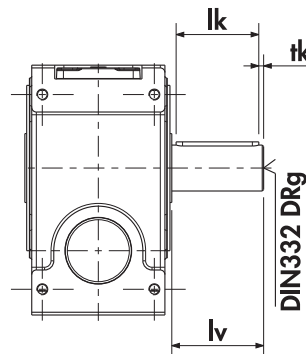
dv	tv	bv	lv	lk	tk	g	lz
*50	53,5	14	100	80	10	M16	360

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	258
71	223	105	280	137	140	258
80	251	110	311	147	154	258
90S	276	121	360	164	170	258
90L	301	121	385	164	170	258
100	329	157	418	174	193	362
112M	334	169	413	199	216	362
132S	377	190	492	183	247	375
132M	415	190	532	183	247	375
132Mα	415	190	532	183	247	375
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

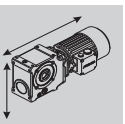
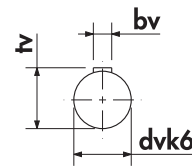
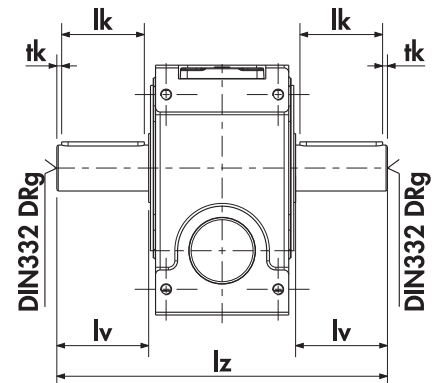
* Standard

** C Flange DIN42948

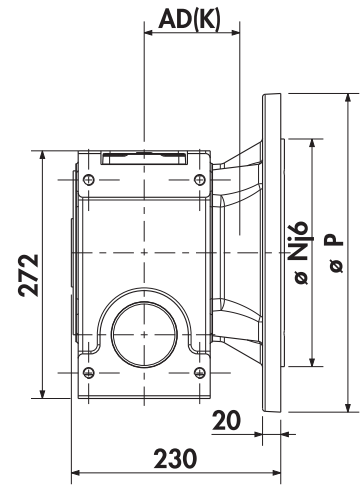
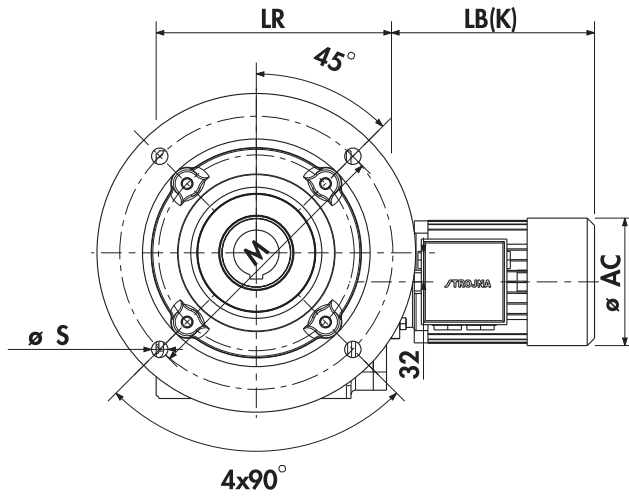
SG62V...



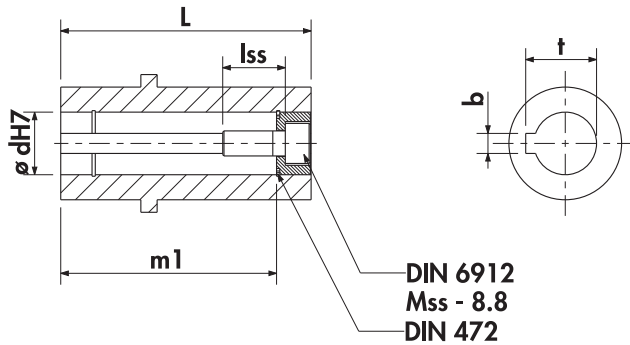
SG62Z...



SG62P...SMB/SMR



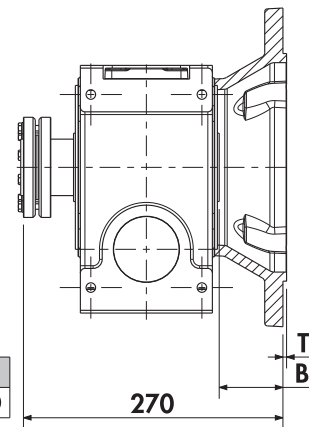
DIN42948	P	N	M	T	B	S
*A350	350	250	300	4	70	18



d	L	m1	lss	Mss	t	b
*50	160	143	40	M16	53,8	14

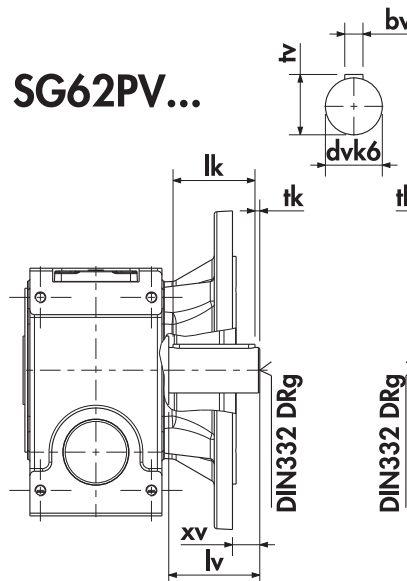
dv	tv	bv	lv	lk	tk	xv	g	lz
*50	53,5	14	100	80	10	27	M16	360

SG62PD...

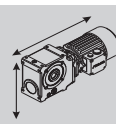
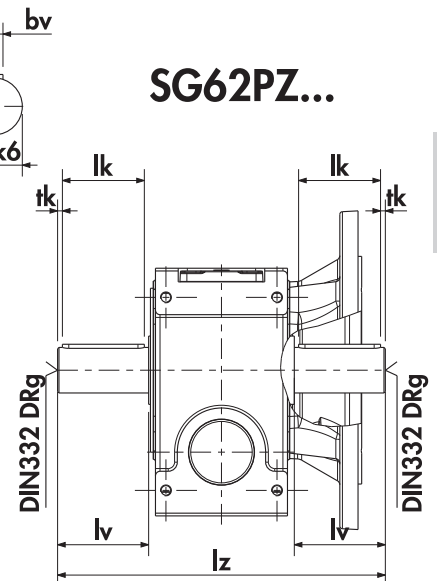


SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	258
71	223	105	280	137	140	258
80	251	110	311	147	154	258
90S	276	121	360	164	170	258
90L	301	121	385	164	170	258
100	329	157	418	174	193	362
112M	334	169	413	199	216	362
132S	377	190	492	183	247	375
132M	415	190	532	183	247	375
132Ma	415	190	532	183	247	375
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

SG62PV...

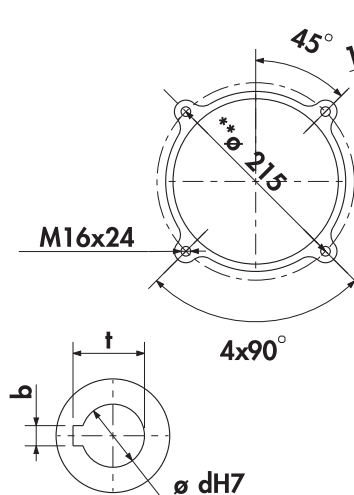
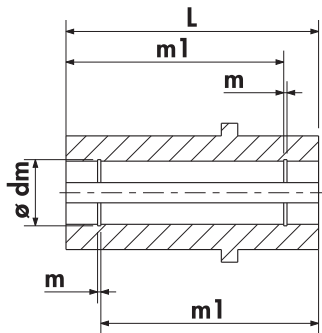
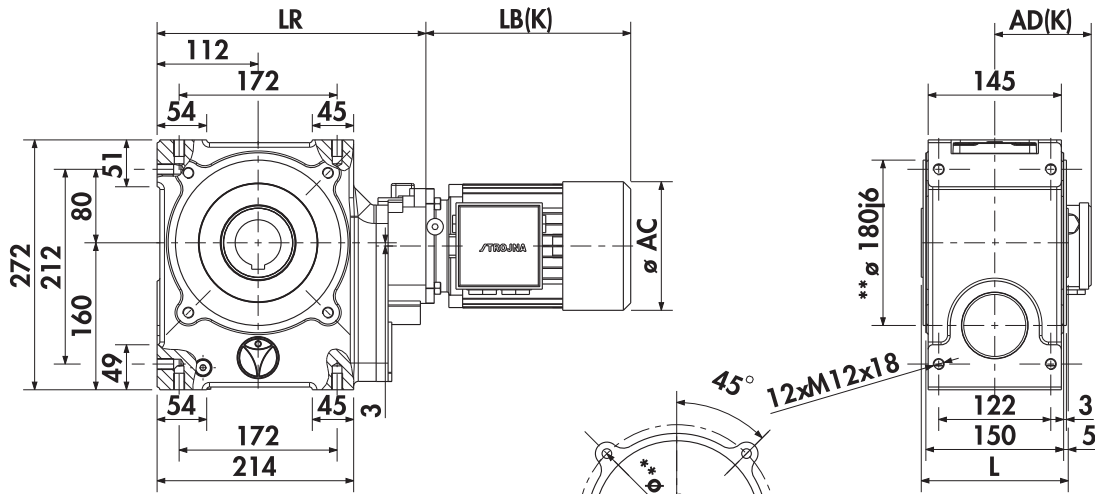


SG62PZ...

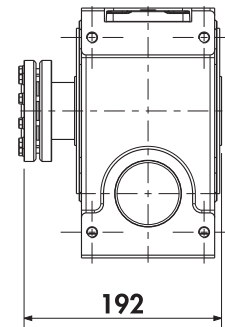


* Standard

SG63...SMB/SMR



SG63D...

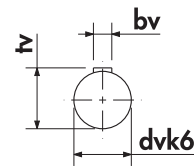


d	L	m1	dm	m	t	b
*50	160	143	53	2,15	53,8	14

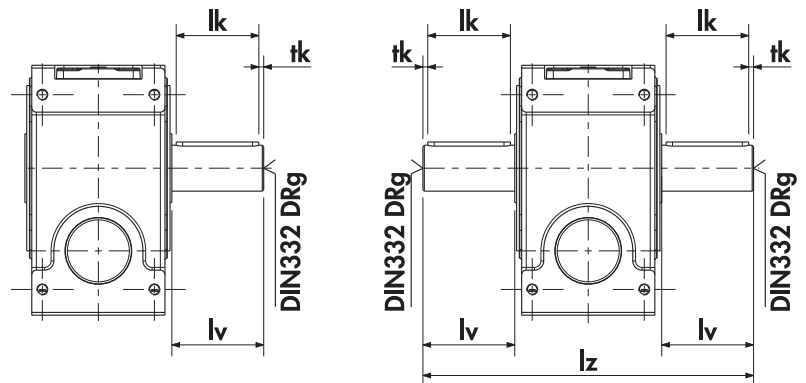
dv	tv	bv	lv	lk	tk	g	lz
*50	53,5	14	100	80	10	M16	360

SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	292
71	223	105	280	137	140	292
80	251	110	311	147	154	292
90S	276	121	360	164	170	292
90L	301	121	385	164	170	292
100						
112M						
132S						
132M						
132Mα						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

SG63V...



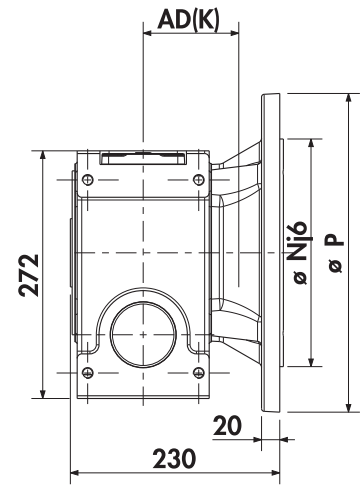
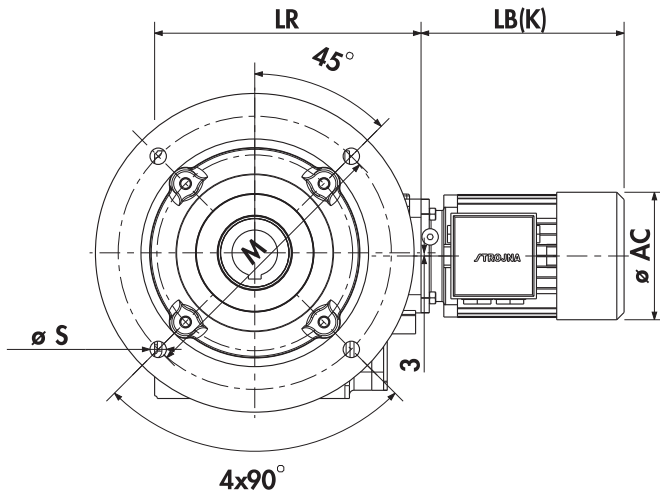
SG63Z...



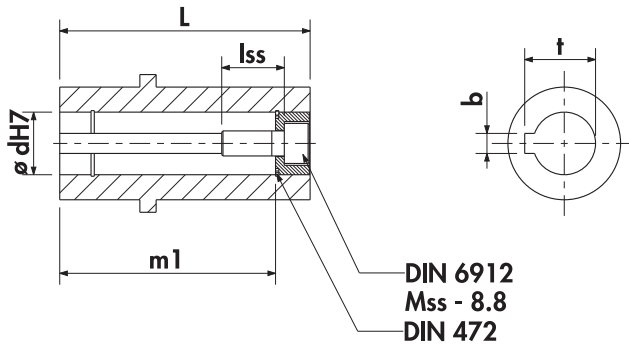
* Standard

** C Flange DIN42948

SG63P...SMB/SMR



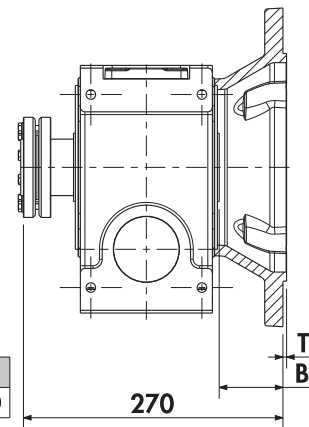
DIN42948	P	N	M	T	B	S
*A350	350	250	300	4	70	18



d	L	m1	lss	Mss	t	b
*50	160	143	40	M16	53,8	14

dv	tv	bv	lv	lk	tk	xv	g	lz
*50	53,5	14	100	80	10	27	M16	360

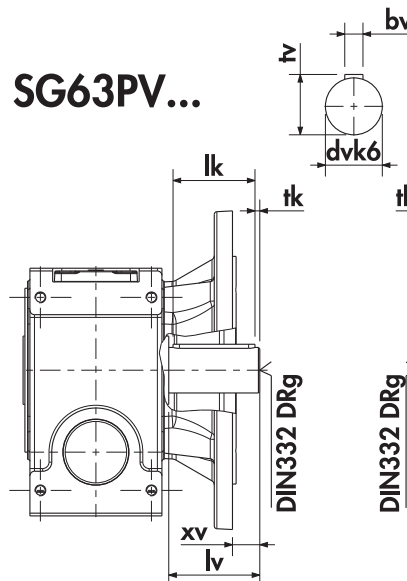
SG63PD...



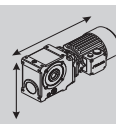
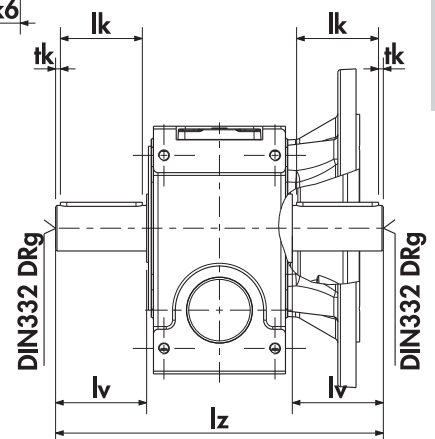
SMB/SMR	LB	AD	LBK	ADK	AC	LR
63	207	97	260	125	125	292
71	223	105	280	137	140	292
80	251	110	311	147	154	292
90S	276	121	360	164	170	292
90L	301	121	385	164	170	292
100						
112M						
132S						
132M						
132Ma						
160M						
160L						
180M						
180L						
200L						
225S						
225M						
250M						

* Standard

SG63PV...



SG63PZ...



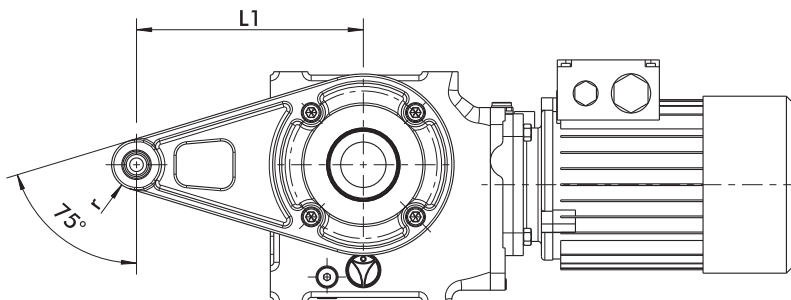
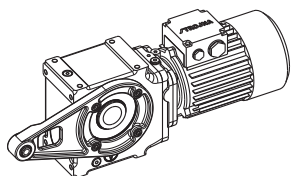
Torque Arm

SG...SM/MR

Position

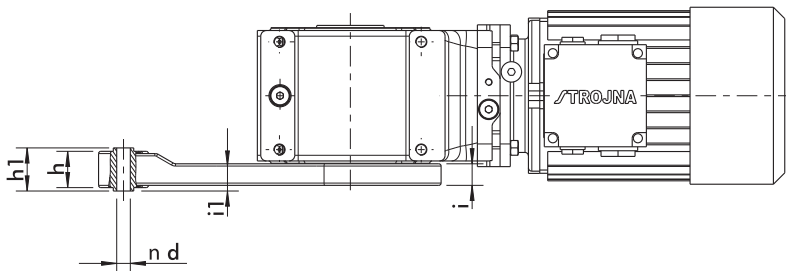
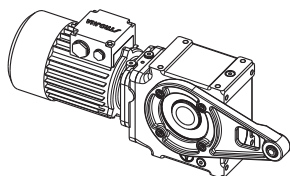
Left

SG...SM/MRL...



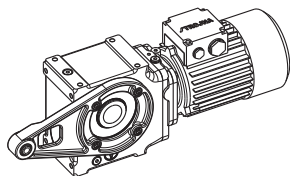
Right

SG...SM/MRD...

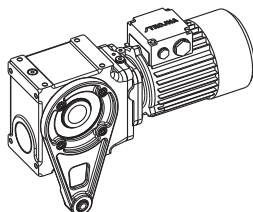


Direction

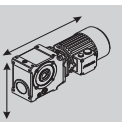
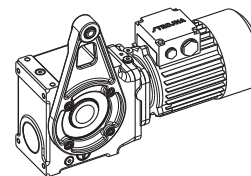
SG...SM/MR...0



SG...SM/MR...1



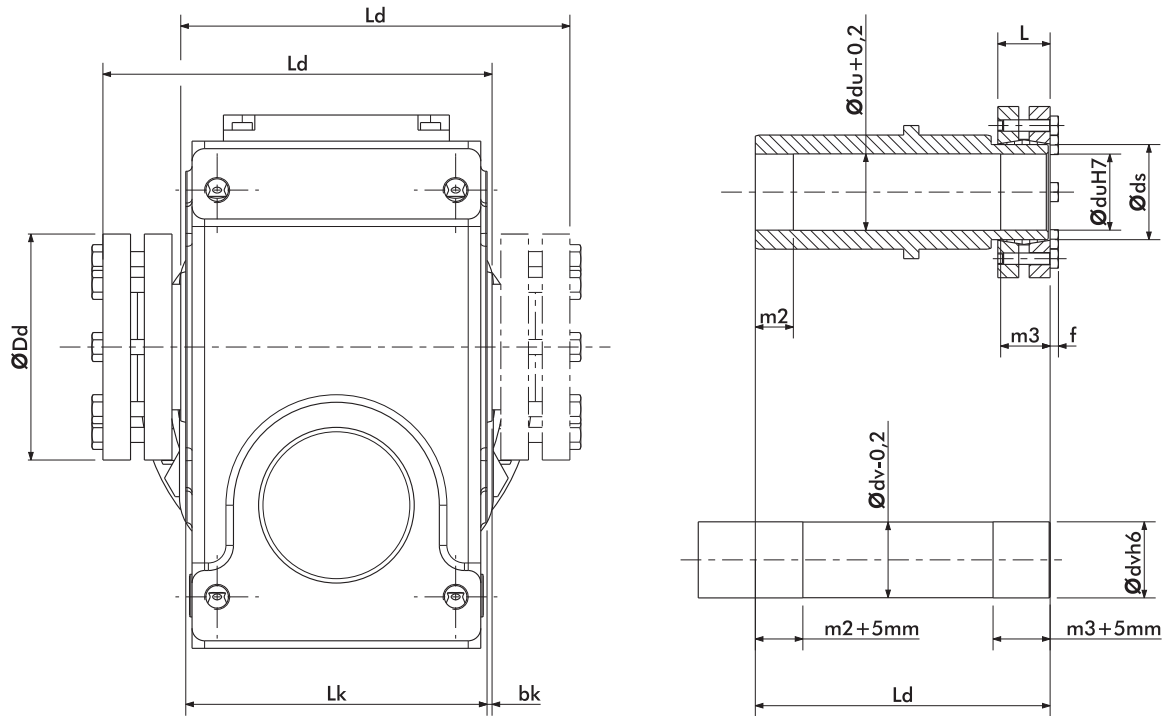
SG...SM/MR...2



	L1	r	h	h1	d	i1	i
SG1	132	23	32	38	12	20	15
SG2	160	23	32	38	12	22	17
SG3	180	23	32	38	12	26	21
SG4	200	23	32	38	12	26	21
SG5	225	36	56	62,5	20	33	23
SG6	250	36	56	62,5	20	36,25	23

Shrink disc

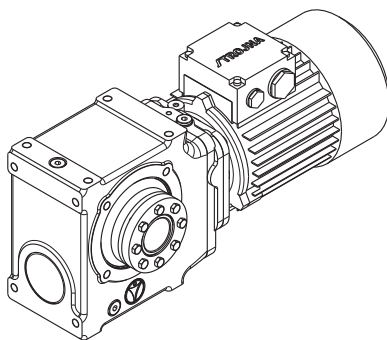
SG...(P)D SM



Position

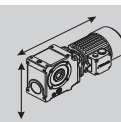
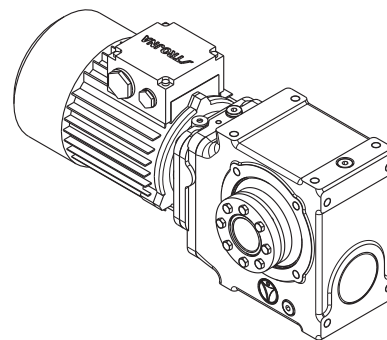
Left

SG...(P)DL SM



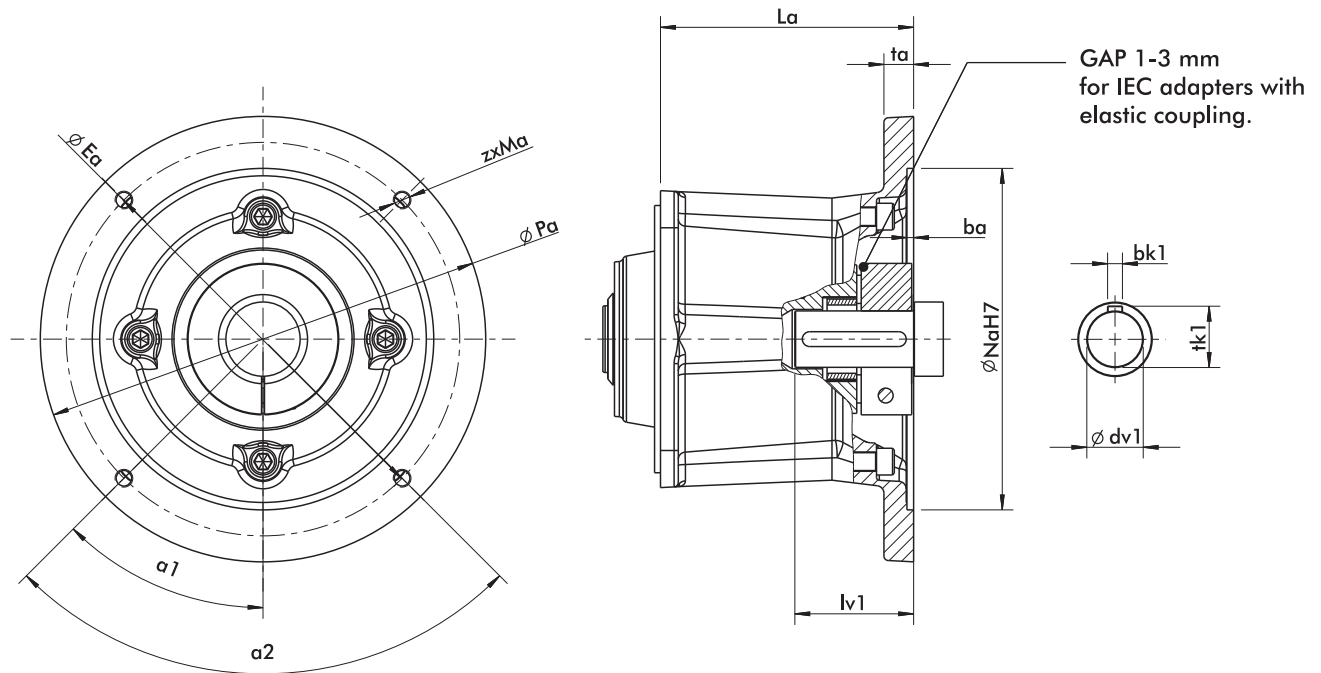
Right

SG...(P)DD SM



	m2	m3	Lk	bk	Ld	du/dv	ds	Dd	L	f	M _{smax} [Nm]	M _p [Nm]
SG1	20	20	95	5	130	30	36	72	23,5	4	570	12
SG2	20	25	105	5	140	35	44	80	25,5	4	780	12
SG3	30	25	124	3	160	40	50	90	27,5	4	1160	12
SG4	30	25	120	5	160	40	50	90	27,5	4	1160	12
SG5	30	30	140	5	180	50	62	110	30,5	4	2200	12
SG6	30	30	150	5	192	50	62	110	30,5	4	2200	12

Dimensions - IEC adapter



IEC-B5	Pa	Na	ba	Ea	zxMa	$\alpha 1$	$\alpha 2$	La	ta	dv1	lv1	tk1	bk1	m (kg)
A63	140	95	3,5	115	4xM8	45°	90°	68	10	11j6	23	12,5	4	3
A71	160	110	4	130	4xM8	45°	90°	68	10	14j6	30	16	5	3
A80	200	130	4	165	4xM10	45°	90°	96	14	19j6	40	21,5	6	6
A90	200	130	4	165	4xM10	45°	90°	96	14	24j6	50	27	8	6
A100	250	180	4,5	215	4xM12	45°	90°	113	18	28j6	60	31	8	13
A112	250	180	4,5	215	4xM12	45°	90°	113	18	28j6	60	31	8	13
A132	300	230	4,5	265	4xM12	45°	90°	170,5	20	38k6	80	41	10	26
A160	350	250	4,5	300	4xM16	45°	90°	233	20	42k6	110	45	12	52
A180	350	250	5,5	300	4xM16	45°	90°	233	20	48k6	110	51,5	14	52
A200	400	300	6	350	4xM16	45°	90°	239	24	55m6	110	59	14	75
A225	450	350	6	400	8xM16	22,5°	45°	239	24	60m6	140	64	18	80
A250	550	450	6	500	8xM16	22,5°	45°	245	24	65m6	140	69	18	140
A280	550	450	6	500	8xM16	22,5°	45°	245	24	65m6	140	69	18	160
A315	660	550	7	600	8xM20	22,5°	45°	381	26	80m6	170	85,4	22	250

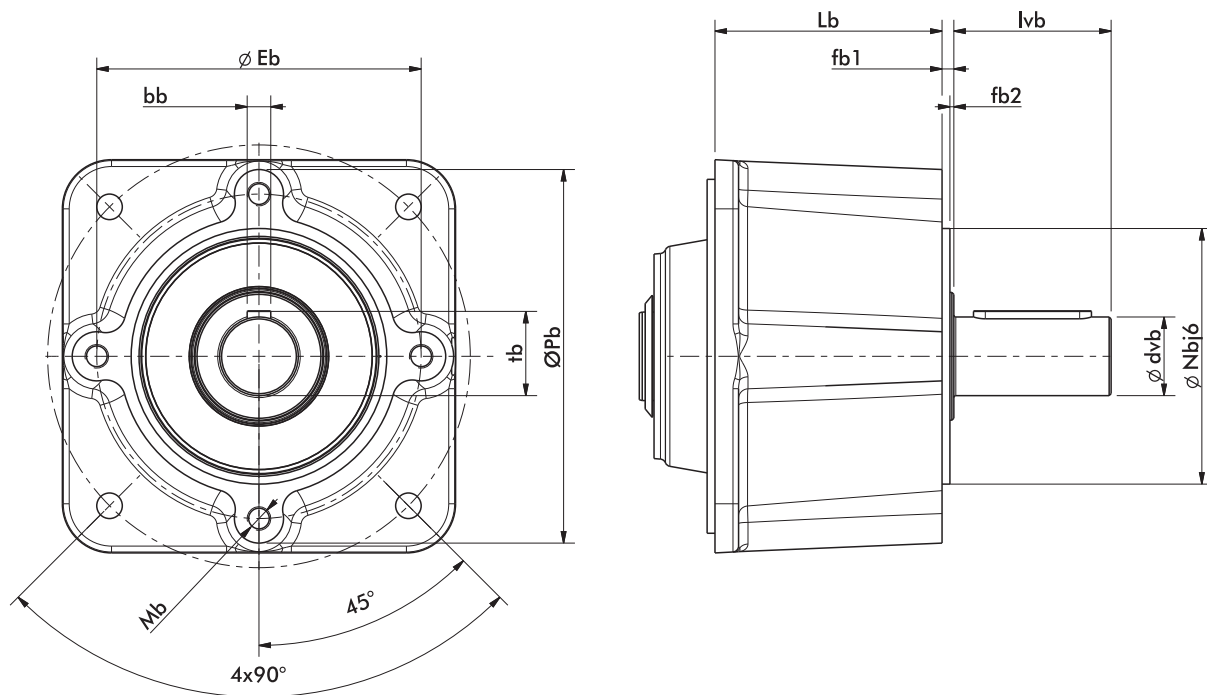


IEC-B14	Pa	Na	ba	Ea	zxMa	$\alpha 1$	$\alpha 2$	La	ta	dv1	lv1	tk1	bk1	m (kg)
A63	120	80	3,5	100	4x ϕ 7	45°	90°	68	8	11j6	23	12,5	4	2,5
A71	140	95	3,5	115	4x ϕ 9	45°	90°	68	10	14j6	30	16	5	3
A80	160	110	4	130	4x ϕ 9	45°	90°	96	14	19j6	40	21,5	6	5
A90	160	110	4	130	4x ϕ 9	45°	90°	96	14	24j6	50	27	8	5
A100	200	130	4	165	4x ϕ 11	45°	90°	113	18	28j6	60	31	8	11
A112	200	130	4	165	4x ϕ 11	45°	90°	113	18	28j6	60	31	8	11
A132	250	180	4,5	215	4x ϕ 13	45°	90°	140	20	38j6	80	41	10	23

IEC adapters are delivered by standard without elastic coupling with direct mounting.
For IEC adapter with elastic coupling please specify request in order.

NOTICE: Please check with Stroina on using 2-pole IEC motors

Dimensions Input shaft



Input shaft													
Type		Lb	lvb	fb1	fb2	dvb	tb	bb	Nb	Eb	Mb	Pb	m (kg)
B1	(63-71)	48,5	40	5	2	20j6	22,5	6	55	68	M6X10	80	2,5
B2	(80-90)	61	50	5	2	25j6	28	8	80	100	M8X14	116	4
B3	(100-112)	78	60	5	2	30k6	33	8	110	130	M10X17	150	8
B4	(132)	116	80	6	2	40k6	43	12	130	165	M12x20	190	17
B5	(160-180)	158	110	6	2	60m6	64	18	180	215	M16X24	245	38
B6	(200-225)	156	120	9	4	70m6	74,5	20	200	240	M20X35	280	60
B7	(250-280)	164	140	9	4	80m6	85	22	265	300	M24x36	350	110
B8	(315)	177	170	10	5	90m6	95	25	300	350	M24x36	450	200



Intruduction on IEC motors:

New efficiency classes for the low-voltage three-phase motors (IE = International Efficiency)

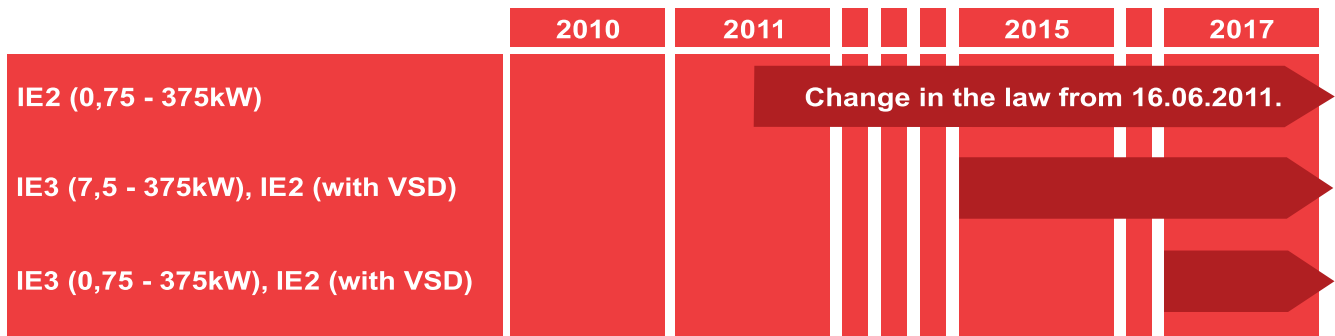
Along with the international discussion on the energy efficiency a worldwide harmonized energy efficiency classification system has been established for low-voltage three-phase asynchronous motors.

For many years low-voltage three-phase motors in the European Union have been sold in three efficiency classes EFF3, EFF2 and EFF1. Aside from this, many different efficiency classification systems have been introduced and well-proven in many countries all over the world.

This was the reason for the International Electrotehcnical Commission IEC to develop and publish an energy efficiency standard which replaces all previous national issues. In parallel IEC developed and issued a new standard for determining motor efficiency. The new standard IEC 60034-30 defines and harmonizes worldwide the efficiency classes IE1, IE2 and IE3 for low-voltage three-phase motors in the power range from 0.75 kW to 375 kW (2p=2, 4, 6):

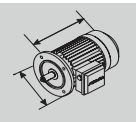
- IE1 = Standard Efficiency**
- IE2 = High Efficiency**
- IE3 = Premium Efficiency**

From now motors can be offered and sold with the new classes IE1, IE2 and IE3. In that case the efficiency has to be determined according to the new requirements given in the IEC 60034-2-1 standard.

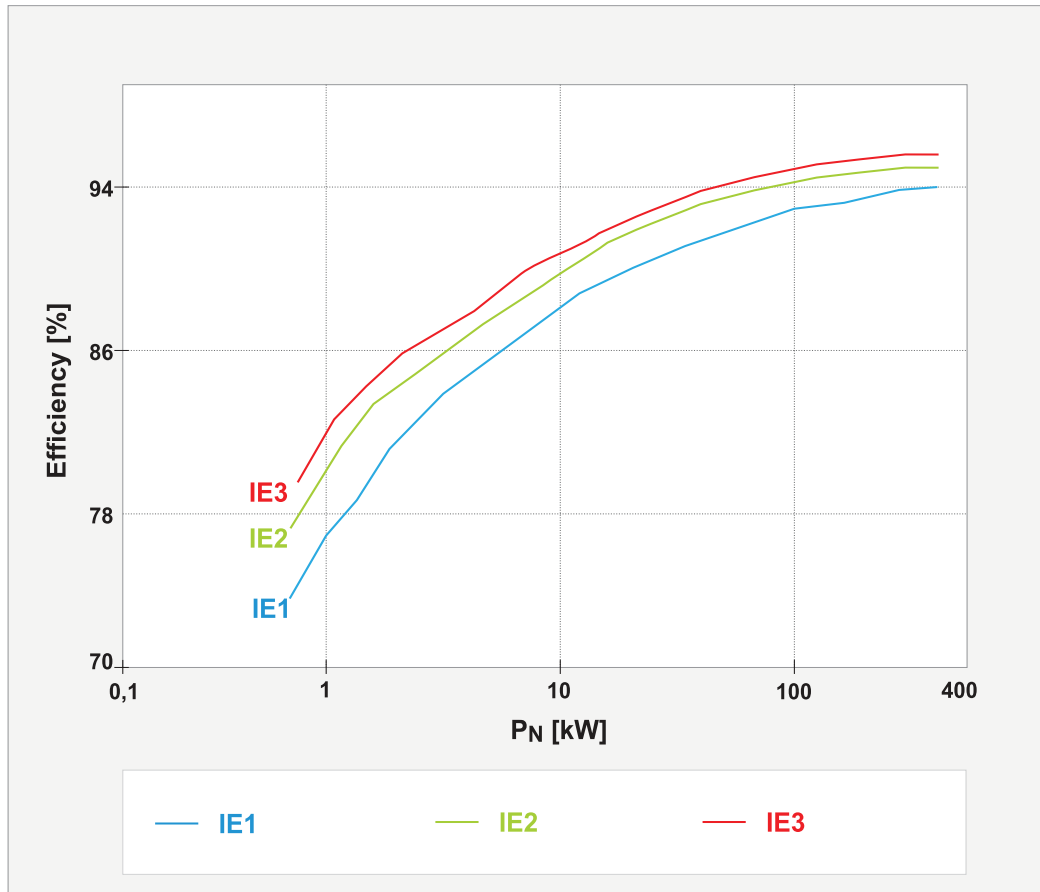


According to the Comission Regulation (EC) No 640/2009 (introduced in July 2009) the required efficiency class of general-purpose motors (introduced to the market in future) will be as follows:

- From 16 June 2011, motors placed for the first-time on the market shall have a minimum efficiency class of IE2.
- From 1 January 2015, motors with a rated output between 7.5 - 375 kW shall have a minimum efficiency class of IE3, or IE2 if they are operated / equipped with electronic speed control (VSD).
- From 1 January 2017, motors with a rated output between 0.75 - 375 kW shall have a minimum efficiency class of IE3, or IE2 if they are operated / equipped with electronic speed control (VSD).



Electronic speed control is carried out using frequency converter (VSD) that adjusts the speed of the motor - and therefore the torque produced - based on the energy needed.



The efficiency class system specified under IEC 60034-30 is valid for low voltage three phase squirrel cage induction motors with the following specifications:

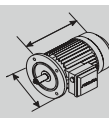
- Rated voltage up to 1000V
- Rated output between 0,75kW and 375kW
- Either 2,4 or 6 poles
- Rated on the basis of continuous duty (S1) or intermittent periodic duty (S3) with cyclic duration factor of 80% or higher
- Capable of operating direct on-line
- Rated for operation conditions in accordance with IEC 60034-1 (temperature, installation altitude, etc.)

In accordance with IEC34-1 the normal climate is characterized by:

- Environment temperature: $-16^{\circ}\text{C} \div +40^{\circ}\text{C}$
- Altitude: up to 1000m
- Atmospheric pressure: 1050mbar
- Relative humidity: $60\% \div 90\%$

This regulation shall not apply to:

- Motors specified to operate wholly immersed in a liquid
- Motors completely integrated into a product (for example pump, fan or compressor) of which the energy performance cannot be tested independently from the product
- At altitudes exceeding 4000 meters above sea level
- Where ambient air temperatures exceed 60°C
- Where ambient air temperatures are less than -30°C for any motor or less than 0°C for a motor with water cooling
- In potentially explosive atmospheres as defined in Directive 94/4EC of the European Parliament
- Break motors



Construction of the motors

1. Housing:

The housing of the frame sizes 63 to 112 is made of Aluminium.

The feet for the motors:

- frame size 63 to 112 - Aluminium - screwed
- frame size 132 - Cast iron - screwed or integrated
- frame size 160 to 280 - Cast iron - integrated
- frame size 315 - Cast iron - screwed or integrated

Cable glands:

Frame size 63-100 : M20 / 112 and 132: M25 / 160 and 180: M40 / 200 and 255: M50 / 250 and 280 : M63 / 315 and 355ML : M76

2. End-shields:

End-shields for motors of the frame sizes 63 to 100 are made of Aluminium (flange B5 and B14 are made of cast iron). End-shields and flanges for motors of the frame sizes 112 to 355 are made of cast iron. Motors of frame 80, 90 and 100 : on request end shields may be made of cast iron.

3.Rotor:

The winding of the rotor is made of die-casted aluminium. The rotor together with the shaft is dynamically balanced with half key according to DIN ISO 8821.

4.Terminal boxes located on top

For request, the position of the terminal box can be located at the right or left side looking from the shaft end, for frame size 80 to 315. The terminal box can be rotated in steps of 180° at frame size 63 to 180. The terminal box can be rotated in steps of 90° at frame size 200 to 355.

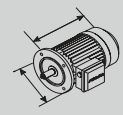
5.Cooling

The motors are air cooled by means of external surface ventilation (standard IEC 60034-6; cooling according to IC 411). Standard motors have a radial flow centrifugal fan allowing fully reversible rotation. Please chek the minimum distance between cover and wall by mounting the motor.

6.Degree of protection:

All motors of this catalogue are manufactured with the degree of protection IP 55 (IP - International Protection). On request the motors are available with a higher degree of protection.

IP	Protection of work equipment	Protection of people	IP	Protection of work equipment
First pre-fix	Against penetrate of solid foreign bodies	Against access of dangerous parts with	Second prefix	Against penetrate of water with detrimental action
0.	(no protection)	(no protection)	.0	(no protection)
1.	≥50 mm diameter	back of hand	.1	drip - proof vertical
2.	≥12,5 mm diameter	finger	.2	drip - proof (15° inclination)
3.	≥2,5 mm diameter	tool	.3	spray - proof
4.	≥1,0 mm diameter	wire	.4	splash - proof
5.	dustproof	wire	.5	jet - proof
6.	dust - tight	wire	.6	strong jet - proof
			.7	short-time immersion
			.8	permanent immersion



7. Nominal voltage and frequency

The nominal voltage of three phase motors is 400 V at the nominal frequency of 50Hz. Motors for another nominal voltage and / or another nominal frequency are available on request.

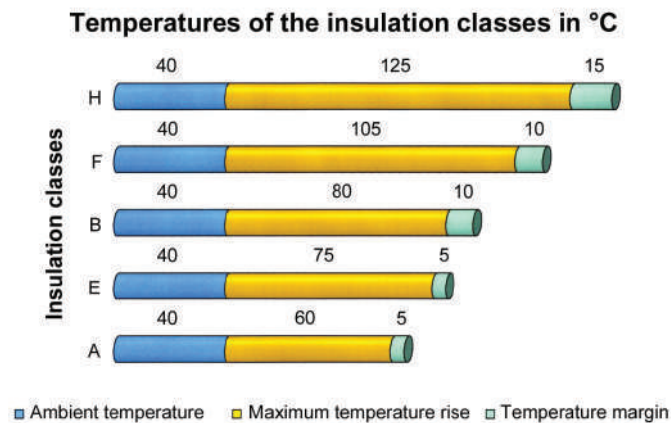
8. Nominal output

The motors will properly operate with the nominal output at continuous duty (S1) when the following conditions are observed:

- Motor is supplied with nominal voltage and frequency
- Ambient temperature is not higher than +40°C
- Altitude of site is up to 1000m above sea level

9. Insulation

Standard motors are manufactured in the insulation class F.



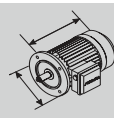
10. Options

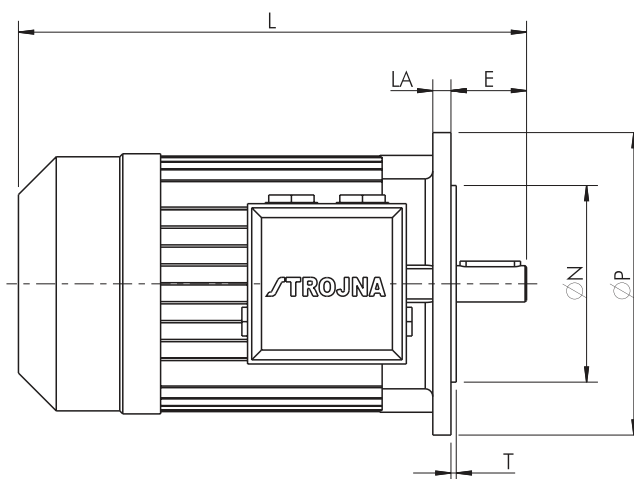
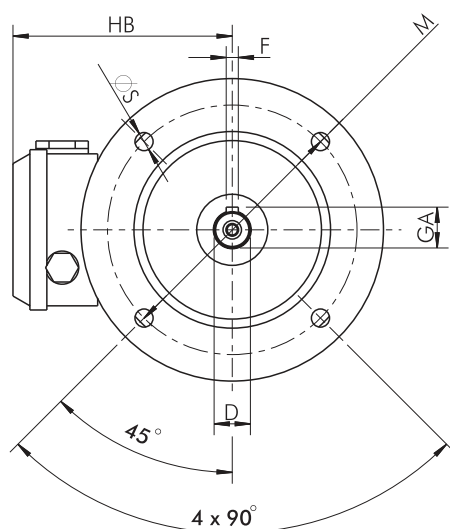
The motors can be equipped with optional accessories (e.g. PTC, Pt100, anti-condensation heater, external fan).

11. Ordering

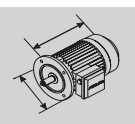
When ordering motors please specify the following information:

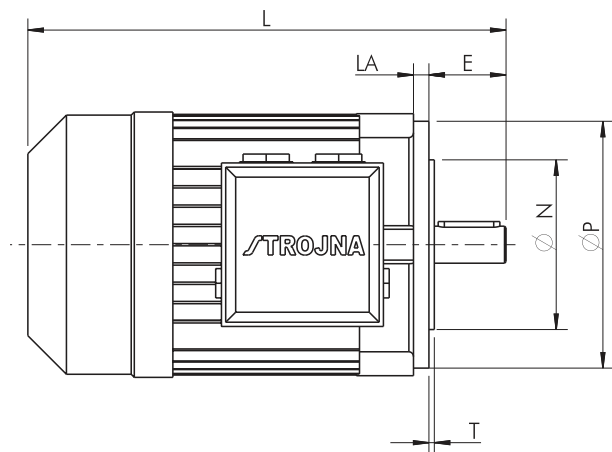
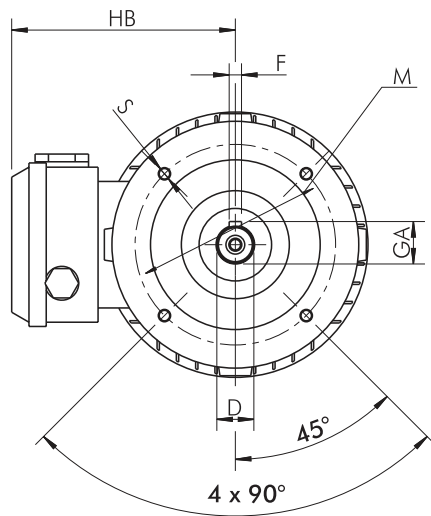
- Quantity
- Motor size
- Nominal output, kW
- Rated speed
- Type of mounting
- Nominal voltage and frequency
- Any special features or options



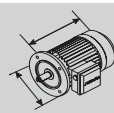


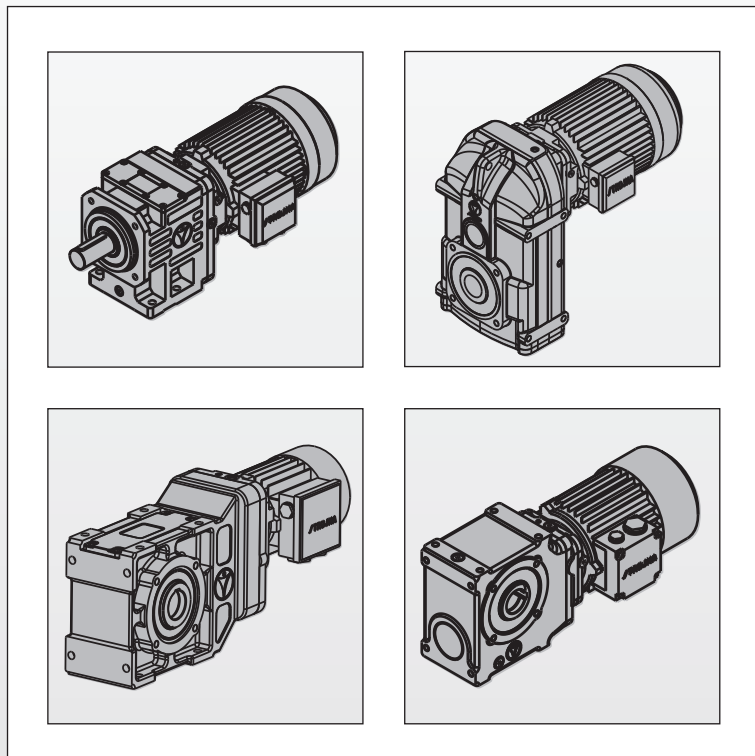
Type		D	E	F	GA	M	N	P	LA	T	S	HB	L	Pole
63	A	11j6	23	4h9	12,5	115	95j6	140	9	3	10	102	200	2, 4, 6, 8
	B												210	2, 4, 6, 8
71	A	14j6	30	5h9	16	130	110j6	160	9	3,5	10	111	223	2, 4, 6, 8
	B												245	2, 4, 6, 8
80	A	19j6	40	6h9	21,5	165	130j6	200	10	3,5	12	120	266	2, 4, 6, 8
	B												266	2, 4, 6, 8
90	S												330	2, 4, 6
		24j6	50	8h9	27	165	130j6	200	8	3,5	12	130	305	8
	L												330	2, 8
													355	4, 6
100	LA												420	2, 4
	LB	28j6	60	8h9	31	215	180j6	250	11	4	15	140	440	4
	L												376	6, 8
112	M	28j6	60	8h9	31	215	180j6	250	12	4	15	164	384	2, 6, 8
													411	4
132	S												463	2, 6, 8
	M	38k6	80	10h9	41	265	230j6	300	12	4	15	178	501	2, 4
													501	4, 6, 8
160	M	42k6	110	12h9	45	300	250j6	350	13	5	19	210	612	2, 4, 6, 8
	L	42k6	110	12h9	45	300	250j6	350	13	5	19	210	612	2, 4, 6, 8
180	M	48k6	110	14h9	51,5	300	250j6	350	13	5	19	228	705	2, 4
	L	48k6	110	14h9	51,5	300	250j6	350	13	5	19	228	705	4, 6, 8
200	L	55	110	16	59	350	300	400	16,5	5	19	320	850	2, 4, 6, 8
225	S	60	140	18	64	400	350	450	18	5	19	345	960	4, 8
		55	110	16	59	400	350	450	18	5	19	345	930	2
	M	60	140	18	64	400	350	450	18	5	19	345	960	4, 6, 8
250		60	140	18	64	500	450	550	23	5	19	385	1010	2
	M	65	140	18	64	500	450	550	23	5	19	385	1040	4, 6, 8





Type	D	E	F	GA	M	N	P	S	T	LE	HB	L	Pole
63	A	11j6	23	4h9	12,5	100	80j6	120	M5	3	14	210	2, 4, 6, 8
	B											210	2, 4, 6, 8
71	A	14j6	30	5h9	16	115	95j6	140	M8	3	14	223	2, 4, 6, 8
	B											245	2, 4, 6, 8
80	A	19j6	40	6h9	21,5	130	110j6	160	M8	3,5	14	266	2, 4, 6, 8
	B											278	2, 4, 6, 8
90	S	24j6	50	8h9	27	130	110j6	160	M8	3,5	10	330	2, 4, 6, 8
	L											330	2, 4, 6, 8
100	LA											420	2, 4
	LB	28j6	60	8h9	31	165	130j6	200	M10	3,5	12	440	4
	L											376	6, 8
112	M	28j6	60	8h9	31	165	130j6	200	M10	3,5	12	384	2, 6, 8
												411	4

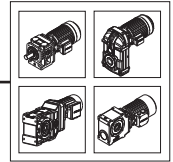




OPERATING AND MAINTENANCE MANUAL

ZG	FG
KG	SG

GEAR UNITS



1. INFORMATION

1.1 General information

These Operating manual (OM) is part of the gear unit as supplied, and you must read them before you work with the gear unit. The instructions in the OM must be followed. Keep the OM close to the gear unit.



Warning! We assume no liability for damages or disruptions of operations resulting from the failure to observe this OM

1.2 Safety and information markings

- After being delivered, the unit must be inspected for any damage that may have occurred during transport. If the unit's condition warrants, it may be necessary to take action to prevent the unit from being put into operation.
- The customer is responsible for setting up the drive in accordance with good engineering practices. The instructions in these Operation Manual must be followed to achieve the confirmed characteristics of the drive units and if any warranty claims are to be met.
- Make certain that you never put damaged products into operation!
- Read these Operating Manual carefully before you begin any setup, installation, or maintenance work. Installation, startup, maintenance and repair work on the gear unit / gear motor as well as on electrical accessory equipment may only be performed by qualified technical personnel, taking the following items into account:
 - operating manual, information labels/tags on the gear unit / geared motor,
 - all other project documents, setup manuals, operating manuals,
 - the applicable regional and national regulations on safety and accident prevention.

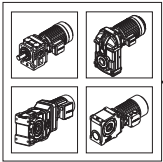
2. STORAGE

The following items must be taken into account when storing the gear units:

- In general, the storage of drive units must be done in closed rooms.
- Ambient temperature max. 25 °C (77 °F)
- Relative humidity max. 80%.
- The drive units are to be protected from exposure to the sun or UV light.
- No aggressive or corrosive materials are to be stored in the vicinity of the unit.
- The gear units are to be stored in the same position that is intended for a later use.
- The gear units are to be rotated 1-2 revolutions on the output side every 6 months to ensure that the interior parts are wetted with lubricant.
- The units are to be protected from mechanical loads and exposure to outside forces.

2.1 Long-term storage:

- When the gear units are to be stored for longer than 12 months, they must be completely filled with lubricant per the nameplate or lubricant plate.
- Unfinished, bare-metal parts on the outside of the unit are to be protected with a corrosion protection product (inspection every 6 months is recommended). The corrosion protection must be replaced after one year.
- Before starting the gear unit, drain the lubricant from it. If more than one lubricant chamber is present, make certain that all of the lubricant chambers have been drained out.
- If the gear units are stored for longer than 24 months before being put into service, they must be checked for leaks. If there are any visible cracks on the surfaces of sealing elements, such parts must be replaced.



3. MECHANICAL INSTALLATION - PREPARATIONS

The gear unit must not be put into operation unless:

- The information on the gear unit specifications plate matches the permissible local usage conditions.
- No damage caused, for example, by storage or transport, is apparent.
- And in particular, the shaft seals, cover caps, and guard hoods are not damaged.
- No leaks or loss of oil are visible.
- No corrosion or other indication of improper storage or storage under damp conditions is present.
- All of the packaging materials were removed.

As a general rule, drive shafts and flange surfaces must have all corrosion protection products and dirt cleaned from them, standard commercial solvents can be used.



IMPORTANT! The sealing lips on the shaft seals must not be allowed to come in contact with the solvent. Material can be damaged!

3.1 Bleeding the gear unit

Case 1: Gear drives lacking a vent plug: Sealed-design gear drives are supplied without a vent plug.

Case 2: The vent plug with transport locking device is installed at the proper position for the mounting position. The rubber strip must be completely turned off before the unit is put into operation.



The rubber strip must be completely turned off!

Gear units that are ordered without oil filling are supplied with internal rust proofing consisting of anti-corrosion oil. The anti-corrosion oil can however be mixed with the recommended lubricant indicated on the nameplate. This means that the unit does not have to be flushed before filling with oil.

4. SETTING UP THE GEAR UNIT

The proper oil level for the mounting position is designed by the plant.

When installing please ensure that the unit is not exposed to any shocks or vibrations in order to avoid noise during operation. The mounting surface should be even and torsionally rigid. Distortion of the gear case should also be avoided. The cooling air for gear unit motors must be able to flow unhindered around the gear unit.

Reduce reaction torque with a torque arm or a rubber buffer kit (no rigid joints!).

4.1 Installation and removal of hollow-shaft gear units

The customer-side machine shaft must be carefully cleaned and checked for any damage such as grooves or compressed areas before the hollow-shaft gear unit is installed.

The hollow-shaft are manufactured with tolerance ISO H7 class.

Before tightening the hollow-shaft gear unit on to the machine shaft, paint the surface of the machine shaft with lubricating pastesuch as Klüber Paste 46MR401.

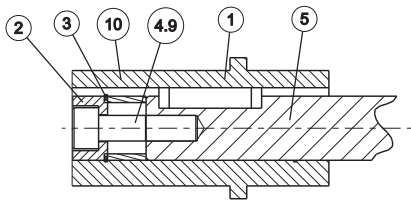
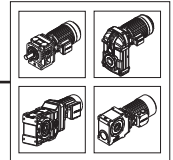


Figure 1
Mounting the customer shaft with a shoulder

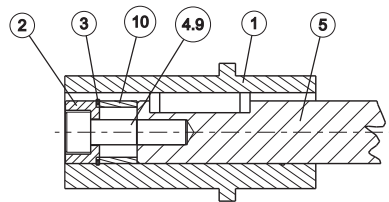


Figure 2
Mounting the customer shaft without a shoulder

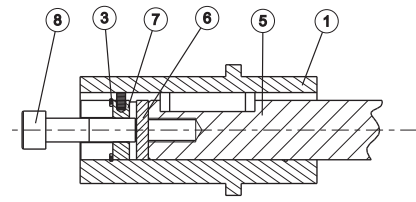


Figure 3
Removing the customer shaft with or without shoulder

4.1.1 Installation: (Figure 1 and Figure 2)

Draw the gear unit with hollow shaft onto the machine shaft. Insert the spacer ring, item 10, with there is a customer shaft without a shoulder, the circlip, item 3, and washer, item 2, into the hollow shaft and attach using the bolt, item 4.

4.1.2 Removal: (Figure 3)

Remove the screw (4), disc (2) and circlip (3), place the thrust washer (6) and jack nut (7) in the hollow shaft, insert the circlip and remove the gear unit from the shaft with jack screw (8).

Parts 4, 6, 7, 8 and 10 are not supplied with the gear unit. Parts 2, 3 and 9 are included in fixing kit.

1. Hollow shaft
2. Disc
3. Circlip DIN 472
4. Socket head screw DIN 6912 (to customer specification, length according to machine shaft length)
5. Customer's shaft with centering thread DIN332.2, Form DR
6. Thrust washer
7. Jack nut
8. Jack screw
9. Socket head screw DIN 6912
10. Spacer tube

5. LUBRICATION, INSPECTION AND MAINTENANCE

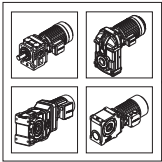
5.1 Lubrication

5.1.1 ZG gear units

Gear units and geared motors are supplied ready for operation. Gear units sizes from ZG1 to ZG6 are filled with synthetic gear oil labeling according to DIN51502 CLP PG ISO VG220 (according to ISO viscosity grade VG 220 from DIN51519). Sizes from ZG7 to ZG13 have standard filling with mineral gear oil labeling according to DIN51502 CLP ISO VG220 (according to ISO viscosity grade VG 220 from DIN51519) for ambient temperature -10 °C (14 °F) to +40 °C (104 °F).

5.1.2 FG gear units

Gear units and geared motors are supplied ready for operation. Gear units sizes FG1, FG2, FG3 are filled with synthetic gear oil labeling according to DIN51502 CLP PG ISO VG220 (according to ISO viscosity grade VG 220 from DIN51519). Sizes from FG4 to FG8 have standard filling with mineral gear oil labeling according to DIN51502 CLP ISO VG220 (according to ISO viscosity grade VG 220 from DIN51519) for ambient temperature -10 °C (14 °F) to +40 °C (104 °F).



5.1.3 KG gear units

Gear units and geared motors are supplied ready for operation. Gear units sizes KG1 to KG4 are filled with synthetic gear oil labeling according to DIN51502 CLP PG ISO VG220 (according to ISO viscosity grade VG 220 from DIN51519). Sizes from KG5 to KG9 have standard filling with mineral gear oil labeling according to DIN51502 CLP ISO VG220 (according to ISO viscosity grade VG 220 from DIN51519) for ambient temperature -10 °C (14 °F) to +40 °C (104 °F).

5.1.4 SG gear units

Gear units and geared motors are supplied ready for operation. SG gear units are filled with synthetic gear oil labeling according to DIN51502 CLP PG ISO VG460 (according to ISO viscosity grade VG 460 from DIN51519) for ambient temperature -10 °C (14 °F) to +40 °C (104 °F).

5.2 Inspection and maintenance

Gear units of the model range sizes ZG sizes ZG1 to ZG6; model range FG sizes FG1 to FG3; model range KG sizes KG1 to KG4, model range SG; are maintenance-free, and oil change is not necessary. The gear units are executed without breather plug, there are no oil drain, oil level respectively oil filling screws.

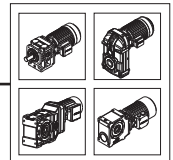
In the case of gear units of the model range ZG sizes ZG7 to ZG13; model range FG sizes FG4 to FG8; model range KG sizes KG5 to KG9, an oil change has to be executed corresponding to the maintenance periods. The gear units are executed with oil drain, respectively oil filling screws for the main mounting positions.



For special applications under difficult / aggressive ambient conditions, an oil change has to be done frequently! The exact quantities of oil are signs on the oil table.

5.3 Inspection and maintenance intervals

Time interval	Inspection and maintenance work
monthly	<ul style="list-style-type: none"> • Gear units must be checked for noise changes (running noise of the gearing and rolling bearings) • Check the housing temperature (max. 90 °C, 194 °F) • Visible inspection of seals for leakage • Remove dust deposit
every 3 months	<ul style="list-style-type: none"> • Clean the exterior of the vent plug
every half year	<ul style="list-style-type: none"> • Check the rubber buffer set • Check the fixing bolts to make certain they are tight
every 5.000 service hours, no later than every 4 years	<ul style="list-style-type: none"> • Visual check of the shaft seals; if applicable replace the shaft seals
every 10.000 service hours, no later than every 5 years	<ul style="list-style-type: none"> • Oil change: ZG7 to ZG13 • Oil change: FG4 to FG8 • Oil change: KG5 to KG9
every 10 years	<ul style="list-style-type: none"> • General overhaul



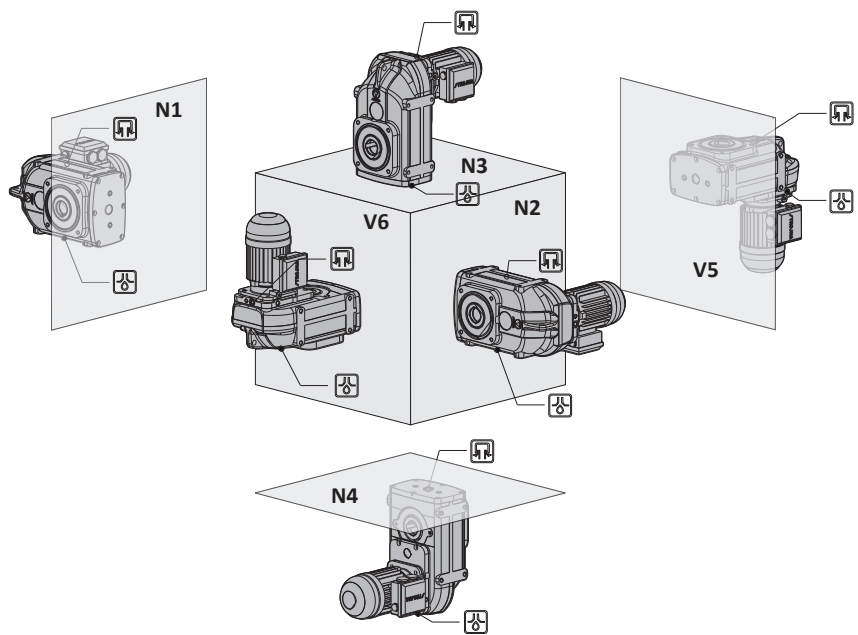
5.4 Oil quantity (in liters)

Tip	Ambijent °C	DIN (ISO)	ISO VG	ARAL	CASTROL	SHELL	MOBIL
FG	-10°C ... +60°C	CLP	220	Degol BG 220	Alpha SP 220	Omala 220	Mobilgear 600 XP 220
	-20°C ... +80°C	CLP PG	460	Degol GS 460	Alphasyn PG 460	Tivela S 460	Glygoyle 460
ZG	-25°C ... +60°C	CLP PG	220	Degol GS 220	Alphasyn PG 220	Tivela S 220	Glygoyle 220
	-40°C ... +60°C	CLP HC	220	Degol PAS 220	Alphasyn T 220	Omala S4 GX 220	SHC 630
KG	-20°C ... +40°C	HCE	220	Eural gear 220	Optileb GT 220	Cassida GL 220	SHC Cibus 220
	-20°C ... +80°C	CLP PG	460	Degol GS 460	Alphasyn PG 460	Tivela S 460	Glygoyle 460
SG	-25°C ... +60°C	CLP PG	220	Degol GS 220	Alphasyn PG 220	Tivela S 220	Glygoyle 220
	-40°C ... +20°C	CLP-HC	220	Degol PAS 220	Alphasyn T 220	Omala 220 HD	SHC 630
	-20°C ... +40°C	HCE	460	-	-	-	Glygoyle 460

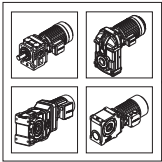
- CLP -Mineral oil 1) Standard lubrication according DIN 51517 - CLP ISO 220
- CLP PG -Polyglycol oil 2) Standard lubrication according DIN 51517 - CLP ISO VG 460
- CLP HC -Polyalphaolefin oil 3) Special starting procedure
- HCE -Lubricants for food processing industry Special lubricants on inquiry

5.4.1 FG gear units

FG	Mounting position					
	N1	N2	N3	N4	V5	V6
12	1,1	1,1	1,5	1,6	1,7	1,9
22	1,2	1,2	1,7	1,8	1,9	2,3
23	1,4	1,4	2,0	2,2	2,4	2,9
32	1,9	1,9	3,0	3,1	3,4	4,0
33	2,3	2,3	3,8	4,0	4,3	5,0
42	3,1	3,1	4,2	4,8	4,8	7,0
43	3,5	3,5	5,8	6,2	6,8	7,7
44	3,7	3,7	7,0	7,5	8,0	9,0
52	6,2	6,2	9	9,2	10	12
53	6,5	6,5	9,7	10	12	15
54	6,8	6,8	10	12	13	16
62	10	10	12	13	14	17
63	9,3	9,3	13	14	16	19
64	10	10	14	15	18	22
72	14	14	16	17	19	24
73	15	15	21	24	25	27
74	15,5	15,5	23,5	26	27	33
83	28	28	40	43	46	50
84	29,5	29,5	48	54	56	60
85	31	31	50	58	61	66

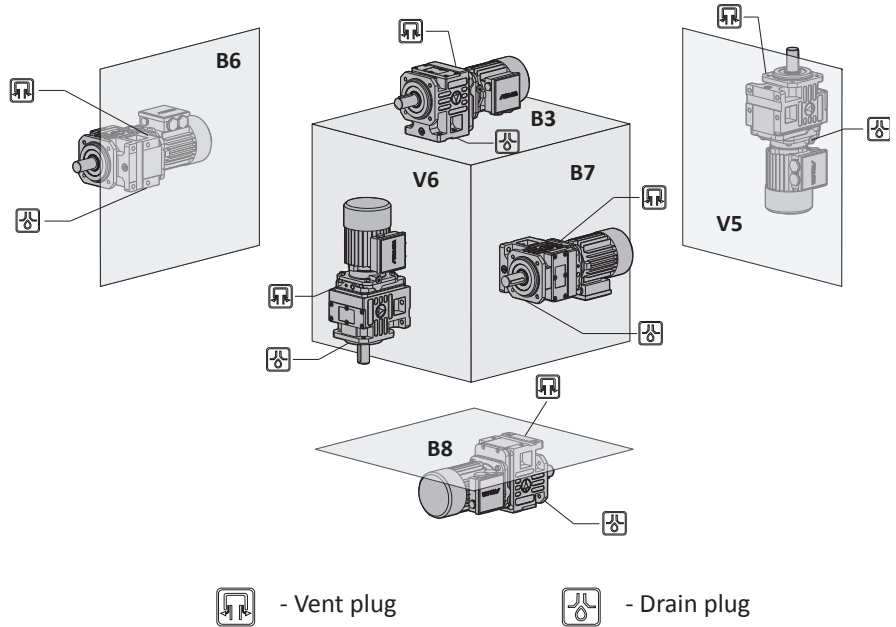


- Vent plug - Drain plug



5.4.2 ZG gear units

ZG	Mounting position					
	B7	B6	B3	B8	V6	V5
12	0,4	0,4	0,2	0,4	0,3	0,4
22	0,8	0,8	0,7	1,4	1,3	1,5
23	0,9	0,9	0,8	1,6	1,5	1,7
32	0,9	0,9	0,7	1,4	1,4	1,6
33	1	1	0,9	1,9	1,8	2
42	1,2	1,2	1	2,1	2	2,2
43	1,4	1,4	1,3	2,7	2,6	2,8
44	1,9	1,9	1,8	3,5	3,4	3,7
52	1,2	1,2	0,9	1,9	1,8	2,2
53	1,6	1,6	1,5	3,2	3,1	3,5
54	2,2	4,4	4,6	5,6	3,7	3,7
62	1,5	1,5	1,2	2,5	2,6	2,7
63	2,1	2,1	1,8	3,5	3,7	3,7
64	2,7	2,7	2,3	4,5	4,6	4,8
72	2,9	2,9	2,1	4,3	4,5	4,5
73	3,6	3,6	3,2	6,4	6,5	6,8
74	4,2	4,2	3,7	7,5	7,5	7,8
82	3,3	3,3	2,7	5,5	5,7	5,9
83	3,9	3,9	3,5	7,2	7,4	7,8
84	5,2	5	4,6	9,3	9,5	10,5
92	8,1	8,1	7	14,4	14,3	15
93	9,3	9,3	8,5	17,5	17,2	18,5
94	10,5	10,5	8,5	18,5	18,5	20
102	11	11,8	10,2	20,6	20,3	22
103	13,8	13,8	12,5	25,6	25,2	27
104	15,7	15,7	14,3	28,5	28,9	31
112	17	17	15,9	32	32,5	33
113	18,4	18,4	17,5	36	37	39
114	24	24	22	45	46	48
122	24	24	22	45	46	46
123	28	28	26	54	56	59
124	36	36	34	68	69	72
132	33	33	31	63	64	65
133	41	41	39	81	83	88
134	55	55	50	101	104	108

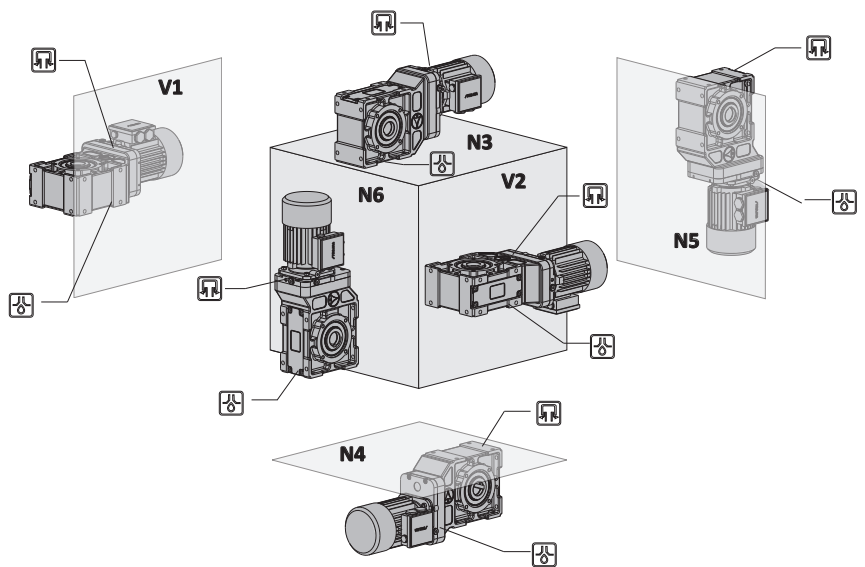



 - Vent plug


 - Drain plug

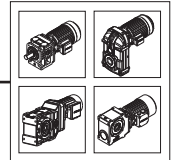
5.4.3 KG gear units

KG	Mounting position					
	N3	N4	N5	N6	V1	V2
12	0,8	0,9	1,2	1,5	1,3	1,4
22	1	1	1,45	1,6	1,5	1,6
23	1	1,1	1,45	1,8	1,7	1,8
32	1,6	1,6	2,2	2,1	2,2	2,2
33	1,7	1,8	2,6	2,8	2,6	2,7
42	2,5	2,6	3,0	4,5	4,5	4,0
43	2,6	2,7	3,3	4,7	4,3	4,4
44	2,8	3,2	3,5	5,0	4,8	4,8
53	3,0	3,8	4,2	5,3	3,2	3,3
54	3,5	4,1	4,7	5,7	3,8	4
55	4,2	4,8	5,3	6,2	5,6	6,0
63	5,0	6,8	7,0	9,2	5,2	5,4
64	5,8	7,5	7,5	9,8	6,0	6,5
65	6,7	8,2	7,9	10,5	7,5	8,0
73	7,8	11	14	16	8	8,2
74	8,5	12	15	17	15	15
75	9,6	12,8	16,5	18,5	17	17
83	17	20	22	28	18	19
84	17	18,5	25	32	20	21
85	20	21,5	26,5	36	23	25
93	35	48	45	67	40	42
94	38	52	48	72	45	47
95	42	56	53	77	52	56



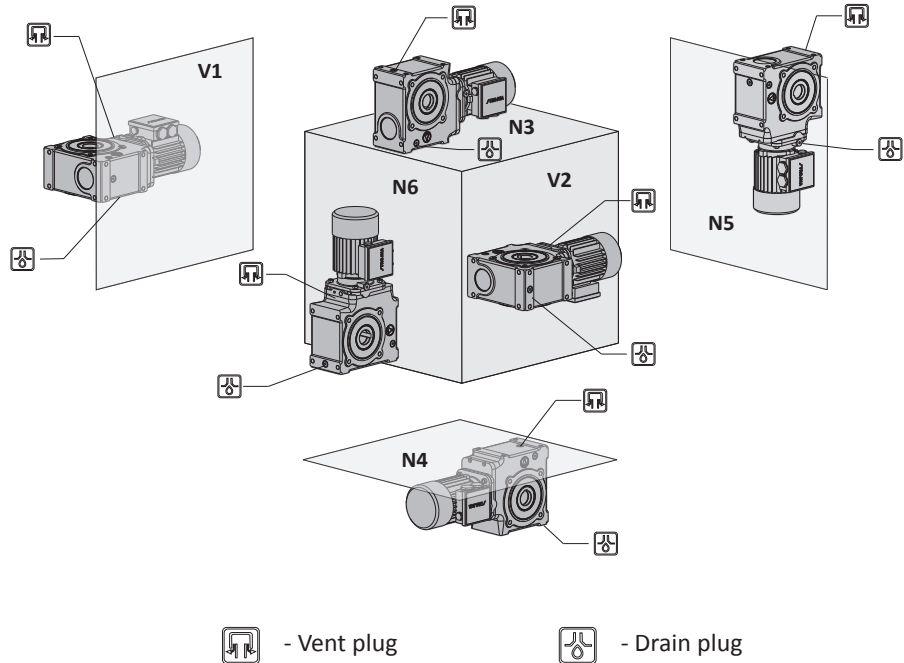
 - Vent plug

 - Drain plug



5.4.4 SG gear units

SG	Mounting position					
	N1	N2	N3	N4	N5	N6
12	0,9	0,9	0,9	1,1	1,1	0,9
22	0,9	1,2	1,2	1,2	1,2	1,2
32	1,1	1,6	1,6	1,6	1,6	1,6
33	1,7	1,7	2,5	2,5	2,5	2,9
42	2	2	3,4	3,4	3,4	3,4
43	3,1	3	4,5	4,5	4,5	5,1
52	3,2	3,2	5,5	5,5	5,5	5,5
53	3,5	3,5	6,3	6,3	6,3	6,3
62	5,6	5,6	9	9	9	9,6
63	5,9	5,9	10,3	10,3	10,3	10,3
55	4,4	4,4	4,6	5,6	3,7	3,7
63	6,2	6,2	6,8	8,2	4,8	4,8



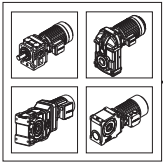
6. ELECTRICAL CONNECTION

Work is only permitted to be carried out by qualified specialists on the stationary motor while disconnected and prevented from being switched on again. This also applies for the auxiliary power circuits (e.g. optional anti-condensation heaters).

Before starting work, make sure that a protective conductor is securely connected! Check for isolation from supply! Observe the rules of electrical engineering and electronics in the applicable rules and regulations, particularly with regard to protective measures. Observe requirements of the national or local energy companies.

- check that the mains voltage and frequency correspond to the data on the motor rating plate;
- connect the motor only as shown in the wiring diagram included in the terminal box of the motor;
- implement safe installation;
- correct the direction of rotation by replacing 2 phases;
- terminal box must be dust and watertight;
- protect phases with the safety switch;
- the insulation resistance needs to be checked prior to start-up and again after any extended periods of storage; Exceeding the tolerances in EN 60034-1/IEC 34-1 – voltage + 5 %, frequency +2 %, curve shape, symmetry – increases the temperature and influences electromagnetic compatibility. Observe nameplate data and the wiring diagram in the terminal box. Connections must be made in such a way as to ensure that a permanently safe electrical connection is maintained (no protruding wire ends); use the corresponding cable end pieces.

Air clearances between bare live parts themselves and between bare live parts and earth must be 5.5 mm (0.2 inch) ($U_n = 690$ V).



6.1 Preparation for connecting the electrical motor



Attention! Wear safety glasses - danger of injury from fragments!

- Put on the terminal box cover and fasten with screws.
- Determine which cable entries to open.
- Open the cable entries:
 - with a chisel or similar (hold at angle),
 - by a light tap with a hammer



Caution! Do not penetrate inside the terminal box!

- Open the terminal box, remove blasted lid
- With provided lock nuts fix the cable entry,
- Seal the cable entry.

Terminal box should be free of any foreign objects, dirt and moisture. Unused cable entries and terminal box seal tightly. For a test run, secure electrical motor shaft key. For the break motors, please ensure that brake is functioning properly before putting electrical motor in to the operation.



Caution! It is mandatory to install protective switch with for an over current protection for windings of electrical motor. Voltage fuses does not protect the motor against overload, only the supply system leads or switching devices.

6.2 Connecting the motor

Use the circuit diagrams in the terminal box and the motor nameplate data to connect a motor on electrical grid. For electric motor with Y/ Δ starting it is necessary to remove all bridging (connecting sheets), and connect all six terminal strips according to motor circuit diagram. For electrical motors with direct start (Y or Δ) it is necessary to connect all bridging according to circuit diagram.

6.3 Direction of rotation

The standard motors are suitable for clockwise and counter-clockwise rotation. Connection of the power cables in the phase sequence L1, L2, L3 to U1, V1, W1 results in clockwise rotation (looking at the shaft end on the drive side). If two connections are interchanged, this results in counterclockwise rotation

6.4 Motor installation

Standard motors are designed for use at temperatures of -20°C (-4°F) to $+40^{\circ}\text{C}$ (104°F) and altitudes of 1,000 m (3280 ft) above sea level. When installing the motor, ensure that the intake is not obstructed and air can circulate freely. Do not remove the fan blade or cowl, or enclose the motor with a casing because in both cases there would not be enough air for cooling and the motor could overheat.

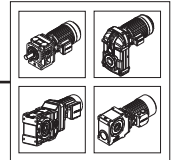
6.5 Operation

Vibration levels of $V_{\text{eff}} = 3,5 \text{ mm/s}$ for $P_n \leq 15 \text{ kW}$ ($V_{\text{eff}} = 0,14 \text{ inch/sec}$ for $P_n \leq 20 \text{ HP}$) or. $V_{\text{eff}} = 4,5 \text{ mm/s}$ for $P_n > 15 \text{ kW}$ ($V_{\text{eff}} = 0,18 \text{ inch/sec}$ for $P_n > 20 \text{ HP}$) are quiet acceptable in the coupled state. Whenever changes occur in relation to normal operation, such as increased temperatures, noise, oscillation, determine the cause and contact the manufacturer, if required. Never bypass or disable protection devices, not even in test mode. If you are in doubt, switch off the motor. Regularly clean air ducts in dusty or dirty environments. Remove the optionally condensation water plug to drain from time to time and reinsert the plug!

For motors without re-lubrication facility: change the bearings or grease but no later than every 3 years (see manufacturer's specifications).

For motors without re-lubrication facility: see time interval!

Switch on forced cooling every time when you start the motor (if you have that option).

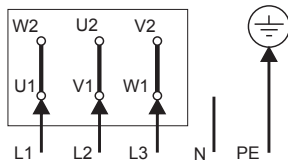


7. MOTOR CIRCUIT DIAGRAM

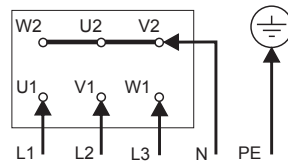
7.1 Three-phase single-speed induction motors type:

- numbers of poles: $2p = 2$, $2p = 4$, $2p = 6$, $2p = 8$

Δ CONNECTION



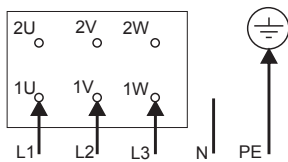
Y CONNECTION



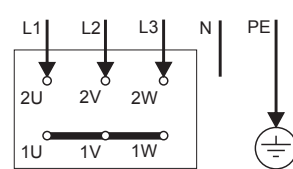
7.2 Three-phase two-speed induction motors type:

- numbers of poles: $2p = 4/2$ and $2p = 8/4$ (single-winding)

Δ CONNECTION

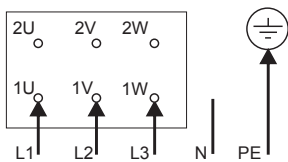


YY CONNECTION

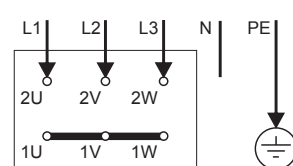


- number of poles $2p = 4/2$ and $2p = 8/4$ (single-winding , for ventilator drive)

**2p = 4(8)
Y CONNECTION**

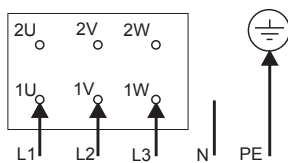


**2p = 2(4)
YY CONNECTION**

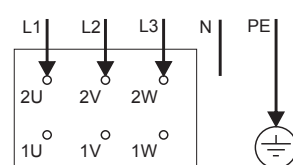


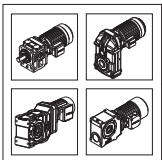
- number of poles $2p = 6/4$ and $2p = 8/6$ (double-winding)

**2p = 6(8)
Y CONNECTION**



**2p = 4(6)
Y CONNECTION**





8. MOTOR INSTALLATION ON IEC ADAPTER

For IEC adapters with elastic coupling.

8.1 Pay attention before assembly:



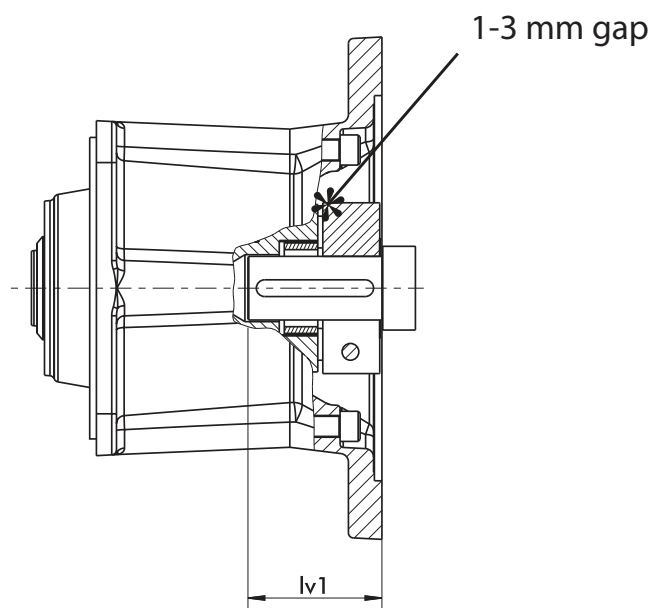
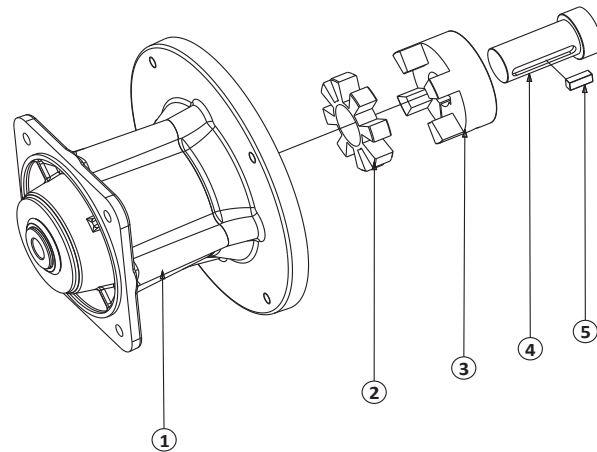
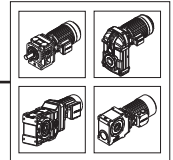
- **Danger of injuries!**
 - **Disconnect the drive before carrying out any work on the coupling!**
 - **Secure the drive against unintentional re-start rotation!**
 - **Incorrectly tighten bolts can cause serious personal injuries and property damages!**
 - **In compliance with accident prevention regulations, you are obligated to protect all freely rotating parts by means of permanently installed guards/ covers against unintentional contact and falling down objects.**
 - **To avoid sparks, the covers for coupling used in explosive atmospheres should be made of stainless steel!**
 - **As a minimum, the covers have to fulfil the requirements of protection type IP2X.**
 - **The covers have to be designed to prevent dust from depositing on the coupling.**
 - **The cover must not contact the coupling or impair the proper function of the coupling.**
- Make sure that the speeds, torques and ambient temperatures as stated in Technical Data are not exceeded.
 - The maximum permissible bore diameters must not be exceeded.
 - Check whether the shaft-hub connections safely transmit the occurring operating torques.
 - The standard tolerance of STROJNA for finish bores is fit H7.
 - Standard keyways comply with DIN 6885.
 - Check the dimensions and tolerances of shafts, hub bores, keys and keyways.
 - Set screws as required.

Technical table:

IEC		63-71	80-90	100-112	132-180	200-250	
Size		10	60	150	450	800	
Nominal torque	(Nm) T_{kn}	12,5	60	160	530	950	
Maximal torque	(Nm) T_{kmax}	25	120	320	1060	1900	
Distance A	(mm) A	11,5	18	20	26	31	
Radial displacement	(mm)	Max. Values	0,1	0,12	0,15	0,2	0,25
Angular misalignment	(Grad)		1	1	1	1	1
Axial displacement	(mm)		±1	±2	±2	±2	±2
Moment of inertia per hub	J1/J2	0,003	0,04	0,08	0,66	8	

Type	Shore hardness	Color	Material	Temperature range	Features
A*	98 Sh A	Red	TPU	-30°C to +100°C	good damping
B	64 Sh D	Green	TPU	-30°C to +120°C	high torsion
C	80 Sh A	Yellow	TPU	-30°C to +100°C	very good damping
D	64 Sh D	Beige	Hytrel	-50°C to +150°C	temperature resistant

* Standard Strojna



IEC adapter (1) is delivered with following parts:

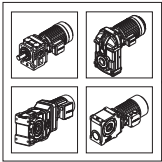
- Elastic insert (2)
- Jaw (3)

8.2 Installation

To mount your IEC motor on IEC adapter it is necessary to follow following procedure:

1. Remove the jaw (3) from IEC adapter.
2. Remove key from the motor shaft keyway (4).
3. Reduce the key length to fit jaw length.
4. Clear motor shaft (4) from dirt and grease.
5. Put reduced key (5) on the motor shaft keyway.
6. Lose mounting screw on the jaw (3), put the jaw on the motor shaft (4), up to the motor shaft shoulder.
7. Tighten the mounting screw using tightening torque given in the table.
8. Assemble the motor with the jaw with elastic insert (2). Ensure that foreign objects do not come to the junction between the jaw (3) and elastic insert (2).
9. Use the screws to tighten the motor on the IEC adapter Flange.

	A63/71	A80/90	A100/112	A132	A160/180	A200/225	A250/280
Mounting screw (ISO 4762/12.9)	M4	M6	M8	M12	M12	M16	M16
Tightening torque of the mounting screw (Nm)	4	15	35	120	120	290	290

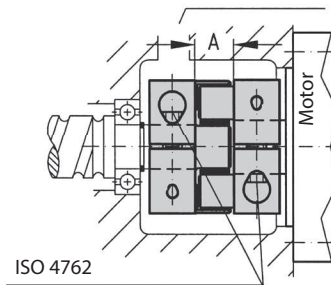


8.3 Adjusting coupling

- **Injury hazard!**
 - **Switch-off the drive before all work on the coupling!**
 - **Secure the drive against unintentional switching on and rotating!**
 - **Reference:**
 - **An exact alignment of the coupling increases the service life of the elastic intermediate.**
 - **Do not exceed the maximum permissible displacement values. The overstepping of these values results in coupling damage and breakdown!**
-
- When aligning the cold equipment take into account the expected thermal growth of the components, so that the permissible misalignment values for the coupling are not exceeded in operation.
 - Be aware that the coupling under misalignment imposes restoring forces on the adjacent shafts and bearings. Take into account that the larger the misalignment, the greater the restoring forces will be.
 - The displacements values indicated in the tables are maximum permissible guide numbers. We recommend not to fully utilise these values during the alignment, so that in operation sufficient reserves remain for thermal expansions, foundation settlements etc.
 - In special cases with high demands on quiet running or high rotating speeds it is possible that, in the three displacement levels, an alignment accuracy of $\leq 0,1$ mm is necessary.
 - If the coupling is mounted in a closed housing / casing so that a subsequent alignment is not possible any more, it must be guaranteed that the geometry and fit accuracy of the contact surfaces in operation aligns the shafts exactly within the mentioned tolerances.

8.4 Axial displacement ΔA :

- Calculate the axial gap measurement. Symbolic image for reference.
- Keep, when aligning the gap measurement A , to the maximum permissible tolerance according to table.



ATTENTION!

If greater axial displacements are expected in operation, consultation with STROJNA is necessary.

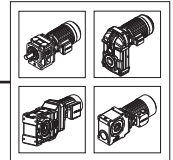
8.5 Radial displacement:

- Measure a complete rotation (360°) between coupling and flange.
- The values of the table are valid for reference rotation speed of 1500 min⁻¹

8.6 Angular misalignment:

- Measure the face of flange and coupling on complete rotation (360°)
- The values of the table are valid for reference rotation speed of 1500 min⁻¹

IEC Size		63-71	80-90	100-112	132-180	200-250
		10	60	150	450	800
Distance A (mm)	A	11,5	18	20	26	31
Radial displacement (mm)	Max. Values	0,1	0,12	0,15	0,2	0,25
Angular misalignment (Grad)		1	1	1	1	1
Axial displacement (mm)		±1	±2	±2	±2	±2



8.3 Operation and maintenance

IEC adapter is delivered filled with grease, so there is no additional maintenance.

Daily check: housing temperature and oil leakage.

Monthly check: clear IEC adapter from dirt and dust to ensure appropriate cooling.

Every 10 years or 10 000 working hours (whatever comes first) general overhaul the IEC adapter.

On the occasion of routine inspection or maintenance work on the drive equipment, or after 3 year at least:

- Replace the elastic buffer ring.
- If the wear limit has been reached or exceeded, replace the buffer ring immediately, irrespective of the inspection intervals of the equipment.
- Check the alignment of the coupling.
- Remove dust deposits from the coupling components and buffer ring.

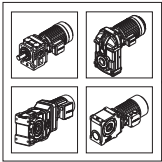


ATTENTION! Risk of burns! During operation IEC adapter housing temperature can arise up to to 90 °C (194 °F)!

In case there is a strange noise or the housing temperature oversize 90 °C (194 °F), switch of the motor and disconnect it from the electrical power supply. Inform your dealer about the improper work of the IEC adapter.

8.8 Operating faults and their possible causes

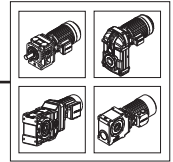
Trouble	Cause	Risk Warning	Correction
Irregular running noises / vibration	Alignment fault	Considerable increase in coupling temperature. Premature wear of elastic buffers. Increased reaction forces act on connected machines.	-Disconnect drive
			-Remove cause for alignment fault
			-Re-align coupling
			-Inspect elastomer for wear
	Elastomer worn out	Coupling claws strike against each other. Spark formation, claw fracture, increased reaction forces.	-Disconnect drive
			-Check coupling components for damages and replace parts, if necessary
			-Replace elastomer
	Unbalance	Considerable increase in coupling temperature. Premature wear of elastic buffers. Increased reaction forces act on connected machines.	-Disconnect drive
			-Verify balance state of plant components and correct it, if necessary
			-Inspect elastomer for wear
	Loose screw connections	Flying off parts can cause serious injuries and considerable damages.	-Disconnect drive
			-Check coupling parts for damages, replace parts, if necessary
-Verify alignment of coupling			
-Tighten screws to the specified tightening torque and secure them against working loose, if necessary			
			-Inspect elastomer for wear



Trouble	Cause	Risk Warning	Correction
Premature wear of elastomer	Alignment fault	Considerable increase in coupling temperature. Premature wear of elastic buffers. Increased reaction forces act on connected machines.	-Disconnect drive
			-Remove cause for alignment fault
	Unacceptable temperatures	Material properties of elastic buffers change. The torque transmission capabilities adversely affected	-Re-align coupling
			-Inspect elastomer for wear
			-Disconnect drive
			-Replace elastomer
Torsional vibrations in the drive line	Considerable increase in coupling temperature. Premature wear of elastic buffers. Increased reaction forces act on connected machines.	-Re-align coupling	
		-Adjust ambient temperature	
		-Disconnect drive	
		-Analyse and eliminate cause for torsional vibrations	
Claw breakage	Wear limit of elastomer exceeded = contact of claws	-Check coupling parts for damages, replace parts, if necessary	
		-Replace elastomer and consult STROJNA concerning eventual use of another Shore-hardness*	
	Overload due to too high torque	Coupling is destroyed. Connected machines can be affected, too.	-Disconnect drive
			-Connect STROJNA for replace parts
Overload due to too high torque	Coupling is destroyed. Connected machines can be affected, too.	-inspect the elastomer for wear at shorter intervals	
		-Disconnect drive	
Overload due to too high torque	Coupling is destroyed. Connected machines can be affected, too.	-Connect STROJNA for assistance	

* Default Strojna Type A - 98 Sh A

When using accessories and spare parts which were not originally manufactured or supplied by STROJNA, no liability or guarantee for any damages will be accepted.



9. INSTALLATION AND REMOVAL INSTRUCTION FOR SHRINK DISCS

Shrink discs are supplied ready for installation. However, prior to tightening of locking screws it is necessary to remove wooden spacers that may have been used during shipping.

9.1 Installation

Important! Never tighten locking screws prior to shaft installation, as inner ring of shrink disc and/or hub can be permanently contracted even at relatively low tightening torques.

1. Clean hub OD and shrink disc bore. Lightly lubricate hub OD before assembling shrink disc on hub.
2. Carefully solvent clean and dry shaft and hub bore of any lubricant prior to mounting hub onto shaft. This step is critical, as any lubricant on the shaft/hub bore interface will greatly reduce the torque transmitting capacity of the shrink disc connection.
3. Insert shaft into hub, then position shrink disc onto hub. After confirming correct position of hub and shrink disc, handtighten three (3) or four (4) evenly spaced locking screws and make sure that outer collars of shrink disc are parallel. Handtighten remaining locking screws.
4. Use torque wrench and set it approximately 5% higher than specified locking screw tightening torque M_p . Tighten locking screws in either a clockwise or counterclockwise sequence, using approx. $\frac{1}{4}$ (i.e., 90°) turns (even if initially some locking screws require a very low tightening torque to achieve $\frac{1}{4}$ turns) for several passes until $\frac{1}{4}$ turns can no longer be achieved.
5. Continue to apply overtorque for 1 or 2 more passes. This is required to compensate for a system-related relaxation of locking screws since tightening of a given screw will always relax adjacent screws. Without overtorquing, an infinite number of passes would be needed to reach specified tightening torque.
6. Reset torque wrench to specified torque (M_p) and check all locking screws. No screw should turn at this point, otherwise repeat Step 5 for 1 or 2 more passes. Once the screws are tightened, check the parallelism of the outer collars, considering that the maximum allowed error is 0.35% of the outer diameter of shrink disc. A larger error could cause a loss of pressure and, as a consequence, reduced performances.

It is not necessary to re-check tightening torque after equipment has been in operation.

9.2 Removal

Prior to initiating the following removal procedure, check to ensure that no torque or thrust loads are acting on the shrink disc, shaft or any mounted components.

Loosen all locking screws in several stages by using approx. $\frac{1}{2}$ turns, following either a clockwise or counterclockwise sequence, until shrink disc can be moved on hub. The shrink disc, hub and shaft will return to their original fit clearances.

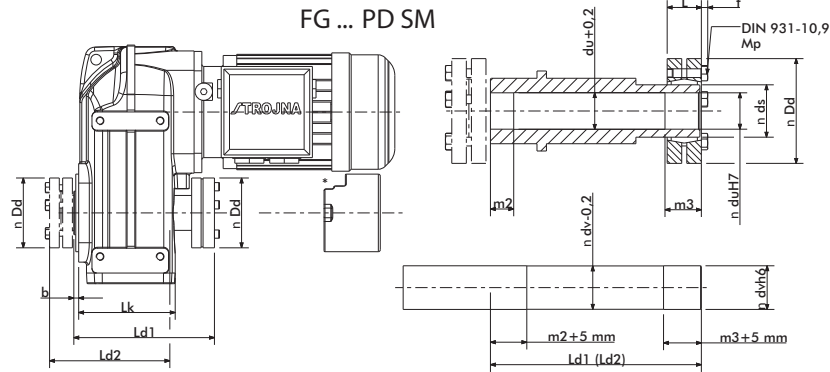
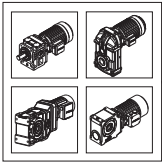


WARNING! DO NOT completely remove locking screws before locking rings are disengaged. As sudden separation of locking rings could involve high separation forces that may result in permanent injury or death. Be certain that locking rings are disengaged before completely removing locking screws.

9.3 Reinstallation of shrink discs

In relatively clean operating conditions, shrink discs may be reused without prior cleaning. In all other cases, shrink discs require thorough cleaning a re – lubrication as follows:

- Dow Corning® Molykote BR 2 Plus (or equivalent) on locking screw threads and under screw heads;
- Dow Corning® Molykote G-Rapid Plus (or equivalent) on inner and outer ring tapers.

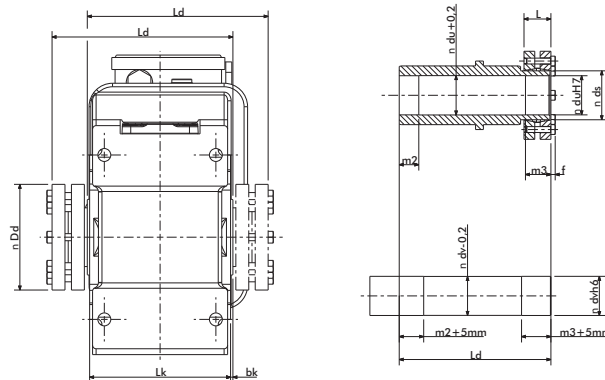


	SMB/SMR		m2	m3	Lk	b	Ld1	Ld2	du/dv	ds	Dd	L	f	Msmax	Famax	Mp
	max	max*												[Nm] [Lb-Ft]	[kN] [Lbf]	[Nm] [Lb-Ft]
FG1		63	20	21	99,5	5	150	130	30	36	72	23.5	4	570 (420)	58 (13000)	12 (9)
FG2	80	71	20	24	112	5	169	143	35	44	80	25.5	4	780 (575)	74 (16600)	12 (9)
FG3	112	100	20	27	141	5	205	180	40	50	90	27.5	4	1160 (855)	86 (19300)	12 (9)
FG4	132	112	30	28	149	5	221	192	50	62	110	30.5	4	2200 (1623)	111 (25000)	12 (9)
FG5	160	132	30	29	177	5	247	220	65	75	138	32.5	5.3	3200 (2360)	137 (30800)	30 (22)
FG6	200	200	50	40	247	5	323	280	75	90	155	39	5.3	7250 (5350)	210 (47200)	30 (22)
FG7	225	225	60	45	269	5	365	330	90	110	185	49	6.4	13600 (10030)	302 (67900)	59 (44)
FG8	250	250	60	50	343	6	415	415	100	125	215	53	10	21300 (15710)	395 (88800)	59 (44)

* Maximum possible motor frame size when using shrink disc protective lid.

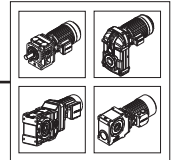
All other units in mm!

KG...(P)D SM

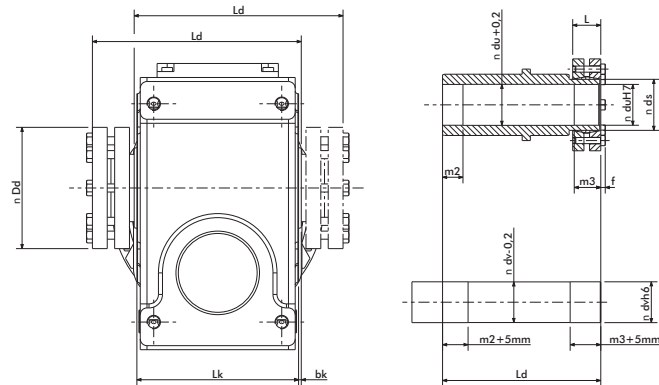


	SMB/SMR		m2	m3	Lk	b	Ld1	Ld2	du/dv	ds	Dd	L	f	Msmax	Famax	Mp
	max	max*												[Nm] [Lb-Ft]	[kN] [Lbf]	[Nm] [Lb-Ft]
KG1			20	20	95	5	130	130	30	36	72	23.5	4	570 (420)	58 (13000)	12 (9)
KG2			20	20	105	5	140	140	30	36	72	23.5	4	570 (420)	58 (13000)	12 (9)
KG3			20	25	120	5	160	160	35	44	80	25.5	4	780 (575)	74 (16600)	12 (9)
KG4			30	25	140	5	180	180	40	50	90	27.5	4	1160 (855)	86 (19300)	12 (9)
KG5			30	30	154	3	192	192	50	62	110	30.5	4	2200 (1623)	111 (25000)	12 (9)
KG6			30	30	176	7	195	195	65	75	138	32.5	5.3	3200 (2360)	137 (30800)	30 (22)
KG7			50	40	206	7	260	260	75	90	155	39	5.3	7250 (5350)	210 (47200)	30 (22)
KG8			60	45	252	8	320	320	90	110	185	49	6.4	13600 (10030)	302 (67900)	59 (44)
KG9			60	50	340	10	415	415	100	125	215	53	10	21300 (15710)	395 (88800)	59 (44)

All other units in mm!

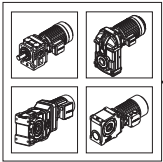


SG...(P)D SM



	SMB/SMR		m2	m3	Lk	b	Ld1	Ld2	du/dv	ds	Dd	L	f	Msmax	Famax	Mp
	max	max*												[Nm] [Lb-Ft]	[kN] [Lbf]	[Nm] [Lb-Ft]
SG1			20	20	95	5	130	130	30	36	72	23.5	4	570 (420)	58 (13000)	12 (9)
SG2			20	25	105	5	140	140	35	44	80	25.5	4	780 (575)	74 (16600)	12 (9)
SG3			30	25	124	3	160	160	40	50	90	27.5	4	1160 (855)	86 (19300)	12 (9)
SG4			30	25	120	5	160	160	40	50	90	27.5	4	1160 (855)	86 (19300)	12 (9)
SG5			30	30	140	5	180	180	50	62	110	30.5	4	2200 (1623)	111 (25000)	12 (9)
SG6			30	30	150	5	192	192	50	62	110	30.5	4	2200 (1623)	111 (25000)	12 (9)

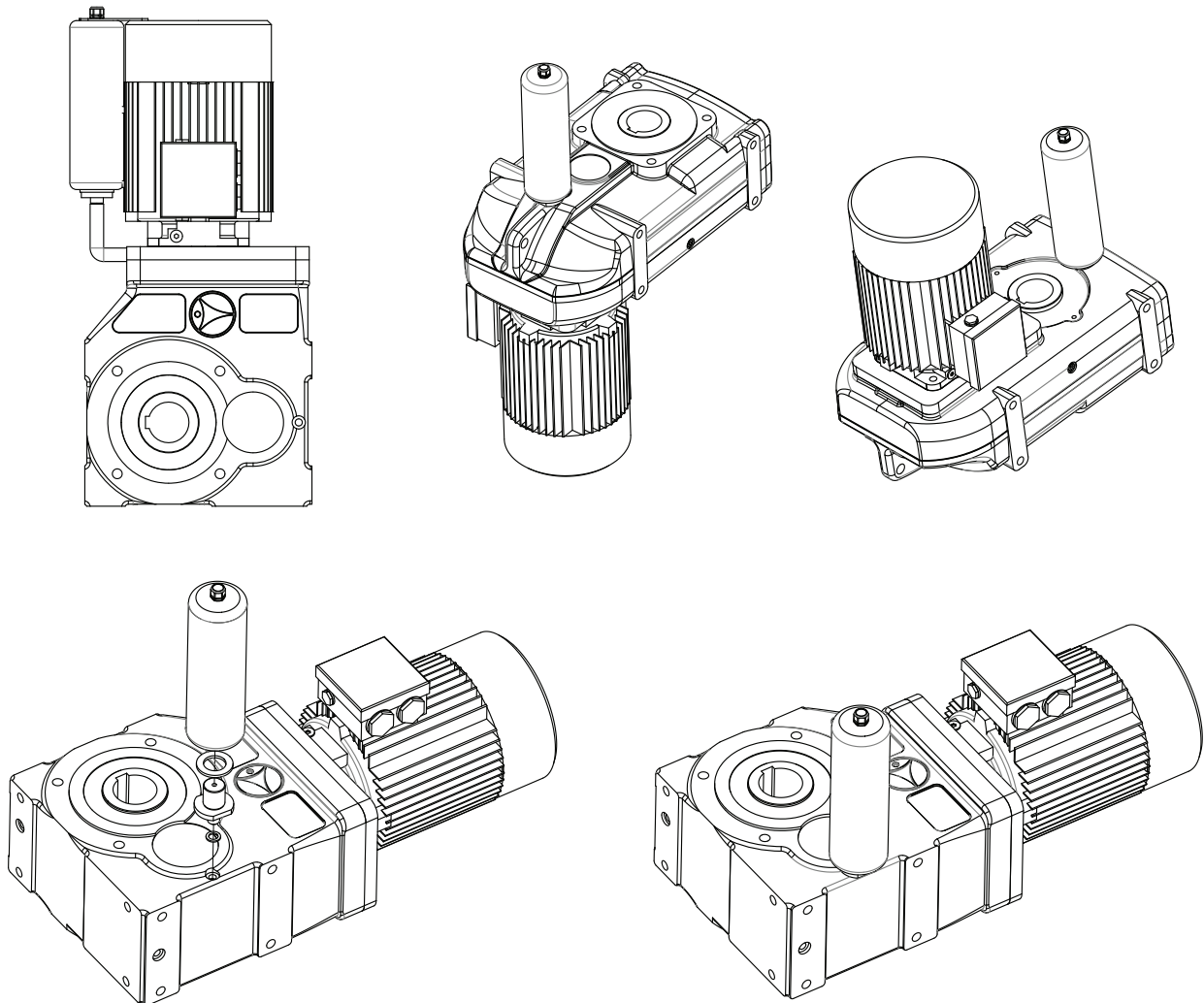
All other units in mm!



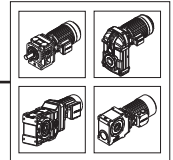
10. OIL COMPENSATOR

Oil compensator allows the lubricant/air space in gear unit to expand. This means lowering pressure inside gear unit at high operation temperatures and preventing lubrication to escape into breather valve.

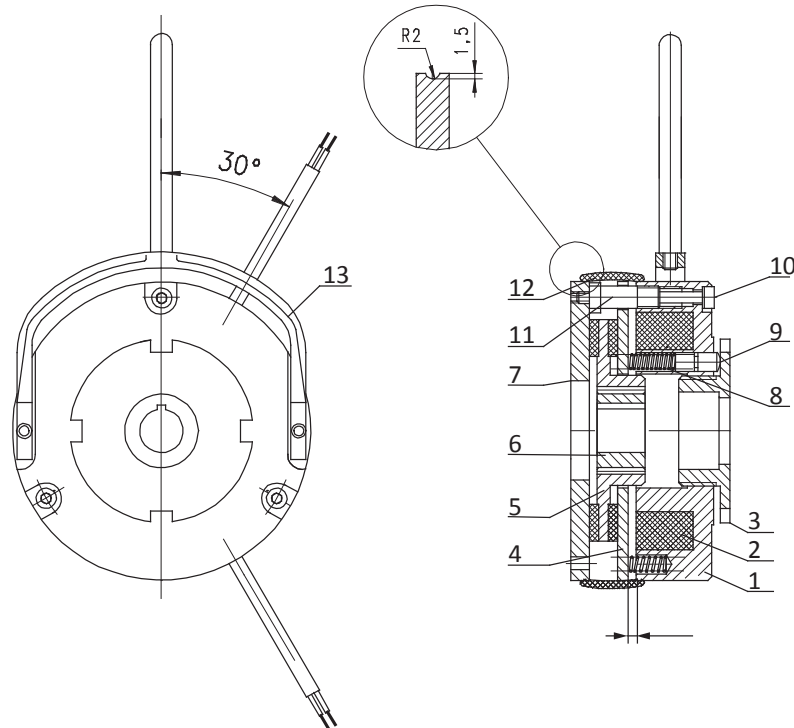
The oil compensator is supplied as assembly kit. It is intended for mounting onto the highest point of gear unit. However, if installation space is limited, there are many variations how to mount oil compensator. And on request and order-specific dimension from STROJNA can be made.



Variations and kits are adjusted to customer demands.



11. OPERATING INSTRUCTION OF DIRECT CURRENT ELECTROMAGNETIC BRAKE



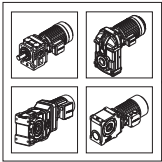
- | | |
|-----------------------|--------------------------|
| 1. Electromagnet body | 8. Spring |
| 2. Coil | 9. Thrust pin |
| 3. Nut | 10. Mounting bolt |
| 4. Armature | 11. Adjusting bolt |
| 5. Brake disk | 12. Brake casing |
| 6. Gear wheel | 13. manual release lever |
| 7. Spring | |

11.1 Construction and operating principle

The brake design is presented in the drawing. When coil (2) is not energized, the brake disk (5) with the friction linings is pressed by armature (4) to the mounting disk (7) or directly to the friction surface of the given equipment with force of springs (8), the brake then being in the on state (braking). The braking torque is transferred via the brake disk (5) onto the gear wheel (6) mounted on the shaft of the motor or equipment cooperating with the brake, secured against axial displacement by circlip. The amount of torque can be regulated by screwing in the nut (3) or reducing the number of springs.

The direct current fed to the electromagnetic winding (2), through its induction causes attraction of the armature $[a=0]$ simultaneously eliminating the pressure of springs on the armature and brake disk (5). The brake is released. In case of voltage failure or damaged electromagnet, in brakes with release lever - it is possible to release the brake by shifting the lever. Releasing the pressure on the lever causes its return and re-braking.

The distance between electromagnet and disc brake (5) that is, a width of air gap, is adjusted by means of adjusting bolts (11). Type HPS brake is mounted to motor bearing cover with mounting bolts (19). The air gap «a» is set in factory for its nominal value which is later reduced by screwing in the adjusting bolts (11) to compensate for the progressive wear of brake disc lining.



11.2 Mounting and dismounting of brake

Mounting procedur of brake is very simple. The gear (6) is mounted to the shaft and protected with circlip against axial movement. Then couple the brake disc (5) with gear (6) and fix the brake using mounting bolts (10) to the motor bearing cover or to the wall of device to be braked. When the brake is provided with locking elements (14), these should be removed after the brake is installed. Check the value of air gap width as instructed in 10.3. Install the brake casing.

To disassembly, reverse the above procedure.

Type	HPS06	HPS08	HPS10	HPS12	HPS14	HPS16	HPS18	HPS20	HPS25
a nom.	0,2 ^{+/- 0,05}	0,2 ^{+/- 0,05}	0,3 ^{+/-0,05}	0,3 ^{+/-0,05}	0,3 ^{+/-0,05}	0,3 ^{+/-0,05}	0,4 ^{+/-0,05}	0,4 ^{+/-0,05}	0,5 ^{+/-0,05}
a max.	0,5	0,5	0,5	0,7	0,8	1,0	1,0	1,2	1,4

11.3 Adjustment of air gap

The air gap »a« grows gradually larger in consequence of wear of brake disc lining (5). The nominal value of the air gap »a nom« may be restored by screwing in the adjusting bolts (11). Prior to adjustment, slacken mounting bolts (10) and then set the nominal value of air gap using the feeler guage inserted between armature (4) and body and screwing in the adjusting bolts (11). Tighten the mounting (10) and secure the position by screwing out the adjusting bolts as far as they go.

11.4 Wiring system

When the DC brake is to be connected to the AC source, a rectifying circuit must be used. The solenoid of in electro-magnet circuit may be disconnected either on DC side or on AC side.

DISCONNECTION ON AC SIDE

The coil current is broken between the coil and the supply (rectifying) system. The magnetic field reduces gradually causing extension of brake acuating time and simultaneous delay in rise of braking torque. If actuation times are not of significance, the brake on the alterantig current side should be actuated since no protection facilities are then required for the coil and contacts. While switching off, the supply systems operate as unidirectional diodes.

DISCONNECTION ON DC SIDE

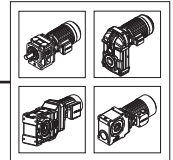
The coil current is broken between the coil and the supply (rectifying) system. The magnetic field is reduced very rapidly, short brake actuation time, resulting in rapid rise in braking torque. While switching off on direct current side, high peak voltage is formed in the coil causing rapid wear of contacts due to sparking.

11.5 Maintenance

The brakes do not require special maintenance procedures, however during regular intervals of time depending on intensity of brake operation, perform inspections and regulation of air gap »a«. When the brake disk reaches maximum wear, replace it with a new one.

While replacing the brake disk, take care that the friction surface of the disk, armature and elements cooperating with the friction linings are free from grease and oil. Remove all dirt accumulated from the brake interior. If in spite of correct mounting and proper regulation, the brake does not operate, failure is due to:

- electromagnet : burnt coil, daqmaged supply cable
- rectifier system (installed in the motor terminal box)
- electrical connections : check for correctness and quality of connections
- damaged elements - replace them with new ones.



12. DC BRAKE SUPPLY CIRCUITS

12.1 Circuit PS 1

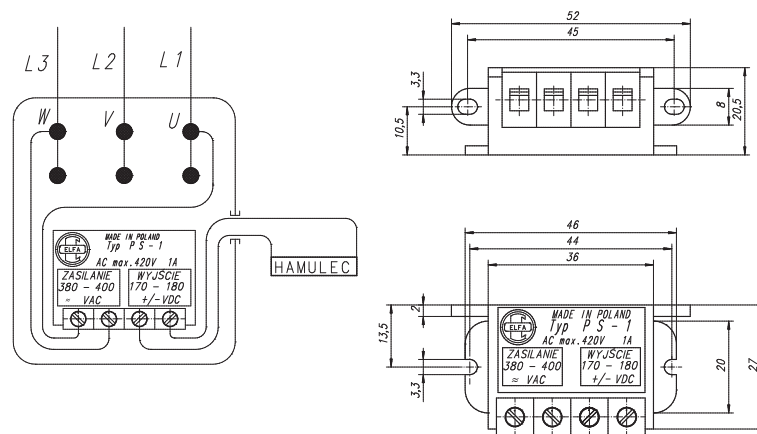
Circuit PS 1 is built on the basis of MOSFET type semiconductor technique which enabled achieving effects not available in traditional designs. The brake electromagnet energized through circuit of this construction enables the brake to achieve connection and disconnection time parameters analogous to breaking of circuit on direct current side. The parameters obtained are not however gained through utilization of additional electrical circuits and switches.

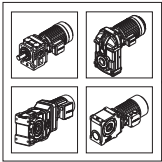
Simplicity of installation and parameters achieved enable very wide application, particularly in cases requiring positioning of drives, operation with high frequency of actuations compounded with repeatability of brake connecting and disconnecting times.

Supply circuit PS1 forms a complete unit for direct installation. Provided with a four-terminal strip, it enables unhindered adaptation in every cooperating circuit.

The circuit is adapted for supply from alternating current source of 380-400 VAC max. 420 VAC which after rectification and appropriate formation enables obtaining direct voltage of 170V-180 VDC for brake supply.

The diagram below shows the method of connecting the circuit PS 1 into supply circuit of brake cooperating with 3x400 VAC electric motor with star-connected winding.





12.2 Circuit PS 2

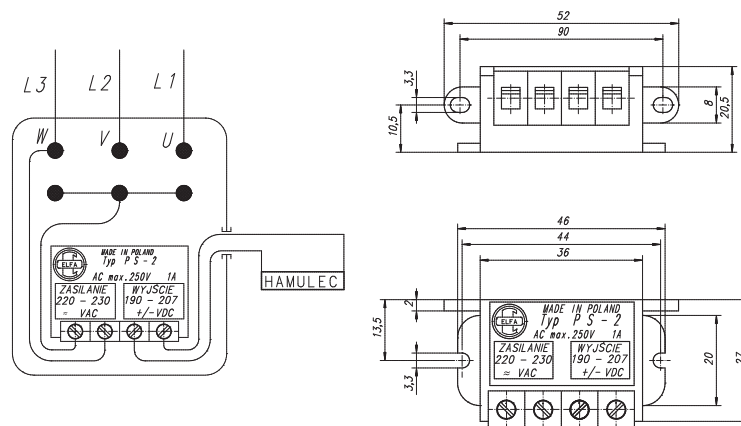
Circuit PS 2 is built on the basis of MOSFET type semiconductor technique which enabled achieving effects not available in traditional designs. The brake electromagnet energized through circuit of this construction enables the brake to achieve connection and disconnection time parameters analogous to breaking of circuit on direct current side. The parameters obtained are not however gained through utilization of additional electrical circuits and switches.

Simplicity of installation and parameters achieved enable very wide application, particularly in cases requiring positioning of drives, operation with high frequency of actuations compounded with repeatability of brake connecting and disconnecting times.

Supply circuit PS2 forms a complete unit for direct installation. Provided with a four-terminal strip, it enables unhindered adaptation in every cooperating circuit.

the circuit is adapted for supply from alternating current source of 220-230 VAC max. 250 VAC which after rectification and appropriate formation enables obtaining direct voltage of 190V-207 VDC for brake supply.

The diagram below shows the method of connecting the circuit PS 2 into supply circuit of brake cooperating with 3x400 VAC electric motor with star-connected winding.



SINGLE ELECTROMAGNETIC BRAKES:

Disk brake HPS



Spring actuated and electromagnetically released disk brake type HPS by direct current. Designed for braking rotating machine parts and their precision positioning. Utilized as safety brake. High repeatability even with large number of actuations. The brake characterizes relatively simple construction, facility for regulating brake parameters such as braking torque, braking time and also possibility of supply from alternating current source after connecting up a rectifier circuit delivered at customer's request along with the brake. An additional feature is quiet operation, particularly important when the equipment is operated by a number of drives operating additionally with high frequency of actuations. Braking torque can be accurately set by means of regulation nut. Brake design guarantees simple and problem-free installation. Various options of executions are at disposal with respect to fittings/accessories, brake supply, climatic conditions of utilization, enabling selection of appropriate option for definite utilization conditions.

Parameters		Unit	Brake type									
			HPS 04	HPS 06	HPS 08	HPS 10	HPS 12	HPS 14	HPS 16	HPS 18	HPS 20	HPS 25
Supply voltage U_n		V	24, 104, 180, 207 VDC									
Power drawn P_{20}		W	16	20	25	30	40	50	55	65	75	100
Power drawn n_{max}		min ⁻¹	3000									
Braking torque M_h		Nm	4	4	8	16	32	60	80	150	240	360
Weight		kg	0,5	0,7	1,8	3,2	6,6	7,5	11,2	17,0	24,8	29,0
Ambient temperature		°C	- 25 - + 40									
Operating time	on direct voltage side	t_{01}	20	35	65	90	120	150	180	300	400	500
		t_{09}	10	17	35	40	50	65	90	110	200	270
	on alternating voltage side	t_{01}	20	35	65	90	120	150	180	300	400	500
		t_{09}	Brake disconnection on alternating current side causes about five-times growth in braking time t_{09} with respect to disconnection on direct current side									

$t_{0,1}$ - releasing time (from switching on current to drop in braking torque to 10% M_{nom})

$t_{0,9}$ - braking time (from switching off current to attaining 90% M_{nom})

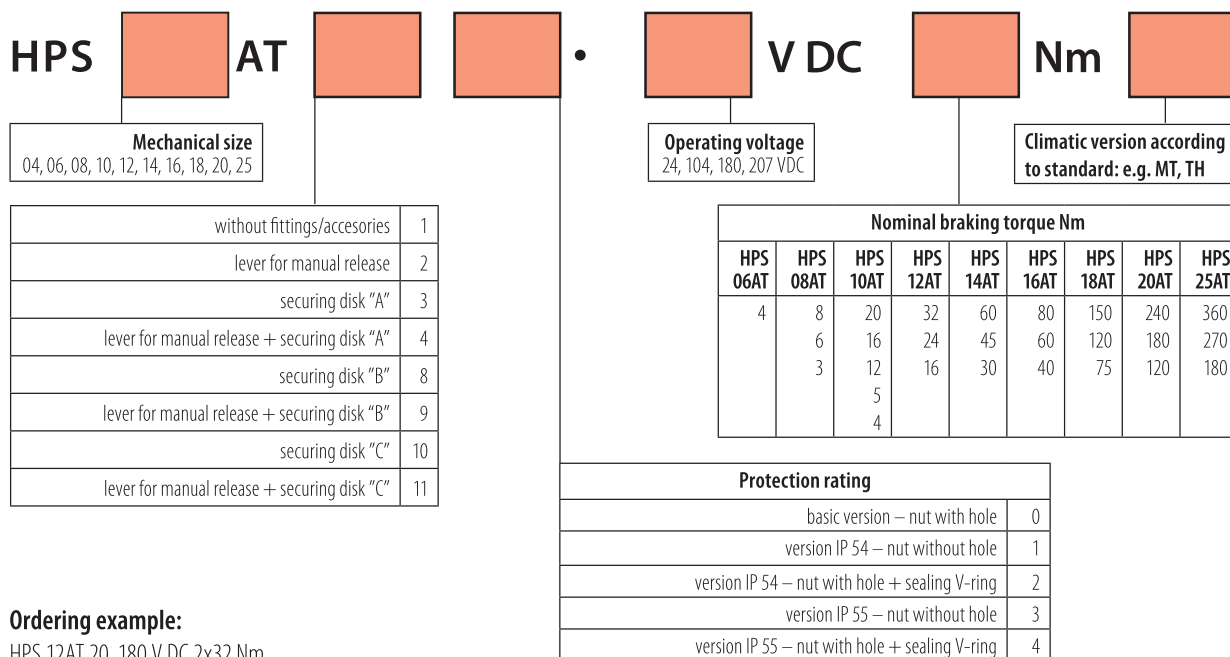
Values of releasing and braking times are given as approximations, since they depend on mode of assembly/installation, temperature and power supply.

SINGLE ELECTROMAGNETIC BRAKES WITH HANDRELEASE:

Disk brake HPS ...AT



Spring actuated and electromagnetically released disk brake type HPS ...AT forms a variation of HPS brake. Designed for braking rotating machine parts and their precision positioning, in all applications where the drive is required to have limited level of noise. The specifics of this type of drive has made us draw up a brake version whose crucial units are so designed that the »quiet operation« requirement demanded by the user is fulfilled. Drives fitted with brake series HPS ...AT can be used in objects where limited level of noise has huge significance, e.g. theatres, concert halls, etc. where, as stage equipment drives, they meet strict safety requirements. Brake configuration is analogous to variant HPS, and the diagram below facilitates selection of appropriate option.



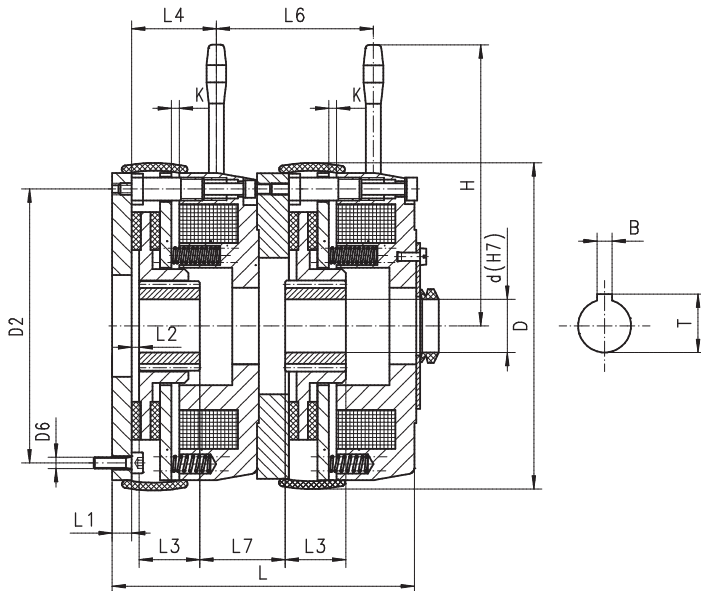
Ordering example:

HPS 12AT 20. 180 V DC 2x32 Nm

DOUBLE ELECTROMAGNETIC BRAKES WITH OR WITHOUT HANDRELEASE:

Disk brake 2HPS

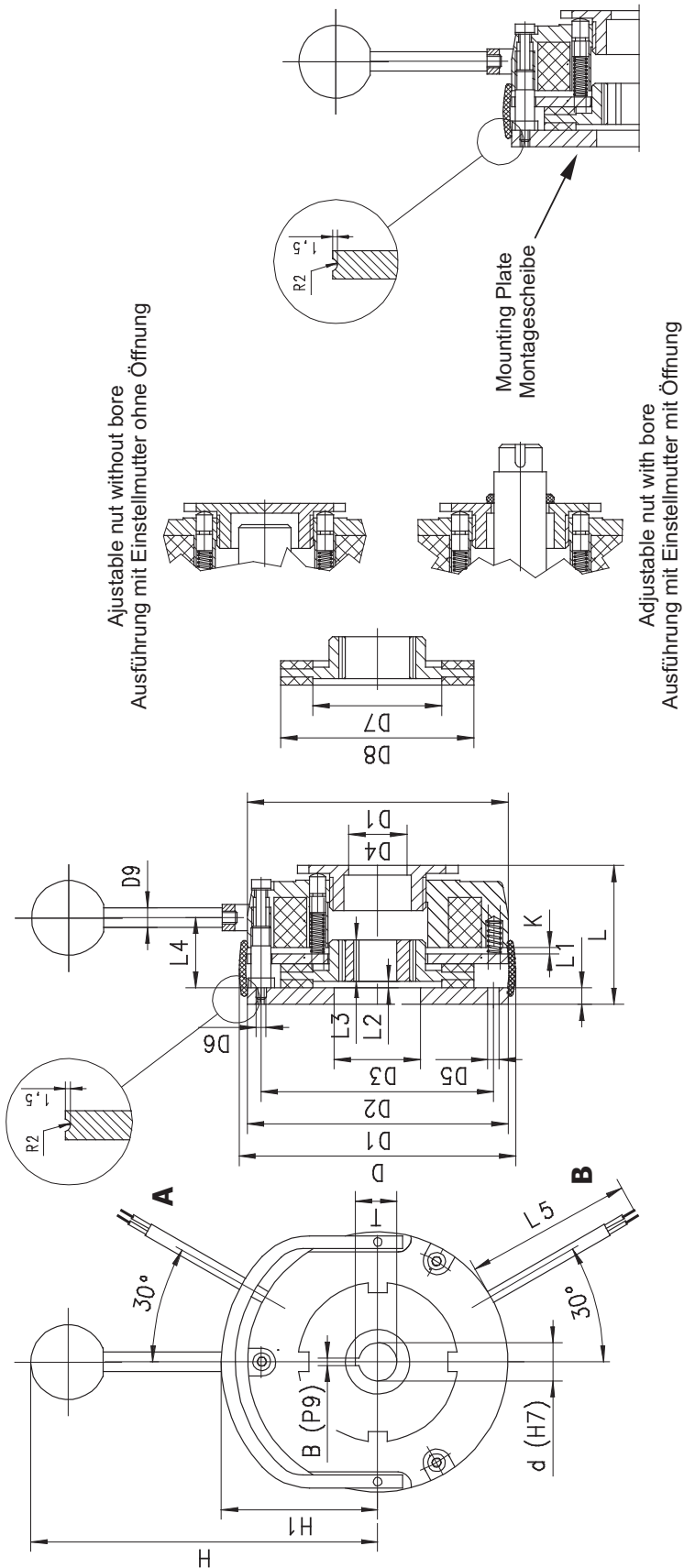
Overall dimensions



Type	d	D	D2	D6	L	L7	L3	L1	L2	L4	L6	H	K	B	T
2HPS06	15	87	72	3xM4	76	14	24	6	1,8	25	40	100	0,2	5	17,3
2HPS08	15	106	90	3xM6	90	18	27	7	2,5	28	48	115	0,2	5	17,3
2HPS10	19	132	112	3xM6	110	25	28	9	3,5	34	61	170	0,2	8	27,3
2HPS12	25	157	132	3xM6	128	25	34	9	3,0	37	69	184	0,3	8	28,3
2HPS14	30	169	145	3xM8	145	25	42	11	3,0	40	74	191	0,3	8	33,3
2HPS16	35	195	170	3xM8	160	33	42	11	3,0	40	88	204	0,3	8	38,3
2HPS18	40	221	196	4xM8	180	48	45	11	4,5	52	98	230	0,3	12	43,3
2HPS20	42	257	230	6xM10	215	45	55	11	5	62	115	270	0,3	12	45,3
2HPS25	42	308	278	6xM10	230	42	65	12,5	6	80	123	360	0,4	12	45,3

Used in lifting mechanisms are mechanical brakes, electrically released spring actuated disk brakes, designed on the basis of brake HPS. This brake immobilizes the weight during damage, incorrect manoeuvre or breakdown. The brake must transfer all forces occurring in such situations. To meet such requirements while maintaining the drive as simple as possible in the mechanical part and definite in operation, simple asynchronous motor is used controlled by frequency converters, provided with electromagnetic disk brake of design specific for hoisting system. Safety considerations have required designing a braking mechanism with dual safety circuit and maximum reduction of noise level during dynamic operation of brake unit. Drive system fitted with brake 2HPS operates very quietly in spite of maintaining all electrical and mechanical parameters. This brake is characterized by two brake disks being mounted on common motor shaft, with independent electromagnetic circuits while maintaining required braking torque for proper operation of the drive. The simple and compact construction enables utilization in motors for driving lifting mechanisms required of which is smooth operation along with dual safety circuit. Brake of such design has the mechanical parameters indispensable for functioning of the drive, whereas assembly and mounting dimensions analogous as for traditional brake enabling mounting within dimensions of the drive motor. Applications: drives of passenger lifts, cranes, hoists and wherever compliance with rigorous regulations of Technical Inspection Office in the scope of lifting equipment is essential.

DIMENSION OF BRAKES:



TYP	D	D1	D2	D3	D4	D5	D6	D7	D8	D9	L	L1	L2	L3	L4	L5	K	H	H1	d	d max	d * smax	B	T
HPS04	80	74	62	25	13	4,3x3	M4x3	30	50	6	40	6	1,8	18	22	450	0,2	90	45	11	11		4	12,8
HPS06	87	84	72	25	17	4,5x3	M4x3	47	62	8	46	6	1,8	18	25	450	0,2	100	56	15	15		5	17,3
HPS08	106	102	90	30	17	5,5x3	M5x3	59	76	8	53	7	2,5	20	28	450	0,2	115	66	15	15		5	17,3
HPS10	132	125	112	40	26	6,4x3	M6x3	61	95	10	63	9	3,5	20	34	450	0,2	170	82	24	25		6	21,8
HPS12	157	148	132	45	27	6,4x3	M6x3	74	114	10	72	9	3	25	37	450	0,3	184	92	25	25		8	28,3
HPS14	169	162	145	55	27	8,4x3	M8x3	90	124	12	83	11	3	30	40	450	0,3	191	102	25	25		8	28,3
HPS16	195	188	170	65	38	8,4x3	M8x3	100	154	12	89	11	3	30	40	450	0,3	204	115	35	35		8	38,3
HPS18	221	215	196	75	43	9,0x4	M8x4	130	176	12	104	11	4,5	35	52	450	0,3	230	125	40	45	50	12	43,3
HPS20	257	252	230	90	45	11x6	M10x6	176	207	14	122	11	5	40	62	450	0,3	270	152	42	45	50	12	45,3
HPS25	308	302	278	120	45	11x6	M10x6	198	255	14	135	12,5	6	50	80	450	0,4	360	176	42	45	75	12	45,3

SYSTEMS OF FOREIGN VENTILATION - SINGLE PHASE SUPPLY

Application :

- System of foreign ventilation should be used in case adjusting speed under 60% rated speed of motor,
- System of foreign ventilation can be assembled on standard motors after removing the fan cover and fan without necessity of cutting the shaft.

Features on request:

- Factory produces various types of system ventilation but constructional details and delivery time are to be individual agreed.

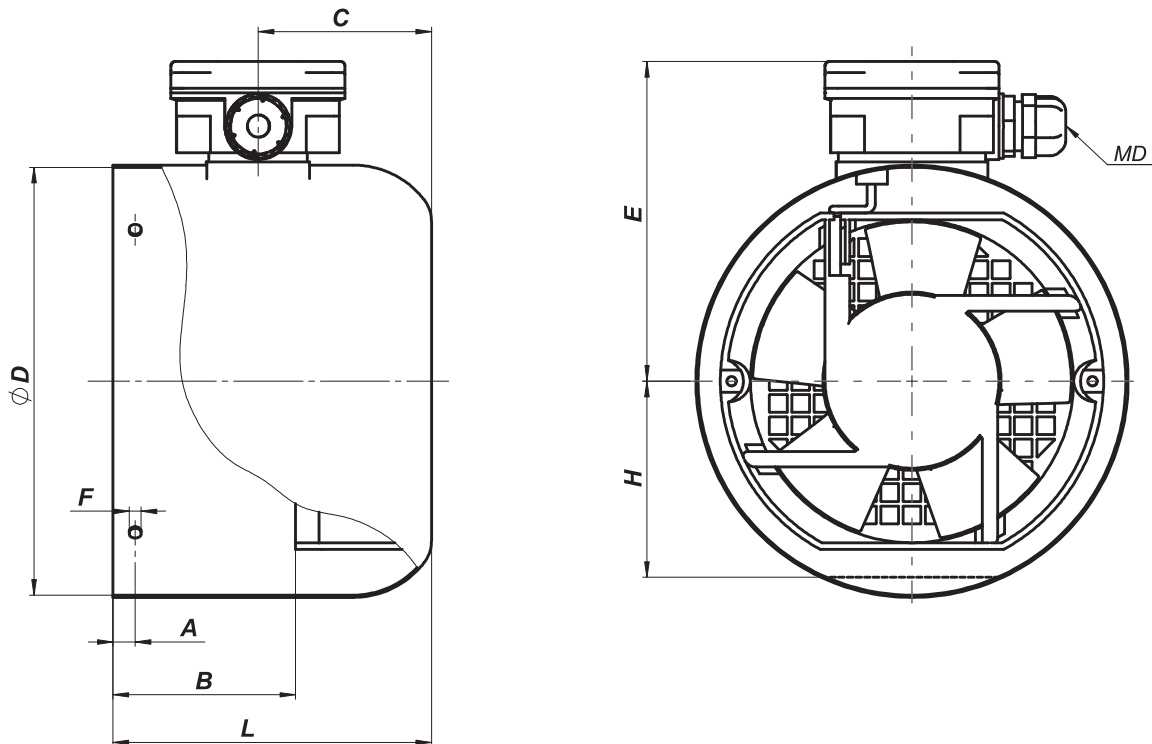
SPECIFICATION OF COOLING FAN

Motor size	Rated voltage	Frequency	Rated current	Input power	Speed	Air flow	Nosie level	Thermal protection
	[V]	[Hz]	[A]	[W]	[min-1]	[m3/min]	[dB]	
90/100/112	1 x 230	50/60	0,23/0,21	32/31	2800/3100	5,40/6,60	50/55	Impedance protection
132/160/180	1 x 230	50/60	0,24/0,27	56/60	2100/1900	24,0/21,8	57/55	Thermally protection

- environment temperature -20 to +80[°C]
- altitude up to 1000 [m] above sea level,
- life – 50 000 h at temperature 30°C,
- insulation class B,
- motor safety protection:
 - thermally protection - auto power off after motor coil winding temperature reaches 110°C, restart at temperature down to 70°C,
 - impedance protection – the motor withstands work even, in abnormal situations such as a lockedrotor condition,
- protection degree IP 55,
- ball bearing.

The manufacturer reserves the right to modify the performances of the products shown in this catalogue.

Dimensions



Typ	A	B	C	D	E	F	H	L	MD
Type	[mm]								
FVS 90S	5	75	105	174	134	φ4,6	-	150	M20 x 1,5
FVS 90L	5	100	105	174	134	φ4,6	-	175	M20 x 1,5
FVS 100	5,5	80	75	192	145	φ6,0	-	153	M20 x 1,5
FVS 112	13	93	75	231	163	φ7,0	108	156	M20 x 1,5
FVS 132	18	121	80	264	180	φ7,0	127	237	M20 x 1,5
FVS 160	23	158	80	313	204	φ7,0	-	271	M20 x 1,5
FVS 180	21	143	80	348	221	φ7,0	-	246	M20 x 1,5