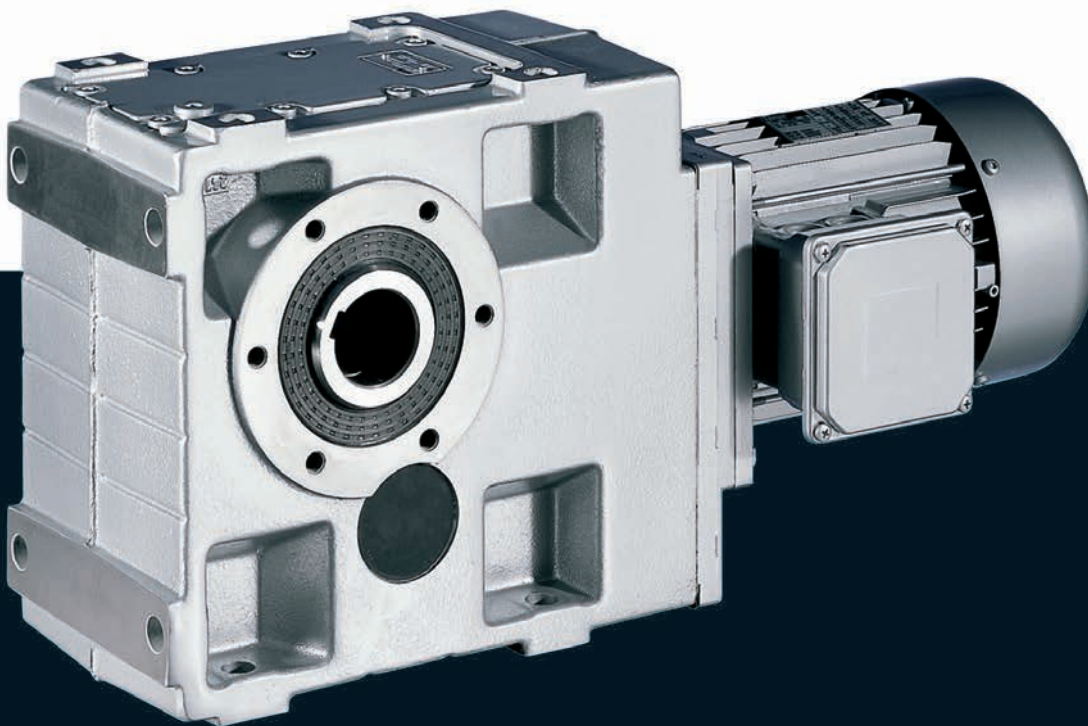


Gearbox

Helical-bevel gearboxes GKS

0.55 ... 22 kW



GKS helical-bevel gearbox

Contents



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List of abbreviations

$\eta_{c=1}$		Efficiency
c		Load capacity
f_N	[Hz]	Rated frequency
$F_{ax,max}$	[N]	Max. axial force
$F_{rad,max}$	[N]	Max. radial force
H_{max}	[m]	Site altitude
i		Ratio
J	[kgcm ²]	Moment of inertia
m	[kg]	Mass
M_2	[Nm]	Output torque
n_2	[r/min]	Output speed
n_N	[r/min]	Rated speed
P_N	[kW]	Rated power
$S_{hü}$	[1/h]	Transition operating frequency
$T_{opr,max}$	[°C]	Max. ambient operating temperature
$T_{opr,min}$	[°C]	Min. ambient operating temperature
$U_{N,\Delta}$	[V]	Rated voltage
$U_{N,Y}$	[V]	Rated voltage

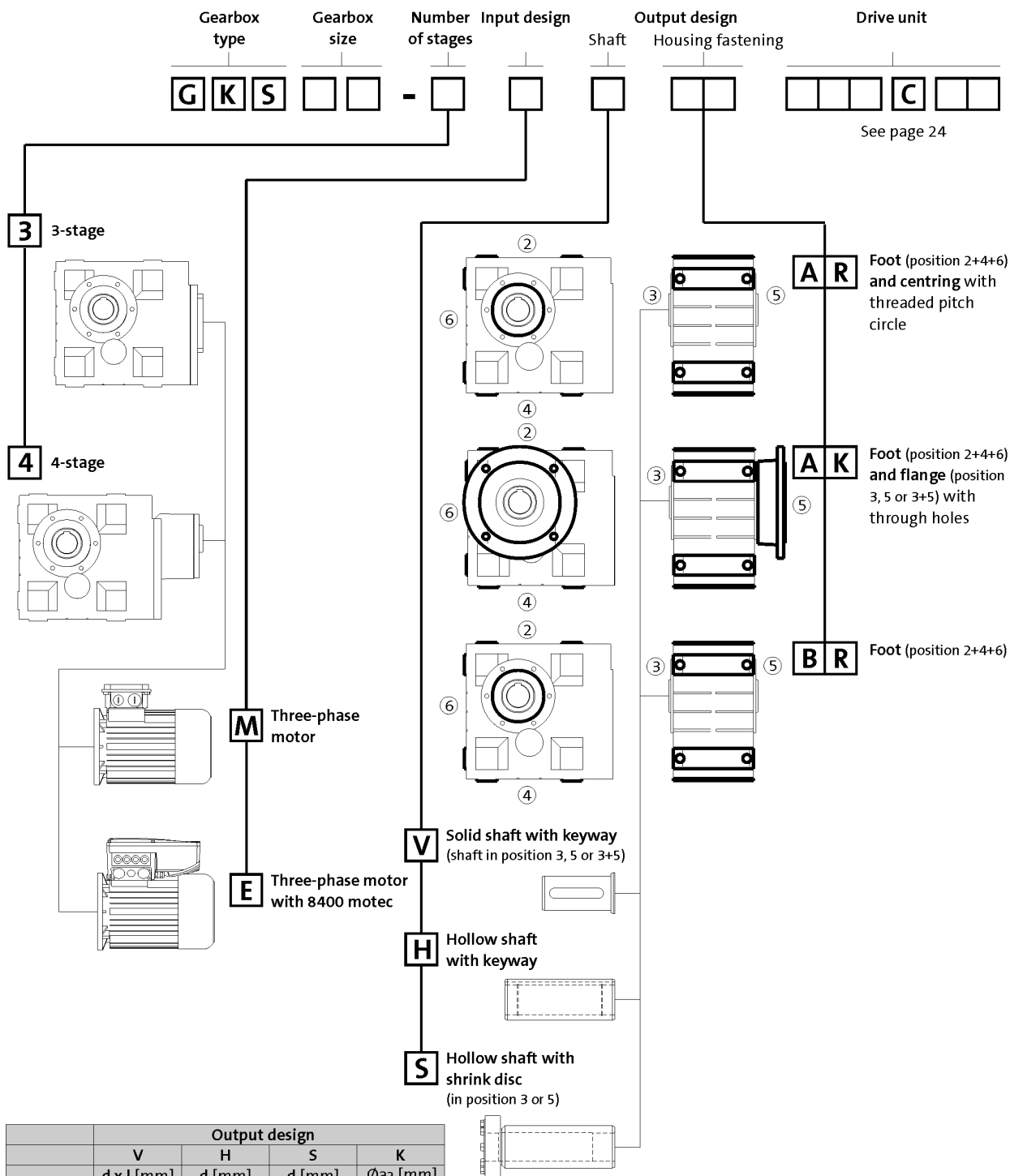
CE	Communauté Européenne
CSA	Canadian Standards Association
DIN	Deutsches Institut für Normung e.V.
EMC	Electromagnetic compatibility
EN	European standard
IEC	International Electrotechnical Commission
IM	International Mounting Code
IP	International Protection Code
NEMA	National Electrical Manufacturers Association
UL	Underwriters Laboratory Listed Product
UR	Underwriters Laboratory Recognized Product
VDE	Verband deutscher Elektrotechniker (Association of German Electrical Engineers)
CCC	China Compulsory Certificate
GOST	Certificate for Russian Federation
cURus	Combined certification marks of UL for the USA and Canada
UkrSEPRO	Certificate for Ukraine

GKS helical-bevel gearbox

General information



Product key



¹⁾ Only in the case of H and S type of output

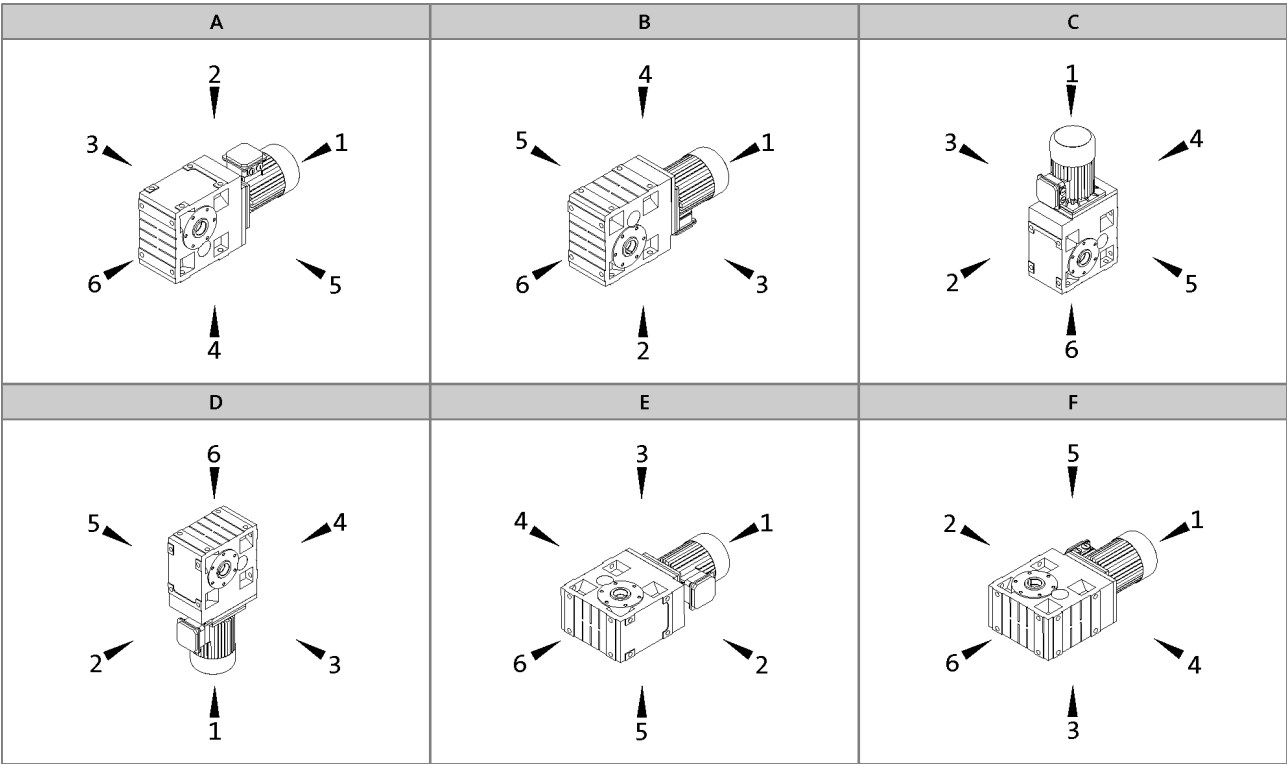
GKS helical-bevel gearbox

General information



Product key

Mounting position (A...F) and position of system blocks (1...6)



Hollow shaft: 0
Solid shaft: 3, 5, 8 (3+5)
Hollow shaft with shrink disc: 3, 5

Without flange: 0
Flange: 3, 5, 8 (3+5)
Terminal box / motec: 2, 3, 4, 5

Gearbox designs

Basic versions	
Motor efficiency	Standard efficiency Increased efficiency (IE2)
Surface and corrosion protection	OKS-G (primer: grey) OKS-S (paint: RAL 7012)
Lubricant	CLP 460 (mineral)
Ventilation	Oil control plugs for GKS05 ... 14 Breather elements for GKS06 ... 14

Options	
Surface and corrosion protection	OKS-S (special paint according to RAL) OKS-M (special paint according to RAL) OKS-L (special paint according to RAL)
Lubricant	CLP HC 320 (synthetic) CLP HC 220 USDA H1 (synthetic)
Shaft sealing rings	Driven shaft: Viton
Ventilation	Breather elements for GKS05 Compensation reservoir for GKS09 ... 14-3 in mounting position C
Accessories	Torque plate on threaded pitch circle Housing foot torque plate 2nd output shaft end Shrink disc cover Hoseproof hollow shaft cover Mounting set for hollow shaft circlip
Nameplate	Metal nameplate (supplied loose) Adhesive nameplate (supplied loose)

GKS helical-bevel gearbox

General information



Product information

Lenze provides a geared motor construction kit, which covers a wide range of requirements. Numerous drive-side and output-side options enable precise adaptation of the drive to the specific application. This is the basis for versatile applications and functional scalability of our gearboxes and geared motors.

The modular concept and high power density make extremely compact sizes possible. Optimised teeth profiles and ground gears ensure a low-noise operation and low backlash. The gearboxes have a compact and hence space-saving construction.

Designs

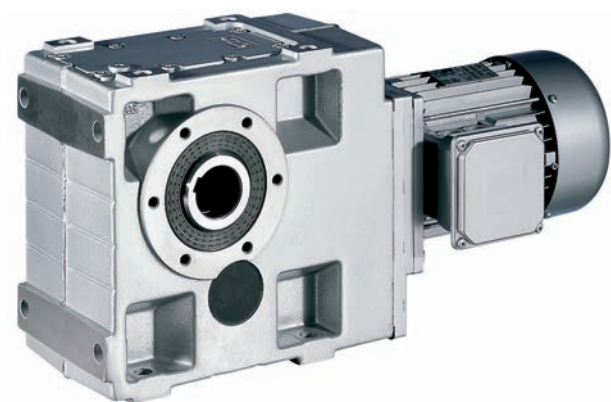
- 3-stage and 4-stage gearboxes
- Hollow shaft with keyway or shrink disc
- Solid shaft with keyway
- Foot or flange mounting
- Torque plate, including rubber buffer
- With MF three-phase AC motors (inverter-optimised)
power range 0.55 ... 22 kW

For maximum precision

Helical-bevel gearboxes have the major benefit of enabling extremely precise and reproducible positioning movements owing to their high torsional stiffness and low backlash. Our helical-bevel gearboxes can be combined with three-phase AC motors and servo motors to form a compact unit. They are available in 3- and 4-stage versions with a torque of up to 11,639 Nm and a ratio of up to $i=1,936$.

Inverters for motor-proximity installation

The Drive Package with decentralised Inverter Drives 8400 motec covers a power range up to 7.5 kW.



Helical-bevel geared motor GKS07-3M HBR 100-32

GKS helical-bevel gearbox

General information



Functions and features

Gearbox type	GKS
Housing	Cuboid
Design	Aluminium / cast iron
Material	Aluminium / cast iron
Solid shaft	with keyway to DIN 6885
Design	m6 (d > 50 mm) k6 (d ≤ 50 mm)
Tolerance	Tempered steel C45 or 42CrMo4
Material	
Hollow shaft	H: with keyway S: smooth
Design	Bore H7
Tolerance	Tempered steel C45
Material	
Toothed parts	Optimised tooth flanks and profile geometry Ground tooth flanks
Design	Case-hardened steel
Material	
Shaft-hub joint	1st stage/prestage/helical (bevel) gearbox: Friction-type connection Output stage (= 2nd, 3rd or 4th stage): Friction-type or positive-fit connection
Shaft sealing rings	With dust lip
Design	NB / FP
Material	
Bearing	Ball bearing / tapered-roller bearing depending on size and design
Design	
Lubricants	DIN 51502
Standard	corresponding to mounting position (see operating instructions)
Quantities	
Mechanical efficiency	
1-stage gearboxes [$\eta_{c=1}$]	
2-stage gearboxes [$\eta_{c=1}$]	
3-stage gearboxes [$\eta_{c=1}$]	0.95
4-stage gearboxes [$\eta_{c=1}$]	0.93
Notes	

GKS helical-bevel gearbox

General information



Functions and features

Lubricants

Lenze gearboxes and geared motors are ready for operation on delivery and are filled with lubricants that are specific to both the drive and the design. The mounting position and design specified in the order are decisive factors in choosing the volume of lubricant.

The lubricants listed in the lubricant table are approved for use in Lenze drives.

Lubricant table

Mode	CLP 460	CLP HC 320	CLP HC 220 USDA H1
Ambient temperature [°C]	0 ... +40	-25 ... +50	-20 ... +40
Specification	Mineral based oil with additives	Synthetic-based oil (synthetic hydrocarbon / poly-alpha-olefin oil)	
Note			For food processing industry
Changing interval	16000 operating hours not later than after three years (oil temperature 70...80 °C)	25000 operating hours not later than after three years (oil temperature 70...80 °C)	16000 operating hours not later than after three years (oil temperature 70...80 °C)
Fuchs	Fuchs Renolin CLP 460	Fuchs Renolin Unisyn CLP 320	bremer & leguil Cassida Fluid GL 220
Klüber	Klüberoil GEM1-460 N	Klübersynth GEM4-320 N	Klüberoil 4 UH1-220 N
Shell	Shell Omala 460	Shell Omala Oil HD 320	

- Please contact your Lenze office if you are operating in areas with
< -20 °C bzw. > ambient temperatures +40°C.



Functions and features

Surface and corrosion protection

For optimum protection of geared motors against ambient conditions, the surface and corrosion protection system (OKS) offers tailor-made solutions.

Various surface coatings combined with other protective measures ensure that the geared motors operate reliably even at high air humidity, in outdoor installation or in the presence of atmospheric impurities. Any colour from the RAL Classic collection can be chosen for the top coat. The geared motors are also available unpainted (no surface and corrosion protection).

Surface and corrosion protection system	Applications	Measures
	Catalogue text	Catalogue text
OKS-G (primed)	Dependent on subsequent top coat applied	1K priming coat (grey) - Zinc-coated screws - Rust-free breather elements Optional measures - Stainless steel nameplate
OKS-S (small)	- Standard applications - Internal installation in heated buildings - Air humidity up to 90%	- Surface coating as per corrosivity category C1 (in line with EN 12944-2) - Zinc-coated screws - Rust-free breather elements Optional measures - Stainless steel nameplate
OKS-M (medium)	- Internal installation in non-heated buildings - Covered, protected external installation - Air humidity up to 95%	- Surface coating as per corrosivity category C2 (in line with EN 12944-2) - Zinc-coated screws - Rust-free breather elements Optional measures - Stainless steel shaft - Stainless steel nameplate - Rust-free shrink disc (on request)
OKS-L (high)	- External installation - Air humidity above 95% - Chemical industry plants - Food industry	- Surface coating as per corrosivity category C3 (in line with EN 12944-2) - Blower cover and B end shield additionally primed - Cable glands with gaskets - Corrosion-resistant brake with cover ring, stainless friction plate, and chrome-plated armature plate (on request) - All screws/screw plugs zinc-coated - Stainless breather elements - Threaded holes that are not used are closed by means of plastic plugs Optional measures - Sealed recesses on motor (on request) - Stainless steel shaft - Stainless steel nameplate - Rust-free shrink disc (on request) - Additional priming coat on cast iron fan - Oil expansion tank and torque plates painted separately and supplied loose

GKS helical-bevel gearbox

General information



Functions and features

Structure of surface coating

Surface and corrosion protection system	Corrosivity category	Surface coating	Colour
	DIN EN ISO 12944-2	Structure	
Without OKS (uncoated)		Dipping primed gearbox	
OKS-G (primed)		Dipping primed gearbox 1K priming coat	
OKS-S (small)	C1	Dipping primed gearbox 2K-PUR top coat	Standard: RAL 7012 Optional: RAL Classic
OKS-M (medium)	C2	Dipping primed gearbox 1K priming coat 2K-PUR top coat	Standard: RAL 7012 Optional: RAL Classic
OKS-L (high)	C3	Dipping primed gearbox 2K-EP priming coat 2K-PUR top coat	Standard: RAL 7012 Optional: RAL Classic

GKS helical-bevel gearbox

General information



Functions and features

Ventilation

Gearboxes without ventilation

No ventilation measures are required for gearbox GKS04.

Gearboxes that may optionally be equipped with ventilation

Special measures are not usually required when using gearbox GST05. In borderline cases, e.g. at input speeds > 2000 r/min, we recommend the use of breather elements which we can supply if required.

Gearboxes with ventilation

Gearboxes GKS06...14 are supplied with breather elements as standard.

Special measures for mounting position C (motor on top)

We recommend that an oil compensation reservoir is always used with gearbox sizes G□□09...14 in this mounting position. This reservoir can be purchased as an option. For illustrations and measures see accessories chapter.

It is not required at higher ratios or low input speeds. Please contact Lenze in this event.



Dimensioning

General information about the data provided in this catalogue

Powers, torques and speeds

The powers, torques and speeds specified in this catalogue are rounded values and are valid under the following conditions:

- Operating time/day = 8 h (100% OT)
- Duty class I for up to 10 switching operations/h
- Mounting positions and designs in this catalogue
- Standard lubricant
- $T_{amb} = 20\text{ °C}$ for gearboxes,
 $T_{amb} = 40\text{ °C}$ for motors (in accordance with EN 60034)
- Site altitude $< = 1000\text{ m amsl}$
- The selection tables provide the permissible mechanical powers and torques. For notes on the thermal power limit, see chapter drive dimensioning.
- The rated power specified for motors and geared motors applies to operating mode S1 (in accordance with EN 60034).

Under different operating conditions, the values obtained may vary from those listed here.

In the case of extreme operating conditions, please consult your Lenze sales office.

GKS helical-bevel gearbox

General information



Dimensioning

Thermal power limit

The thermal power limit, defined by the heat balance, limits the permissible gearbox continuous power. It may be less than the mechanical power ratings listed in the selection tables.

The thermal power limit is affected by:

- The churning losses in the lubricant. These are determined by the mounting position and the circumferential speed of the wheels
- The load and the speed
- The ambient conditions: temperature, air circulation, input or dissipation via shafts and the foundation

Please consult your Lenze subsidiary

- if the following input speeds n_1 are exceeded on a continuous basis (continuous is defined as more than 8 h/day):

Motor frame size	Mounting position A, B, E, F	Mounting position C, D
063 ... 100	3000 r/min	3000 r/min
112 ... 132	3000 r/min	1500 r/min
160 ... 225	2000 r/min	1500 r/min

- if the following input speeds n_1 are exceeded:

Motor frame size	Mounting position A, B, E, F	Mounting position C, D
063 ... 100	4000 r/min	3000 r/min
112 ... 132	4000 r/min	2000 r/min
160 ... 225	3000 r/min	1500 r/min

- or if you are using the following gearbox type, size and ratio combinations at an input speed of $n_1 > 1500$ r/min:

Gearbox type	Gearbox size	Ratio i
GKS helical-bevel gearbox	07, 09, 11, 14	≤ 25

Possible ways of extending the application area

- Synthetic lubricant (option)
- Shaft sealing rings made from FP material/Viton (option)
- Reduction in lubricant quantity
- Cooling of the geared motor by means of air convection on the machine/system



Dimensioning

Load capacity and application factor

Load capacity *c* of gearbox

Rated value for the load capacity of Lenze geared motors.

- *c* is the ratio of the permissible rated torque of the gearbox to the rated torque supplied by the drive component (e.g. the built-in Lenze motor).
- The value of *c* must always be greater than the value of the application factor *k* calculated for the application.

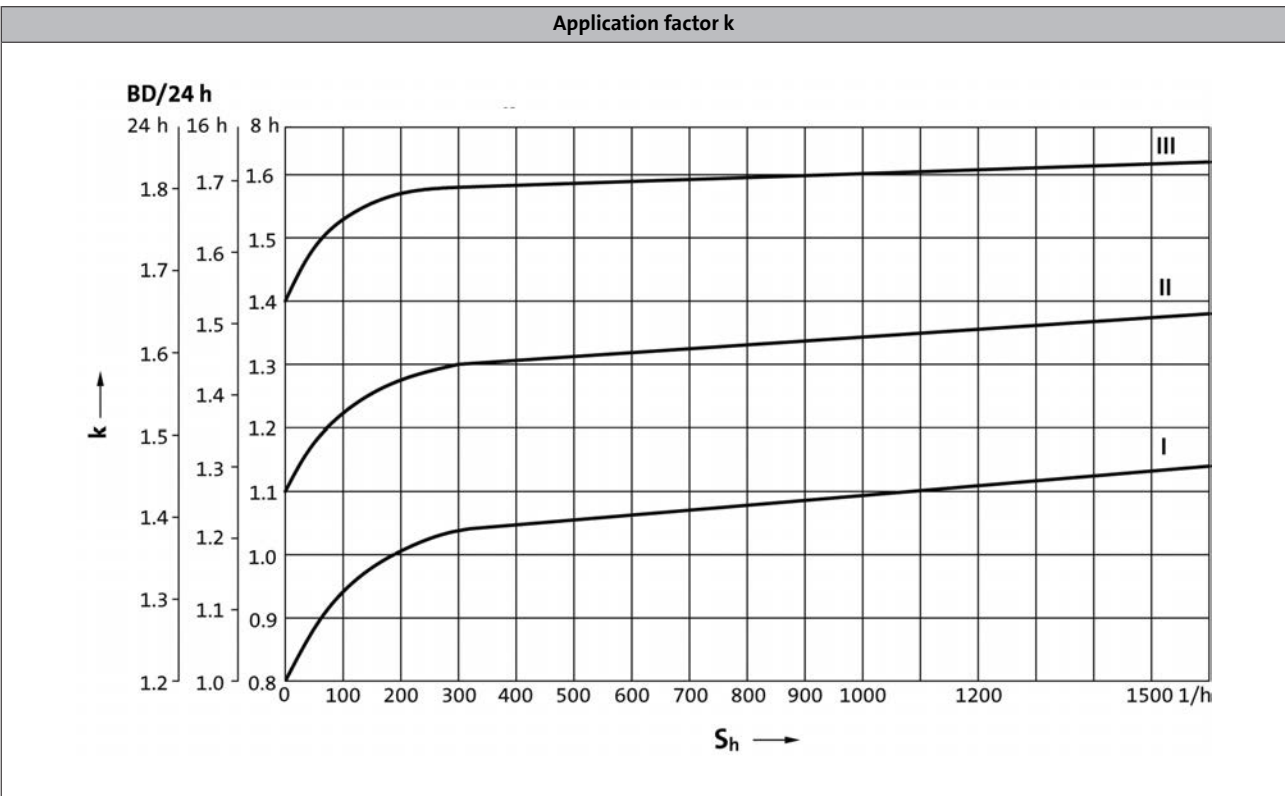
Application factor *k* (according to DIN 3990)

Takes into account the influence of temporally variable loads which are actually present during the anticipated operating time of gearboxes and geared motors.

k is determined by:

- The type of load
- The load intensity
- Temporal influences

Duty class	Load type
I	Smooth operation, small or light jolts
II	Uneven operation, average jolts
III	Uneven operation, severe jolts and/or alternating load

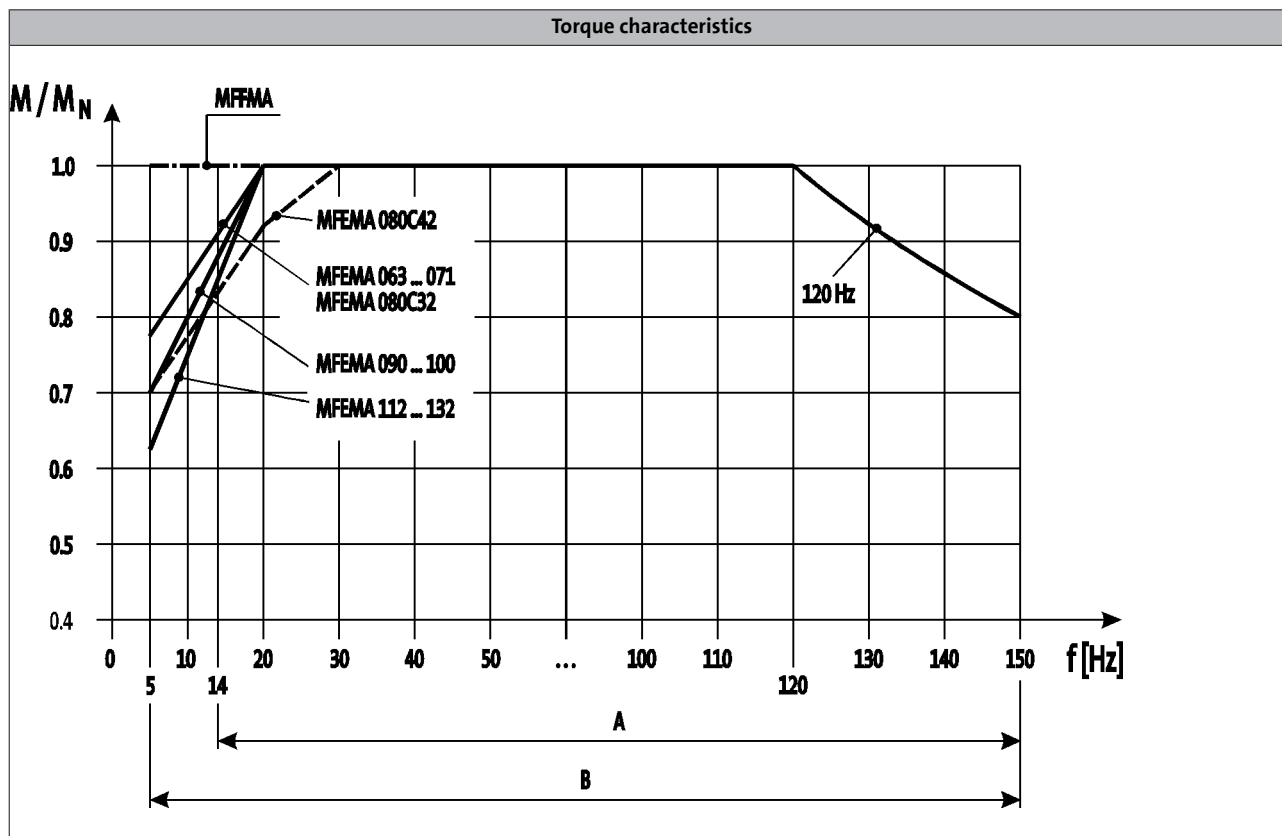




Dimensioning

Torque derating at low motor frequencies

Motor size-dependent torque reduction, taking into account the thermal response during operation on the inverter.



A = Operation with integral fan and brake

B = Operation with integral fan and brake control "Holding current reduction"

- The motor specifications stated in this catalogue for inverter operation apply to operation with a Lenze inverter. If you are uncertain, get in touch with the manufacturer of the inverter to ask whether the device is capable of driving the motor with the stated specifications (e.g. setting range, base frequency).

6.3

You can use the Drive Solution Designer for precise drive dimensioning.

The Drive Solution Designer helps you to carry out a fast and high-quality drive dimensioning.

The software includes well-founded and proven knowledge on drive applications and electro-mechanical drive components.

Please contact your Lenze sales office.



Dimensioning

Notes on the selection tables

The selection tables shown the available combinations of gearbox type, number of stages, ratio and motor. The following legend indicates the structure of the selection tables.

Gearbox type
↓
GST helical gearbox

Technical data

Selection tables

Rated power P_N of the drive motor in relation to the rated frequency → 120 Hz: $P_N = 0.55$ kW

Speed setting range → $n_{22}/n_2 = 1 \dots 24.0$

Speed range of the drive motor → $n_1 = 143.3 \dots 3440$ r/min

n_{22} [r/min]	n_{21} [r/min]	n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
70	293	-	1680	2.3	3.0	4.5	2.048	GST04-1M□□□063C32	E84AV□□□5514□□0
64	268	-	1536	2.6	3.0	3.9	2.240	GST05-1M□□□063C32	E84AV□□□5514□□0

Speed and torque information

The speed and torque information applies to self-ventilated and forced-ventilated drives. Externally cooled drives can always output the torque M_2 in all the setting ranges. In the case of self-ventilated drives, a reduction to M_{22} is necessary in the lower speed range.

Ratio i

The load capacity c of the gearbox c is the ratio of the gearbox's rated torque to the rated torque of the three-phase motor (calculated in respect of its application to the output shaft). c must always be greater than the application factor k determined for the application.

$$c = \frac{M_{2,zul}}{M_{1N} \cdot i \cdot \eta_{Getr}} > k$$

Product key of geared motor

Product key of inverter

Page number for dimensions

GKS helical-bevel gearbox

General information



Notes on ordering

We want to be sure that you receive the correct products in good time.

To allow us to achieve this we need:

- Your address and your company data
- Our product key for the individual products in this catalogue
- Your delivery data such as delivery date and delivery address

Ordering procedure

Please use the ordering information checklist to ensure that you provide all the order information required for the various products.

The ordering information checklist, the product key, the basic versions, options, mounting position and position of the system blocks will be found in the General – Product key section.

A list of Lenze's worldwide sales offices can be found on the Internet

GKS helical-bevel gearbox

General information



Ordering details checklist

☐ Offer

Page __ of __

☐ Order

Customer No.

--	--	--	--	--	--	--	--

Job No.

--	--	--	--	--	--	--	--	--	--

Fax No.

Sender

Company

Street/P.O. Box

P.O. Box, City

Date

Signature

Made out by (name)

Department

Telephone No.

Delivery address (if different)

Street/P.O. Box

P.O. Box, City

Desired delivery date

Dispatching notes

Invoice recipient (if different)

Street/P.O. Box

Postal code, City

GKS helical-bevel gearbox

General information



Ordering details checklist

Customer No.

Job No.

Page __

Quantity

Efficiency class

☐

Standard efficiency

☐

High efficiency (IE2)

Rated frequency

☐

50 Hz

☐

60 Hz

☐

87 Hz

Ratio i

GKS - ☐ 3 ☐ M ☐ V ☐ H ☐ S ☐ A ☐ R ☐ B ☐ K ☐ C

Hollow shaft d = mm Flange a₂ = mm

Mounting position

A B C D E F

☐ ☐ ☐ ☐ ☐ ☐

Position of system blocks

Shaft/shrink disc

0 3 4 8

☐ ☐ ☐ ☐

Flange

0 3 5 8

☐ ☐ ☐ ☐

Terminal box

2 3 4 5

☐ ☐ ☐ ☐

Surface and corrosion protection

☐

OKS-S
colour: RAL 7012

☐

OKS-G
(primed)

Options

Special lubricants

☐

CLP HC 320
(synthetic)

☐

CLP HC 220 USDA H1
(for the food industry)

Surface and corrosion protection

☐

OKS-S
(small)

☐

OKS-M
(medium)

RAL

☐

OKS-L
(high)

☐

OKS-G
(primed)

Accessories

☐

Torque support for housing foot

☐

Torque support for threaded pitch circle

☐

2nd output shaft end

☐

Mounting set for hollow-shaft circlip

☐

Shrink disc cover

☐

Hollow shaft cover, hoseproof

Shaft sealing rings

☐

Viton

Breathing

☐

Breather elements for GKS05

☐

Compensation reservoir in mounting position for GKS09 ... 14-3

GKS helical-bevel gearbox

General information



Ordering details checklist

Three-phase AC motors options

Customer No.

--	--	--	--	--	--	--	--

Job No.

--	--	--	--	--	--	--	--

Page ____

Motor connection

Terminal box

- ☐ with plug-in connector ICN 6-pin.
Adhere to permissible rated motor current 20 A!
- ☐ with plug-in connector ICN 8-pin.
Adhere to permissible rated motor current 20 A!
- ☐ with plug-in connector HAN10E.
Adhere to permissible rated current 16 A!
- ☐ with plug-in connector HAN-Modular.
Adhere to permissible rated current 16 / 40 A!

Cable entry

only with M□□MAXX/LL063 ... 132
or terminal box with plug-in connector
in position

1	2	3	4	5
☐	☐	☐	☐	☐

Blower

☐ 1~ ☐ 3~

☐ Terminal box with plug-in connector ICN

Terminal box position

2	3	4	5
☐	☐	☐	☐

Spring-applied brake

Brake version

☐ Standard ☐ Longlife

Brake size

Characteristic torque

 Nm

Rated voltage

AC	DC	
☐	☐	V

Rectifier

Only in the case of AC supply voltage

- | | |
|---|--|
| ☐ Half-wave rectifier | ☐ Bridge rectifier |
| ☐ Bridge/half-wave rectifier
(overexcitation) | ☐ Bridge/half-wave rectifier
(holding current reduction) |

Brake options

Manual release lever
in position

2	3	4	5
☐	☐	☐	☐

☐ Low-noise version
(Standard in the case of brake with speed/position encoder)

6.3

GKS helical-bevel gearbox

General information



Ordering details checklist

Three-phase AC motors options

Customer No.

Job No.

Page ____

Speed/position
encoder

Resolver ☐ RS1

Incremental encoder HTL ☐ IG128-24V-H ☐ IG512-24V-H ☐ IG1024-24V-H ☐ IG2048-24V-H

Incremental encoder TTL ☐ IG512-5V-T ☐ IG1024-5V-T ☐ IG2048-5V-T

Feedback with ICN connector ☐ IG128-24V-H not possible with plug-in connector!

Motor protection

☐ PTC

☐ KTY 83-110

☐ KTY 84-130

Approval

☐ UL/CSA
approval: cURus

☐ CCC

☐ China Energy Label

Further options

Indication of supply voltage only for motor frame sizes 112C32 to 225C22

☐ Δ; 400V-50Hz; 460V-60Hz

☐ Y/Δ; 400/230V-50Hz; 460/265V-60Hz
(-/400V-87Hz possible in operation with
frequency inverter)

☐ Protection cover

☐ 2nd shaft end

☐ Handwheel

☐ Increased centrifugal mass

☐ 2nd nameplate (adhesive nameplate/metal nameplate)



Permissible radial and axial forces at output

Permissible radial force

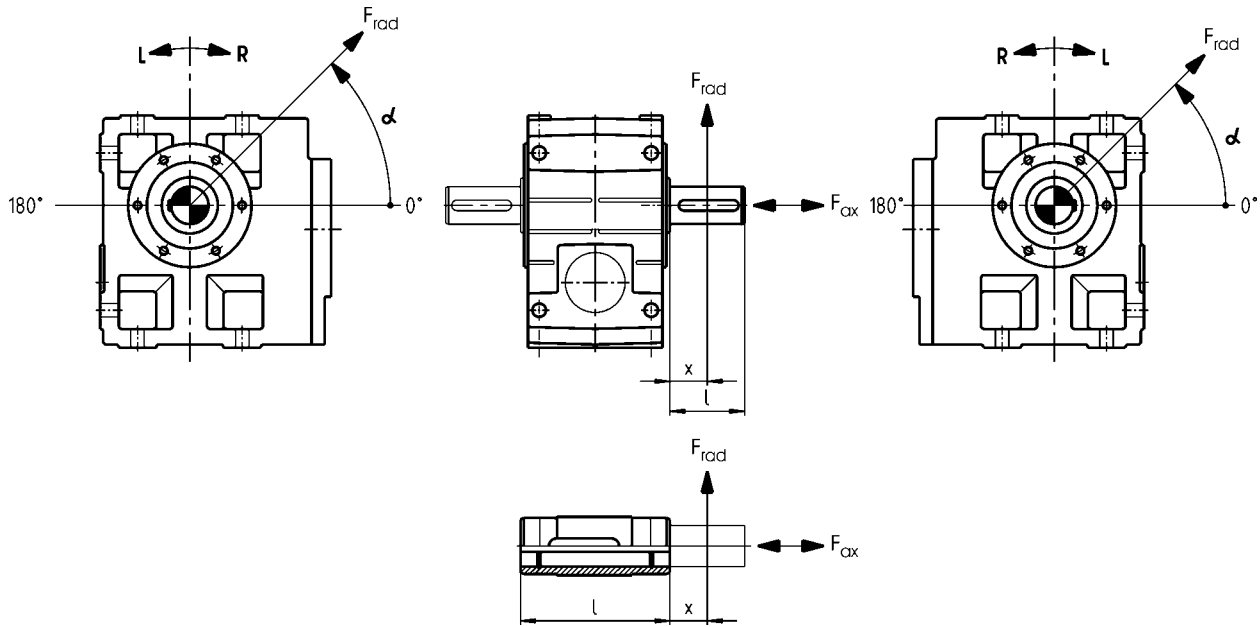
$F_{rad,per} = \min(f_w \times f_Q \times F_{rad,max} ; f_w \times F_{rad,max} \text{ at } n_2 \leq 16 \text{ r/min})$

Permissible axial force

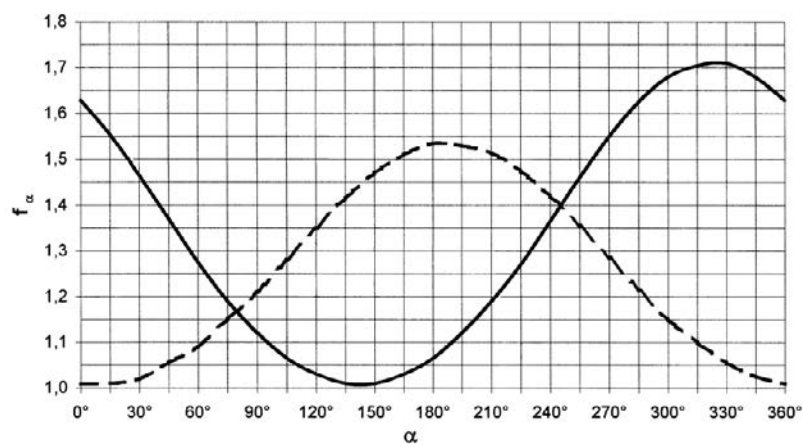
$F_{ax,per} = F_{ax,max} \text{ if } F_{rad} = 0$

If F_{rad} and $F_{ax} \neq 0$; please contact Lenze.

Application of forces



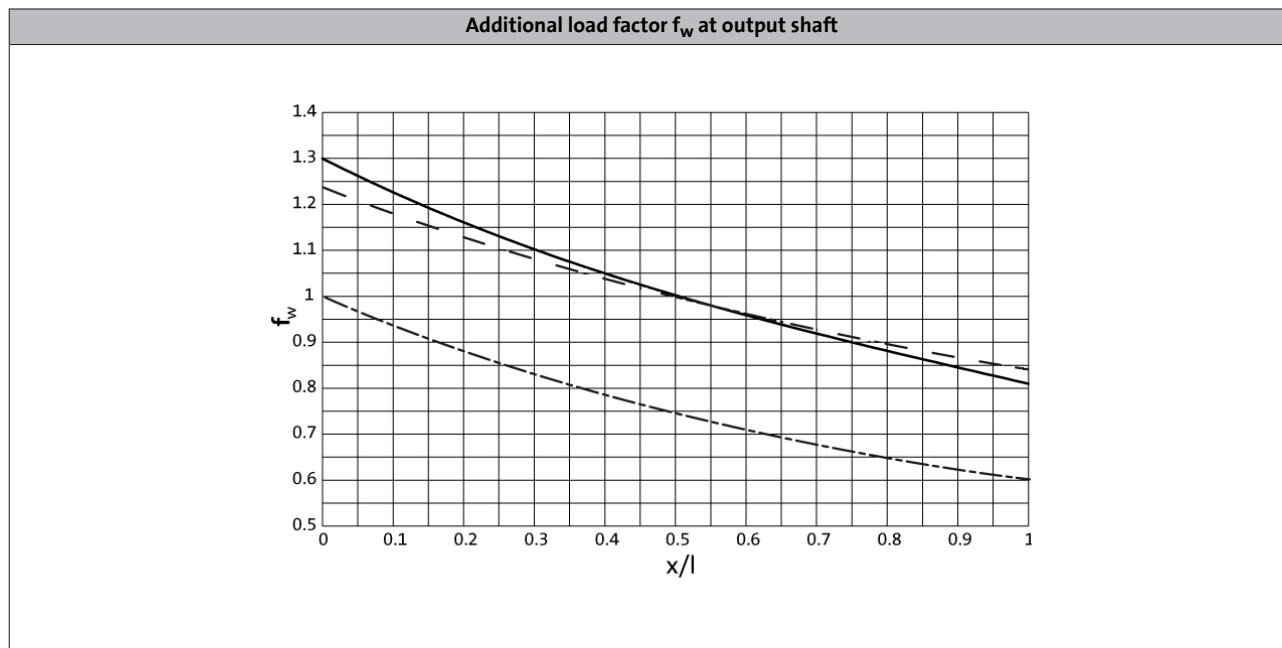
Effective direction factor f_Q at output shaft



— Direction of rotation R
 - - - Direction of rotation L



Permissible radial and axial forces at output



— Solid shaft (V□□)

- - - Solid shaft with flange (V□□K)

- · - Hollow shaft (H□□)

GKS□□-3/4□ H□□

Size	n_2 [r/min]								
Gearbox	630	400	250	160	100	63	40	25	≤16

Max. radial force, Hollow shaft									
	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$	$F_{rad,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GKS04	3100	3900	4500	5100	5900	6800	7000	7000	7000
GKS05	2400	3500	4200	4630	5000	6200	7300	7300	7300
GKS06	3000	4600	5600	6400	7000	8200	10400	12000	12000
GKS07		5400	6300	7400	8700	10500	12500	15100	16000
GKS09		7500	8200	9400	10600	12200	15500	21000	24000
GKS11		9000	10000	11000	14000	16000	18500	25000	30000
GKS14		15000	15500	16500	17500	18500	21000	28000	40000

Max. axial force, Hollow shaft									
	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$	$F_{ax,max}$
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GKS04	3300	4200	5000	5500	5500	5500	5500	5500	5500
GKS05	2800	3500	4240	5090	6160	6600	6600	6600	6600
GKS06	3500	4440	5580	6930	8710	10000	10000	10000	10000
GKS07		4900	6230	7820	9940	12600	14000	14000	14000
GKS09		6500	7400	8000	10500	13000	17000	21000	21000
GKS11		7000	8000	9200	12000	14500	18500	27000	27000
GKS14		6000	8000	10000	13000	16000	20000	28000	35000

- Application of force F_{rad} at hollow shaft end face ($x = 0$)
- $F_{ax,max}$ only valid with $F_{rad} = 0$
- Neither radial nor axial forces are permissible for the hollow shaft with shrink disc (S□□).

GKS helical-bevel gearbox

Technical data



Permissible radial and axial forces at output

GKS□□-3/4□ V□R

Size	n ₂ [r/min]								
Gearbox	630	400	250	160	100	63	40	25	≤16
Max. radial force, Solid shaft without flange									
	F _{rad,max}	F _{rad,max}	F _{rad,max}	F _{rad,max}	F _{rad,max}	F _{rad,max}	F _{rad,max}	F _{rad,max}	F _{rad,max}
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GKS04	2400	3000	3400	3600	3600	3600	3600	3600	3600
GKS05	2200	2800	3200	3600	4100	4900	5800	5800	5800
GKS06	2700	3700	4300	4900	5300	6200	7900	9000	9000
GKS07		4000	4900	5800	6600	8000	9600	12000	12000
GKS09 ¹⁾		6200	6400	7100	8400	9500	11800	16000	18000
GKS11 ¹⁾		7100	7500	8200	10000	11200	13000	19000	23000
GKS14		57900	61000	64100	65000	65000	65000	65000	65000
Max. axial force, Solid shaft without flange									
	F _{ax,max}	F _{ax,max}	F _{ax,max}	F _{ax,max}	F _{ax,max}	F _{ax,max}	F _{ax,max}	F _{ax,max}	F _{ax,max}
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GKS04	3300	4200	5000	5500	5500	5500	5500	5500	5500
GKS05	2800	3500	4240	5090	6160	6600	6600	6600	6600
GKS06	3500	4440	5580	6930	8710	10000	10000	10000	10000
GKS07		4900	6230	7820	9940	12600	14000	14000	14000
GKS09 ¹⁾		6500	7400	8000	10500	13000	17000	21000	21000
GKS11 ¹⁾		7000	8000	9200	12000	14500	18500	27000	27000
GKS14		35000	35000	35000	35000	35000	35000	35000	35000

¹⁾ Reinforced output shaft bearings are available on request for V□R versions.

- Application of force F_{rad}: centre of shaft journal (x = l/2)
- F_{ax,max} only valid with F_{rad} = 0

GKS helical-bevel gearbox

Technical data



Permissible radial and axial forces at output

GKS□□-3/4□ V□K

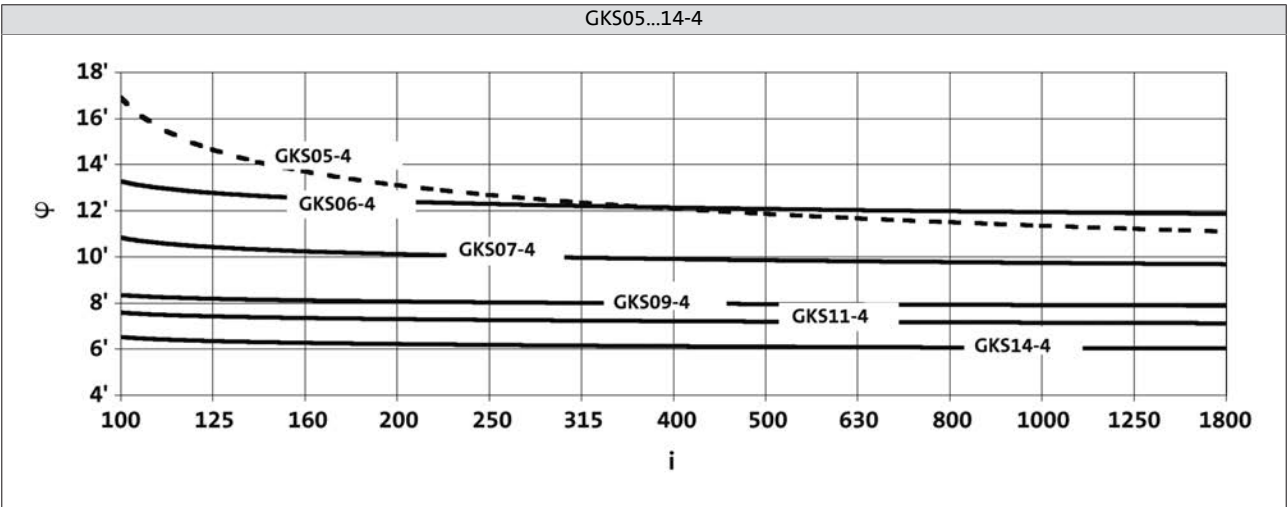
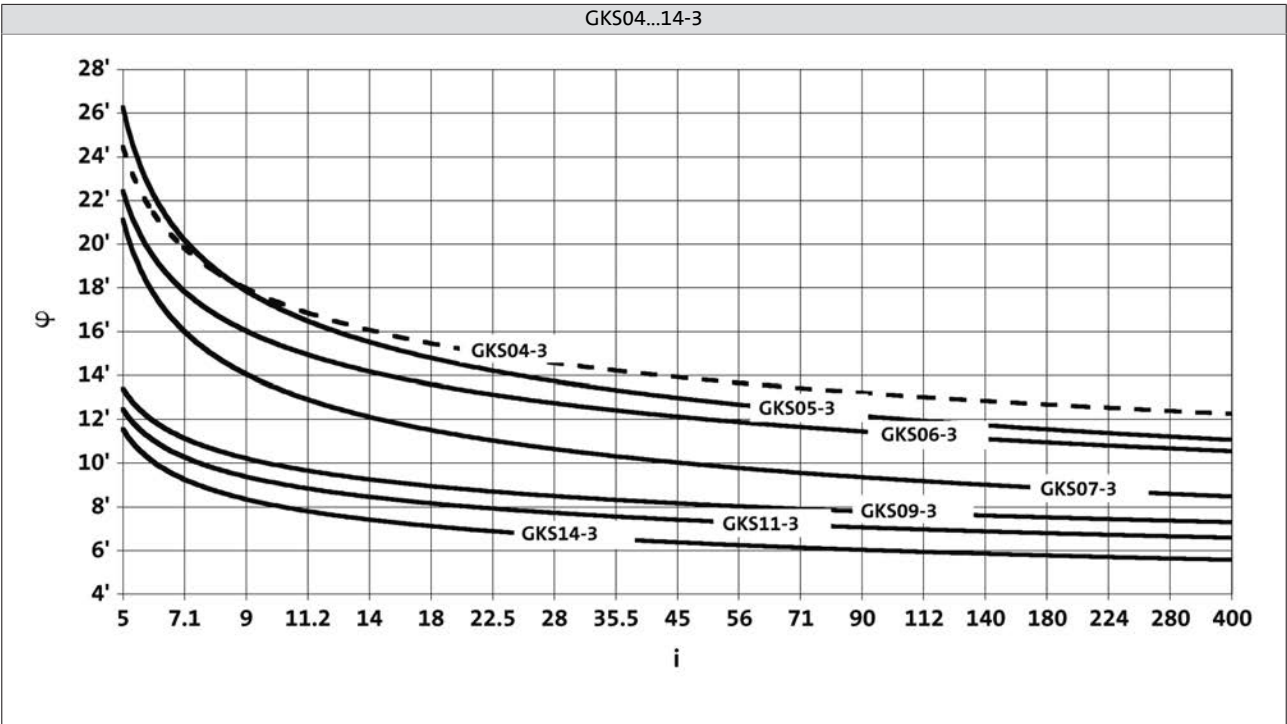
Size	n ₂ [r/min]								
Gearbox	630	400	250	160	100	63	40	25	≤16
Max. radial force, Solid shaft with flange									
	F _{rad,max}	F _{rad,max}	F _{rad,max}	F _{rad,max}	F _{rad,max}	F _{rad,max}	F _{rad,max}	F _{rad,max}	F _{rad,max}
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GKS04	3100	3800	4300	4600	4600	4600	4600	4600	4600
GKS05	3800	4640	5420	6280	7000	7000	7000	7000	7000
GKS06	4700	6400	7500	8800	9800	10000	10000	10000	10000
GKS07		7000	8250	9630	11000	13000	14000	14000	14000
GKS09		9900	10500	12000	14000	15000	15000	15000	15000
GKS11		14500	16000	17600	21000	24500	28000	30000	30000
GKS14		20500	23700	27200	31300	35000	41000	43000	43000
Max. axial force, Solid shaft with flange									
	F _{ax,max}	F _{ax,max}	F _{ax,max}	F _{ax,max}	F _{ax,max}	F _{ax,max}	F _{ax,max}	F _{ax,max}	F _{ax,max}
	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]	[N]
GKS04	3300	4200	4400	4400	4400	4400	4400	4400	4400
GKS05	2900	3630	4440	5420	6600	6600	6600	6600	6600
GKS06	3700	4660	5880	7320	9230	10000	10000	10000	10000
GKS07		5700	7000	8500	10400	11500	11500	11500	11500
GKS09		6000	6600	7600	10000	12000	15000	17000	17000
GKS11		7000	7500	8500	10500	13000	17500	27000	27000
GKS14		8400	10000	11500	13000	15000	19000	28000	35000

- Application of force F_{rad}: centre of shaft journal (x = l/2)
- F_{ax,max} only valid with F_{rad} = 0



Output backlash in angular minutes

► Backlash φ depending on ratio i





Moments of inertia

GKS□□-3

- Moment of inertia (J) depending on ratio i

Gearbox			GKS04
5.123	J	[kgcm ²]	1.170
7.025	J	[kgcm ²]	0.676
8.167	J	[kgcm ²]	0.863
8.991	J	[kgcm ²]	0.444
11.730	J	[kgcm ²]	0.729
13.067	J	[kgcm ²]	0.701
14.333	J	[kgcm ²]	0.346
16.087	J	[kgcm ²]	0.443
17.920	J	[kgcm ²]	0.428
20.588	J	[kgcm ²]	0.302
22.522	J	[kgcm ²]	0.262
25.088	J	[kgcm ²]	0.254
28.727	J	[kgcm ²]	0.182
32.000	J	[kgcm ²]	0.177
35.191	J	[kgcm ²]	0.136
39.200	J	[kgcm ²]	0.132
44.240	J	[kgcm ²]	0.090
50.943	J	[kgcm ²]	0.181
56.976	J	[kgcm ²]	0.061
64.978	J	[kgcm ²]	0.132
72.210	J	[kgcm ²]	0.040
79.598	J	[kgcm ²]	0.103
90.491	J	[kgcm ²]	0.027
100.067	J	[kgcm ²]	0.069
111.467	J	[kgcm ²]	0.069
128.874	J	[kgcm ²]	0.048
143.556	J	[kgcm ²]	0.048
163.332	J	[kgcm ²]	0.032
181.939	J	[kgcm ²]	0.032
204.682	J	[kgcm ²]	0.022
228.000	J	[kgcm ²]	0.022
269.660	J	[kgcm ²]	0.014
300.381	J	[kgcm ²]	0.014

Gearbox			GKS05
6.863	J	[kgcm ²]	1.900
9.412	J	[kgcm ²]	1.170
10.569	J	[kgcm ²]	1.600
11.667	J	[kgcm ²]	1.647
13.176	J	[kgcm ²]	0.711
14.494	J	[kgcm ²]	1.045
16.000	J	[kgcm ²]	1.040
17.054	J	[kgcm ²]	1.505
19.216	J	[kgcm ²]	1.474
23.388	J	[kgcm ²]	0.964
26.353	J	[kgcm ²]	0.948
29.931	J	[kgcm ²]	0.674
32.744	J	[kgcm ²]	0.584
36.894	J	[kgcm ²]	0.576
41.765	J	[kgcm ²]	0.419
47.059	J	[kgcm ²]	0.414
51.162	J	[kgcm ²]	0.321
57.647	J	[kgcm ²]	0.317
66.592	J	[kgcm ²]	0.200
75.033	J	[kgcm ²]	0.198
82.833	J	[kgcm ²]	0.145
93.333	J	[kgcm ²]	0.144
107.196	J	[kgcm ²]	0.091
120.784	J	[kgcm ²]	0.091
130.097	J	[kgcm ²]	0.067
146.588	J	[kgcm ²]	0.066
166.276	J	[kgcm ²]	0.043
187.353	J	[kgcm ²]	0.042
211.200	J	[kgcm ²]	0.081
227.484	J	[kgcm ²]	0.060
256.320	J	[kgcm ²]	0.060
290.745	J	[kgcm ²]	0.038
327.600	J	[kgcm ²]	0.038

- The moments of inertia relate to the drive shaft of the gearbox.
- The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.

GKS helical-bevel gearbox

Technical data



Moments of inertia

GKS□□-3

- Moment of inertia (J) depending on ratio i

Gearbox			GKS06
6.485	J	[kgcm ²]	5.870
9.196	J	[kgcm ²]	5.048
10.147	J	[kgcm ²]	4.858
11.382	J	[kgcm ²]	2.492
12.612	J	[kgcm ²]	3.199
14.824	J	[kgcm ²]	4.287
16.699	J	[kgcm ²]	4.163
17.809	J	[kgcm ²]	2.126
20.329	J	[kgcm ²]	2.794
22.902	J	[kgcm ²]	2.729
26.017	J	[kgcm ²]	1.941
28.461	J	[kgcm ²]	1.666
32.063	J	[kgcm ²]	1.632
36.303	J	[kgcm ²]	1.183
41.472	J	[kgcm ²]	2.110
44.471	J	[kgcm ²]	0.900
53.074	J	[kgcm ²]	1.523
57.882	J	[kgcm ²]	0.578
65.207	J	[kgcm ²]	0.570
72.000	J	[kgcm ²]	0.422
81.111	J	[kgcm ²]	0.416
93.176	J	[kgcm ²]	0.257
104.967	J	[kgcm ²]	0.254
113.082	J	[kgcm ²]	0.189
127.392	J	[kgcm ²]	0.186
142.941	J	[kgcm ²]	0.122
161.029	J	[kgcm ²]	0.121
190.080	J	[kgcm ²]	0.227
214.133	J	[kgcm ²]	0.226
230.688	J	[kgcm ²]	0.168
259.880	J	[kgcm ²]	0.167
291.600	J	[kgcm ²]	0.109
328.500	J	[kgcm ²]	0.109

Gearbox			GKS07
5.955	J	[kgcm ²]	19.300
8.254	J	[kgcm ²]	11.800
9.171	J	[kgcm ²]	16.000
10.124	J	[kgcm ²]	15.882
11.378	J	[kgcm ²]	7.019
12.711	J	[kgcm ²]	10.164
14.798	J	[kgcm ²]	14.306
16.674	J	[kgcm ²]	13.965
17.270	J	[kgcm ²]	7.258
20.511	J	[kgcm ²]	9.084
23.111	J	[kgcm ²]	8.906
25.244	J	[kgcm ²]	6.716
28.274	J	[kgcm ²]	5.567
31.858	J	[kgcm ²]	5.473
36.063	J	[kgcm ²]	3.650
40.906	J	[kgcm ²]	6.934
44.178	J	[kgcm ²]	2.779
50.345	J	[kgcm ²]	5.298
57.501	J	[kgcm ²]	1.748
64.790	J	[kgcm ²]	1.725
70.474	J	[kgcm ²]	1.295
79.407	J	[kgcm ²]	1.280
92.563	J	[kgcm ²]	0.808
104.296	J	[kgcm ²]	0.799
112.338	J	[kgcm ²]	0.592
126.578	J	[kgcm ²]	0.586
140.548	J	[kgcm ²]	1.113
158.364	J	[kgcm ²]	1.113
184.600	J	[kgcm ²]	0.687
208.000	J	[kgcm ²]	0.685
224.037	J	[kgcm ²]	0.510
252.436	J	[kgcm ²]	0.509
283.193	J	[kgcm ²]	0.330
319.091	J	[kgcm ²]	0.329

- The moments of inertia relate to the drive shaft of the gearbox.
- The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.

GKS helical-bevel gearbox

Technical data



Moments of inertia

GKS□□-3

- Moment of inertia (J) depending on ratio i

Gearbox			GKS09
12.283	J	[kgcm ²]	34.200
13.360	J	[kgcm ²]	33.400
16.122	J	[kgcm ²]	22.600
17.536	J	[kgcm ²]	22.200
19.541	J	[kgcm ²]	30.600
22.022	J	[kgcm ²]	29.900
25.649	J	[kgcm ²]	20.500
29.228	J	[kgcm ²]	15.900
32.940	J	[kgcm ²]	15.600
35.193	J	[kgcm ²]	12.200
39.662	J	[kgcm ²]	12.000
43.146	J	[kgcm ²]	9.000
48.625	J	[kgcm ²]	8.870
58.456	J	[kgcm ²]	5.540
65.879	J	[kgcm ²]	5.470
70.982	J	[kgcm ²]	4.140
79.996	J	[kgcm ²]	4.100
91.860	J	[kgcm ²]	2.630
103.524	J	[kgcm ²]	2.610
111.484	J	[kgcm ²]	1.920
125.641	J	[kgcm ²]	1.900
140.921	J	[kgcm ²]	1.260
158.816	J	[kgcm ²]	1.250
182.000	J	[kgcm ²]	2.250
205.111	J	[kgcm ²]	2.240
220.882	J	[kgcm ²]	1.660
248.930	J	[kgcm ²]	1.650
279.205	J	[kgcm ²]	1.100
314.659	J	[kgcm ²]	1.100

Gearbox			GKS11
12.094	J	[kgcm ²]	104.000
13.154	J	[kgcm ²]	101.000
15.874	J	[kgcm ²]	68.000
17.265	J	[kgcm ²]	66.500
19.515	J	[kgcm ²]	90.300
21.989	J	[kgcm ²]	90.400
25.615	J	[kgcm ²]	61.200
28.021	J	[kgcm ²]	52.200
31.573	J	[kgcm ²]	51.300
35.741	J	[kgcm ²]	36.800
40.272	J	[kgcm ²]	36.200
43.783	J	[kgcm ²]	27.900
49.333	J	[kgcm ²]	27.500
57.683	J	[kgcm ²]	17.700
64.995	J	[kgcm ²]	17.500
70.887	J	[kgcm ²]	13.000
79.873	J	[kgcm ²]	12.900
91.737	J	[kgcm ²]	8.300
103.365	J	[kgcm ²]	8.210
111.335	J	[kgcm ²]	6.050
125.448	J	[kgcm ²]	5.990
140.732	J	[kgcm ²]	3.960
158.571	J	[kgcm ²]	3.930
186.572	J	[kgcm ²]	7.070
210.222	J	[kgcm ²]	7.050
226.431	J	[kgcm ²]	5.210
255.133	J	[kgcm ²]	5.200
286.219	J	[kgcm ²]	3.440
322.500	J	[kgcm ²]	3.430

- The moments of inertia relate to the drive shaft of the gearbox.
- The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.



Moments of inertia

GKS□□-3

- Moment of inertia (J) depending on ratio i

Gearbox			GKS14
12.435	J	[kgcm²]	283.000
13.525	J	[kgcm²]	275.000
16.646	J	[kgcm²]	198.000
18.311	J	[kgcm²]	173.000
20.065	J	[kgcm²]	249.000
22.609	J	[kgcm²]	243.000
24.696	J	[kgcm²]	183.000
27.165	J	[kgcm²]	159.000
30.609	J	[kgcm²]	156.000
34.692	J	[kgcm²]	111.000
39.089	J	[kgcm²]	109.000
42.531	J	[kgcm²]	82.400
47.923	J	[kgcm²]	81.100
56.251	J	[kgcm²]	54.200
63.382	J	[kgcm²]	53.500
68.942	J	[kgcm²]	38.900
77.681	J	[kgcm²]	38.400
90.551	J	[kgcm²]	25.100
102.029	J	[kgcm²]	24.900
109.896	J	[kgcm²]	18.300
123.826	J	[kgcm²]	18.100
138.913	J	[kgcm²]	12.000
156.522	J	[kgcm²]	11.900
186.572	J	[kgcm²]	21.600
210.222	J	[kgcm²]	21.500
226.431	J	[kgcm²]	15.900
255.133	J	[kgcm²]	15.800
286.219	J	[kgcm²]	10.500
322.500	J	[kgcm²]	10.500

- The moments of inertia relate to the drive shaft of the gearbox.
- The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.

GKS helical-bevel gearbox

Technical data



Moments of inertia

GKS□□-4

- Moment of inertia (J) depending on ratio i

Gearbox			GKS05
95.238	J	[kgcm ²]	0.143
114.987	J	[kgcm ²]	0.196
126.933	J	[kgcm ²]	0.196
146.667	J	[kgcm ²]	0.142
161.905	J	[kgcm ²]	0.141
185.547	J	[kgcm ²]	0.195
209.067	J	[kgcm ²]	0.195
225.867	J	[kgcm ²]	0.073
236.667	J	[kgcm ²]	0.141
289.917	J	[kgcm ²]	0.108
326.667	J	[kgcm ²]	0.108
364.467	J	[kgcm ²]	0.073
410.667	J	[kgcm ²]	0.073
469.389	J	[kgcm ²]	0.050
510.000	J	[kgcm ²]	0.023
528.889	J	[kgcm ²]	0.050
594.894	J	[kgcm ²]	0.033
670.303	J	[kgcm ²]	0.033
820.760	J	[kgcm ²]	0.050
924.800	J	[kgcm ²]	0.050
1040.215	J	[kgcm ²]	0.033
1172.073	J	[kgcm ²]	0.033
1303.560	J	[kgcm ²]	0.023
1468.800	J	[kgcm ²]	0.023
1717.389	J	[kgcm ²]	0.014
1935.086	J	[kgcm ²]	0.014

Gearbox			GKS06
103.721	J	[kgcm ²]	0.300
113.205	J	[kgcm ²]	0.234
127.059	J	[kgcm ²]	0.264
140.816	J	[kgcm ²]	0.213
155.647	J	[kgcm ²]	0.191
174.336	J	[kgcm ²]	0.112
202.588	J	[kgcm ²]	0.168
224.524	J	[kgcm ²]	0.074
252.000	J	[kgcm ²]	0.155
279.286	J	[kgcm ²]	0.069
316.800	J	[kgcm ²]	0.102
361.429	J	[kgcm ²]	0.064
408.000	J	[kgcm ²]	0.068
458.067	J	[kgcm ²]	0.042
517.091	J	[kgcm ²]	0.044
555.927	J	[kgcm ²]	0.041
640.800	J	[kgcm ²]	0.062
696.668	J	[kgcm ²]	0.028
812.137	J	[kgcm ²]	0.040
914.907	J	[kgcm ²]	0.040
1017.741	J	[kgcm ²]	0.028
1146.529	J	[kgcm ²]	0.028
1340.834	J	[kgcm ²]	0.017
1510.507	J	[kgcm ²]	0.017

- The moments of inertia relate to the drive shaft of the gearbox.
- The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.



Moments of inertia

GKS□□-4

- Moment of inertia (J) depending on ratio i

Gearbox			GKS07
103.039	J	[kgcm ²]	0.837
112.391	J	[kgcm ²]	0.632
126.222	J	[kgcm ²]	0.729
137.748	J	[kgcm ²]	0.571
154.622	J	[kgcm ²]	0.527
179.201	J	[kgcm ²]	0.283
201.254	J	[kgcm ²]	0.454
222.909	J	[kgcm ²]	0.199
246.659	J	[kgcm ²]	0.417
273.199	J	[kgcm ²]	0.184
321.049	J	[kgcm ²]	0.256
358.829	J	[kgcm ²]	0.169
399.353	J	[kgcm ²]	0.182
464.367	J	[kgcm ²]	0.106
516.810	J	[kgcm ²]	0.113
563.572	J	[kgcm ²]	0.101
636.581	J	[kgcm ²]	0.161
683.972	J	[kgcm ²]	0.074
823.810	J	[kgcm ²]	0.101
928.237	J	[kgcm ²]	0.101
999.806	J	[kgcm ²]	0.073
1126.542	J	[kgcm ²]	0.073
1277.842	J	[kgcm ²]	0.047
1439.822	J	[kgcm ²]	0.047

Gearbox			GKS09
100.551	J	[kgcm ²]	2.480
113.320	J	[kgcm ²]	2.456
123.275	J	[kgcm ²]	2.107
138.929	J	[kgcm ²]	2.091
151.012	J	[kgcm ²]	1.516
170.188	J	[kgcm ²]	1.505
204.596	J	[kgcm ²]	1.244
230.577	J	[kgcm ²]	1.239
248.439	J	[kgcm ²]	1.128
279.986	J	[kgcm ²]	1.125
323.365	J	[kgcm ²]	0.713
364.427	J	[kgcm ²]	0.710
402.234	J	[kgcm ²]	0.509
453.311	J	[kgcm ²]	0.507
520.538	J	[kgcm ²]	0.466
586.638	J	[kgcm ²]	0.465
631.744	J	[kgcm ²]	0.443
711.965	J	[kgcm ²]	0.443
817.551	J	[kgcm ²]	0.276
921.367	J	[kgcm ²]	0.276
992.209	J	[kgcm ²]	0.201
1118.204	J	[kgcm ²]	0.201
1254.197	J	[kgcm ²]	0.130
1413.461	J	[kgcm ²]	0.130

- The moments of inertia relate to the drive shaft of the gearbox.
- The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.

GKS helical-bevel gearbox

Technical data



Moments of inertia

GKS□□-4

- Moment of inertia (J) depending on ratio i

Gearbox			GKS11
102.119	J	[kgcm ²]	7.276
115.063	J	[kgcm ²]	7.205
125.095	J	[kgcm ²]	6.233
140.952	J	[kgcm ²]	6.186
153.242	J	[kgcm ²]	4.500
172.667	J	[kgcm ²]	4.469
201.890	J	[kgcm ²]	3.735
227.481	J	[kgcm ²]	3.717
248.106	J	[kgcm ²]	3.355
279.556	J	[kgcm ²]	3.343
322.931	J	[kgcm ²]	2.088
363.866	J	[kgcm ²]	2.081
395.787	J	[kgcm ²]	1.521
445.958	J	[kgcm ²]	1.517
512.196	J	[kgcm ²]	1.385
577.122	J	[kgcm ²]	1.382
621.619	J	[kgcm ²]	1.314
700.416	J	[kgcm ²]	1.312
816.455	J	[kgcm ²]	0.819
919.949	J	[kgcm ²]	0.818
990.879	J	[kgcm ²]	0.600
1116.484	J	[kgcm ²]	0.599
1252.516	J	[kgcm ²]	0.386
1411.286	J	[kgcm ²]	0.385

Gearbox			GKS14
97.467	J	[kgcm ²]	23.471
109.822	J	[kgcm ²]	23.232
119.493	J	[kgcm ²]	19.936
134.640	J	[kgcm ²]	19.777
158.039	J	[kgcm ²]	16.438
178.072	J	[kgcm ²]	16.348
193.754	J	[kgcm ²]	12.076
218.315	J	[kgcm ²]	12.016
237.467	J	[kgcm ²]	10.871
267.568	J	[kgcm ²]	10.830
321.729	J	[kgcm ²]	6.420
362.512	J	[kgcm ²]	6.398
390.671	J	[kgcm ²]	4.749
440.193	J	[kgcm ²]	4.734
513.121	J	[kgcm ²]	4.330
578.164	J	[kgcm ²]	4.322
622.742	J	[kgcm ²]	4.122
701.681	J	[kgcm ²]	4.116
805.901	J	[kgcm ²]	2.620
908.058	J	[kgcm ²]	2.617
978.071	J	[kgcm ²]	1.912
1102.052	J	[kgcm ²]	1.909
1236.326	J	[kgcm ²]	1.259
1393.043	J	[kgcm ²]	1.258

- The moments of inertia relate to the drive shaft of the gearbox.
- The total moment of inertia is calculated by adding the values of gearbox, motor and accessories.

GKS helical-bevel gearbox

Technical data



Weights

GKS□□-3M HAR / HBR

			063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
GKS04	m	[kg]	16	18	23					
GKS05	m	[kg]	26	28	33	41				
GKS06	m	[kg]	40	42	47	55	64			
GKS07	m	[kg]			73	81	89	102	132	
GKS09	m	[kg]				129	138	150		181
GKS11	m	[kg]					237	249		279
GKS14	m	[kg]						420		447

GKS□□-3M HAK

			063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
GKS04	m	[kg]	19	21	26					
GKS05	m	[kg]	30	32	37	45				
GKS06	m	[kg]	47	49	54	62	71			
GKS07	m	[kg]			84	92	100	113	143	
GKS09	m	[kg]				145	154	166		197
GKS11	m	[kg]					261	273		303
GKS14	m	[kg]						453		480

- Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).

GKS helical-bevel gearbox

Technical data



Weights

GKS□□-3M VAR / VBR

			063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
GKS04	m	[kg]	17	19	24					
GKS05	m	[kg]	27	29	34	42				
GKS06	m	[kg]	43	45	49	58	66			
GKS07	m	[kg]			78	86	94	107	137	
GKS09	m	[kg]				137	146	158		189
GKS11	m	[kg]					253	265		295
GKS14	m	[kg]						453		480

GKS□□-3M VAK

			063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
GKS04	m	[kg]	19	21	26					
GKS05	m	[kg]	31	33	38	46				
GKS06	m	[kg]	50	52	56	65	73			
GKS07	m	[kg]			89	97	105	118	148	
GKS09	m	[kg]				153	162	174		205
GKS11	m	[kg]					277	289		319
GKS14	m	[kg]						486		513

- Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).

GKS helical-bevel gearbox

Technical data



Weights

GKS□□-3M SAR / SBR

			063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
GKS04	m	[kg]	17	19	24					
GKS05	m	[kg]	27	29	34	42				
GKS06	m	[kg]	41	43	48	56	65			
GKS07	m	[kg]			74	82	91	104	133	
GKS09	m	[kg]				132	141	153		184
GKS11	m	[kg]					242	254		284
GKS14	m	[kg]						431		458

GKS□□-3M SAK

			063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
GKS04	m	[kg]	19	21	26					
GKS05	m	[kg]	31	33	38	46				
GKS06	m	[kg]	48	50	55	63	72			
GKS07	m	[kg]			85	93	102	115	144	
GKS09	m	[kg]				148	157	169		200
GKS11	m	[kg]					266	278		308
GKS14	m	[kg]						464		491

- Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).

GKS helical-bevel gearbox

Technical data



Weights

GKS□□-4M HAR / HBR

			063C32 063C42	071C32 071C42	080C32	080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
GKS05	m	[kg]	27								
GKS06	m	[kg]	44	46	51						
GKS07	m	[kg]	74	76		81	89				
GKS09	m	[kg]	127	129		134	142	151	164		
GKS11	m	[kg]				242	250	258	271	301	
GKS14	m	[kg]					435	444	456		487

GKS□□-4M HAK

			063C32 063C42	071C32 071C42	080C32	080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
GKS05	m	[kg]	31								
GKS06	m	[kg]	51	53	58						
GKS07	m	[kg]	85	87		92	100				
GKS09	m	[kg]	143	145		150	158	167	180		
GKS11	m	[kg]				266	274	282	295	325	
GKS14	m	[kg]					468	477	489		520

- Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).

GKS helical-bevel gearbox

Technical data



Weights

GKS□□-4M VAR / VBR

			063C32 063C42	071C32 071C42	080C32	080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
GKS05	m	[kg]	28								
GKS06	m	[kg]	46	48	53						
GKS07	m	[kg]	79	81		86	94				
GKS09	m	[kg]	135	137		142	150	159	172		
GKS11	m	[kg]				258	266	274	287	317	
GKS14	m	[kg]					468	477	489		520

GKS□□-4M VAK

			063C32 063C42	071C32 071C42	080C32	080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
GKS05	m	[kg]	32								
GKS06	m	[kg]	53	55	60						
GKS07	m	[kg]	90	92		97	105				
GKS09	m	[kg]	151	153		158	166	175	188		
GKS11	m	[kg]				282	290	298	311	341	
GKS14	m	[kg]					501	510	522		553

- Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).

GKS helical-bevel gearbox

Technical data



Weights

GKS□□-4M SAR / SBR

			063C32 063C42	071C32 071C42	080C32	080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
GKS05	m	[kg]	28								
GKS06	m	[kg]	45	47	52						
GKS07	m	[kg]	75	78		82	90				
GKS09	m	[kg]	130	132		137	145	154	167		
GKS11	m	[kg]				247	255	263	276	306	
GKS14	m	[kg]					446	455	467		498

GKS□□-4M SAK

			063C32 063C42	071C32 071C42	080C32	080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
GKS05	m	[kg]	32								
GKS06	m	[kg]	52	54	59						
GKS07	m	[kg]	86	89		93	101				
GKS09	m	[kg]	146	148		153	161	170	183		
GKS11	m	[kg]				271	279	287	300	330	
GKS14	m	[kg]					479	488	500		531

- Weights with oil filling for mounting position A; all values are approximate.
The weights relate to the basic version. Bear in mind that additional weights may be needed (e.g. for motor options).

GKS helical-bevel gearbox

Technical data

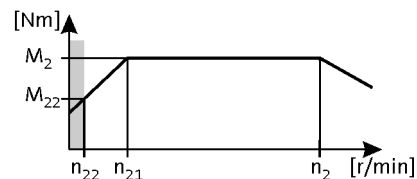


Selection tables

► 120 Hz: $P_N = 0.55 \text{ kW}$

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 143.3 \dots 3440 \text{ r/min}$



n_{22}	n_{21}		n_2	M_{22}	M_2	c	i			
[r/min]	[r/min]		[r/min]	[Nm]	[Nm]					
16	67	-	383	9.9	13	4.5	8.991	GKS04-3M□□□063C32	E84AV□□□5514□□0	66
15	61	-	350	11	14	4.5	9.836	GKS04-3M□□□063C32	E84AV□□□5514□□0	66
11	46	-	261	15	19	3.9	13.176	GKS05-3M□□□063C32	E84AV□□□5514□□0	66
10	42	-	240	16	21	4.5	14.333	GKS04-3M□□□063C32	E84AV□□□5514□□0	66
7.0	29	-	167	23	30	4.5	20.588	GKS04-3M□□□063C32	E84AV□□□5514□□0	66
6.4	27	-	153	25	33	4.2	22.522	GKS04-3M□□□063C32	E84AV□□□5514□□0	66
5.7	24	-	137	28	36	3.5	25.088	GKS04-3M□□□063C32	E84AV□□□5514□□0	66
5.0	21	-	120	32	42	3.3	28.727	GKS04-3M□□□063C32	E84AV□□□5514□□0	66
4.5	19	-	108	35	46	2.7	32.000	GKS04-3M□□□063C32	E84AV□□□5514□□0	66
4.1	17	-	98	39	51	2.7	35.191	GKS04-3M□□□063C32	E84AV□□□5514□□0	66
3.7	15	-	88	43	57	2.2	39.200	GKS04-3M□□□063C32	E84AV□□□5514□□0	66
3.2	14	-	78	49	64	2.5	44.240	GKS04-3M□□□063C32	E84AV□□□5514□□0	66
2.8	12	-	68	56	74	2.1	50.943	GKS04-3M□□□063C32	E84AV□□□5514□□0	66
2.5	11	-	60	63	83	2.0	56.976	GKS04-3M□□□063C32	E84AV□□□5514□□0	66
2.2	9.2	-	53	71	94	1.7	64.978	GKS04-3M□□□063C32	E84AV□□□5514□□0	66
2.2	9.0	-	52	73	97	3.0	66.592	GKS05-3M□□□063C32	E84AV□□□5514□□0	66
2.0	8.3	-	48	79	105	1.6	72.210	GKS04-3M□□□063C32	E84AV□□□5514□□0	66
1.9	8.0	-	46	82	109	2.5	75.033	GKS05-3M□□□063C32	E84AV□□□5514□□0	66
1.8	7.5	-	43	87	115	1.4	79.598	GKS04-3M□□□063C32	E84AV□□□5514□□0	66
1.7	7.2	-	42	91	120	2.4	82.833	GKS05-3M□□□063C32	E84AV□□□5514□□0	66
1.6	6.6	-	38	99	131	1.2	90.491	GKS04-3M□□□063C32	E84AV□□□5514□□0	66
1.5	6.4	-	37	102	135	2.0	93.333	GKS05-3M□□□063C32	E84AV□□□5514□□0	66
1.5	6.3	-	36	103	136	1.1	95.238	GKS05-4M□□□063C32	E84AV□□□5514□□0	74
1.4	6.0	-	34	110	145	1.1	100.067	GKS04-3M□□□063C32	E84AV□□□5514□□0	66
1.3	5.6	-	32	118	156	1.8	107.196	GKS05-3M□□□063C32	E84AV□□□5514□□0	66
1.3	5.4	-	31	122	162	1.0	111.467	GKS04-3M□□□063C32	E84AV□□□5514□□0	66
1.3	5.2	-	30	124	164	1.5	114.987	GKS05-4M□□□063C32	E84AV□□□5514□□0	74
1.3	5.3	-	30	122	161	3.2	113.205	GKS06-4M□□□063C32	E84AV□□□5514□□0	74
1.2	5.0	-	29	133	175	1.7	120.784	GKS05-3M□□□063C32	E84AV□□□5514□□0	66
1.1	4.7	-	27	142	187	1.0	128.874	GKS04-3M□□□063C32	E84AV□□□5514□□0	66
1.1	4.7	-	27	137	181	1.5	126.933	GKS05-4M□□□063C32	E84AV□□□5514□□0	74
1.1	4.6	-	26	143	189	1.7	130.097	GKS05-3M□□□063C32	E84AV□□□5514□□0	66
1.0	4.1	-	24	158	209	1.2	146.667	GKS05-4M□□□063C32	E84AV□□□5514□□0	74
1.0	4.1	-	24	161	213	1.4	146.588	GKS05-3M□□□063C32	E84AV□□□5514□□0	66
1.0	4.3	-	24	152	201	2.6	140.816	GKS06-4M□□□063C32	E84AV□□□5514□□0	74
1.0	4.2	-	24	157	207	2.8	142.941	GKS06-3M□□□063C32	E84AV□□□5514□□0	66
0.9	3.9	-	22	168	222	3.0	155.647	GKS06-4M□□□063C32	E84AV□□□5514□□0	74
0.9	3.7	-	21	175	231	1.2	161.905	GKS05-4M□□□063C32	E84AV□□□5514□□0	74
0.9	3.6	-	21	183	241	1.3	166.276	GKS05-3M□□□063C32	E84AV□□□5514□□0	66
0.9	3.7	-	21	177	234	2.6	161.029	GKS06-3M□□□063C32	E84AV□□□5514□□0	66
0.8	3.4	-	20	188	249	2.1	174.336	GKS06-4M□□□063C32	E84AV□□□5514□□0	74

GKS helical-bevel gearbox

Technical data

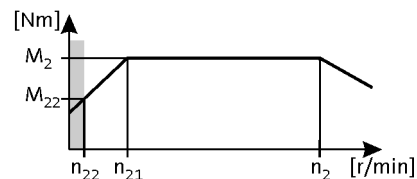


Selection tables

► 120 Hz: $P_N = 0.55$ kW

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 143.3 \dots 3440$ r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.8	3.2	-	19	200	265	1.2	185.547	GKS05-4M□□□063C32	E84AV□□□5514□□0	74
0.8	3.2	-	18	206	272	1.1	187.353	GKS05-3M□□□063C32	E84AV□□□5514□□0	66
0.8	3.2	-	18	209	276	2.4	190.080	GKS06-3M□□□063C32	E84AV□□□5514□□0	66
0.7	2.9	-	17	226	298	1.0	209.067	GKS05-4M□□□063C32	E84AV□□□5514□□0	74
0.7	3.0	-	17	219	289	2.3	202.588	GKS06-4M□□□063C32	E84AV□□□5514□□0	74
0.7	2.8	-	16	232	306	1.0	211.200	GKS05-3M□□□063C32	E84AV□□□5514□□0	66
0.7	2.8	-	16	235	311	2.0	214.133	GKS06-3M□□□063C32	E84AV□□□5514□□0	66
0.6	2.5	-	15	255	337	0.9	236.667	GKS05-4M□□□063C32	E84AV□□□5514□□0	74
0.6	2.7	-	15	242	320	1.6	224.524	GKS06-4M□□□063C32	E84AV□□□5514□□0	74
0.6	2.6	-	15	253	335	2.0	230.688	GKS06-3M□□□063C32	E84AV□□□5514□□0	66
0.6	2.7	-	15	241	318	3.2	222.909	GKS07-4M□□□063C32	E84AV□□□5514□□0	74
0.6	2.4	-	14	272	359	1.9	252.000	GKS06-4M□□□063C32	E84AV□□□5514□□0	74
0.6	2.3	-	13	285	377	1.6	259.880	GKS06-3M□□□063C32	E84AV□□□5514□□0	66
0.5	2.2	-	13	295	390	2.6	273.199	GKS07-4M□□□063C32	E84AV□□□5514□□0	74
0.5	2.2	-	12	301	398	1.3	279.286	GKS06-4M□□□063C32	E84AV□□□5514□□0	74
0.5	2.1	-	12	320	423	1.6	291.600	GKS06-3M□□□063C32	E84AV□□□5514□□0	66
0.4	1.8	-	11	361	476	1.3	328.500	GKS06-3M□□□063C32	E84AV□□□5514□□0	66
0.5	1.9	-	11	342	452	1.5	316.800	GKS06-4M□□□063C32	E84AV□□□5514□□0	74
0.5	1.9	-	11	346	458	2.8	321.049	GKS07-4M□□□063C32	E84AV□□□5514□□0	74
0.4	1.7	-	9.6	387	512	2.0	358.829	GKS07-4M□□□063C32	E84AV□□□5514□□0	74
0.4	1.7	-	9.5	390	515	1.0	361.429	GKS06-4M□□□063C32	E84AV□□□5514□□0	74
0.4	1.5	-	8.6	431	569	2.2	399.353	GKS07-4M□□□063C32	E84AV□□□5514□□0	74
0.4	1.5	-	8.4	440	582	1.2	408.000	GKS06-4M□□□063C32	E84AV□□□5514□□0	74
0.3	1.3	-	7.4	501	662	1.5	464.367	GKS07-4M□□□063C32	E84AV□□□5514□□0	74
0.3	1.2	-	6.7	558	737	0.9	517.091	GKS06-4M□□□063C32	E84AV□□□5514□□0	74
0.3	1.2	-	6.7	558	737	1.7	516.810	GKS07-4M□□□063C32	E84AV□□□5514□□0	74
0.3	1.1	-	6.1	608	803	1.3	563.572	GKS07-4M□□□063C32	E84AV□□□5514□□0	74
0.2	0.9	-	5.4	687	908	1.4	636.581	GKS07-4M□□□063C32	E84AV□□□5514□□0	74
0.2	0.9	-	5.0	738	975	1.0	683.972	GKS07-4M□□□063C32	E84AV□□□5514□□0	74
0.2	0.7	-	4.2	889	1174	1.1	823.810	GKS07-4M□□□063C32	E84AV□□□5514□□0	74
0.2	0.7	-	4.2	882	1166	2.5	817.551	GKS09-4M□□□063C32	E84AV□□□5514□□0	74
0.2	0.7	-	3.7	994	1314	2.2	921.367	GKS09-4M□□□063C32	E84AV□□□5514□□0	74
0.1	0.6	-	3.5	1071	1415	2.0	992.209	GKS09-4M□□□063C32	E84AV□□□5514□□0	74
0.1	0.5	-	3.1	1207	1594	1.8	1118.204	GKS09-4M□□□063C32	E84AV□□□5514□□0	74
0.1	0.5	-	2.7	1353	1788	1.6	1254.197	GKS09-4M□□□063C32	E84AV□□□5514□□0	74
0.1	0.4	-	2.4	1525	2015	1.5	1413.461	GKS09-4M□□□063C32	E84AV□□□5514□□0	74

GKS helical-bevel gearbox

Technical data

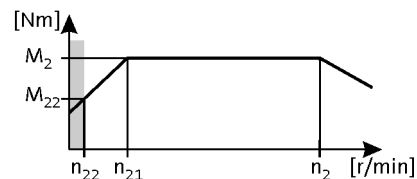


Selection tables

► 120 Hz: $P_N = 0.75 \text{ kW}$

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 141.7 \dots 3400 \text{ r/min}$



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
16	67	-	378	14	18	3.3	8.991	GKS04-3M000063C42	E84AV0007514000	66
14	61	-	346	15	20	3.3	9.836	GKS04-3M000063C42	E84AV0007514000	66
11	46	-	258	20	26	2.9	13.176	GKS05-3M000063C42	E84AV0007514000	66
9.9	42	-	237	22	29	3.3	14.333	GKS04-3M000063C42	E84AV0007514000	66
6.9	29	-	165	31	41	3.3	20.588	GKS04-3M000063C42	E84AV0007514000	66
6.3	27	-	151	34	45	3.1	22.522	GKS04-3M000063C42	E84AV0007514000	66
5.7	24	-	136	38	50	2.5	25.088	GKS04-3M000063C42	E84AV0007514000	66
4.9	21	-	118	43	58	2.4	28.727	GKS04-3M000063C42	E84AV0007514000	66
4.4	19	-	106	48	64	2.0	32.000	GKS04-3M000063C42	E84AV0007514000	66
4.3	18	-	104	49	66	2.9	32.744	GKS05-3M000063C42	E84AV0007514000	66
4.0	17	-	97	53	70	2.0	35.191	GKS04-3M000063C42	E84AV0007514000	66
3.8	16	-	92	55	74	2.9	36.894	GKS05-3M000063C42	E84AV0007514000	66
3.6	15	-	87	59	78	1.6	39.200	GKS04-3M000063C42	E84AV0007514000	66
3.4	14	-	81	63	84	3.0	41.765	GKS05-3M000063C42	E84AV0007514000	66
3.2	14	-	77	66	89	1.8	44.240	GKS04-3M000063C42	E84AV0007514000	66
3.0	13	-	72	70	94	2.8	47.059	GKS05-3M000063C42	E84AV0007514000	66
2.8	12	-	67	76	102	1.5	50.943	GKS04-3M000063C42	E84AV0007514000	66
2.5	11	-	60	85	114	1.4	56.976	GKS04-3M000063C42	E84AV0007514000	66
2.2	9.2	-	52	97	130	1.2	64.978	GKS04-3M000063C42	E84AV0007514000	66
2.1	9.0	-	51	100	133	2.1	66.592	GKS05-3M000063C42	E84AV0007514000	66
2.0	8.3	-	47	108	145	1.1	72.210	GKS04-3M000063C42	E84AV0007514000	66
1.9	8.0	-	45	112	150	1.8	75.033	GKS05-3M000063C42	E84AV0007514000	66
1.8	7.5	-	43	119	159	1.0	79.598	GKS04-3M000063C42	E84AV0007514000	66
1.7	7.2	-	41	124	166	1.7	82.833	GKS05-3M000063C42	E84AV0007514000	66
1.5	6.4	-	37	140	186	2.6	93.176	GKS06-3M000063C42	E84AV0007514000	66
1.5	6.4	-	36	140	187	1.5	93.333	GKS05-3M000063C42	E84AV0007514000	66
1.4	5.8	-	33	153	204	2.9	103.721	GKS06-4M000063C42	E84AV0007514000	74
1.3	5.6	-	32	160	215	1.3	107.196	GKS05-3M000063C42	E84AV0007514000	66
1.4	5.7	-	32	157	210	2.6	104.967	GKS06-3M000063C42	E84AV0007514000	66
1.2	5.2	-	30	169	226	1.1	114.987	GKS05-4M000063C42	E84AV0007514000	74
1.3	5.3	-	30	167	223	2.3	113.205	GKS06-4M000063C42	E84AV0007514000	74
1.3	5.3	-	30	169	226	2.5	113.082	GKS06-3M000063C42	E84AV0007514000	66
1.2	5.0	-	28	181	242	1.3	120.784	GKS05-3M000063C42	E84AV0007514000	66
1.1	4.7	-	27	187	250	1.1	126.933	GKS05-4M000063C42	E84AV0007514000	74
1.1	4.7	-	27	191	255	2.4	127.392	GKS06-3M000063C42	E84AV0007514000	66
1.1	4.7	-	27	187	250	2.6	127.059	GKS06-4M000063C42	E84AV0007514000	74
1.1	4.6	-	26	195	260	1.2	130.097	GKS05-3M000063C42	E84AV0007514000	66
1.0	4.3	-	24	207	277	1.9	140.816	GKS06-4M000063C42	E84AV0007514000	74
1.0	4.2	-	24	214	286	2.0	142.941	GKS06-3M000063C42	E84AV0007514000	66
1.0	4.1	-	23	219	293	1.0	146.588	GKS05-3M000063C42	E84AV0007514000	66
0.9	3.9	-	22	229	306	2.2	155.647	GKS06-4M000063C42	E84AV0007514000	74

GKS helical-bevel gearbox

Technical data

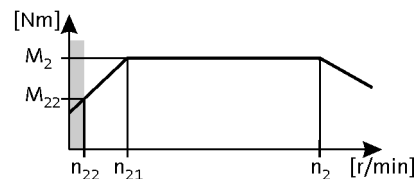


Selection tables

► 120 Hz: $P_N = 0.75$ kW

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 141.7 \dots 3400$ r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.9	3.7	-	21	241	322	1.9	161.029	GKS06-3M□□□063C42	E84AV□□□7514□□0	66
0.9	3.6	-	20	249	333	1.0	166.276	GKS05-3M□□□063C42	E84AV□□□7514□□0	66
0.8	3.4	-	20	257	343	1.5	174.336	GKS06-4M□□□063C42	E84AV□□□7514□□0	74
0.8	3.4	-	19	264	353	2.9	179.201	GKS07-4M□□□063C42	E84AV□□□7514□□0	74
0.8	3.2	-	18	285	380	1.8	190.080	GKS06-3M□□□063C42	E84AV□□□7514□□0	66
0.7	3.0	-	17	298	399	1.7	202.588	GKS06-4M□□□063C42	E84AV□□□7514□□0	74
0.7	2.8	-	16	321	428	1.4	214.133	GKS06-3M□□□063C42	E84AV□□□7514□□0	66
0.6	2.7	-	15	330	442	1.2	224.524	GKS06-4M□□□063C42	E84AV□□□7514□□0	74
0.6	2.6	-	15	345	462	1.5	230.688	GKS06-3M□□□063C42	E84AV□□□7514□□0	66
0.6	2.7	-	15	328	438	2.3	222.909	GKS07-4M□□□063C42	E84AV□□□7514□□0	74
0.6	2.4	-	14	371	496	1.4	252.000	GKS06-4M□□□063C42	E84AV□□□7514□□0	74
0.6	2.3	-	13	389	520	1.2	259.880	GKS06-3M□□□063C42	E84AV□□□7514□□0	66
0.5	2.2	-	12	411	549	0.9	279.286	GKS06-4M□□□063C42	E84AV□□□7514□□0	74
0.5	2.1	-	12	437	583	1.2	291.600	GKS06-3M□□□063C42	E84AV□□□7514□□0	66
0.5	2.2	-	12	402	537	1.9	273.199	GKS07-4M□□□063C42	E84AV□□□7514□□0	74
0.5	1.9	-	11	466	623	1.1	316.800	GKS06-4M□□□063C42	E84AV□□□7514□□0	74
0.4	1.9	-	11	472	631	2.0	321.049	GKS07-4M□□□063C42	E84AV□□□7514□□0	74
0.4	1.8	-	10	492	657	0.9	328.500	GKS06-3M□□□063C42	E84AV□□□7514□□0	66
0.4	1.7	-	9.5	528	706	1.4	358.829	GKS07-4M□□□063C42	E84AV□□□7514□□0	74
0.4	1.5	-	8.5	588	786	1.6	399.353	GKS07-4M□□□063C42	E84AV□□□7514□□0	74
0.3	1.3	-	7.3	683	913	1.1	464.367	GKS07-4M□□□063C42	E84AV□□□7514□□0	74
0.3	1.2	-	6.6	760	1017	1.2	516.810	GKS07-4M□□□063C42	E84AV□□□7514□□0	74
0.3	1.1	-	6.0	829	1109	0.9	563.572	GKS07-4M□□□063C42	E84AV□□□7514□□0	74
0.2	0.9	-	5.3	937	1252	1.0	636.581	GKS07-4M□□□063C42	E84AV□□□7514□□0	74
0.2	0.7	-	4.2	1203	1608	1.8	817.551	GKS09-4M□□□063C42	E84AV□□□7514□□0	74
0.2	0.7	-	3.7	1356	1812	1.6	921.367	GKS09-4M□□□063C42	E84AV□□□7514□□0	74
0.1	0.6	-	3.4	1460	1952	1.5	992.209	GKS09-4M□□□063C42	E84AV□□□7514□□0	74
0.1	0.5	-	3.0	1645	2199	1.3	1118.204	GKS09-4M□□□063C42	E84AV□□□7514□□0	74
0.1	0.5	-	2.7	1845	2467	1.2	1254.197	GKS09-4M□□□063C42	E84AV□□□7514□□0	74
0.1	0.4	-	2.4	2080	2780	1.1	1413.461	GKS09-4M□□□063C42	E84AV□□□7514□□0	74

GKS helical-bevel gearbox

Technical data

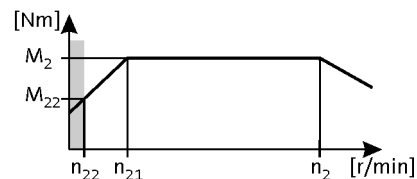


Selection tables

► 120 Hz: $P_N = 1.10 \text{ kW}$

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 145.4 \dots 3490 \text{ r/min}$



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
16	67	-	388	20	26	3.0	8.991	GKS04-3M□□□071C32	E84AV□□□1124□□0	66
15	61	-	355	22	28	2.9	9.836	GKS04-3M□□□071C32	E84AV□□□1124□□0	66
11	46	-	265	29	38	3.3	13.176	GKS05-3M□□□071C32	E84AV□□□1124□□0	66
10	42	-	244	32	41	3.0	14.333	GKS04-3M□□□071C32	E84AV□□□1124□□0	66
7.1	29	-	170	45	59	2.3	20.588	GKS04-3M□□□071C32	E84AV□□□1124□□0	66
6.5	27	-	155	49	64	2.1	22.522	GKS04-3M□□□071C32	E84AV□□□1124□□0	66
5.8	24	-	139	55	72	1.8	25.088	GKS04-3M□□□071C32	E84AV□□□1124□□0	66
5.1	21	-	122	63	82	1.7	28.727	GKS04-3M□□□071C32	E84AV□□□1124□□0	66
4.9	20	-	117	66	86	2.9	29.931	GKS05-3M□□□071C32	E84AV□□□1124□□0	66
4.5	19	-	109	70	92	1.4	32.000	GKS04-3M□□□071C32	E84AV□□□1124□□0	66
4.4	18	-	107	72	94	2.7	32.744	GKS05-3M□□□071C32	E84AV□□□1124□□0	66
4.1	17	-	99	77	101	1.4	35.191	GKS04-3M□□□071C32	E84AV□□□1124□□0	66
3.9	16	-	95	81	106	2.2	36.894	GKS05-3M□□□071C32	E84AV□□□1124□□0	66
3.7	15	-	89	86	112	1.1	39.200	GKS04-3M□□□071C32	E84AV□□□1124□□0	66
3.5	14	-	84	92	119	2.1	41.765	GKS05-3M□□□071C32	E84AV□□□1124□□0	66
3.3	14	-	79	97	127	1.3	44.240	GKS04-3M□□□071C32	E84AV□□□1124□□0	66
3.1	13	-	74	103	135	1.9	47.059	GKS05-3M□□□071C32	E84AV□□□1124□□0	66
2.9	12	-	69	112	146	1.1	50.943	GKS04-3M□□□071C32	E84AV□□□1124□□0	66
2.8	12	-	68	112	146	1.9	51.162	GKS05-3M□□□071C32	E84AV□□□1124□□0	66
2.6	11	-	61	125	163	1.0	56.976	GKS04-3M□□□071C32	E84AV□□□1124□□0	66
2.5	10	-	61	127	165	1.6	57.647	GKS05-3M□□□071C32	E84AV□□□1124□□0	66
2.2	9.2	-	54	143	186	2.9	65.207	GKS06-3M□□□071C32	E84AV□□□1124□□0	66
2.2	9.0	-	52	146	190	1.5	66.592	GKS05-3M□□□071C32	E84AV□□□1124□□0	66
2.0	8.3	-	49	158	206	2.9	72.000	GKS06-3M□□□071C32	E84AV□□□1124□□0	66
1.9	8.0	-	47	165	215	1.2	75.033	GKS05-3M□□□071C32	E84AV□□□1124□□0	66
1.8	7.4	-	43	178	232	2.3	81.111	GKS06-3M□□□071C32	E84AV□□□1124□□0	66
1.8	7.2	-	42	182	237	1.2	82.833	GKS05-3M□□□071C32	E84AV□□□1124□□0	66
1.6	6.4	-	38	205	266	2.3	93.176	GKS06-3M□□□071C32	E84AV□□□1124□□0	66
1.6	6.4	-	37	205	267	1.0	93.333	GKS05-3M□□□071C32	E84AV□□□1124□□0	66
1.4	5.8	-	34	224	292	2.0	103.721	GKS06-4M□□□071C32	E84AV□□□1124□□0	74
1.4	5.6	-	33	235	307	0.9	107.196	GKS05-3M□□□071C32	E84AV□□□1124□□0	66
1.4	5.7	-	33	230	300	1.8	104.967	GKS06-3M□□□071C32	E84AV□□□1124□□0	66
1.3	5.3	-	31	244	318	1.6	113.205	GKS06-4M□□□071C32	E84AV□□□1124□□0	74
1.3	5.3	-	31	248	323	2.1	113.082	GKS06-3M□□□071C32	E84AV□□□1124□□0	66
1.3	5.3	-	31	243	316	3.2	112.391	GKS07-4M□□□071C32	E84AV□□□1124□□0	74
1.1	4.7	-	28	274	357	1.8	127.059	GKS06-4M□□□071C32	E84AV□□□1124□□0	74
1.1	4.7	-	27	280	364	1.7	127.392	GKS06-3M□□□071C32	E84AV□□□1124□□0	66
1.0	4.3	-	25	304	396	1.3	140.816	GKS06-4M□□□071C32	E84AV□□□1124□□0	74
1.1	4.4	-	25	297	387	2.6	137.748	GKS07-4M□□□071C32	E84AV□□□1124□□0	74
1.0	4.2	-	24	314	409	1.6	142.941	GKS06-3M□□□071C32	E84AV□□□1124□□0	66
0.9	3.9	-	23	334	435	2.8	154.622	GKS07-4M□□□071C32	E84AV□□□1124□□0	74

GKS helical-bevel gearbox

Technical data

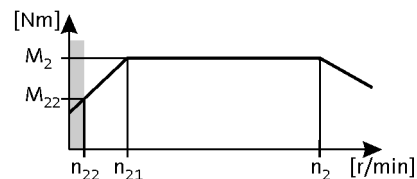


Selection tables

► 120 Hz: $P_N = 1.10$ kW

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 145.4 \dots 3490$ r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.9	3.7	-	22	354	460	1.3	161.029	GKS06-3M□□□071C32	E84AV□□□1124□□0	66
0.9	3.9	-	22	336	437	1.5	155.647	GKS06-4M□□□071C32	E84AV□□□1124□□0	74
0.8	3.4	-	20	376	490	1.0	174.336	GKS06-4M□□□071C32	E84AV□□□1124□□0	74
0.8	3.4	-	20	387	504	2.0	179.201	GKS07-4M□□□071C32	E84AV□□□1124□□0	74
0.8	3.2	-	18	417	543	1.2	190.080	GKS06-3M□□□071C32	E84AV□□□1124□□0	66
0.7	3.0	-	17	437	569	1.2	202.588	GKS06-4M□□□071C32	E84AV□□□1124□□0	74
0.7	3.0	-	17	434	566	2.2	201.254	GKS07-4M□□□071C32	E84AV□□□1124□□0	74
0.7	2.8	-	16	470	612	1.0	214.133	GKS06-3M□□□071C32	E84AV□□□1124□□0	66
0.7	2.7	-	16	481	626	1.6	222.909	GKS07-4M□□□071C32	E84AV□□□1124□□0	74
0.6	2.6	-	15	506	660	1.0	230.688	GKS06-3M□□□071C32	E84AV□□□1124□□0	66
0.6	2.4	-	14	544	708	0.9	252.000	GKS06-4M□□□071C32	E84AV□□□1124□□0	74
0.6	2.4	-	14	532	693	1.8	246.659	GKS07-4M□□□071C32	E84AV□□□1124□□0	74
0.5	2.2	-	13	590	768	1.3	273.199	GKS07-4M□□□071C32	E84AV□□□1124□□0	74
0.5	1.9	-	11	693	902	1.4	321.049	GKS07-4M□□□071C32	E84AV□□□1124□□0	74
0.5	1.9	-	11	698	909	3.2	323.365	GKS09-4M□□□071C32	E84AV□□□1124□□0	74
0.4	1.7	-	9.7	774	1008	1.0	358.829	GKS07-4M□□□071C32	E84AV□□□1124□□0	74
0.4	1.7	-	9.6	786	1024	2.9	364.427	GKS09-4M□□□071C32	E84AV□□□1124□□0	74
0.4	1.5	-	8.7	862	1122	1.1	399.353	GKS07-4M□□□071C32	E84AV□□□1124□□0	74
0.4	1.5	-	8.7	868	1130	2.5	402.234	GKS09-4M□□□071C32	E84AV□□□1124□□0	74
0.3	1.3	-	7.7	978	1274	2.3	453.311	GKS09-4M□□□071C32	E84AV□□□1124□□0	74
0.3	1.2	-	6.7	1123	1463	2.0	520.538	GKS09-4M□□□071C32	E84AV□□□1124□□0	74
0.3	1.0	-	6.0	1266	1649	1.8	586.638	GKS09-4M□□□071C32	E84AV□□□1124□□0	74
0.2	1.0	-	5.5	1363	1775	1.6	631.744	GKS09-4M□□□071C32	E84AV□□□1124□□0	74
0.2	0.8	-	4.9	1536	2001	1.5	711.965	GKS09-4M□□□071C32	E84AV□□□1124□□0	74
0.2	0.7	-	4.3	1764	2298	1.3	817.551	GKS09-4M□□□071C32	E84AV□□□1124□□0	74
0.2	0.7	-	3.8	1988	2589	1.1	921.367	GKS09-4M□□□071C32	E84AV□□□1124□□0	74
0.2	0.6	-	3.5	2141	2788	1.0	992.209	GKS09-4M□□□071C32	E84AV□□□1124□□0	74
0.1	0.5	-	3.1	2413	3143	0.9	1118.204	GKS09-4M□□□071C32	E84AV□□□1124□□0	74

GKS helical-bevel gearbox

Technical data

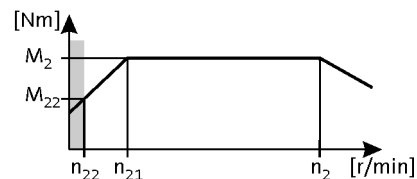


Selection tables

► 120 Hz: $P_N = 1.50 \text{ kW}$

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 143.8 \dots 3450 \text{ r/min}$



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
16	67	-	384	27	36	2.2	8.991	GKS04-3M□□□071C42	E84AV□□□1524□□0	66
15	61	-	351	29	39	2.1	9.836	GKS04-3M□□□071C42	E84AV□□□1524□□0	66
11	46	-	262	39	52	2.4	13.176	GKS05-3M□□□071C42	E84AV□□□1524□□0	66
10	42	-	241	43	57	2.2	14.333	GKS04-3M□□□071C42	E84AV□□□1524□□0	66
7.0	29	-	168	62	81	1.7	20.588	GKS04-3M□□□071C42	E84AV□□□1524□□0	66
6.4	27	-	153	67	89	1.6	22.522	GKS04-3M□□□071C42	E84AV□□□1524□□0	66
5.7	24	-	138	75	99	1.3	25.088	GKS04-3M□□□071C42	E84AV□□□1524□□0	66
5.0	21	-	120	86	113	1.2	28.727	GKS04-3M□□□071C42	E84AV□□□1524□□0	66
4.8	20	-	115	90	118	2.1	29.931	GKS05-3M□□□071C42	E84AV□□□1524□□0	66
4.5	19	-	108	96	126	1.0	32.000	GKS04-3M□□□071C42	E84AV□□□1524□□0	66
4.4	18	-	105	98	129	1.9	32.744	GKS05-3M□□□071C42	E84AV□□□1524□□0	66
4.1	17	-	98	105	139	1.0	35.191	GKS04-3M□□□071C42	E84AV□□□1524□□0	66
4.0	17	-	95	109	143	3.1	36.303	GKS06-3M□□□071C42	E84AV□□□1524□□0	66
3.9	16	-	94	110	146	1.6	36.894	GKS05-3M□□□071C42	E84AV□□□1524□□0	66
3.4	14	-	83	125	165	1.5	41.765	GKS05-3M□□□071C42	E84AV□□□1524□□0	66
3.3	14	-	78	132	175	0.9	44.240	GKS04-3M□□□071C42	E84AV□□□1524□□0	66
3.1	13	-	73	141	186	1.4	47.059	GKS05-3M□□□071C42	E84AV□□□1524□□0	66
2.8	12	-	67	153	202	1.4	51.162	GKS05-3M□□□071C42	E84AV□□□1524□□0	66
2.5	10	-	60	173	227	1.2	57.647	GKS05-3M□□□071C42	E84AV□□□1524□□0	66
2.5	10	-	60	173	228	2.6	57.882	GKS06-3M□□□071C42	E84AV□□□1524□□0	66
2.2	9.2	-	53	195	257	2.1	65.207	GKS06-3M□□□071C42	E84AV□□□1524□□0	66
2.2	9.0	-	52	199	263	1.1	66.592	GKS05-3M□□□071C42	E84AV□□□1524□□0	66
2.0	8.3	-	48	216	284	2.1	72.000	GKS06-3M□□□071C42	E84AV□□□1524□□0	66
1.9	8.0	-	46	225	296	0.9	75.033	GKS05-3M□□□071C42	E84AV□□□1524□□0	66
1.8	7.4	-	43	243	320	1.7	81.111	GKS06-3M□□□071C42	E84AV□□□1524□□0	66
1.5	6.4	-	37	279	368	1.6	93.176	GKS06-3M□□□071C42	E84AV□□□1524□□0	66
1.4	5.8	-	34	303	399	2.8	103.039	GKS07-4M□□□071C42	E84AV□□□1524□□0	74
1.4	5.7	-	33	314	414	1.3	104.967	GKS06-3M□□□071C42	E84AV□□□1524□□0	66
1.4	5.8	-	33	305	402	1.5	103.721	GKS06-4M□□□071C42	E84AV□□□1524□□0	74
1.3	5.3	-	31	333	439	1.2	113.205	GKS06-4M□□□071C42	E84AV□□□1524□□0	74
1.3	5.3	-	31	339	446	1.5	113.082	GKS06-3M□□□071C42	E84AV□□□1524□□0	66
1.3	5.3	-	31	331	436	2.3	112.391	GKS07-4M□□□071C42	E84AV□□□1524□□0	74
1.1	4.7	-	27	381	502	1.2	127.392	GKS06-3M□□□071C42	E84AV□□□1524□□0	66
1.1	4.7	-	27	374	493	1.3	127.059	GKS06-4M□□□071C42	E84AV□□□1524□□0	74
1.1	4.8	-	27	371	489	2.5	126.222	GKS07-4M□□□071C42	E84AV□□□1524□□0	74
1.0	4.3	-	25	414	546	0.9	140.816	GKS06-4M□□□071C42	E84AV□□□1524□□0	74
1.0	4.4	-	25	405	534	1.9	137.748	GKS07-4M□□□071C42	E84AV□□□1524□□0	74
1.0	4.2	-	24	428	564	1.2	142.941	GKS06-3M□□□071C42	E84AV□□□1524□□0	66
0.9	3.9	-	22	458	603	1.1	155.647	GKS06-4M□□□071C42	E84AV□□□1524□□0	74
0.9	3.9	-	22	455	599	2.1	154.622	GKS07-4M□□□071C42	E84AV□□□1524□□0	74
0.9	3.7	-	21	482	635	1.0	161.029	GKS06-3M□□□071C42	E84AV□□□1524□□0	66

GKS helical-bevel gearbox

Technical data

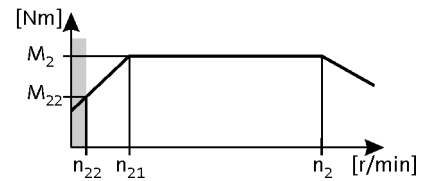


Selection tables

► 120 Hz: $P_N = 1.50$ kW

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 143.8 \dots 3450$ r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.8	3.4	-	19	527	695	1.4	179.201	GKS07-4M□□□071C42	E84AV□□□1524□□0	74
0.7	3.0	-	17	592	780	1.6	201.254	GKS07-4M□□□071C42	E84AV□□□1524□□0	74
0.6	2.7	-	16	656	864	1.2	222.909	GKS07-4M□□□071C42	E84AV□□□1524□□0	74
0.6	2.4	-	14	726	956	1.3	246.659	GKS07-4M□□□071C42	E84AV□□□1524□□0	74
0.5	2.2	-	13	804	1059	0.9	273.199	GKS07-4M□□□071C42	E84AV□□□1524□□0	74
0.5	1.9	-	11	945	1245	1.0	321.049	GKS07-4M□□□071C42	E84AV□□□1524□□0	74
0.4	1.9	-	11	952	1254	2.3	323.365	GKS09-4M□□□071C42	E84AV□□□1524□□0	74
0.4	1.7	-	9.5	1072	1413	2.1	364.427	GKS09-4M□□□071C42	E84AV□□□1524□□0	74
0.4	1.5	-	8.6	1184	1559	1.9	402.234	GKS09-4M□□□071C42	E84AV□□□1524□□0	74
0.3	1.3	-	7.6	1334	1757	1.7	453.311	GKS09-4M□□□071C42	E84AV□□□1524□□0	74
0.3	1.2	-	6.6	1532	2018	1.4	520.538	GKS09-4M□□□071C42	E84AV□□□1524□□0	74
0.3	1.0	-	5.9	1726	2274	1.3	586.638	GKS09-4M□□□071C42	E84AV□□□1524□□0	74
0.2	1.0	-	5.5	1859	2449	1.2	631.744	GKS09-4M□□□071C42	E84AV□□□1524□□0	74
0.2	0.8	-	4.9	2095	2760	1.1	711.965	GKS09-4M□□□071C42	E84AV□□□1524□□0	74
0.2	0.7	-	4.2	2406	3169	0.9	817.551	GKS09-4M□□□071C42	E84AV□□□1524□□0	74

GKS helical-bevel gearbox

Technical data

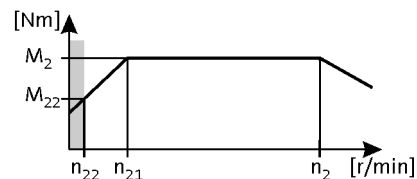


Selection tables

► 120 Hz: $P_N = 2.20$ kW

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 145.8 \dots 3500$ r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
16	67	-	389	38	51	1.5	8.991	GKS04-3M□□□080C32	E84AV□□□2224□□0	66
15	61	-	356	42	56	1.4	9.836	GKS04-3M□□□080C32	E84AV□□□2224□□0	66
13	53	-	308	49	65	3.8	11.382	GKS06-3M□□□080C32	E84AV□□□2224□□0	66
11	46	-	266	56	75	1.7	13.176	GKS05-3M□□□080C32	E84AV□□□2224□□0	66
10	42	-	244	61	82	1.5	14.333	GKS04-3M□□□080C32	E84AV□□□2224□□0	66
8.2	34	-	197	76	102	3.8	17.809	GKS06-3M□□□080C32	E84AV□□□2224□□0	66
7.1	29	-	170	88	117	1.2	20.588	GKS04-3M□□□080C32	E84AV□□□2224□□0	66
6.5	27	-	155	96	128	1.1	22.522	GKS04-3M□□□080C32	E84AV□□□2224□□0	66
5.6	23	-	135	111	148	3.5	26.017	GKS06-3M□□□080C32	E84AV□□□2224□□0	66
5.1	21	-	123	122	162	3.2	28.461	GKS06-3M□□□080C32	E84AV□□□2224□□0	66
4.9	20	-	117	128	171	1.5	29.931	GKS05-3M□□□080C32	E84AV□□□2224□□0	66
4.6	19	-	109	137	183	2.5	32.063	GKS06-3M□□□080C32	E84AV□□□2224□□0	66
4.5	18	-	107	140	187	1.3	32.744	GKS05-3M□□□080C32	E84AV□□□2224□□0	66
4.0	17	-	96	155	207	2.5	36.303	GKS06-3M□□□080C32	E84AV□□□2224□□0	66
4.0	16	-	95	158	210	1.1	36.894	GKS05-3M□□□080C32	E84AV□□□2224□□0	66
3.5	14	-	84	179	238	1.0	41.765	GKS05-3M□□□080C32	E84AV□□□2224□□0	66
3.3	14	-	79	190	254	2.3	44.471	GKS06-3M□□□080C32	E84AV□□□2224□□0	66
3.1	13	-	74	201	268	1.0	47.059	GKS05-3M□□□080C32	E84AV□□□2224□□0	66
2.9	12	-	68	219	292	1.0	51.162	GKS05-3M□□□080C32	E84AV□□□2224□□0	66
2.8	11	-	66	227	303	2.0	53.074	GKS06-3M□□□080C32	E84AV□□□2224□□0	66
2.5	10	-	61	247	330	1.8	57.882	GKS06-3M□□□080C32	E84AV□□□2224□□0	66
2.2	9.2	-	54	279	372	1.4	65.207	GKS06-3M□□□080C32	E84AV□□□2224□□0	66
2.3	9.3	-	54	277	369	2.8	64.790	GKS07-3M□□□080C32	E84AV□□□2224□□0	66
2.1	8.5	-	50	301	402	2.8	70.474	GKS07-3M□□□080C32	E84AV□□□2224□□0	66
2.0	8.3	-	49	308	411	1.5	72.000	GKS06-3M□□□080C32	E84AV□□□2224□□0	66
1.8	7.6	-	44	339	453	2.3	79.407	GKS07-3M□□□080C32	E84AV□□□2224□□0	66
1.8	7.4	-	43	347	463	1.2	81.111	GKS06-3M□□□080C32	E84AV□□□2224□□0	66
1.6	6.4	-	38	398	531	1.1	93.176	GKS06-3M□□□080C32	E84AV□□□2224□□0	66
1.6	6.5	-	38	396	528	2.2	92.563	GKS07-3M□□□080C32	E84AV□□□2224□□0	66
1.4	5.8	-	34	436	581	1.0	103.721	GKS06-4M□□□080C32	E84AV□□□2224□□0	74
1.4	5.8	-	34	446	595	1.8	104.296	GKS07-3M□□□080C32	E84AV□□□2224□□0	66
1.4	5.8	-	34	433	578	1.9	103.039	GKS07-4M□□□080C32	E84AV□□□2224□□0	74
1.4	5.7	-	33	449	599	0.9	104.967	GKS06-3M□□□080C32	E84AV□□□2224□□0	66
1.3	5.3	-	31	483	645	1.0	113.082	GKS06-3M□□□080C32	E84AV□□□2224□□0	66
1.3	5.3	-	31	472	630	1.6	112.391	GKS07-4M□□□080C32	E84AV□□□2224□□0	74
1.3	5.3	-	31	480	641	2.0	112.338	GKS07-3M□□□080C32	E84AV□□□2224□□0	66
1.2	4.7	-	28	534	712	0.9	127.059	GKS06-4M□□□080C32	E84AV□□□2224□□0	74
1.2	4.7	-	28	541	722	1.6	126.578	GKS07-3M□□□080C32	E84AV□□□2224□□0	66
1.2	4.8	-	28	530	708	1.7	126.222	GKS07-4M□□□080C32	E84AV□□□2224□□0	74
1.1	4.4	-	25	579	772	1.3	137.748	GKS07-4M□□□080C32	E84AV□□□2224□□0	74
1.0	4.3	-	25	601	801	1.6	140.548	GKS07-3M□□□080C32	E84AV□□□2224□□0	66

GKS helical-bevel gearbox

Technical data

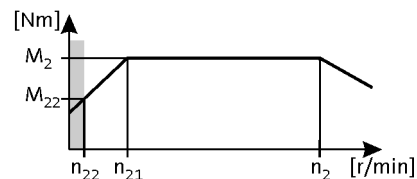


Selection tables

► 120 Hz: $P_N = 2.20$ kW

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 145.8 \dots 3500$ r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.9	3.9	-	23	650	867	1.4	154.622	GKS07-4M□□□080C32	E84AV□□□2224□□0	74
0.9	3.8	-	22	677	903	1.3	158.364	GKS07-3M□□□080C32	E84AV□□□2224□□0	66
0.9	3.5	-	21	715	954	3.0	170.188	GKS09-4M□□□080C32	E84AV□□□2224□□0	74
0.8	3.4	-	20	753	1004	1.0	179.201	GKS07-4M□□□080C32	E84AV□□□2224□□0	74
0.8	3.3	-	19	789	1053	1.2	184.600	GKS07-3M□□□080C32	E84AV□□□2224□□0	66
0.7	2.9	-	17	889	1186	1.0	208.000	GKS07-3M□□□080C32	E84AV□□□2224□□0	66
0.7	3.0	-	17	846	1128	1.1	201.254	GKS07-4M□□□080C32	E84AV□□□2224□□0	74
0.7	2.9	-	17	860	1147	2.5	204.596	GKS09-4M□□□080C32	E84AV□□□2224□□0	74
0.7	2.7	-	16	958	1277	1.0	224.037	GKS07-3M□□□080C32	E84AV□□□2224□□0	66
0.6	2.6	-	15	969	1292	2.2	230.577	GKS09-4M□□□080C32	E84AV□□□2224□□0	74
0.6	2.4	-	14	1036	1383	0.9	246.659	GKS07-4M□□□080C32	E84AV□□□2224□□0	74
0.6	2.4	-	14	1044	1393	2.1	248.439	GKS09-4M□□□080C32	E84AV□□□2224□□0	74
0.5	2.1	-	13	1176	1569	1.9	279.986	GKS09-4M□□□080C32	E84AV□□□2224□□0	74
0.5	1.9	-	11	1359	1812	1.6	323.365	GKS09-4M□□□080C32	E84AV□□□2224□□0	74
0.5	1.9	-	11	1357	1810	3.1	322.931	GKS11-4M□□□080C32	E84AV□□□2224□□0	74
0.4	1.7	-	9.6	1531	2043	1.4	364.427	GKS09-4M□□□080C32	E84AV□□□2224□□0	74
0.4	1.7	-	9.6	1529	2040	2.8	363.866	GKS11-4M□□□080C32	E84AV□□□2224□□0	74
0.4	1.5	-	8.8	1663	2218	2.6	395.787	GKS11-4M□□□080C32	E84AV□□□2224□□0	74
0.4	1.5	-	8.7	1690	2255	1.3	402.234	GKS09-4M□□□080C32	E84AV□□□2224□□0	74
0.3	1.4	-	7.9	1874	2500	2.3	445.958	GKS11-4M□□□080C32	E84AV□□□2224□□0	74
0.3	1.3	-	7.7	1905	2541	1.1	453.311	GKS09-4M□□□080C32	E84AV□□□2224□□0	74
0.3	1.2	-	6.8	2152	2871	2.0	512.196	GKS11-4M□□□080C32	E84AV□□□2224□□0	74
0.3	1.2	-	6.7	2187	2918	1.0	520.538	GKS09-4M□□□080C32	E84AV□□□2224□□0	74
0.3	1.0	-	6.1	2425	3235	1.8	577.122	GKS11-4M□□□080C32	E84AV□□□2224□□0	74
0.2	1.0	-	5.6	2612	3484	1.6	621.619	GKS11-4M□□□080C32	E84AV□□□2224□□0	74
0.2	0.9	-	5.0	2943	3926	1.5	700.416	GKS11-4M□□□080C32	E84AV□□□2224□□0	74
0.2	0.7	-	4.3	3431	4576	1.2	816.455	GKS11-4M□□□080C32	E84AV□□□2224□□0	74
0.2	0.7	-	3.8	3865	5156	1.1	919.949	GKS11-4M□□□080C32	E84AV□□□2224□□0	74
0.2	0.6	-	3.5	4163	5554	1.0	990.879	GKS11-4M□□□080C32	E84AV□□□2224□□0	74
0.1	0.5	-	3.1	4691	6258	0.9	1116.484	GKS11-4M□□□080C32	E84AV□□□2224□□0	74

GKS helical-bevel gearbox

Technical data

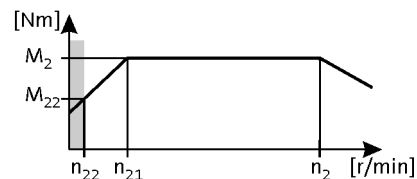


Selection tables

► 120 Hz: $P_N = 3.00 \text{ kW}$

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 145.0 \dots 3480 \text{ r/min}$



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
16	100	-	387	53	70	1.1	8.991	GKS04-3M□□□080C42	E84AV□□□3024□□0	66
15	92	-	354	58	77	1.0	9.836	GKS04-3M□□□080C42	E84AV□□□3024□□0	66
13	79	-	306	67	89	2.8	11.382	GKS06-3M□□□080C42	E84AV□□□3024□□0	66
11	68	-	264	77	103	1.2	13.176	GKS05-3M□□□080C42	E84AV□□□3024□□0	66
10	63	-	243	84	112	1.1	14.333	GKS04-3M□□□080C42	E84AV□□□3024□□0	66
8.1	51	-	195	105	139	2.8	17.809	GKS06-3M□□□080C42	E84AV□□□3024□□0	66
5.6	35	-	134	153	204	2.5	26.017	GKS06-3M□□□080C42	E84AV□□□3024□□0	66
5.1	32	-	122	167	223	2.3	28.461	GKS06-3M□□□080C42	E84AV□□□3024□□0	66
4.8	30	-	116	176	234	1.1	29.931	GKS05-3M□□□080C42	E84AV□□□3024□□0	66
4.5	28	-	109	188	251	1.8	32.063	GKS06-3M□□□080C42	E84AV□□□3024□□0	66
4.4	28	-	106	192	256	1.0	32.744	GKS05-3M□□□080C42	E84AV□□□3024□□0	66
4.0	25	-	97	212	282	3.1	36.063	GKS07-3M□□□080C42	E84AV□□□3024□□0	66
4.0	25	-	96	213	284	1.8	36.303	GKS06-3M□□□080C42	E84AV□□□3024□□0	66
3.3	20	-	78	261	348	1.7	44.471	GKS06-3M□□□080C42	E84AV□□□3024□□0	66
2.7	17	-	66	311	415	1.4	53.074	GKS06-3M□□□080C42	E84AV□□□3024□□0	66
2.5	16	-	61	337	450	2.5	57.501	GKS07-3M□□□080C42	E84AV□□□3024□□0	66
2.5	16	-	60	340	453	1.3	57.882	GKS06-3M□□□080C42	E84AV□□□3024□□0	66
2.2	14	-	54	380	507	2.0	64.790	GKS07-3M□□□080C42	E84AV□□□3024□□0	66
2.2	14	-	53	382	510	1.1	65.207	GKS06-3M□□□080C42	E84AV□□□3024□□0	66
2.1	13	-	49	413	551	2.1	70.474	GKS07-3M□□□080C42	E84AV□□□3024□□0	66
2.0	13	-	48	422	563	1.1	72.000	GKS06-3M□□□080C42	E84AV□□□3024□□0	66
1.8	11	-	44	466	621	1.7	79.407	GKS07-3M□□□080C42	E84AV□□□3024□□0	66
1.6	9.7	-	38	543	724	1.6	92.563	GKS07-3M□□□080C42	E84AV□□□3024□□0	66
1.4	8.7	-	34	594	792	1.4	103.039	GKS07-4M□□□080C42	E84AV□□□3024□□0	74
1.4	8.6	-	33	612	816	1.3	104.296	GKS07-3M□□□080C42	E84AV□□□3024□□0	66
1.3	8.0	-	31	648	864	1.2	112.391	GKS07-4M□□□080C42	E84AV□□□3024□□0	74
1.3	8.0	-	31	659	879	1.4	112.338	GKS07-3M□□□080C42	E84AV□□□3024□□0	66
1.2	7.1	-	28	742	990	1.2	126.578	GKS07-3M□□□080C42	E84AV□□□3024□□0	66
1.2	7.1	-	28	728	970	1.3	126.222	GKS07-4M□□□080C42	E84AV□□□3024□□0	74
1.2	7.3	-	28	711	948	3.0	123.275	GKS09-4M□□□080C42	E84AV□□□3024□□0	74
1.1	6.5	-	25	794	1059	0.9	137.748	GKS07-4M□□□080C42	E84AV□□□3024□□0	74
1.0	6.4	-	25	824	1099	1.2	140.548	GKS07-3M□□□080C42	E84AV□□□3024□□0	66
1.0	6.5	-	25	801	1068	2.7	138.929	GKS09-4M□□□080C42	E84AV□□□3024□□0	74
0.9	5.8	-	23	891	1189	1.0	154.622	GKS07-4M□□□080C42	E84AV□□□3024□□0	74
1.0	6.0	-	23	871	1161	2.5	151.012	GKS09-4M□□□080C42	E84AV□□□3024□□0	74
0.9	5.7	-	22	929	1238	0.9	158.364	GKS07-3M□□□080C42	E84AV□□□3024□□0	66
0.9	5.3	-	20	981	1308	2.2	170.188	GKS09-4M□□□080C42	E84AV□□□3024□□0	74
0.7	4.4	-	17	1180	1573	1.8	204.596	GKS09-4M□□□080C42	E84AV□□□3024□□0	74
0.6	3.9	-	15	1329	1773	1.6	230.577	GKS09-4M□□□080C42	E84AV□□□3024□□0	74
0.6	3.6	-	14	1432	1910	1.5	248.439	GKS09-4M□□□080C42	E84AV□□□3024□□0	74
0.5	3.2	-	12	1614	2152	1.4	279.986	GKS09-4M□□□080C42	E84AV□□□3024□□0	74

GKS helical-bevel gearbox

Technical data

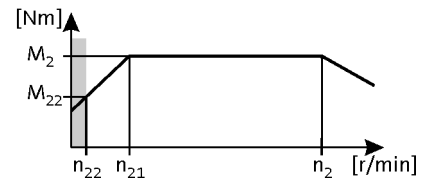


Selection tables

► 120 Hz: $P_N = 3.00 \text{ kW}$

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 145.0 \dots 3480 \text{ r/min}$



n_{22}	n_{21}		n_2	M_{22}	M_2	c	i			
[r/min]	[r/min]		[r/min]	[Nm]	[Nm]					
0.5	2.8	-	11	1864	2486	1.2	323.365	GKS09-4M□□□080C42	E84AV□□□3024□□0	74
0.5	2.8	-	11	1862	2482	2.3	322.931	GKS11-4M□□□080C42	E84AV□□□3024□□0	74
0.4	2.5	-	9.6	2101	2801	1.0	364.427	GKS09-4M□□□080C42	E84AV□□□3024□□0	74
0.4	2.5	-	9.6	2098	2797	2.1	363.866	GKS11-4M□□□080C42	E84AV□□□3024□□0	74
0.4	2.3	-	8.8	2282	3042	1.9	395.787	GKS11-4M□□□080C42	E84AV□□□3024□□0	74
0.4	2.2	-	8.7	2319	3092	0.9	402.234	GKS09-4M□□□080C42	E84AV□□□3024□□0	74
0.3	2.0	-	7.8	2571	3428	1.7	445.958	GKS11-4M□□□080C42	E84AV□□□3024□□0	74
0.3	1.8	-	6.8	2953	3937	1.4	512.196	GKS11-4M□□□080C42	E84AV□□□3024□□0	74
0.3	1.6	-	6.0	3327	4436	1.3	577.122	GKS11-4M□□□080C42	E84AV□□□3024□□0	74
0.2	1.5	-	5.6	3584	4778	1.2	621.619	GKS11-4M□□□080C42	E84AV□□□3024□□0	74
0.2	1.3	-	5.0	4038	5384	1.1	700.416	GKS11-4M□□□080C42	E84AV□□□3024□□0	74
0.2	1.1	-	4.3	4707	6276	0.9	816.455	GKS11-4M□□□080C42	E84AV□□□3024□□0	74

GKS helical-bevel gearbox

Technical data

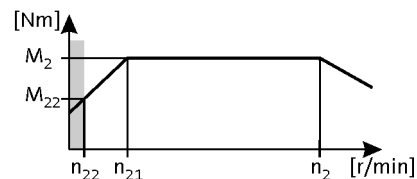


Selection tables

► 120 Hz: $P_N = 4.00 \text{ kW}$

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 145.0 \dots 3480 \text{ r/min}$



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
13	53	-	306	83	119	2.1	11.382	GKS06-3M□□□090C32	E84AV□□□4024□□0	66
11	46	-	264	96	137	0.9	13.176	GKS05-3M□□□090C32	E84AV□□□4024□□0	66
8.1	34	-	195	130	186	2.1	17.809	GKS06-3M□□□090C32	E84AV□□□4024□□0	66
5.6	23	-	134	190	271	1.9	26.017	GKS06-3M□□□090C32	E84AV□□□4024□□0	66
5.1	21	-	122	208	297	1.7	28.461	GKS06-3M□□□090C32	E84AV□□□4024□□0	66
4.5	19	-	109	234	334	1.4	32.063	GKS06-3M□□□090C32	E84AV□□□4024□□0	66
4.0	17	-	97	263	376	2.6	36.063	GKS07-3M□□□090C32	E84AV□□□4024□□0	66
4.0	17	-	96	265	379	1.4	36.303	GKS06-3M□□□090C32	E84AV□□□4024□□0	66
3.3	14	-	78	325	464	1.3	44.471	GKS06-3M□□□090C32	E84AV□□□4024□□0	66
2.7	11	-	66	387	553	1.1	53.074	GKS06-3M□□□090C32	E84AV□□□4024□□0	66
2.5	10	-	61	420	600	1.9	57.501	GKS07-3M□□□090C32	E84AV□□□4024□□0	66
2.5	10	-	60	423	604	1.0	57.882	GKS06-3M□□□090C32	E84AV□□□4024□□0	66
2.2	9.3	-	54	473	676	1.5	64.790	GKS07-3M□□□090C32	E84AV□□□4024□□0	66
2.1	8.5	-	49	514	735	1.5	70.474	GKS07-3M□□□090C32	E84AV□□□4024□□0	66
1.8	7.6	-	44	580	828	1.2	79.407	GKS07-3M□□□090C32	E84AV□□□4024□□0	66
1.6	6.5	-	38	676	965	1.2	92.563	GKS07-3M□□□090C32	E84AV□□□4024□□0	66
1.6	6.5	-	38	671	958	2.3	91.860	GKS09-3M□□□090C32	E84AV□□□4024□□0	66
1.4	6.0	-	35	721	1031	2.5	100.551	GKS09-4M□□□090C32	E84AV□□□4024□□0	74
1.4	5.8	-	34	739	1056	1.0	103.039	GKS07-4M□□□090C32	E84AV□□□4024□□0	74
1.4	5.8	-	34	756	1079	2.3	103.524	GKS09-3M□□□090C32	E84AV□□□4024□□0	66
1.4	5.8	-	33	761	1088	1.0	104.296	GKS07-3M□□□090C32	E84AV□□□4024□□0	66
1.3	5.3	-	31	820	1171	1.1	112.338	GKS07-3M□□□090C32	E84AV□□□4024□□0	66
1.3	5.4	-	31	814	1162	2.2	111.484	GKS09-3M□□□090C32	E84AV□□□4024□□0	66
1.3	5.3	-	31	813	1162	2.5	113.320	GKS09-4M□□□090C32	E84AV□□□4024□□0	74
1.2	4.8	-	28	906	1294	1.0	126.222	GKS07-4M□□□090C32	E84AV□□□4024□□0	74
1.2	4.8	-	28	917	1310	2.2	125.641	GKS09-3M□□□090C32	E84AV□□□4024□□0	66
1.2	4.9	-	28	884	1264	2.3	123.275	GKS09-4M□□□090C32	E84AV□□□4024□□0	74
1.0	4.3	-	25	1029	1469	1.7	140.921	GKS09-3M□□□090C32	E84AV□□□4024□□0	66
1.0	4.3	-	25	997	1424	2.0	138.929	GKS09-4M□□□090C32	E84AV□□□4024□□0	74
1.0	4.0	-	23	1083	1548	1.9	151.012	GKS09-4M□□□090C32	E84AV□□□4024□□0	74
0.9	3.8	-	22	1159	1656	1.7	158.816	GKS09-3M□□□090C32	E84AV□□□4024□□0	66
0.9	3.5	-	20	1221	1744	1.6	170.188	GKS09-4M□□□090C32	E84AV□□□4024□□0	74
0.8	3.3	-	19	1328	1898	1.5	182.000	GKS09-3M□□□090C32	E84AV□□□4024□□0	66
0.7	2.9	-	17	1468	2097	1.4	204.596	GKS09-4M□□□090C32	E84AV□□□4024□□0	74
0.7	2.9	-	17	1497	2139	1.4	205.111	GKS09-3M□□□090C32	E84AV□□□4024□□0	66
0.7	2.7	-	16	1612	2303	1.3	220.882	GKS09-3M□□□090C32	E84AV□□□4024□□0	66
0.6	2.6	-	15	1654	2363	1.2	230.577	GKS09-4M□□□090C32	E84AV□□□4024□□0	74
0.6	2.4	-	14	1782	2546	1.1	248.439	GKS09-4M□□□090C32	E84AV□□□4024□□0	74
0.6	2.4	-	14	1817	2596	1.1	248.930	GKS09-3M□□□090C32	E84AV□□□4024□□0	66
0.5	2.2	-	13	2038	2911	1.0	279.205	GKS09-3M□□□090C32	E84AV□□□4024□□0	66
0.5	2.1	-	12	2009	2870	1.0	279.986	GKS09-4M□□□090C32	E84AV□□□4024□□0	74

GKS helical-bevel gearbox

Technical data

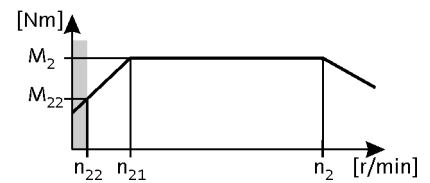


Selection tables

► 120 Hz: $P_N = 4.00$ kW

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 145.0 \dots 3480$ r/min



n_{22}	n_{21}		n_2	M_{22}	M_2	c	i			
[r/min]	[r/min]		[r/min]	[Nm]	[Nm]					
0.5	1.9	-	11	2317	3310	1.7	322.931	GKS11-4M□□□090C32	E84AV□□□4024□□0	74
0.4	1.7	-	9.6	2611	3729	1.5	363.866	GKS11-4M□□□090C32	E84AV□□□4024□□0	74
0.4	1.5	-	8.8	2840	4057	1.4	395.787	GKS11-4M□□□090C32	E84AV□□□4024□□0	74
0.3	1.4	-	7.8	3200	4571	1.3	445.958	GKS11-4M□□□090C32	E84AV□□□4024□□0	74
0.3	1.2	-	6.8	3675	5250	1.1	512.196	GKS11-4M□□□090C32	E84AV□□□4024□□0	74
0.3	1.0	-	6.0	4141	5915	1.0	577.122	GKS11-4M□□□090C32	E84AV□□□4024□□0	74
0.2	0.7	-	4.3	5782	8260	1.3	805.901	GKS14-4M□□□090C32	E84AV□□□4024□□0	74
0.2	0.7	-	3.8	6515	9307	1.2	908.058	GKS14-4M□□□090C32	E84AV□□□4024□□0	74
0.2	0.6	-	3.6	7017	10025	1.1	978.071	GKS14-4M□□□090C32	E84AV□□□4024□□0	74
0.1	0.5	-	3.2	7907	11295	1.0	1102.052	GKS14-4M□□□090C32	E84AV□□□4024□□0	74

GKS helical-bevel gearbox

Technical data

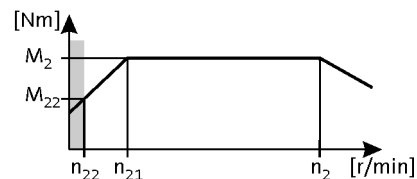


Selection tables

► 120 Hz: $P_N = 5.50 \text{ kW}$

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 146.9 \dots 3525 \text{ r/min}$



n_{22}	n_{21}		n_2	M_{22}	M_2	c	i			
[r/min]	[r/min]		[r/min]	[Nm]	[Nm]					
13	53	-	310	113	161	1.5	11.382	GKS06-3M□□□100C12	E84AV□□□5524□□0	66
13	53	-	310	113	161	2.9	11.378	GKS07-3M□□□100C12	E84AV□□□5524□□0	66
8.5	35	-	204	171	244	3.1	17.270	GKS07-3M□□□100C12	E84AV□□□5524□□0	66
8.3	34	-	198	176	252	1.5	17.809	GKS06-3M□□□100C12	E84AV□□□5524□□0	66
5.8	24	-	140	250	357	2.5	25.244	GKS07-3M□□□100C12	E84AV□□□5524□□0	66
5.7	23	-	136	258	368	1.4	26.017	GKS06-3M□□□100C12	E84AV□□□5524□□0	66
5.2	21	-	125	280	400	2.3	28.274	GKS07-3M□□□100C12	E84AV□□□5524□□0	66
5.2	21	-	124	282	403	1.3	28.461	GKS06-3M□□□100C12	E84AV□□□5524□□0	66
4.6	19	-	111	316	451	2.0	31.858	GKS07-3M□□□100C12	E84AV□□□5524□□0	66
4.6	19	-	110	318	454	1.0	32.063	GKS06-3M□□□100C12	E84AV□□□5524□□0	66
4.1	17	-	98	357	510	1.9	36.063	GKS07-3M□□□100C12	E84AV□□□5524□□0	66
4.1	17	-	97	360	514	1.0	36.303	GKS06-3M□□□100C12	E84AV□□□5524□□0	66
3.7	15	-	89	393	561	4.0	39.662	GKS09-3M□□□100C12	E84AV□□□5524□□0	66
3.3	14	-	80	438	625	1.8	44.178	GKS07-3M□□□100C12	E84AV□□□5524□□0	66
3.3	14	-	79	441	629	0.9	44.471	GKS06-3M□□□100C12	E84AV□□□5524□□0	66
2.9	12	-	70	499	713	1.6	50.345	GKS07-3M□□□100C12	E84AV□□□5524□□0	66
2.6	10	-	61	570	814	1.4	57.501	GKS07-3M□□□100C12	E84AV□□□5524□□0	66
2.5	10	-	60	579	827	3.1	58.456	GKS09-3M□□□100C12	E84AV□□□5524□□0	66
2.3	9.3	-	54	642	917	1.1	64.790	GKS07-3M□□□100C12	E84AV□□□5524□□0	66
2.2	9.1	-	54	653	932	2.8	65.879	GKS09-3M□□□100C12	E84AV□□□5524□□0	66
2.1	8.5	-	50	698	998	1.1	70.474	GKS07-3M□□□100C12	E84AV□□□5524□□0	66
2.1	8.5	-	50	703	1005	2.6	70.982	GKS09-3M□□□100C12	E84AV□□□5524□□0	66
1.9	7.6	-	44	787	1124	0.9	79.407	GKS07-3M□□□100C12	E84AV□□□5524□□0	66
1.8	7.5	-	44	793	1132	2.3	79.996	GKS09-3M□□□100C12	E84AV□□□5524□□0	66
1.6	6.5	-	38	910	1300	2.0	91.860	GKS09-3M□□□100C12	E84AV□□□5524□□0	66
1.6	6.5	-	38	909	1298	2.9	91.737	GKS11-3M□□□100C12	E84AV□□□5524□□0	66
1.5	6.0	-	35	979	1399	1.9	100.551	GKS09-4M□□□100C12	E84AV□□□5524□□0	74
1.4	5.8	-	34	1026	1465	1.8	103.524	GKS09-3M□□□100C12	E84AV□□□5524□□0	66
1.4	5.8	-	34	1024	1463	2.9	103.365	GKS11-3M□□□100C12	E84AV□□□5524□□0	66
1.3	5.4	-	32	1105	1578	1.8	111.484	GKS09-3M□□□100C12	E84AV□□□5524□□0	66
1.3	5.4	-	32	1103	1576	2.7	111.335	GKS11-3M□□□100C12	E84AV□□□5524□□0	66
1.3	5.3	-	31	1104	1577	1.8	113.320	GKS09-4M□□□100C12	E84AV□□□5524□□0	74
1.2	4.9	-	29	1201	1715	1.7	123.275	GKS09-4M□□□100C12	E84AV□□□5524□□0	74
1.2	4.8	-	28	1245	1778	1.6	125.641	GKS09-3M□□□100C12	E84AV□□□5524□□0	66
1.2	4.8	-	28	1243	1776	2.7	125.448	GKS11-3M□□□100C12	E84AV□□□5524□□0	66
1.2	4.8	-	28	1218	1741	3.2	125.095	GKS11-4M□□□100C12	E84AV□□□5524□□0	74
1.0	4.3	-	25	1396	1995	1.4	140.921	GKS09-3M□□□100C12	E84AV□□□5524□□0	66
1.1	4.3	-	25	1353	1933	1.5	138.929	GKS09-4M□□□100C12	E84AV□□□5524□□0	74
1.0	4.3	-	25	1394	1992	2.2	140.732	GKS11-3M□□□100C12	E84AV□□□5524□□0	66
1.0	4.3	-	25	1373	1961	2.9	140.952	GKS11-4M□□□100C12	E84AV□□□5524□□0	74
1.0	4.0	-	23	1471	2101	1.4	151.012	GKS09-4M□□□100C12	E84AV□□□5524□□0	74

GKS helical-bevel gearbox

Technical data

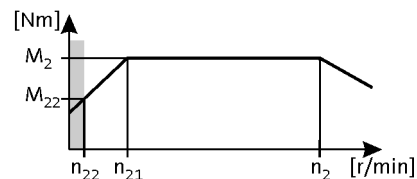


Selection tables

► 120 Hz: $P_N = 5.50 \text{ kW}$

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 146.9 \dots 3525 \text{ r/min}$



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
1.0	3.9	-	23	1492	2132	2.6	153.242	GKS11-4M□□□100C12	E84AV□□□5524□□0	74
0.9	3.8	-	22	1574	2248	1.3	158.816	GKS09-3M□□□100C12	E84AV□□□5524□□0	66
0.9	3.8	-	22	1571	2244	2.2	158.571	GKS11-3M□□□100C12	E84AV□□□5524□□0	66
0.9	3.5	-	21	1658	2368	1.2	170.188	GKS09-4M□□□100C12	E84AV□□□5524□□0	74
0.9	3.5	-	20	1682	2402	2.3	172.667	GKS11-4M□□□100C12	E84AV□□□5524□□0	74
0.8	3.3	-	19	1803	2576	1.1	182.000	GKS09-3M□□□100C12	E84AV□□□5524□□0	66
0.8	3.2	-	19	1849	2641	2.1	186.572	GKS11-3M□□□100C12	E84AV□□□5524□□0	66
0.7	3.0	-	18	1966	2809	2.0	201.890	GKS11-4M□□□100C12	E84AV□□□5524□□0	74
0.7	2.9	-	17	2032	2903	1.0	205.111	GKS09-3M□□□100C12	E84AV□□□5524□□0	66
0.7	2.9	-	17	1993	2847	1.0	204.596	GKS09-4M□□□100C12	E84AV□□□5524□□0	74
0.7	2.9	-	17	2083	2975	1.9	210.222	GKS11-3M□□□100C12	E84AV□□□5524□□0	66
0.7	2.7	-	16	2188	3126	0.9	220.882	GKS09-3M□□□100C12	E84AV□□□5524□□0	66
0.7	2.7	-	16	2243	3205	1.8	226.431	GKS11-3M□□□100C12	E84AV□□□5524□□0	66
0.7	2.6	-	16	2216	3165	1.8	227.481	GKS11-4M□□□100C12	E84AV□□□5524□□0	74
0.6	2.6	-	15	2246	3208	0.9	230.577	GKS09-4M□□□100C12	E84AV□□□5524□□0	74
0.6	2.4	-	14	2528	3611	1.5	255.133	GKS11-3M□□□100C12	E84AV□□□5524□□0	66
0.6	2.4	-	14	2416	3452	1.6	248.106	GKS11-4M□□□100C12	E84AV□□□5524□□0	74
0.5	2.2	-	13	2723	3890	1.5	279.556	GKS11-4M□□□100C12	E84AV□□□5524□□0	74
0.5	2.1	-	12	2836	4051	1.4	286.219	GKS11-3M□□□100C12	E84AV□□□5524□□0	66
0.5	1.9	-	11	3195	4565	1.2	322.500	GKS11-3M□□□100C12	E84AV□□□5524□□0	66
0.5	1.9	-	11	3145	4493	1.3	322.931	GKS11-4M□□□100C12	E84AV□□□5524□□0	74
0.5	1.9	-	11	3133	4476	2.4	321.729	GKS14-4M□□□100C12	E84AV□□□5524□□0	74
0.4	1.7	-	9.7	3544	5063	1.1	363.866	GKS11-4M□□□100C12	E84AV□□□5524□□0	74
0.4	1.7	-	9.7	3531	5044	2.2	362.512	GKS14-4M□□□100C12	E84AV□□□5524□□0	74
0.4	1.5	-	9.0	3805	5435	2.0	390.671	GKS14-4M□□□100C12	E84AV□□□5524□□0	74
0.4	1.5	-	8.9	3855	5507	1.0	395.787	GKS11-4M□□□100C12	E84AV□□□5524□□0	74
0.3	1.4	-	8.0	4287	6124	1.8	440.193	GKS14-4M□□□100C12	E84AV□□□5524□□0	74
0.3	1.4	-	7.9	4343	6205	0.9	445.958	GKS11-4M□□□100C12	E84AV□□□5524□□0	74
0.3	1.2	-	6.9	4997	7139	1.5	513.121	GKS14-4M□□□100C12	E84AV□□□5524□□0	74
0.3	1.0	-	6.1	5631	8044	1.4	578.164	GKS14-4M□□□100C12	E84AV□□□5524□□0	74
0.2	1.0	-	5.7	6065	8664	1.3	622.742	GKS14-4M□□□100C12	E84AV□□□5524□□0	74
0.2	0.9	-	5.0	6834	9763	1.1	701.681	GKS14-4M□□□100C12	E84AV□□□5524□□0	74
0.2	0.7	-	4.4	7849	11213	1.0	805.901	GKS14-4M□□□100C12	E84AV□□□5524□□0	74

GKS helical-bevel gearbox

Technical data

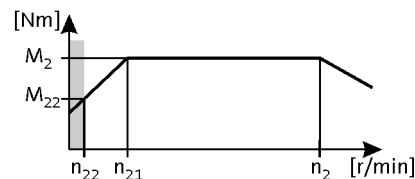


Selection tables

► 120 Hz: $P_N = 7.50 \text{ kW}$

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 146.5 \dots 3515 \text{ r/min}$



n_{22}	n_{21}		n_2	M_{22}	M_2	c	i			
[r/min]	[r/min]		[r/min]	[Nm]	[Nm]					
13	53	-	309	154	220	1.1	11.382	GKS06-3M□□□100C32	E84AV□□□7524□□0	66
13	53	-	309	154	220	2.1	11.378	GKS07-3M□□□100C32	E84AV□□□7524□□0	66
8.5	35	-	204	234	334	2.2	17.270	GKS07-3M□□□100C32	E84AV□□□7524□□0	66
8.2	34	-	197	241	345	1.1	17.809	GKS06-3M□□□100C32	E84AV□□□7524□□0	66
5.8	24	-	139	342	489	1.8	25.244	GKS07-3M□□□100C32	E84AV□□□7524□□0	66
5.6	23	-	135	353	504	1.0	26.017	GKS06-3M□□□100C32	E84AV□□□7524□□0	66
5.2	21	-	124	386	551	0.9	28.461	GKS06-3M□□□100C32	E84AV□□□7524□□0	66
5.2	21	-	124	383	547	1.7	28.274	GKS07-3M□□□100C32	E84AV□□□7524□□0	66
4.6	19	-	110	432	617	1.4	31.858	GKS07-3M□□□100C32	E84AV□□□7524□□0	66
4.2	17	-	100	477	681	3.1	35.193	GKS09-3M□□□100C32	E84AV□□□7524□□0	66
4.1	17	-	98	489	698	1.4	36.063	GKS07-3M□□□100C32	E84AV□□□7524□□0	66
3.7	15	-	89	537	768	2.9	39.662	GKS09-3M□□□100C32	E84AV□□□7524□□0	66
3.3	14	-	80	599	855	1.3	44.178	GKS07-3M□□□100C32	E84AV□□□7524□□0	66
2.9	12	-	70	682	975	1.1	50.345	GKS07-3M□□□100C32	E84AV□□□7524□□0	66
2.6	10	-	61	779	1113	1.0	57.501	GKS07-3M□□□100C32	E84AV□□□7524□□0	66
2.5	10	-	60	792	1131	2.3	58.456	GKS09-3M□□□100C32	E84AV□□□7524□□0	66
2.2	9.1	-	53	893	1275	2.0	65.879	GKS09-3M□□□100C32	E84AV□□□7524□□0	66
2.1	8.5	-	50	962	1374	1.9	70.982	GKS09-3M□□□100C32	E84AV□□□7524□□0	66
1.8	7.5	-	44	1084	1548	1.7	79.996	GKS09-3M□□□100C32	E84AV□□□7524□□0	66
1.6	6.5	-	38	1245	1778	1.5	91.860	GKS09-3M□□□100C32	E84AV□□□7524□□0	66
1.6	6.5	-	38	1243	1776	2.1	91.737	GKS11-3M□□□100C32	E84AV□□□7524□□0	66
1.5	6.0	-	35	1339	1913	1.4	100.551	GKS09-4M□□□100C32	E84AV□□□7524□□0	74
1.4	5.8	-	34	1403	2004	1.3	103.524	GKS09-3M□□□100C32	E84AV□□□7524□□0	66
1.4	5.8	-	34	1401	2001	2.1	103.365	GKS11-3M□□□100C32	E84AV□□□7524□□0	66
1.4	5.9	-	34	1360	1943	2.5	102.119	GKS11-4M□□□100C32	E84AV□□□7524□□0	74
1.3	5.4	-	32	1511	2158	1.3	111.484	GKS09-3M□□□100C32	E84AV□□□7524□□0	66
1.3	5.4	-	32	1508	2155	2.0	111.335	GKS11-3M□□□100C32	E84AV□□□7524□□0	66
1.3	5.3	-	31	1509	2156	1.3	113.320	GKS09-4M□□□100C32	E84AV□□□7524□□0	74
1.3	5.2	-	31	1533	2189	2.5	115.063	GKS11-4M□□□100C32	E84AV□□□7524□□0	74
1.2	4.9	-	29	1642	2346	1.2	123.275	GKS09-4M□□□100C32	E84AV□□□7524□□0	74
1.2	4.8	-	28	1702	2432	1.2	125.641	GKS09-3M□□□100C32	E84AV□□□7524□□0	66
1.2	4.8	-	28	1700	2428	2.0	125.448	GKS11-3M□□□100C32	E84AV□□□7524□□0	66
1.2	4.8	-	28	1666	2380	2.3	125.095	GKS11-4M□□□100C32	E84AV□□□7524□□0	74
1.0	4.3	-	25	1909	2728	1.0	140.921	GKS09-3M□□□100C32	E84AV□□□7524□□0	66
1.1	4.3	-	25	1850	2643	1.1	138.929	GKS09-4M□□□100C32	E84AV□□□7524□□0	74
1.0	4.3	-	25	1907	2724	1.6	140.732	GKS11-3M□□□100C32	E84AV□□□7524□□0	66
1.0	4.3	-	25	1877	2682	2.1	140.952	GKS11-4M□□□100C32	E84AV□□□7524□□0	74
1.0	4.0	-	23	2011	2873	1.0	151.012	GKS09-4M□□□100C32	E84AV□□□7524□□0	74
1.0	3.9	-	23	2041	2916	1.9	153.242	GKS11-4M□□□100C32	E84AV□□□7524□□0	74
0.9	3.8	-	22	2152	3074	1.0	158.816	GKS09-3M□□□100C32	E84AV□□□7524□□0	66
0.9	3.8	-	22	2148	3069	1.6	158.571	GKS11-3M□□□100C32	E84AV□□□7524□□0	66

GKS helical-bevel gearbox

Technical data

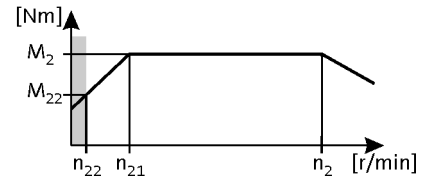


Selection tables

► 120 Hz: $P_N = 7.50$ kW

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 146.5 \dots 3515$ r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
0.9	3.5	-	20	2300	3285	1.7	172.667	GKS11-4M□□□100C32	E84AV□□□7524□□0	74
0.8	3.4	-	20	2372	3388	3.2	178.072	GKS14-4M□□□100C32	E84AV□□□7524□□0	74
0.8	3.2	-	19	2528	3611	1.6	186.572	GKS11-3M□□□100C32	E84AV□□□7524□□0	66
0.7	2.9	-	17	2848	4069	1.4	210.222	GKS11-3M□□□100C32	E84AV□□□7524□□0	66
0.7	3.0	-	17	2689	3841	1.5	201.890	GKS11-4M□□□100C32	E84AV□□□7524□□0	74
0.7	2.7	-	16	3068	4383	1.3	226.431	GKS11-3M□□□100C32	E84AV□□□7524□□0	66
0.6	2.6	-	16	3030	4328	1.3	227.481	GKS11-4M□□□100C32	E84AV□□□7524□□0	74
0.6	2.4	-	14	3457	4938	1.1	255.133	GKS11-3M□□□100C32	E84AV□□□7524□□0	66
0.6	2.4	-	14	3304	4721	1.2	248.106	GKS11-4M□□□100C32	E84AV□□□7524□□0	74
0.5	2.2	-	13	3723	5319	1.1	279.556	GKS11-4M□□□100C32	E84AV□□□7524□□0	74
0.5	2.1	-	12	3878	5540	1.0	286.219	GKS11-3M□□□100C32	E84AV□□□7524□□0	66
0.5	1.9	-	11	4301	6144	0.9	322.931	GKS11-4M□□□100C32	E84AV□□□7524□□0	74
0.5	1.9	-	11	4285	6121	1.8	321.729	GKS14-4M□□□100C32	E84AV□□□7524□□0	74
0.4	1.7	-	9.7	4828	6897	1.6	362.512	GKS14-4M□□□100C32	E84AV□□□7524□□0	74
0.4	1.5	-	9.0	5203	7433	1.5	390.671	GKS14-4M□□□100C32	E84AV□□□7524□□0	74
0.3	1.4	-	8.0	5863	8375	1.3	440.193	GKS14-4M□□□100C32	E84AV□□□7524□□0	74
0.3	1.2	-	6.9	6834	9763	1.1	513.121	GKS14-4M□□□100C32	E84AV□□□7524□□0	74
0.3	1.0	-	6.1	7700	11000	1.0	578.164	GKS14-4M□□□100C32	E84AV□□□7524□□0	74
0.2	1.0	-	5.6	8294	11848	0.9	622.742	GKS14-4M□□□100C32	E84AV□□□7524□□0	74

GKS helical-bevel gearbox

Technical data

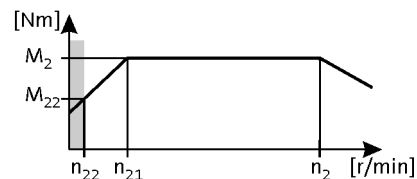


Selection tables

► 120 Hz: $P_N = 11.00$ kW

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 147.1 \dots 3530$ r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
13	53	-	310	206	322	1.4	11.378	GKS07-3M□□□112C22	E84AV□□□1134□□0	66
9.1	37	-	219	292	456	3.0	16.122	GKS09-3M□□□112C22	E84AV□□□1134□□0	66
8.5	35	-	204	312	488	1.5	17.270	GKS07-3M□□□112C22	E84AV□□□1134□□0	66
8.4	34	-	201	317	496	3.0	17.536	GKS09-3M□□□112C22	E84AV□□□1134□□0	66
5.8	24	-	140	457	714	1.2	25.244	GKS07-3M□□□112C22	E84AV□□□1134□□0	66
5.7	23	-	138	464	725	3.0	25.649	GKS09-3M□□□112C22	E84AV□□□1134□□0	66
5.2	21	-	125	512	799	1.1	28.274	GKS07-3M□□□112C22	E84AV□□□1134□□0	66
5.0	21	-	121	529	826	2.7	29.228	GKS09-3M□□□112C22	E84AV□□□1134□□0	66
4.6	19	-	111	576	901	1.0	31.858	GKS07-3M□□□112C22	E84AV□□□1134□□0	66
4.5	18	-	107	596	931	2.4	32.940	GKS09-3M□□□112C22	E84AV□□□1134□□0	66
4.2	17	-	100	637	995	2.3	35.193	GKS09-3M□□□112C22	E84AV□□□1134□□0	66
4.1	17	-	99	647	1010	3.1	35.741	GKS11-3M□□□112C22	E84AV□□□1134□□0	66
4.1	17	-	98	652	1019	1.0	36.063	GKS07-3M□□□112C22	E84AV□□□1134□□0	66
3.7	15	-	89	718	1121	2.0	39.662	GKS09-3M□□□112C22	E84AV□□□1134□□0	66
3.7	15	-	88	729	1138	3.1	40.272	GKS11-3M□□□112C22	E84AV□□□1134□□0	66
3.4	14	-	82	781	1220	2.1	43.146	GKS09-3M□□□112C22	E84AV□□□1134□□0	66
3.0	12	-	73	880	1375	1.9	48.625	GKS09-3M□□□112C22	E84AV□□□1134□□0	66
2.6	10	-	61	1044	1631	2.5	57.683	GKS11-3M□□□112C22	E84AV□□□1134□□0	66
2.5	10	-	60	1058	1652	1.6	58.456	GKS09-3M□□□112C22	E84AV□□□1134□□0	66
2.2	9.1	-	54	1192	1862	1.4	65.879	GKS09-3M□□□112C22	E84AV□□□1134□□0	66
2.3	9.2	-	54	1176	1837	2.5	64.995	GKS11-3M□□□112C22	E84AV□□□1134□□0	66
2.1	8.5	-	50	1284	2007	1.3	70.982	GKS09-3M□□□112C22	E84AV□□□1134□□0	66
2.1	8.5	-	50	1282	2004	2.1	70.887	GKS11-3M□□□112C22	E84AV□□□1134□□0	66
1.8	7.5	-	44	1447	2261	1.2	79.996	GKS09-3M□□□112C22	E84AV□□□1134□□0	66
1.8	7.5	-	44	1445	2258	2.1	79.873	GKS11-3M□□□112C22	E84AV□□□1134□□0	66
1.6	6.5	-	39	1660	2593	1.6	91.737	GKS11-3M□□□112C22	E84AV□□□1134□□0	66
1.6	6.6	-	39	1638	2560	2.0	90.551	GKS14-3M□□□112C22	E84AV□□□1134□□0	66
1.6	6.5	-	38	1662	2597	1.0	91.860	GKS09-3M□□□112C22	E84AV□□□1134□□0	66
1.5	6.2	-	36	1733	2708	2.9	97.467	GKS14-4M□□□112C22	E84AV□□□1134□□0	74
1.5	6.0	-	35	1788	2794	0.9	100.551	GKS09-4M□□□112C22	E84AV□□□1134□□0	74
1.4	5.9	-	35	1816	2838	1.7	102.119	GKS11-4M□□□112C22	E84AV□□□1134□□0	74
1.4	5.9	-	35	1846	2884	2.0	102.029	GKS14-3M□□□112C22	E84AV□□□1134□□0	66
1.4	5.8	-	34	1870	2922	1.6	103.365	GKS11-3M□□□112C22	E84AV□□□1134□□0	66
1.3	5.4	-	32	2017	3151	0.9	111.484	GKS09-3M□□□112C22	E84AV□□□1134□□0	66
1.3	5.4	-	32	2014	3147	1.5	111.335	GKS11-3M□□□112C22	E84AV□□□1134□□0	66
1.3	5.5	-	32	1988	3106	1.7	109.896	GKS14-3M□□□112C22	E84AV□□□1134□□0	66
1.3	5.5	-	32	1953	3052	2.9	109.822	GKS14-4M□□□112C22	E84AV□□□1134□□0	74
1.3	5.3	-	31	2015	3149	0.9	113.320	GKS09-4M□□□112C22	E84AV□□□1134□□0	74
1.3	5.2	-	31	2046	3197	1.7	115.063	GKS11-4M□□□112C22	E84AV□□□1134□□0	74
1.2	5.0	-	30	2125	3320	3.1	119.493	GKS14-4M□□□112C22	E84AV□□□1134□□0	74
1.2	4.9	-	29	2240	3500	1.9	123.826	GKS14-3M□□□112C22	E84AV□□□1134□□0	66

GKS helical-bevel gearbox

Technical data

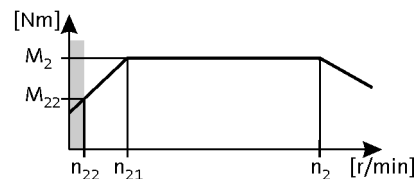


Selection tables

► 120 Hz: $P_N = 11.00$ kW

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 147.1 \dots 3530$ r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
1.2	4.8	-	28	2270	3546	1.5	125.448	GKS11-3M□□□112C22	E84AV□□□1134□□0	66
1.2	4.8	-	28	2225	3476	1.6	125.095	GKS11-4M□□□112C22	E84AV□□□1134□□0	74
1.1	4.5	-	26	2394	3741	2.9	134.640	GKS14-4M□□□112C22	E84AV□□□1134□□0	74
1.1	4.3	-	25	2546	3978	1.2	140.732	GKS11-3M□□□112C22	E84AV□□□1134□□0	66
1.0	4.3	-	25	2507	3917	1.4	140.952	GKS11-4M□□□112C22	E84AV□□□1134□□0	74
1.1	4.3	-	25	2513	3927	1.5	138.913	GKS14-3M□□□112C22	E84AV□□□1134□□0	66
1.0	3.9	-	23	2725	4258	1.3	153.242	GKS11-4M□□□112C22	E84AV□□□1134□□0	74
0.9	3.8	-	23	2832	4424	1.5	156.522	GKS14-3M□□□112C22	E84AV□□□1134□□0	66
0.9	3.8	-	22	2869	4482	1.2	158.571	GKS11-3M□□□112C22	E84AV□□□1134□□0	66
0.9	3.8	-	22	2811	4391	2.5	158.039	GKS14-4M□□□112C22	E84AV□□□1134□□0	74
0.9	3.5	-	20	3071	4798	1.2	172.667	GKS11-4M□□□112C22	E84AV□□□1134□□0	74
0.8	3.4	-	20	3167	4948	2.2	178.072	GKS14-4M□□□112C22	E84AV□□□1134□□0	74
0.8	3.2	-	19	3375	5274	1.1	186.572	GKS11-3M□□□112C22	E84AV□□□1134□□0	66
0.8	3.2	-	19	3375	5274	2.1	186.572	GKS14-3M□□□112C22	E84AV□□□1134□□0	66
0.7	3.0	-	18	3590	5610	1.0	201.890	GKS11-4M□□□112C22	E84AV□□□1134□□0	74
0.8	3.1	-	18	3446	5384	2.0	193.754	GKS14-4M□□□112C22	E84AV□□□1134□□0	74
0.7	2.9	-	17	3803	5942	0.9	210.222	GKS11-3M□□□112C22	E84AV□□□1134□□0	66
0.7	2.9	-	17	3803	5942	1.8	210.222	GKS14-3M□□□112C22	E84AV□□□1134□□0	66
0.7	2.7	-	16	4096	6401	1.7	226.431	GKS14-3M□□□112C22	E84AV□□□1134□□0	66
0.7	2.8	-	16	3882	6066	1.8	218.315	GKS14-4M□□□112C22	E84AV□□□1134□□0	74
0.6	2.5	-	15	4223	6598	1.6	237.467	GKS14-4M□□□112C22	E84AV□□□1134□□0	74
0.6	2.4	-	14	4616	7212	1.5	255.133	GKS14-3M□□□112C22	E84AV□□□1134□□0	66
0.6	2.2	-	13	4758	7435	1.5	267.568	GKS14-4M□□□112C22	E84AV□□□1134□□0	74
0.5	2.1	-	12	5178	8091	1.4	286.219	GKS14-3M□□□112C22	E84AV□□□1134□□0	66
0.5	1.9	-	11	5722	8940	1.2	321.729	GKS14-4M□□□112C22	E84AV□□□1134□□0	74
0.5	1.9	-	11	5834	9116	1.2	322.500	GKS14-3M□□□112C22	E84AV□□□1134□□0	66
0.4	1.7	-	9.7	6447	10073	1.1	362.512	GKS14-4M□□□112C22	E84AV□□□1134□□0	74
0.4	1.5	-	9.0	6948	10855	1.0	390.671	GKS14-4M□□□112C22	E84AV□□□1134□□0	74

GKS helical-bevel gearbox

Technical data

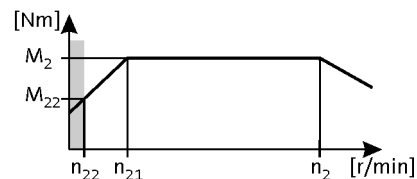


Selection tables

► 120 Hz: $P_N = 15.00$ kW

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 148.3 \dots 3560$ r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
13	53	-	313	278	435	1.1	11.378	GKS07-3M□□□132C12	E84AV□□□1534□□0	66
9.2	37	-	221	394	616	2.2	16.122	GKS09-3M□□□132C12	E84AV□□□1534□□0	66
8.6	35	-	206	422	660	1.1	17.270	GKS07-3M□□□132C12	E84AV□□□1534□□0	66
8.5	34	-	203	429	670	2.2	17.536	GKS09-3M□□□132C12	E84AV□□□1534□□0	66
5.9	24	-	141	618	965	0.9	25.244	GKS07-3M□□□132C12	E84AV□□□1534□□0	66
5.8	23	-	139	627	980	2.2	25.649	GKS09-3M□□□132C12	E84AV□□□1534□□0	66
5.1	21	-	122	715	1117	2.0	29.228	GKS09-3M□□□132C12	E84AV□□□1534□□0	66
4.5	18	-	108	806	1259	1.8	32.940	GKS09-3M□□□132C12	E84AV□□□1534□□0	66
4.2	17	-	101	861	1345	1.7	35.193	GKS09-3M□□□132C12	E84AV□□□1534□□0	66
4.2	17	-	100	874	1366	3.1	35.741	GKS11-3M□□□132C12	E84AV□□□1534□□0	66
3.7	15	-	90	970	1516	1.5	39.662	GKS09-3M□□□132C12	E84AV□□□1534□□0	66
3.7	15	-	88	985	1539	2.9	40.272	GKS11-3M□□□132C12	E84AV□□□1534□□0	66
3.4	14	-	83	1055	1649	1.6	43.146	GKS09-3M□□□132C12	E84AV□□□1534□□0	66
3.4	14	-	81	1071	1674	3.0	43.783	GKS11-3M□□□132C12	E84AV□□□1534□□0	66
3.1	12	-	73	1189	1859	1.4	48.625	GKS09-3M□□□132C12	E84AV□□□1534□□0	66
3.0	12	-	72	1207	1886	2.7	49.333	GKS11-3M□□□132C12	E84AV□□□1534□□0	66
2.6	10	-	62	1411	2205	2.3	57.683	GKS11-3M□□□132C12	E84AV□□□1534□□0	66
2.5	10	-	61	1430	2234	1.2	58.456	GKS09-3M□□□132C12	E84AV□□□1534□□0	66
2.3	9.2	-	55	1590	2484	2.1	64.995	GKS11-3M□□□132C12	E84AV□□□1534□□0	66
2.3	9.1	-	54	1612	2518	1.0	65.879	GKS09-3M□□□132C12	E84AV□□□1534□□0	66
2.1	8.5	-	50	1736	2713	1.0	70.982	GKS09-3M□□□132C12	E84AV□□□1534□□0	66
2.1	8.5	-	50	1734	2709	1.9	70.887	GKS11-3M□□□132C12	E84AV□□□1534□□0	66
1.9	7.5	-	45	1954	3053	1.7	79.873	GKS11-3M□□□132C12	E84AV□□□1534□□0	66
1.6	6.5	-	39	2244	3506	1.5	91.737	GKS11-3M□□□132C12	E84AV□□□1534□□0	66
1.6	6.6	-	39	2215	3461	2.8	90.551	GKS14-3M□□□132C12	E84AV□□□1534□□0	66
1.5	6.2	-	37	2344	3662	2.3	97.467	GKS14-4M□□□132C12	E84AV□□□1534□□0	74
1.5	5.9	-	35	2456	3837	1.3	102.119	GKS11-4M□□□132C12	E84AV□□□1534□□0	74
1.5	5.9	-	35	2496	3900	2.5	102.029	GKS14-3M□□□132C12	E84AV□□□1534□□0	66
1.4	5.8	-	34	2529	3951	1.3	103.365	GKS11-3M□□□132C12	E84AV□□□1534□□0	66
1.3	5.4	-	32	2723	4255	1.3	111.335	GKS11-3M□□□132C12	E84AV□□□1534□□0	66
1.4	5.5	-	32	2641	4126	2.3	109.822	GKS14-4M□□□132C12	E84AV□□□1534□□0	74
1.4	5.5	-	32	2688	4200	2.4	109.896	GKS14-3M□□□132C12	E84AV□□□1534□□0	66
1.3	5.2	-	31	2767	4323	1.3	115.063	GKS11-4M□□□132C12	E84AV□□□1534□□0	74
1.2	5.0	-	30	2873	4490	2.3	119.493	GKS14-4M□□□132C12	E84AV□□□1534□□0	74
1.2	4.8	-	29	3008	4700	1.2	125.095	GKS11-4M□□□132C12	E84AV□□□1534□□0	74
1.2	4.9	-	29	3029	4733	2.3	123.826	GKS14-3M□□□132C12	E84AV□□□1534□□0	66
1.2	4.8	-	28	3069	4795	1.2	125.448	GKS11-3M□□□132C12	E84AV□□□1534□□0	66
1.1	4.3	-	26	3398	5309	2.1	138.913	GKS14-3M□□□132C12	E84AV□□□1534□□0	66
1.1	4.5	-	26	3238	5059	2.1	134.640	GKS14-4M□□□132C12	E84AV□□□1534□□0	74
1.1	4.3	-	25	3389	5296	1.1	140.952	GKS11-4M□□□132C12	E84AV□□□1534□□0	74
1.0	3.9	-	23	3685	5758	1.0	153.242	GKS11-4M□□□132C12	E84AV□□□1534□□0	74

GKS helical-bevel gearbox

Technical data

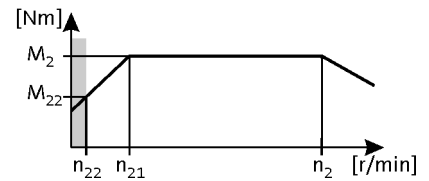


Selection tables

► 120 Hz: $P_N = 15.00$ kW

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 148.3 \dots 3560$ r/min



n_{22}	n_{21}		n_2	M_{22}	M_2	c	i			
[r/min]	[r/min]		[r/min]	[Nm]	[Nm]					
1.0	3.8	-	23	3829	5983	1.8	156.522	GKS14-3M□□□132C12	E84AV□□□1534□□0	66
0.9	3.8	-	23	3800	5938	1.8	158.039	GKS14-4M□□□132C12	E84AV□□□1534□□0	74
0.8	3.4	-	20	4282	6690	1.6	178.072	GKS14-4M□□□132C12	E84AV□□□1534□□0	74
0.8	3.2	-	19	4564	7131	1.5	186.572	GKS14-3M□□□132C12	E84AV□□□1534□□0	66
0.8	3.1	-	18	4659	7280	1.5	193.754	GKS14-4M□□□132C12	E84AV□□□1534□□0	74
0.7	2.9	-	17	5142	8035	1.4	210.222	GKS14-3M□□□132C12	E84AV□□□1534□□0	66
0.7	2.7	-	16	5539	8655	1.3	226.431	GKS14-3M□□□132C12	E84AV□□□1534□□0	66
0.7	2.8	-	16	5250	8202	1.3	218.315	GKS14-4M□□□132C12	E84AV□□□1534□□0	74
0.6	2.5	-	15	5710	8922	1.2	237.467	GKS14-4M□□□132C12	E84AV□□□1534□□0	74
0.6	2.4	-	14	6241	9752	1.1	255.133	GKS14-3M□□□132C12	E84AV□□□1534□□0	66
0.6	2.2	-	13	6434	10053	1.1	267.568	GKS14-4M□□□132C12	E84AV□□□1534□□0	74
0.5	2.1	-	12	7001	10940	1.0	286.219	GKS14-3M□□□132C12	E84AV□□□1534□□0	66

GKS helical-bevel gearbox

Technical data

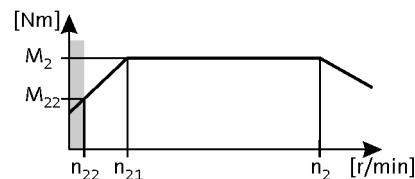


Selection tables

► 120 Hz: $P_N = 18.50$ kW

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 148.3 \dots 3560$ r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
9.2	37	-	221	486	760	1.8	16.122	GKS09-3M□□□132C22	E84AV□□□1834□□0	66
8.6	35	-	206	521	814	0.9	17.270	GKS07-3M□□□132C22	E84AV□□□1834□□0	66
8.5	34	-	203	529	827	1.8	17.536	GKS09-3M□□□132C22	E84AV□□□1834□□0	66
5.8	23	-	139	774	1209	1.8	25.649	GKS09-3M□□□132C22	E84AV□□□1834□□0	66
5.3	21	-	127	845	1321	2.9	28.021	GKS11-3M□□□132C22	E84AV□□□1834□□0	66
5.1	21	-	122	882	1378	1.6	29.228	GKS09-3M□□□132C22	E84AV□□□1834□□0	66
4.7	19	-	113	953	1488	2.8	31.573	GKS11-3M□□□132C22	E84AV□□□1834□□0	66
4.5	18	-	108	994	1553	1.4	32.940	GKS09-3M□□□132C22	E84AV□□□1834□□0	66
4.2	17	-	101	1062	1659	1.4	35.193	GKS09-3M□□□132C22	E84AV□□□1834□□0	66
4.2	17	-	100	1078	1685	2.5	35.741	GKS11-3M□□□132C22	E84AV□□□1834□□0	66
3.7	15	-	90	1197	1870	1.2	39.662	GKS09-3M□□□132C22	E84AV□□□1834□□0	66
3.7	15	-	88	1215	1898	2.3	40.272	GKS11-3M□□□132C22	E84AV□□□1834□□0	66
3.4	14	-	83	1302	2034	1.3	43.146	GKS09-3M□□□132C22	E84AV□□□1834□□0	66
3.4	14	-	81	1321	2064	2.4	43.783	GKS11-3M□□□132C22	E84AV□□□1834□□0	66
3.1	12	-	73	1467	2292	1.1	48.625	GKS09-3M□□□132C22	E84AV□□□1834□□0	66
3.0	12	-	72	1488	2326	2.2	49.333	GKS11-3M□□□132C22	E84AV□□□1834□□0	66
2.6	10	-	62	1740	2719	1.9	57.683	GKS11-3M□□□132C22	E84AV□□□1834□□0	66
2.5	10	-	61	1764	2756	0.9	58.456	GKS09-3M□□□132C22	E84AV□□□1834□□0	66
2.3	9.2	-	55	1961	3064	1.7	64.995	GKS11-3M□□□132C22	E84AV□□□1834□□0	66
2.2	8.7	-	52	2080	3250	3.0	68.942	GKS14-3M□□□132C22	E84AV□□□1834□□0	66
2.1	8.5	-	50	2139	3342	1.5	70.887	GKS11-3M□□□132C22	E84AV□□□1834□□0	66
1.9	7.7	-	46	2344	3662	2.7	77.681	GKS14-3M□□□132C22	E84AV□□□1834□□0	66
1.9	7.5	-	45	2410	3765	1.4	79.873	GKS11-3M□□□132C22	E84AV□□□1834□□0	66
1.6	6.5	-	39	2768	4324	1.2	91.737	GKS11-3M□□□132C22	E84AV□□□1834□□0	66
1.6	6.6	-	39	2732	4269	2.3	90.551	GKS14-3M□□□132C22	E84AV□□□1834□□0	66
1.5	6.2	-	37	2891	4516	1.9	97.467	GKS14-4M□□□132C22	E84AV□□□1834□□0	74
1.5	5.9	-	35	3029	4732	1.0	102.119	GKS11-4M□□□132C22	E84AV□□□1834□□0	74
1.5	5.9	-	35	3078	4810	2.1	102.029	GKS14-3M□□□132C22	E84AV□□□1834□□0	66
1.4	5.8	-	34	3119	4873	1.1	103.365	GKS11-3M□□□132C22	E84AV□□□1834□□0	66
1.3	5.4	-	32	3359	5248	1.1	111.335	GKS11-3M□□□132C22	E84AV□□□1834□□0	66
1.4	5.5	-	32	3257	5089	1.8	109.822	GKS14-4M□□□132C22	E84AV□□□1834□□0	74
1.4	5.5	-	32	3316	5180	1.9	109.896	GKS14-3M□□□132C22	E84AV□□□1834□□0	66
1.3	5.2	-	31	3412	5332	1.0	115.063	GKS11-4M□□□132C22	E84AV□□□1834□□0	74
1.2	5.0	-	30	3544	5537	1.8	119.493	GKS14-4M□□□132C22	E84AV□□□1834□□0	74
1.2	4.8	-	29	3710	5797	0.9	125.095	GKS11-4M□□□132C22	E84AV□□□1834□□0	74
1.2	4.9	-	29	3736	5837	1.9	123.826	GKS14-3M□□□132C22	E84AV□□□1834□□0	66
1.2	4.8	-	28	3785	5914	1.0	125.448	GKS11-3M□□□132C22	E84AV□□□1834□□0	66
1.1	4.5	-	26	3993	6239	1.7	134.640	GKS14-4M□□□132C22	E84AV□□□1834□□0	74
1.1	4.3	-	26	4191	6548	1.7	138.913	GKS14-3M□□□132C22	E84AV□□□1834□□0	66
0.9	3.8	-	23	4687	7323	1.5	158.039	GKS14-4M□□□132C22	E84AV□□□1834□□0	74
1.0	3.8	-	23	4722	7378	1.5	156.522	GKS14-3M□□□132C22	E84AV□□□1834□□0	66

GKS helical-bevel gearbox

Technical data

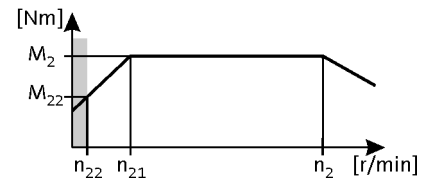


Selection tables

► 120 Hz: $P_N = 18.50$ kW

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 148.3 \dots 3560$ r/min



n_{22}	n_{21}		n_2	M_{22}	M_2	c	i			
[r/min]	[r/min]		[r/min]	[Nm]	[Nm]					
0.8	3.4	-	20	5281	8252	1.3	178.072	GKS14-4M□□□132C22	E84AV□□□1834□□0	74
0.8	3.2	-	19	5629	8795	1.2	186.572	GKS14-3M□□□132C22	E84AV□□□1834□□0	66
0.8	3.1	-	18	5746	8978	1.2	193.754	GKS14-4M□□□132C22	E84AV□□□1834□□0	74
0.7	2.9	-	17	6342	9910	1.1	210.222	GKS14-3M□□□132C22	E84AV□□□1834□□0	66
0.7	2.7	-	16	6831	10674	1.0	226.431	GKS14-3M□□□132C22	E84AV□□□1834□□0	66
0.7	2.8	-	16	6474	10116	1.1	218.315	GKS14-4M□□□132C22	E84AV□□□1834□□0	74
0.6	2.5	-	15	7042	11004	1.0	237.467	GKS14-4M□□□132C22	E84AV□□□1834□□0	74
0.6	2.4	-	14	7697	12027	0.9	255.133	GKS14-3M□□□132C22	E84AV□□□1834□□0	66

GKS helical-bevel gearbox

Technical data

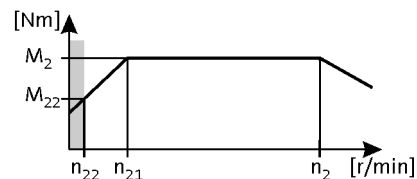


Selection tables

► 120 Hz: $P_N = 22.00$ kW

$n_{22}/n_2 = 1 \dots 24.0$

$n_1 = 147.9 \dots 3550$ r/min



n_{22} [r/min]	n_{21} [r/min]		n_2 [r/min]	M_{22} [Nm]	M_2 [Nm]	c	i			
9.2	37	-	220	580	906	1.5	16.122	GKS09-3M□□□132C32	E84AV□□□2234□□0	66
8.4	34	-	202	631	986	1.5	17.536	GKS09-3M□□□132C32	E84AV□□□2234□□0	66
5.8	23	-	138	923	1442	1.5	25.649	GKS09-3M□□□132C32	E84AV□□□2234□□0	66
5.3	21	-	127	1008	1575	2.5	28.021	GKS11-3M□□□132C32	E84AV□□□2234□□0	66
5.1	21	-	122	1052	1643	1.3	29.228	GKS09-3M□□□132C32	E84AV□□□2234□□0	66
4.7	19	-	112	1136	1775	2.3	31.573	GKS11-3M□□□132C32	E84AV□□□2234□□0	66
4.5	18	-	108	1185	1852	1.2	32.940	GKS09-3M□□□132C32	E84AV□□□2234□□0	66
4.2	17	-	101	1266	1978	1.1	35.193	GKS09-3M□□□132C32	E84AV□□□2234□□0	66
4.1	17	-	99	1286	2009	2.1	35.741	GKS11-3M□□□132C32	E84AV□□□2234□□0	66
3.7	15	-	90	1427	2230	1.0	39.662	GKS09-3M□□□132C32	E84AV□□□2234□□0	66
3.7	15	-	88	1449	2264	1.9	40.272	GKS11-3M□□□132C32	E84AV□□□2234□□0	66
3.4	14	-	82	1552	2426	1.1	43.146	GKS09-3M□□□132C32	E84AV□□□2234□□0	66
3.4	14	-	81	1575	2461	2.0	43.783	GKS11-3M□□□132C32	E84AV□□□2234□□0	66
3.0	12	-	73	1749	2734	0.9	48.625	GKS09-3M□□□132C32	E84AV□□□2234□□0	66
3.0	12	-	72	1775	2773	1.8	49.333	GKS11-3M□□□132C32	E84AV□□□2234□□0	66
2.6	11	-	63	2024	3162	2.9	56.251	GKS14-3M□□□132C32	E84AV□□□2234□□0	66
2.6	10	-	62	2075	3243	1.6	57.683	GKS11-3M□□□132C32	E84AV□□□2234□□0	66
2.3	9.5	-	56	2280	3563	2.7	63.382	GKS14-3M□□□132C32	E84AV□□□2234□□0	66
2.3	9.2	-	55	2338	3654	1.4	64.995	GKS11-3M□□□132C32	E84AV□□□2234□□0	66
2.2	8.7	-	52	2480	3876	2.5	68.942	GKS14-3M□□□132C32	E84AV□□□2234□□0	66
2.1	8.5	-	50	2550	3985	1.3	70.887	GKS11-3M□□□132C32	E84AV□□□2234□□0	66
1.9	7.7	-	46	2795	4367	2.2	77.681	GKS14-3M□□□132C32	E84AV□□□2234□□0	66
1.9	7.5	-	44	2874	4490	1.1	79.873	GKS11-3M□□□132C32	E84AV□□□2234□□0	66
1.6	6.5	-	39	3301	5157	1.0	91.737	GKS11-3M□□□132C32	E84AV□□□2234□□0	66
1.6	6.6	-	39	3258	5090	1.9	90.551	GKS14-3M□□□132C32	E84AV□□□2234□□0	66
1.5	6.2	-	36	3447	5386	1.6	97.467	GKS14-4M□□□132C32	E84AV□□□2234□□0	74
1.5	5.9	-	35	3671	5736	1.7	102.029	GKS14-3M□□□132C32	E84AV□□□2234□□0	66
1.3	5.4	-	32	4006	6259	0.9	111.335	GKS11-3M□□□132C32	E84AV□□□2234□□0	66
1.4	5.5	-	32	3884	6069	1.5	109.822	GKS14-4M□□□132C32	E84AV□□□2234□□0	74
1.4	5.5	-	32	3954	6178	1.6	109.896	GKS14-3M□□□132C32	E84AV□□□2234□□0	66
1.2	5.0	-	30	4226	6603	1.5	119.493	GKS14-4M□□□132C32	E84AV□□□2234□□0	74
1.2	4.9	-	29	4455	6961	1.6	123.826	GKS14-3M□□□132C32	E84AV□□□2234□□0	66
1.1	4.5	-	26	4762	7440	1.4	134.640	GKS14-4M□□□132C32	E84AV□□□2234□□0	74
1.1	4.3	-	26	4998	7809	1.4	138.913	GKS14-3M□□□132C32	E84AV□□□2234□□0	66
0.9	3.8	-	23	5589	8733	1.2	158.039	GKS14-4M□□□132C32	E84AV□□□2234□□0	74
1.0	3.8	-	23	5631	8799	1.3	156.522	GKS14-3M□□□132C32	E84AV□□□2234□□0	66
0.8	3.4	-	20	6298	9840	1.1	178.072	GKS14-4M□□□132C32	E84AV□□□2234□□0	74
0.8	3.2	-	19	6713	10488	1.0	186.572	GKS14-3M□□□132C32	E84AV□□□2234□□0	66
0.8	3.1	-	18	6852	10707	1.0	193.754	GKS14-4M□□□132C32	E84AV□□□2234□□0	74
0.7	2.9	-	17	7563	11818	0.9	210.222	GKS14-3M□□□132C32	E84AV□□□2234□□0	66

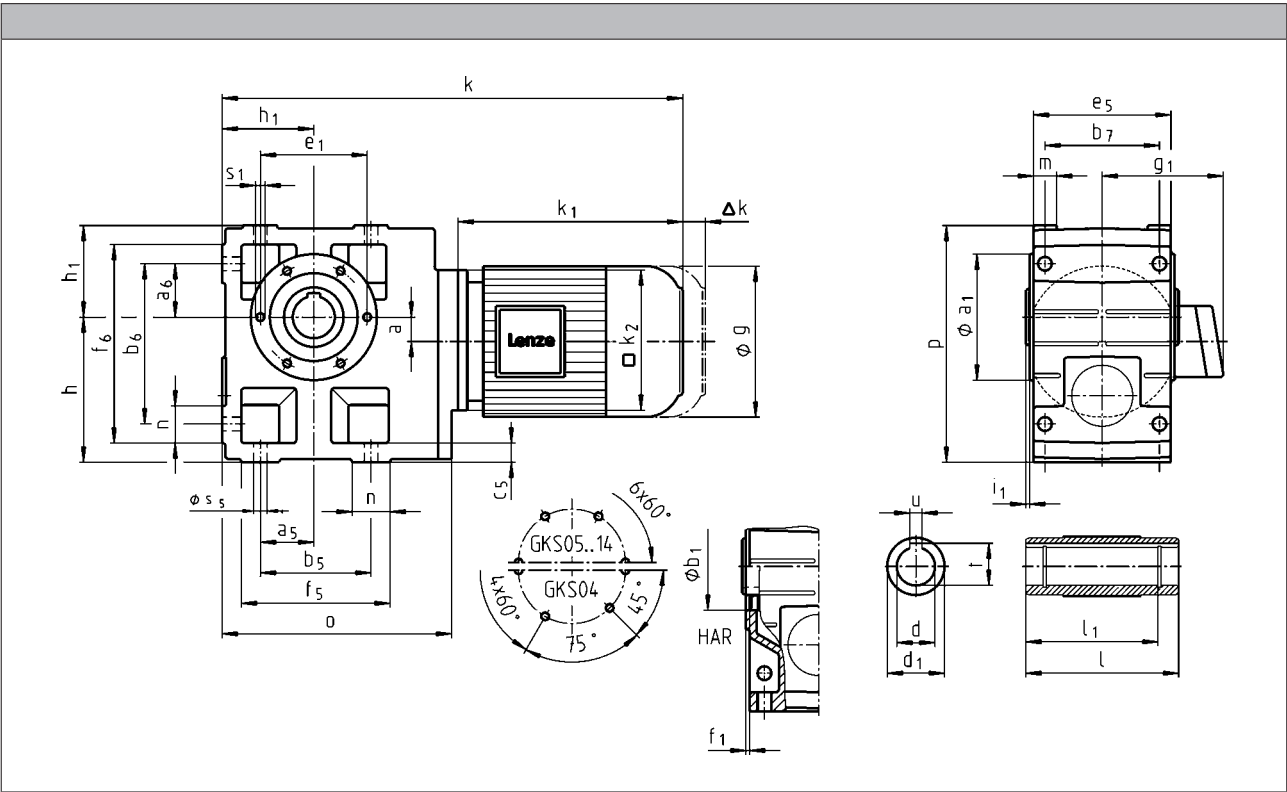
GKS helical-bevel gearbox

Technical data



Dimensions

GKS□□-3M H□R



GKS helical-bevel gearbox

Technical data



		063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
g		123	139	156	176	194	218	258	
g ₁	MFEMAXX	100	109	150	157	166	176	195	
	MFEMABR	107	118	132	137	147	158	187	
k ₁	MFEMAXX	187	207	224.5	274	324	319	403	
k ₂		120		145	180		222	265	
Δ k	MFEMABR	40	52	73	68	76	90	109.5	
	MFFMAXX		128			109	102	115	
	MFFMABR	170	165	183	181	170	183	201.5	
k									
GKS04		399	419	441					
GKS05		419	439	461	521				
GKS06		475	495	517	577	627			
GKS07				573	633	683	684	776	
GKS09					704	754	755	847	
GKS11						845	846	938	
GKS14							945	1037	

	a	h ¹⁾	h ₁	o	p ¹⁾
GKS04	20	100	71	203	171
GKS05	23	125	80	232	205
GKS06	28	150	100	291	250
GKS07	34	190	120	354	310
GKS09	41	236	150	429	386
GKS11	54	300	185	527	485
GKS14	67	375	230	636	605

	d	d ₁	l ¹⁾	l ₁	u	t	i ₁	a ₁	b ₁	e ₁	f ₁	s ₁
	H7				JS9	+0,2			H7			
GKS04	25 30	45 45	115 115	100 100	8 8	28.3 33.3	2.5 2.5	104	75	90	3	M6x12
GKS05	30 35	50 50	140 140	124 124	8 10	33.3 38.3	4 4	118	80	100	4	M8x15
GKS06	40 45	65 65	160 160	140 140	12 14	43.3 48.8	5 5	140	100	120	4	M10x16
GKS07	50 55	75 75	200 200	175 175	14 16	53.8 59.3	5 5	165	115	140	5	M12x18
GKS09	60 70	95 95	240 240	210 210	18 20	64.4 74.9	5 5	205	145	175	6	M16x24
GKS11	70 80	105 105	290 290	250 250	20 22	74.9 85.4	6 6	240	170	205	6	M20x32
GKS14	100	135	350	305	28	106.4	7	290	170	250	6	M24x35

	a ₅	a ₆	b ₅	b ₆	b ₇	c ₅	e ₅	f ₅	f ₆	m	n	s ₅
GKS04	45	45	110	119	85	14	105	132	141	21	22	9
GKS05	47.5	47.5	115	140	105	17	115	144	169	21	29	11
GKS06	60	60	155	170	120	20	145	191	206	23	36	14
GKS07	70	70	190	210	150	25	180	235	255	28	45	18
GKS09	90	90	240	266	185	30	222	300	326	37	60	22
GKS11	105	105	290	325	225	40	270	363	398	43	73	26
GKS14	135	135	360	415	275	50	328	442	497	52	82	33

¹⁾ k₂ !

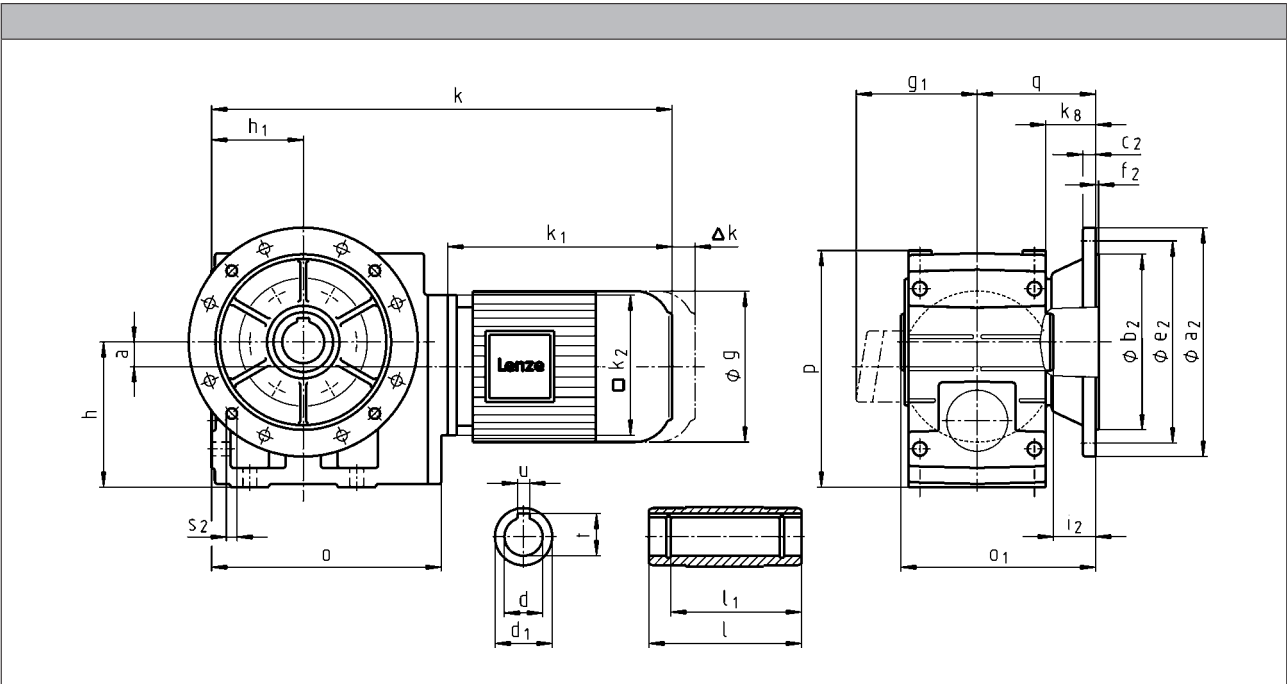
GKS helical-bevel gearbox

Technical data



Dimensions

GKS□□-3M HAK



GKS helical-bevel gearbox

Technical data



		063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
g		123	139	156	176	194	218	258	
g ₁	MFEMAXX	100	109	150	157	166	176	195	
	MFEMABR	107	118	132	137	147	158	187	
k ₁	MFEMAXX	187	207	224.5	274	324	319	403	
k ₂		120		145	180		222	265	
Δ k	MFEMABR	40	52	73	68	76	90	109.5	
	MFFMAXX		128			109	102	115	
	MFFMABR	170	165	183	181	170	183	201.5	
k									
GKS04		399	419	441					
GKS05		419	439	461	521				
GKS06		475	495	517	577	627			
GKS07				573	633	683	684	776	
GKS09					704	754	755	847	
GKS11						845	846	938	
GKS14							945	1037	

	a	h ¹⁾	h ₁	k _g	o	p ¹⁾	q
GKS04	20	100	71	38.5	203	171	91
GKS05	23	125	80	40	232	205	103.5
GKS06	28	150	100	49	291	250	121.5
GKS07	34	190	120	65.5	354	310	155.5
GKS09	41	236	150	69.5	429	386	180.5
GKS11	54	300	185	70.5	527	485	205.5
GKS14	67	375	230	71.5	636	605	235.5

	d	d ₁	l	l ₁	u	t	i ₂	o ₁ ¹⁾	a ₂	b ₂	c ₂	e ₂	f ₂	s ₂
	H7				JS9	+0,2				j7				
GKS04	25	45	115	100	8	28.3	33.5	148.5	160	110	10	130	3.5	4 x 9
	30	45	115	100	8	33.3	33.5	148.5						
GKS05	30	50	140	124	8	33.3	33	173.5	200	130	12	165	4	4 x 11
	35	50	140	124	10	38.3	33	173.5						
GKS06	40	65	160	140	12	43.3	42	201.5	200	180	12	165	3.5	4 x 11
	45	65	160	140	14	48.8	41	201.5	250	130	15	215	4	4 x 14
GKS07	50	75	200	175	14	53.8	55	255.5	250	180	15	215	4	4 x 14
	55	75	200	175	16	59.3	55	255.5	300	230	17	265	4	4 x 14
GKS09	60	95	240	210	18	64.4	60	300.5	350	250	18	300	4	4 x 17.5
	70	95	240	210	20	74.9	60	300.5						
GKS11	70	105	290	250	20	74.9	60	350.5	400	300	20	350	5	4 x 17.5
	80	105	290	250	22	85.4	60	350.5	450	350	22	400	5	8 x 17.5
GKS14	100	135	350	305	28	106.4	60	410.5	450	350	22	400	5	8 x 18.5

¹⁾ k₂ !

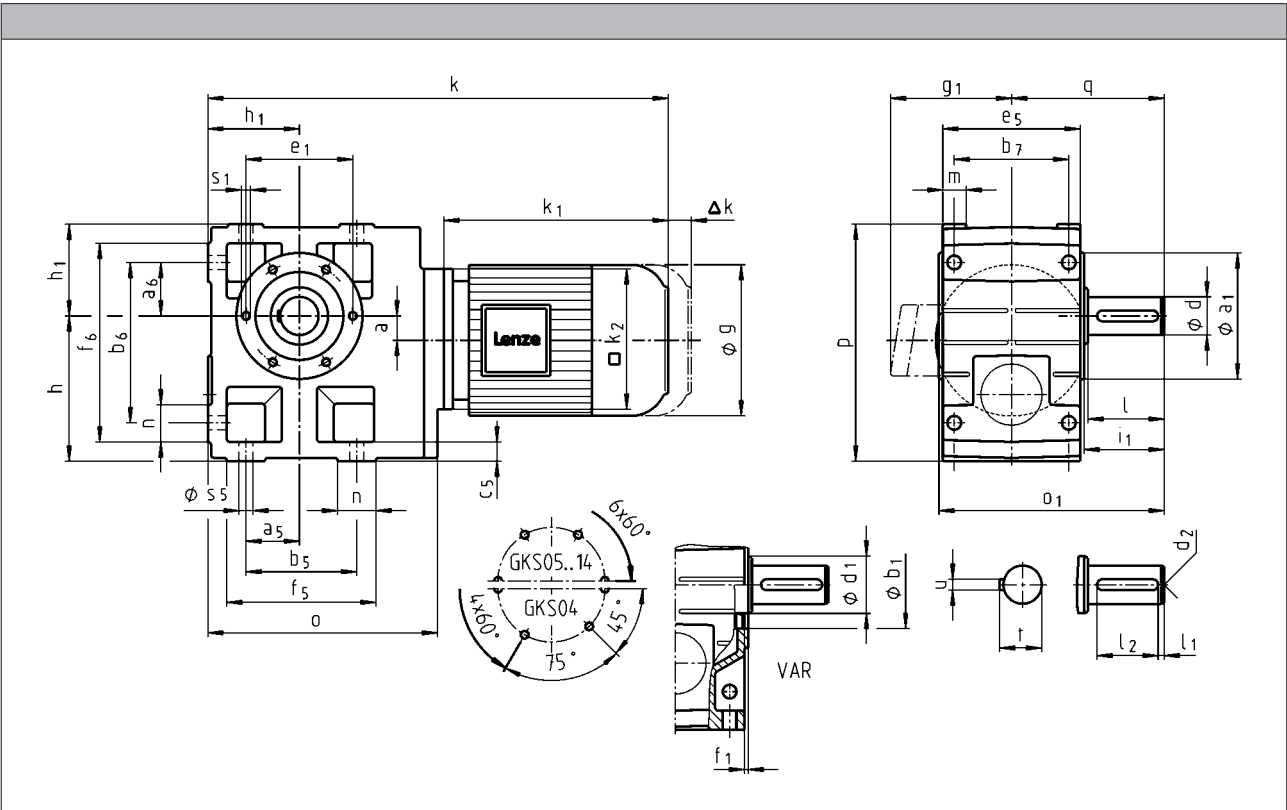
GKS helical-bevel gearbox

Technical data



Dimensions

GKS□□-3M V□R



GKS helical-bevel gearbox

Technical data



		063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
g		123	139	156	176	194	218	258	
g ₁	MFEMAXX	100	109	150	157	166	176	195	
	MFEMABR	107	118	132	137	147	158	187	
k ₁	MFEMAXX	187	207	224.5	274	324	319	403	
k ₂		120		145	180		222	265	
Δ k	MFEMABR	40	52	73	68	76	90	109.5	
	MFFMAXX		128			109	102	115	
	MFFMABR	170	165	183	181	170	183	201.5	
k									
GKS04		399	419	441					
GKS05		419	439	461	521				
GKS06		475	495	517	577	627			
GKS07				573	633	683	684	776	
GKS09					704	754	755	847	
GKS11						845	846	938	
GKS14							945	1037	

	a	h ¹⁾	h ₁	o	p ¹⁾	q
GKS04	20	100	71	203	171	107.5
GKS05	23	125	80	232	205	130
GKS06	28	150	100	291	250	160
GKS07	34	190	120	354	310	200
GKS09	41	236	150	429	386	240
GKS11	54	300	185	527	485	305
GKS14	67	375	230	636	605	375

	d k6	d m6	d ₁	d ₂	l	l ₁	l ₂	u	t	i ₁	o ₁ ¹⁾	a ₁	b ₁ H7	e ₁	f ₁	s ₁
GKS04	25		45	M10	50	6	40	8	28	52.5	162.5	104	75	90	3	M6x12
GKS05	30		45	M10	60	6	45	8	33	64	196.5	118	80	100	4	M8x15
GKS06	40		65	M16	80	7	63	12	43	85	235.5	140	100	120	4	M10x16
GKS07	50		75	M16	100	8	80	14	53.5	105	295.5	165	115	140	5	M12x18
GKS09		60	95	M20	120	8	100	18	64	125	355.5	205	145	175	6	M16x24
GKS11		80	105	M20	160	15	125	22	85	166	444.5	240	170	205	6	M20x32
GKS14		100	135	M24	200	18	160	28	106	207	543.5	290	170	250	6	M24x35

	a ₅	a ₆	b ₅	b ₆	b ₇	c ₅	e ₅	f ₅	f ₆	m	n	s ₅
GKS04	45	45	110	119	85	14	105	132	141	21	22	9
GKS05	47.5	47.5	115	140	105	17	115	144	169	21	29	11
GKS06	60	60	155	170	120	20	145	191	206	23	36	14
GKS07	70	70	190	210	150	25	180	235	255	28	45	18
GKS09	90	90	240	266	185	30	222	300	326	37	60	22
GKS11	105	105	290	325	225	40	270	363	398	43	73	26
GKS14	135	135	360	415	275	50	328	442	497	52	82	33

¹⁾ k₂ !

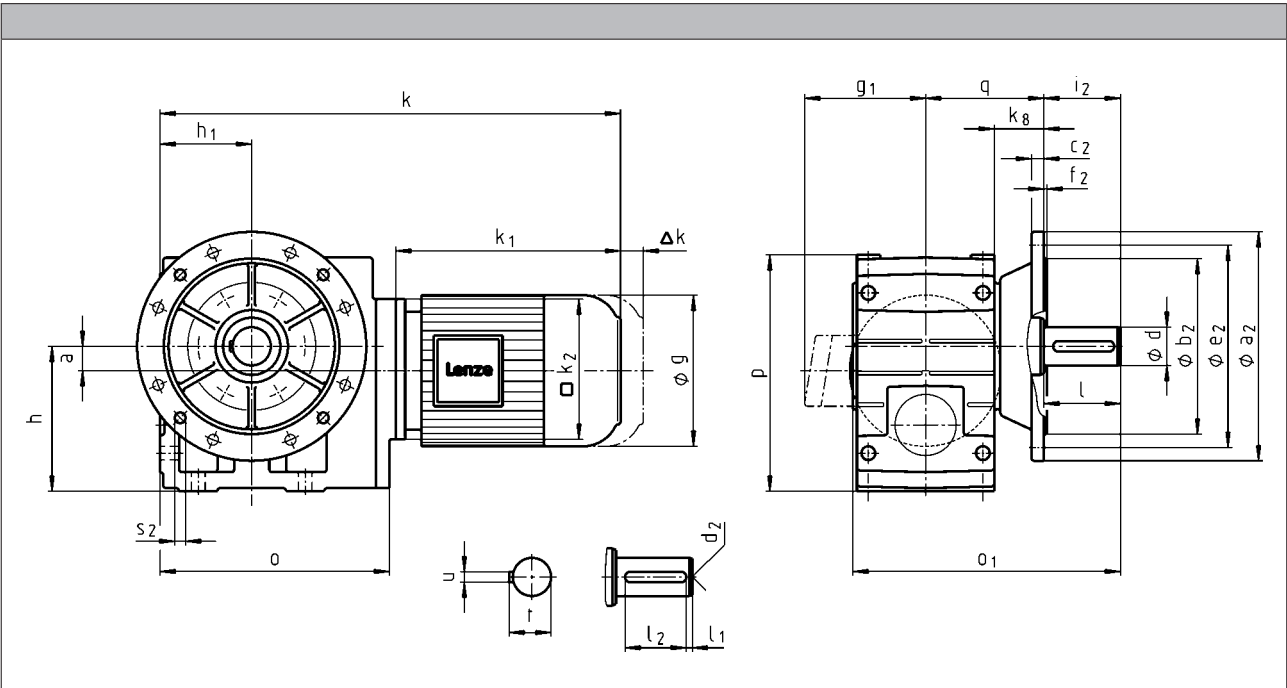
GKS helical-bevel gearbox

Technical data



Dimensions

GKS□□-3M VAK



GKS helical-bevel gearbox

Technical data



		063C32 063C42	071C32 071C42	080C32 080C42	090C32	100C12 100C32	112C22	132C12 132C22	132C32
g		123	139	156	176	194	218	258	
g ₁	MFEMAXX	100	109	150	157	166	176	195	
	MFEMABR	107	118	132	137	147	158	187	
k ₁	MFEMAXX	187	207	224.5	274	324	319	403	
k ₂		120		145	180		222	265	
Δ k	MFEMABR	40	52	73	68	76	90	109.5	
	MFFMAXX		128			109	102	115	
	MFFMABR	170	165	183	181	170	183	201.5	
k									
GKS04		399	419	441					
GKS05		419	439	461	521				
GKS06		475	495	517	577	627			
GKS07				573	633	683	684	776	
GKS09					704	754	755	847	
GKS11						845	846	938	
GKS14							945	1037	

	a	h ¹⁾	h ₁	k _g	o	p ¹⁾	q
GKS04	20	100	71	38.5	203	171	91
GKS05	23	125	80	40	232	205	103.5
GKS06	28	150	100	49	291	250	121.5
GKS07	34	190	120	65.5	354	310	155.5
GKS09	41	236	150	69.5	429	386	180.5
GKS11	54	300	185	70.5	527	485	205.5
GKS14	67	375	230	71.5	636	605	235.5

	d	d	d ₂	l	l ₁	l ₂	u	t	i ₂	o ₁ ¹⁾	a ₂	b ₂	c ₂	e ₂	f ₂	s ₂
	k6	m6										j7				
GKS04	25		M10	50	6	40	8	28	50	195.5	160	110	10	130	3.5	4 x 9
GKS05	30		M10	60	6	45	8	33	60	229.5	200	130	12	165	4	4 x 11
GKS06	40		M16	80	7	63	12	43	80	276.5	250	180	15	215	4	4 x 14
GKS07	50		M16	100	8	80	14	53.5	100	350.5	250 300	180 230	15 17	215 265	4 4	4 x 14 4 x 14
GKS09		60	M20	120	8	100	18	64	120	415.5	350	250	18	300	4	4 x 17.5
GKS11		80	M20	160	15	125	22	85	160	504.5	400 450	300 350	20 22	350 400	5 5	4 x 17.5 8 x 17.5
GKS14		100	M24	200	18	160	28	106	200	603.5	450	350	22	400	5	8 x 18.5

¹⁾ k₂ !

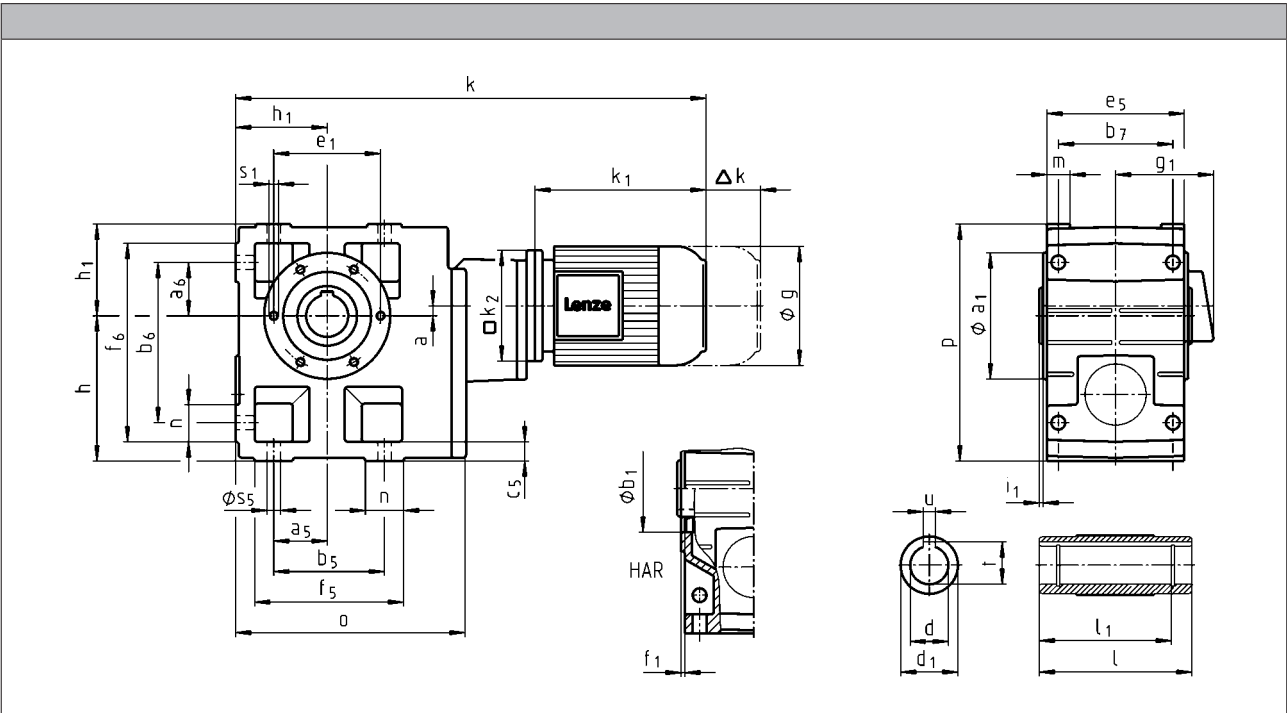
GKS helical-bevel gearbox

Technical data



Dimensions

GKS□□-4M H□R



		063C32 063C42	071C32 071C42	080C32	080C42
g		123	139	156	
g ₁	MFEMAXX	100	109	150	
	MFEMABR	107	118	132	
k ₁	MFEMAXX	187	207	224.5	
k ₂		120		145	
Δ k	MFEMABR	40	52	73	
	MFFMAXX		128		
	MFFMABR	170	165	183	
		k			
GKS05		495			
GKS06		568	588	611	
GKS07		635	655	678	
GKS09		724	744	767	
GKS11				877	

GKS helical-bevel gearbox

Technical data



		090C32	100C12 100C32	112C22	132C12 132C22	132C32
g		176	194	218	258	
g ₁	MFEMAXX	157	166	176	195	
	MFEMABR	137	147	158	187	
k ₁	MFEMAXX	274	324	319	403	
k ₂		180		222	265	
Δ k	MFEMABR	68	76	90	109.5	
	MFFMAXX	128	109	102	115	
	MFFMABR	181	170	183	201.5	
		k				
GKS07		737				
GKS09		826	876	877		
GKS11		936	986	987	1079	
GKS14		1069	1119	1120	1212	

	a	h	h ₁	o	p
GKS05	13	125	80	226	205
GKS06	8	150	100	288	250
GKS07	11	190	120	350.5	310
GKS09	15	236	150	426	386
GKS11	16	300	185	523	485
GKS14	22	375	230	632	605

	d	d ₁	l	l ₁	u	t	i ₁	a ₁	b ₁	e ₁	f ₁	s ₁
	H7				JS9	+0,2			H7			
GKS05	30	50	140	124	8	33.3	4	118	80	100	4	M8x15
	35	50	140	124	10	38.3	4					
GKS06	40	65	160	140	12	43.3	5	140	100	120	4	M10x16
	45	65	160	140	14	48.8	5					
GKS07	50	75	200	175	14	53.8	5	165	115	140	5	M12x18
	55	75	200	175	16	59.3	5					
GKS09	60	95	240	210	18	64.4	5	205	145	175	6	M16x24
	70	95	240	210	20	74.9	5					
GKS11	70	105	290	250	20	74.9	6	240	170	205	6	M20x32
	80	105	290	250	22	85.4	6					
GKS14	100	135	350	305	28	106.4	7	290	170	250	6	M24x35

	a ₅	a ₆	b ₅	b ₆	b ₇	c ₅	e ₅	f ₅	f ₆	m	n	s ₅
GKS05	47.5	47.5	115	140	105	17	115	144	169	21	29	11
GKS06	60	60	155	170	120	20	145	191	206	23	36	14
GKS07	70	70	190	210	150	25	180	235	255	28	45	18
GKS09	90	90	240	266	185	30	222	300	326	37	60	22
GKS11	105	105	290	325	225	40	270	363	398	43	73	26
GKS14	135	135	360	415	275	50	328	442	497	52	82	33

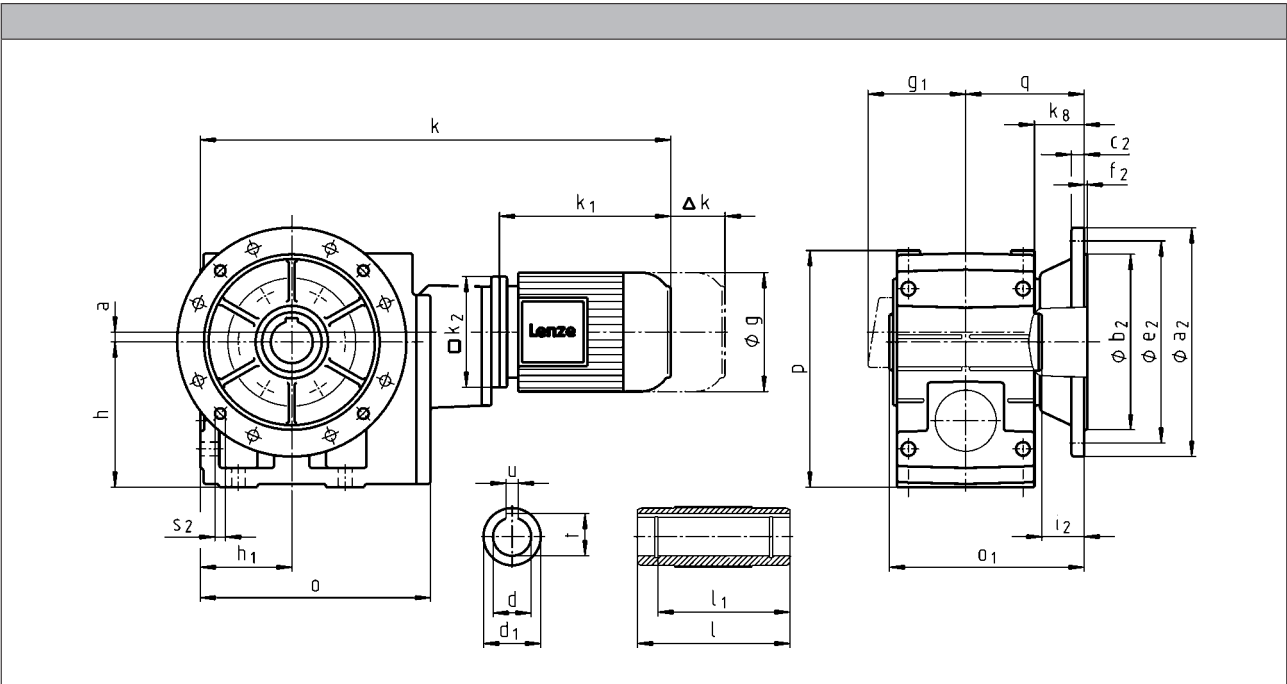
GKS helical-bevel gearbox

Technical data



Dimensions

GKS□□-4M HAK



		063C32 063C42	071C32 071C42	080C32	080C42
g		123	139	156	
g ₁	MFEMAXX	100	109	150	
	MFEMABR	107	118	132	
k ₁	MFEMAXX	187	207	224.5	
k ₂		120		145	
Δ k	MFEMABR	40	52	73	
	MFFMAXX	128			
	MFFMABR	170	165	183	
		k			
GKS05		495			
GKS06		568	588	611	
GKS07		635	655	678	
GKS09		724	744	767	
GKS11				877	

GKS helical-bevel gearbox

Technical data



		090C32	100C12 100C32	112C22	132C12 132C22	132C32
g		176	194	218	258	
g ₁	MFEMAXX	157	166	176	195	
	MFEMABR	137	147	158	187	
k ₁	MFEMAXX	274	324	319	403	
k ₂		180		222	265	
Δ k	MFEMABR	68	76	90	109.5	
	MFFMAXX	128	109	102	115	
	MFFMABR	181	170	183	201.5	
		k				
GKS07		737				
GKS09		826	876	877		
GKS11		936	986	987	1079	
GKS14		1069	1119	1120	1212	

	a	h	h ₁	k _g	o	p	q
GKS05	13	125	80	40	226	205	103.5
GKS06	8	150	100	49	288	250	121.5
GKS07	11	190	120	65.5	350.5	310	155.5
GKS09	15	236	150	69.5	426	386	180.5
GKS11	16	300	185	70.5	523	485	205.5
GKS14	22	375	230	71.5	632	605	235.5

	d	d ₁	l	l ₁	u	t	i ₂	o ₁	a ₂	b ₂	c ₂	e ₂	f ₂	s ₂
	H7				JS9	+0,2				j7				
GKS05	30	50	140	124	8	33.3	33	173.5	200	130	12	165	4	4 x 11
	35	50	140	124	10	38.3	33	173.5						
GKS06	40	65	160	140	12	43.3	42	201.5	200	180	12	165	3.5	4 x 11
	45	65	160	140	14	48.8	41	201.5	250	130	15	215	4	4 x 14
GKS07	50	75	200	175	14	53.8	55	255.5	250	180	15	215	4	4 x 14
	55	75	200	175	16	59.3	55	255.5	300	230	17	265	4	4 x 14
GKS09	60	95	240	210	18	64.4	60	300.5	350	250	18	300	4	4 x 17.5
	70	95	240	210	20	74.9	60	300.5						
GKS11	70	105	290	250	20	74.9	60	350.5	400	300	20	350	5	4 x 17.5
	80	105	290	250	22	85.4	60	350.5	450	350	22	400	5	8 x 17.5
GKS14	100	135	350	305	28	106.4	60	410.5	450	350	22	400	5	8 x 18.5

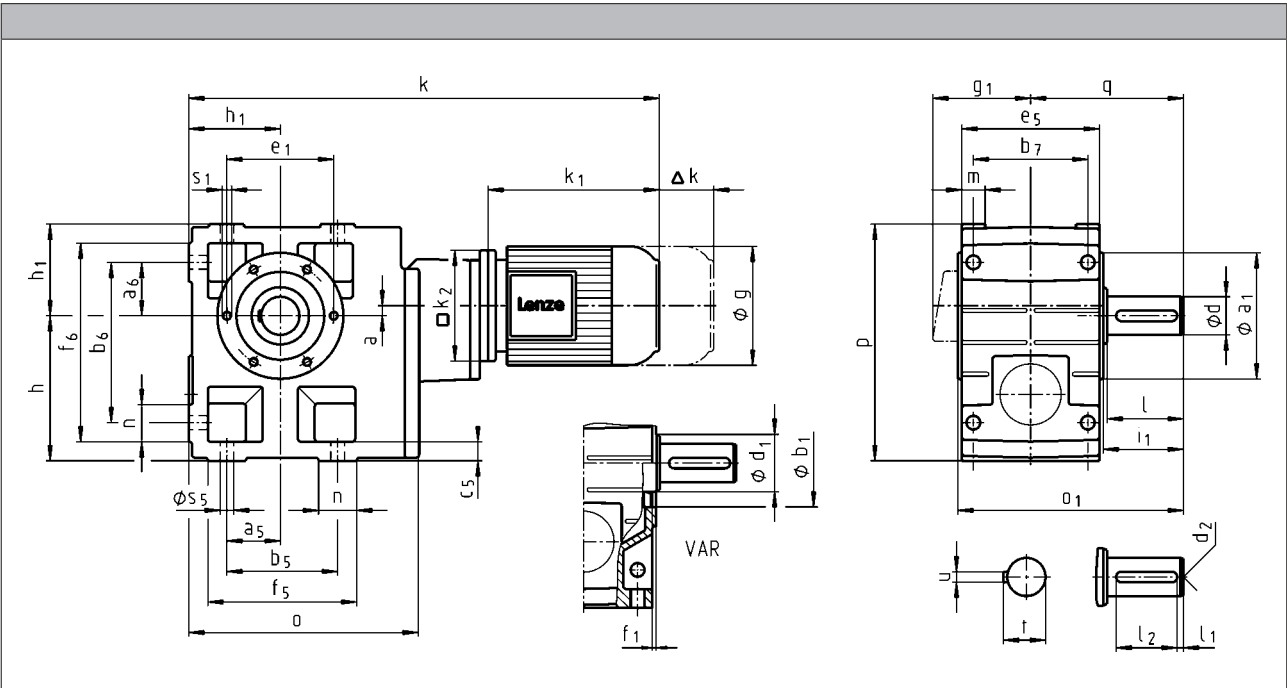
GKS helical-bevel gearbox

Technical data



Dimensions

GKS□□-4M V□R



		063C32 063C42	071C32 071C42	080C32	080C42
g		123	139		156
g ₁	MFEMAXX	100	109		150
	MFEMABR	107	118		132
k ₁	MFEMAXX	187	207		224.5
k ₂		120			145
Δ k	MFEMABR	40	52		73
	MFFMAXX			128	
	MFFMABR	170	165		183
k					
GKS05		495			
GKS06		568	588	611	
GKS07		635	655		678
GKS09		724	744		767
GKS11					877

GKS helical-bevel gearbox

Technical data



		090C32	100C12 100C32	112C22	132C12 132C22	132C32
g		176	194	218	258	
g ₁	MFEMAXX	157	166	176	195	
	MFEMABR	137	147	158	187	
k ₁	MFEMAXX	274	324	319	403	
k ₂		180		222	265	
Δ k	MFEMABR	68	76	90	109.5	
	MFFMAXX	128	109	102	115	
	MFFMABR	181	170	183	201.5	
		k				
GKS07		737				
GKS09		826	876	877		
GKS11		936	986	987	1079	
GKS14		1069	1119	1120	1212	

	a	h	h ₁	o	p	q
GKS05	13	125	80	226	205	130
GKS06	8	150	100	288	250	160
GKS07	11	190	120	350.5	310	200
GKS09	15	236	150	426	386	240
GKS11	16	300	185	523	485	305
GKS14	22	375	230	632	605	375

	d k6	d m6	d ₁	d ₂	l	l ₁	l ₂	u	t	i ₁	o ₁	a ₁	b ₁ H7	e ₁	f ₁	s ₁
GKS05	30		45	M10	60	6	45	8	33	64	196.5	118	80	100	4	M8x15
GKS06	40		65	M16	80	7	63	12	43	85	235.5	140	100	120	4	M10x16
GKS07	50		75	M16	100	8	80	14	53.5	105	295.5	165	115	140	5	M12x18
GKS09		60	95	M20	120	8	100	18	64	125	355.5	205	145	175	6	M16x24
GKS11		80	105	M20	160	15	125	22	85	166	444.5	240	170	205	6	M20x32
GKS14		100	135	M24	200	18	160	28	106	207	543.5	290	170	250	6	M24x35

	a ₅	a ₆	b ₅	b ₆	b ₇	c ₅	e ₅	f ₅	f ₆	m	n	s ₅
GKS05	47.5	47.5	115	140	105	17	115	144	169	21	29	11
GKS06	60	60	155	170	120	20	145	191	206	23	36	14
GKS07	70	70	190	210	150	25	180	235	255	28	45	18
GKS09	90	90	240	266	185	30	222	300	326	37	60	22
GKS11	105	105	290	325	225	40	270	363	398	43	73	26
GKS14	135	135	360	415	275	50	328	442	497	52	82	33

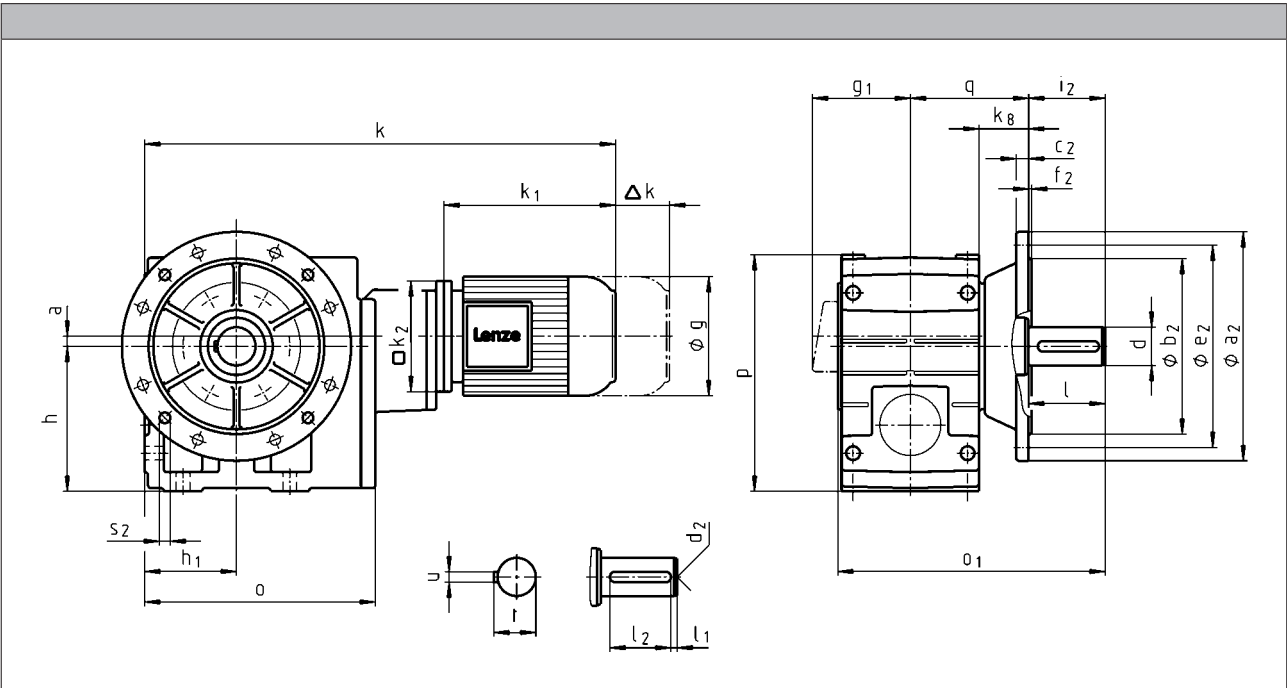
GKS helical-bevel gearbox

Technical data



Dimensions

GKS□□-4M VAK



		063C32 063C42	071C32 071C42	080C32	080C42
g		123	139		156
g ₁	MFEMAXX	100	109		150
	MFEMABR	107	118		132
k ₁	MFEMAXX	187	207		224.5
k ₂		120			145
Δk	MFEMABR	40	52		73
	MFFMAXX		128		
	MFFMABR	170	165		183
k					
GKS05		495			
GKS06		568	588	611	
GKS07		635	655		678
GKS09		724	744		767
GKS11					877

GKS helical-bevel gearbox

Technical data



		090C32	100C12 100C32	112C22	132C12 132C22	132C32
g		176	194	218	258	
g ₁	MFEMAXX	157	166	176	195	
	MFEMABR	137	147	158	187	
k ₁	MFEMAXX	274	324	319	403	
k ₂		180		222	265	
Δ k	MFEMABR	68	76	90	109.5	
	MFEMAXX	128	109	102	115	
	MFFMABR	181	170	183	201.5	
		k				
GKS07		737				
GKS09		826	876	877		
GKS11		936	986	987	1079	
GKS14		1069	1119	1120	1212	

	a	h	h ₁	k _g	o	p	q
GKS05	13	125	80	40	226	205	103.5
GKS06	8	150	100	49	288	250	121.5
GKS07	11	190	120	65.5	350.5	310	155.5
GKS09	15	236	150	69.5	426	386	180.5
GKS11	16	300	185	70.5	523	485	205.5
GKS14	22	375	230	71.5	632	605	235.5

	d	d	d ₂	l	l ₁	l ₂	u	t	i ₂	o ₁	a ₂	b ₂	c ₂	e ₂	f ₂	s ₂
	k6	m6										j7				
GKS05	30		M10	60	6	45	8	33	60	229.5	200	130	12	165	4	4 x 11
GKS06	40		M16	80	7	63	12	43	80	276.5	250	180	15	215	4	4 x 14
GKS07	50		M16	100	8	80	14	53.5	100	350.5	250 300	180 230	15 17	215 265	4 4	4 x 14 4 x 14
GKS09		60	M20	120	8	100	18	64	120	415.5	350	250	18	300	4	4 x 17.5
GKS11		80	M20	160	15	125	22	85	160	504.5	400 450	300 350	20 22	350 400	5 5	4 x 17.5 8 x 17.5
GKS14		100	M24	200	18	160	28	106	200	603.5	450	350	22	400	5	8 x 18.5

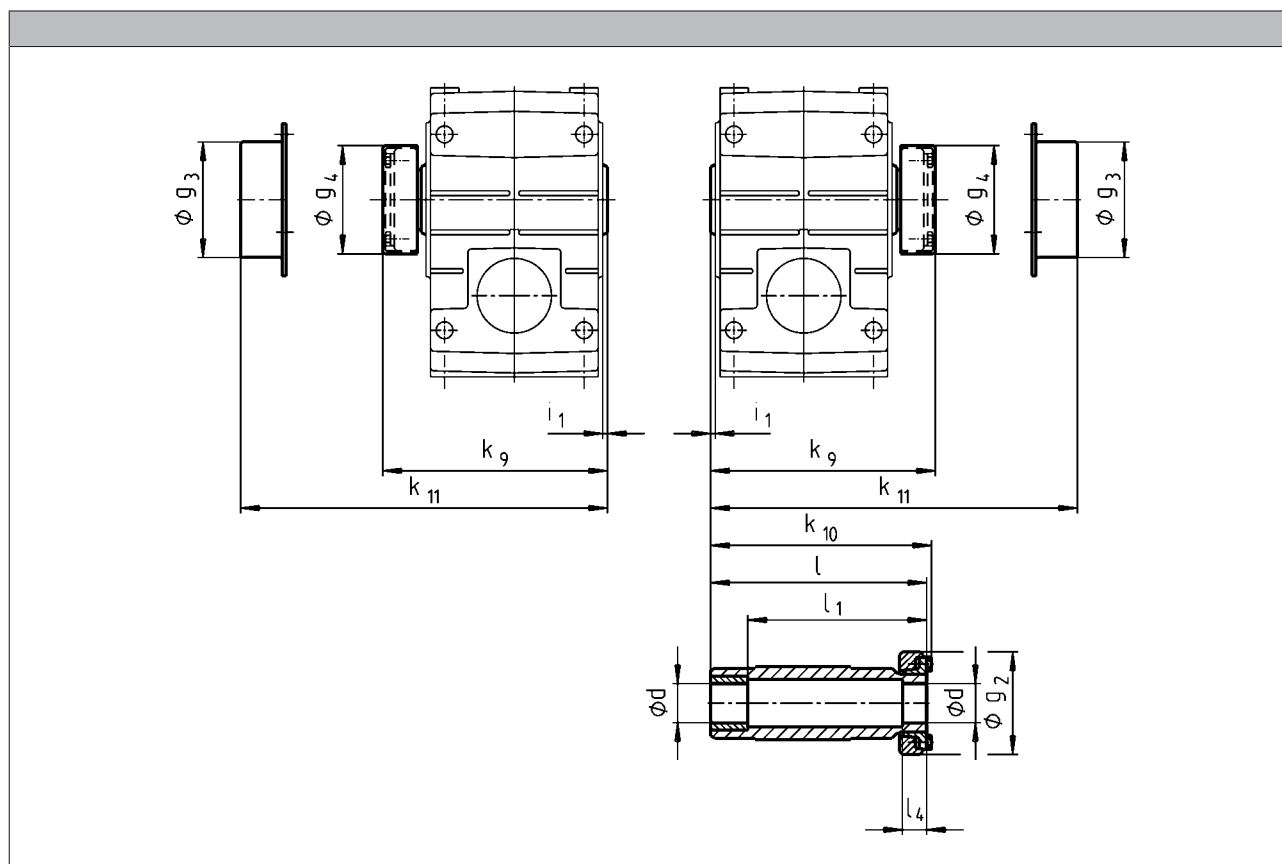
GKS helical-bevel gearbox

Technical data





Hollow shaft with shrink disc

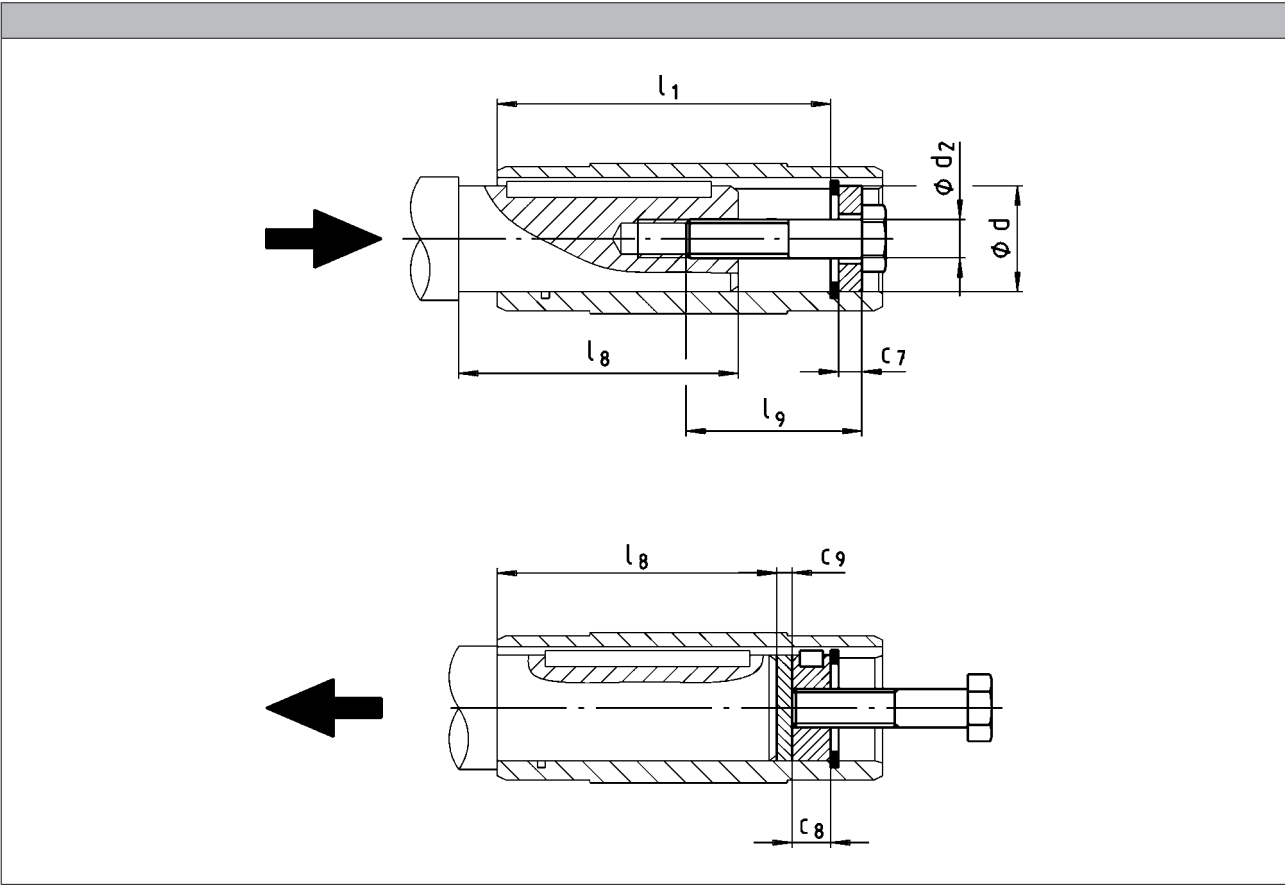


	d	g ₂	g ₃	g ₄	i ₁	k ₉	k ₁₀	k ₁₁	l	l ₁	l ₄
	h6										
GKS04	25	72	79	76	2.5	150	148	154	142	122	26
GKS05	30	80	90	84	4.0	176	174	179	168	148	28
GKS06	35	90	100	94	5.0	202	200	204	194	164	30
GKS07	40	110	124	116		241	238	244	232	192	26
GKS09	50	141	159	147		288	285	287	278	228	30
GKS11	65	170	191	176	6.0	347	344	349	338	238	42
GKS14	80	215	253	221	7.0	418	415	421	407	307	55

- Output flange and hollow shaft with shrink disc (output version SAK) are not possible in the same location. For additional dimensions see output version H□□.
- Ensure that the strength of the machine shaft material is adequate in shrink disc designs.
When using typical steels (e.g. C45, 42CrMo4), the torques listed in the selection tables can be used without restriction.
Please consult us if you wish to use material that is considerably weaker. Medium surface roughness R_z must not exceed 15 µm (turning is sufficient).



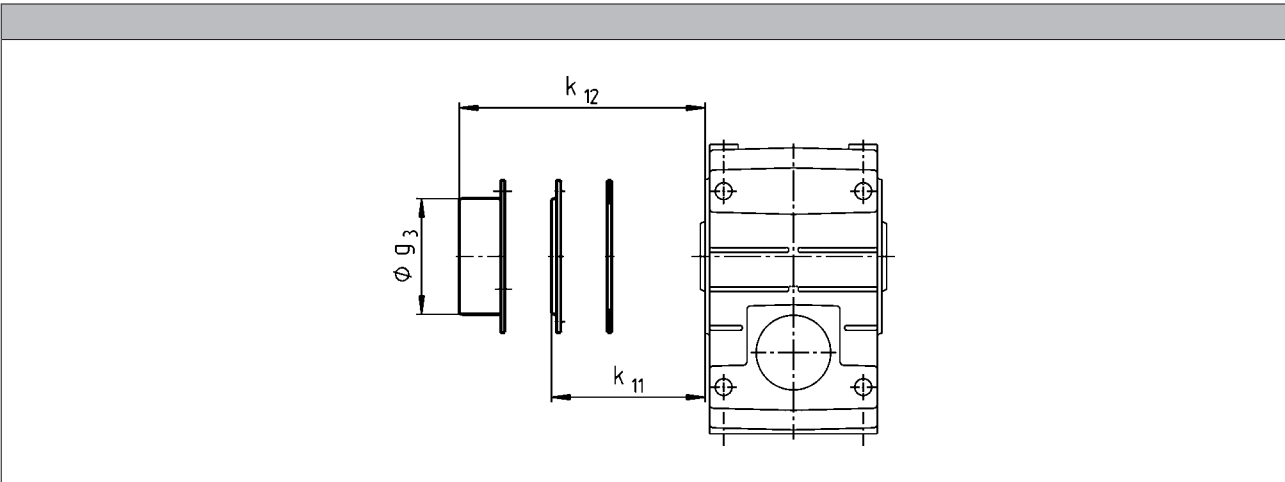
Mounting set for hollow shaft circlip:
Proposed design for auxiliary tools



	d	l ₁	d ₂	l ₉	c ₇	c ₈	c ₉	l _{g, max}
	H7							
GKS04	25 30	100	M10	40	5	10	3	85
GKS05	30 35	124			6			107
			M12	50	7	12		
GKS06	40 45	140	M16	60	8	16	4	118
					9			
GKS07	50 55	175			10			148
			M20	80	11	20	5	
GKS09	60 70	210			13			182
					14			
GKS11	70 80	250			16		6	221
GKS14	100	305	M24	100	20	24	8	270



Hoseproof hollow shaft cover



► Cover including gasket

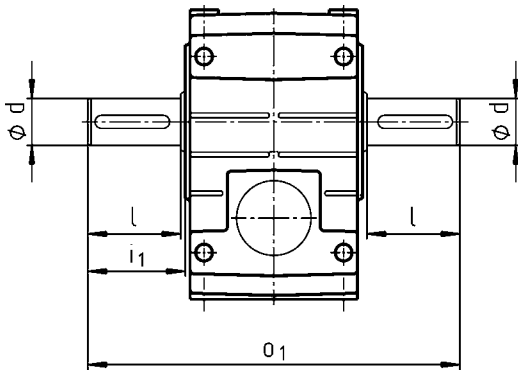
	k ₁₁	k ₁₂	g ₃
GKS04	9		
GKS05	10		
GKS06	11		
GKS07			
GKS09		54	159
GKS11		67	191
GKS14		80	253

GKS helical-bevel gearbox

Accessories



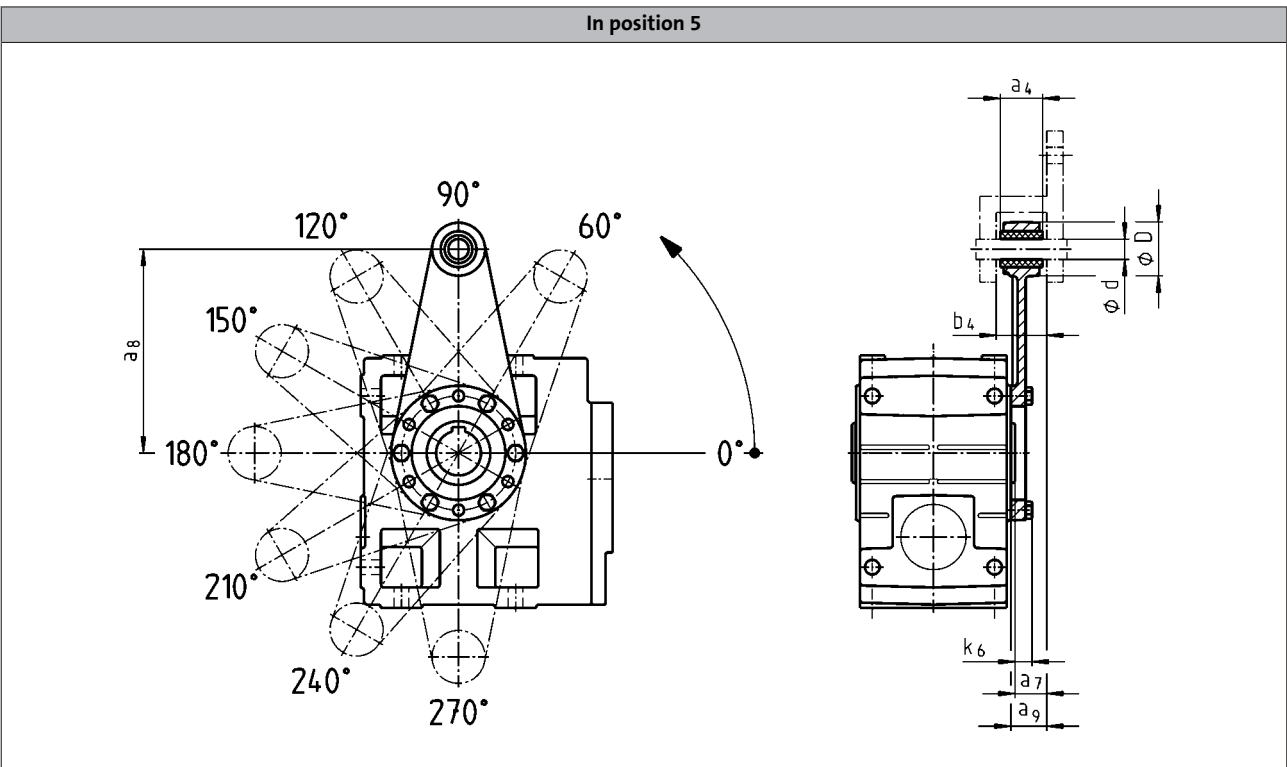
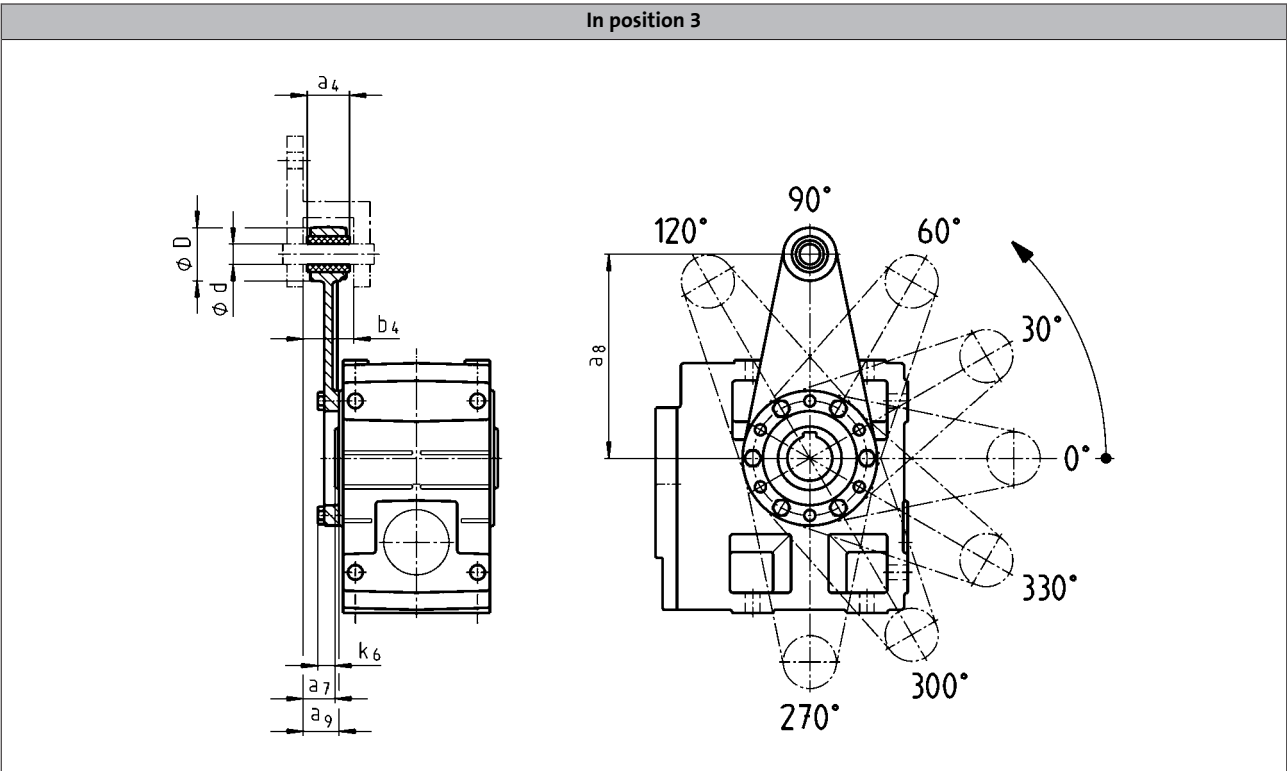
Gearbox with 2nd output shaft end



	d	d	l	i ₁	o ₁
	k6	m6			
GKS04	25		50	52.5	215
GKS05	30		60	64.0	260
GKS06	40		80	85.0	320
GKS07	50		100	105.0	400
GKS09		60	120	125.0	480
GKS11		80	160	166.0	610
GKS14		100	200	207.0	750



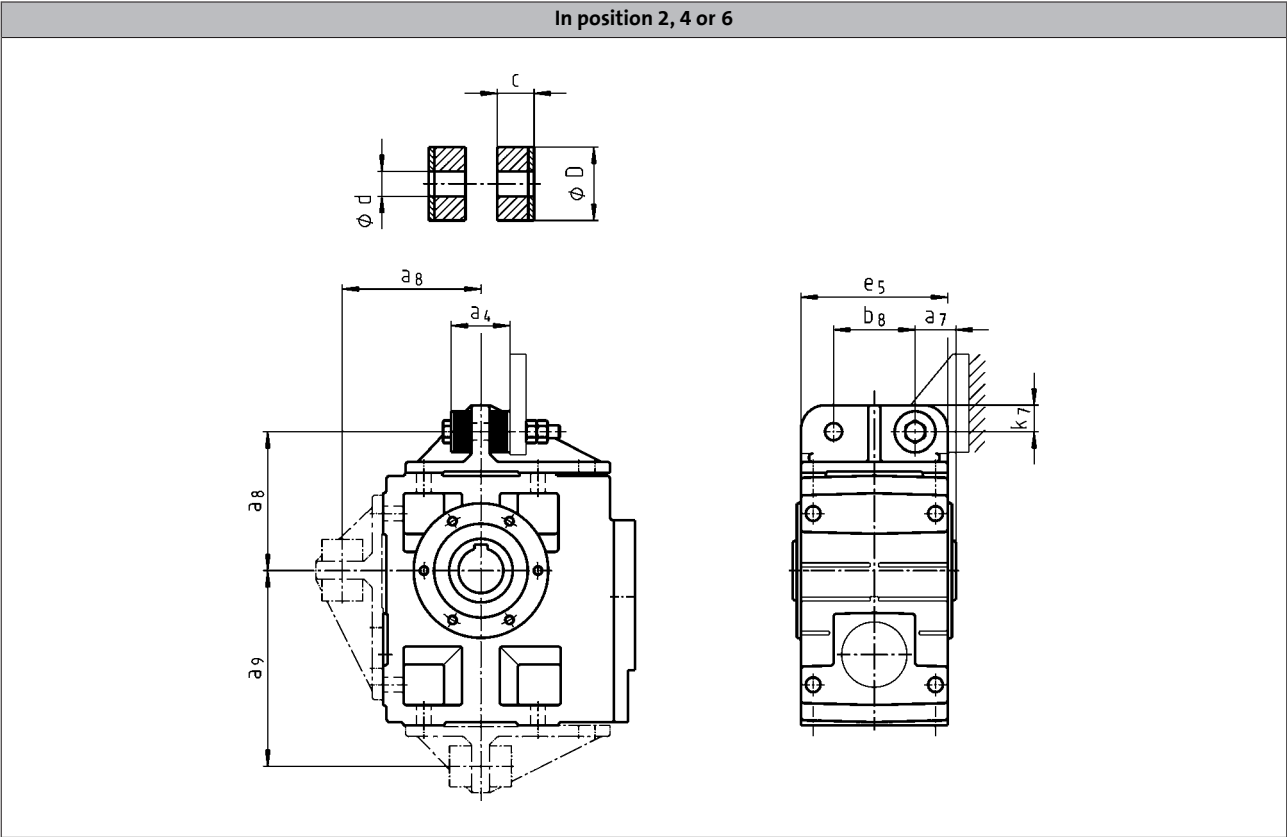
Torque plate on threaded pitch circle



	a ₄	a ₇	a ₈	a ₉	b ₄	d	D	k ₆
GKS04	30	24.0	130	26.5	34.5	12	35	16
GKS05	34	23.5	160	27.5	38.5	16	45	15
GKS06	40	28.0	200	33.0	44.5	20	50	18
GKS07	46	32.5	250	37.5	50.5	25	65	21



Torque plate at housing foot



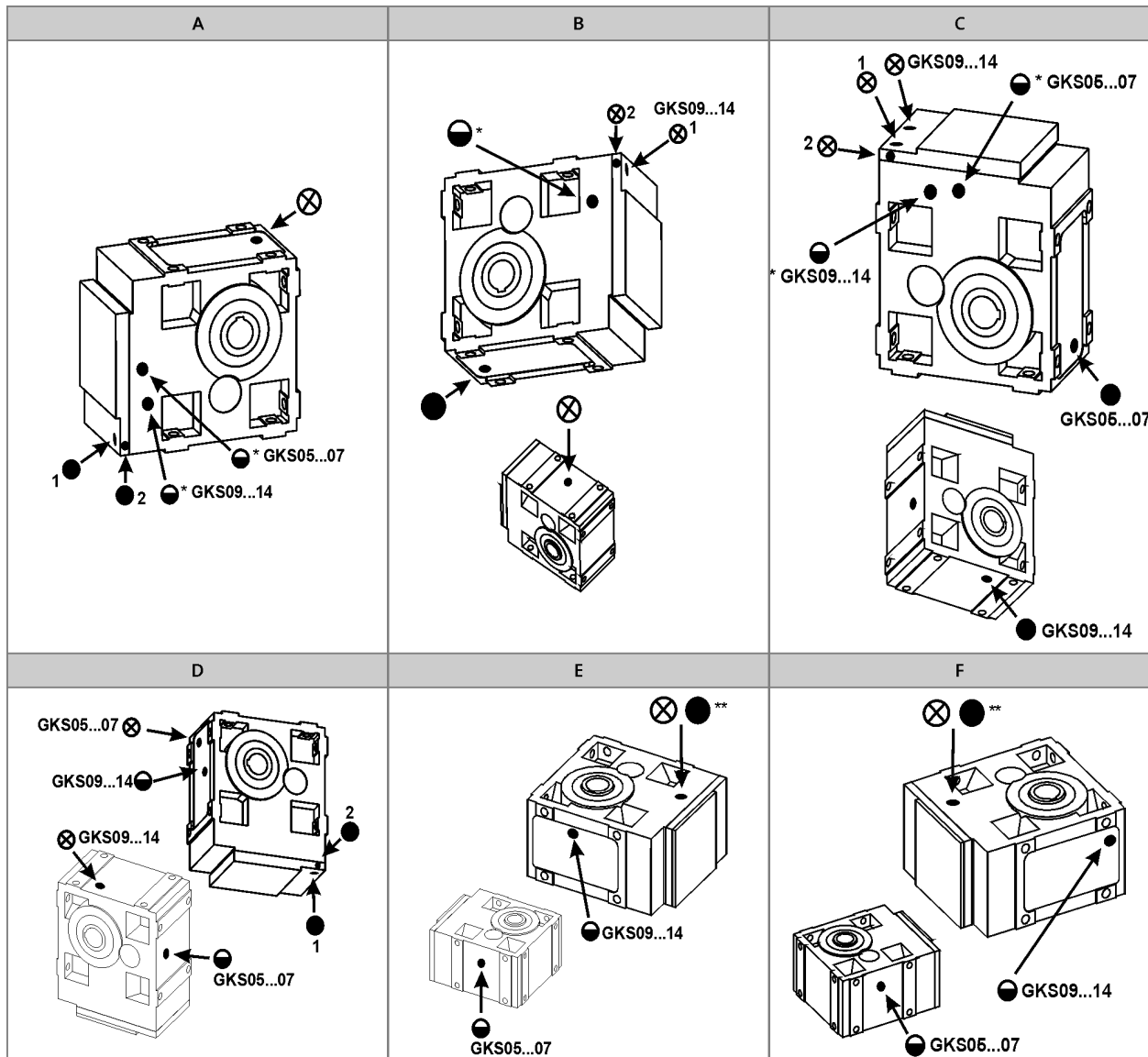
	a ₄	a ₇	a ₈	a ₉	b ₈	c	d	D	e ₅	k ₇
GKS04	41	27.5	106	135.0	60	14.5	11	30	100	20
GKS05	45	35.0	115	160.0	70	15.0	13	40	127	25
GKS06	72	40.0	145	195.0	80	27.0	17	50	145	28
GKS07	78	50.0	170	240.0	100	28.0	21	60	180	35
GKS09	86	60.0	214	300.0	120	29.0	26	72	222	46
GKS11	94	72.5	260	375.0	145	30.0	31	92	270	55
GKS14	100	85.0	320	465.0	180		39	110	328	70



Ventilations

Position of ventilation, sealing elements and oil level check

GKS05...14-3



A ... F Mounting position
 ⊗ Ventilation / Oil filler plug
 ● Oil drain plug
 ○ Oil control plug
 * On both sides
 ** On opposite side

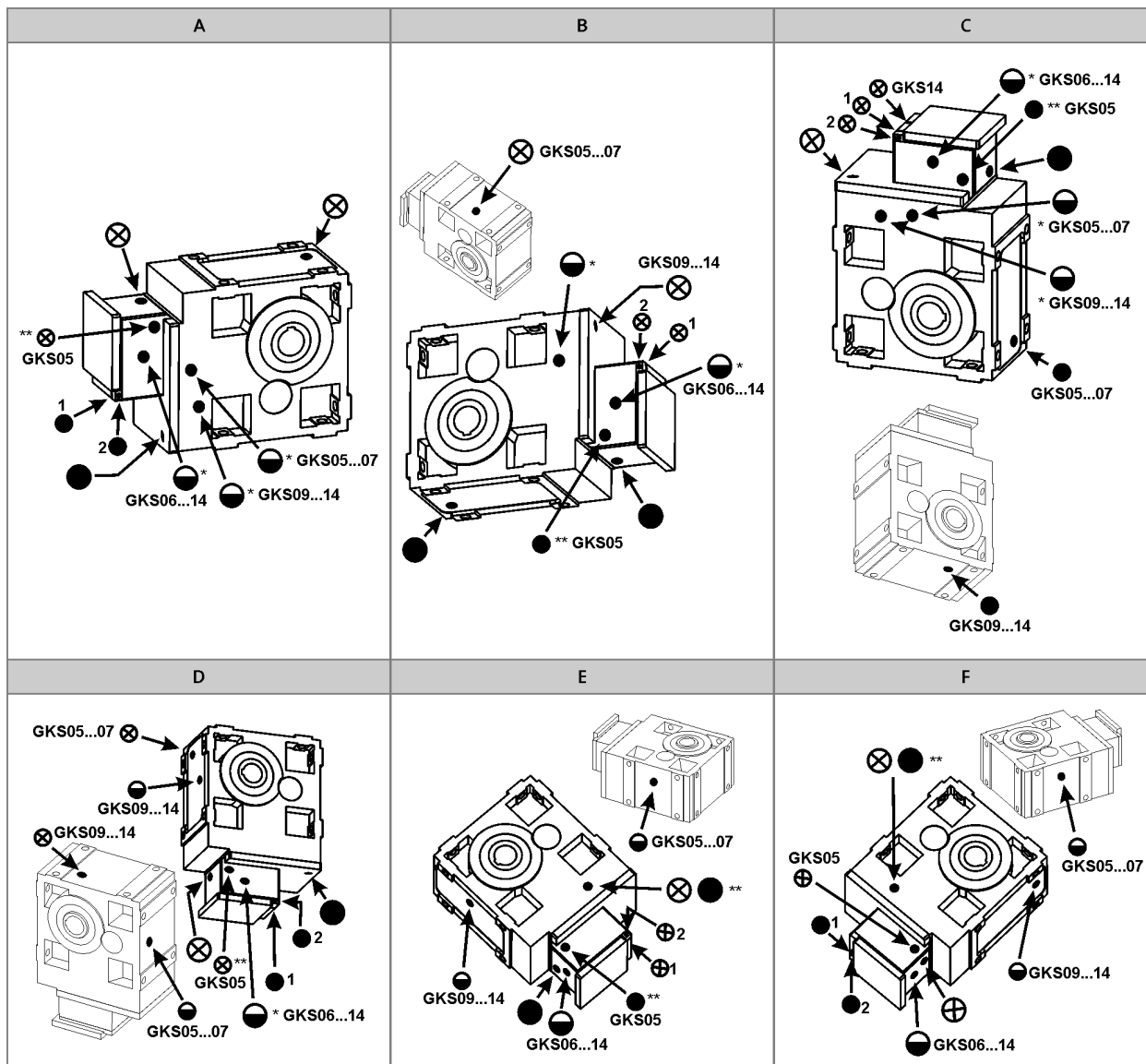
Item 1 standard
 Item 2 only with:
 • GKS05-3M □□□ 090□□
 • GKS05-3M □□□ 100□□
 • GKS06-3M □□□ 112□□
 • GKS07-3M □□□ 160□□



Ventilations

Position of ventilation, sealing elements and oil level check

GKS05...14-4



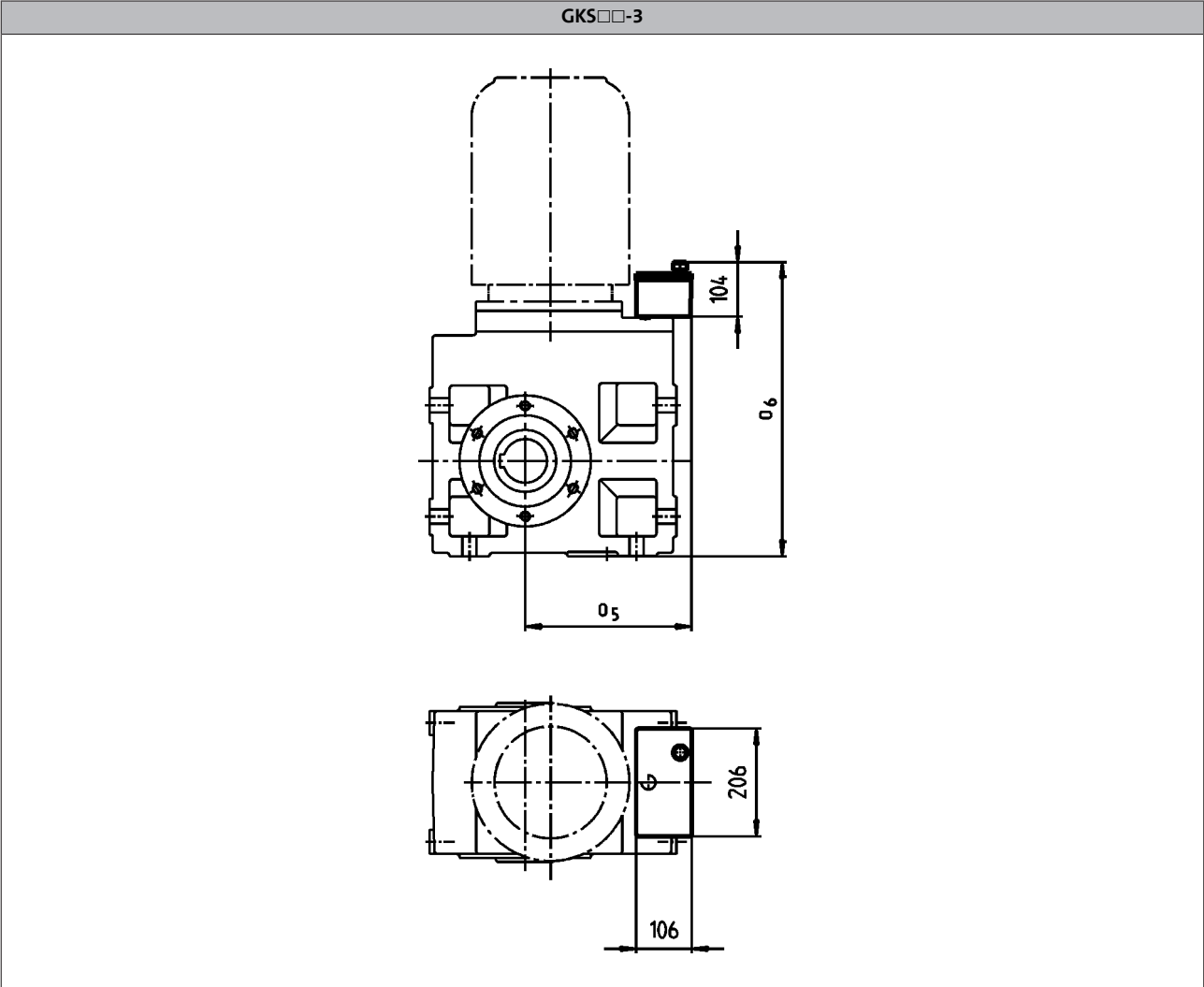
A ... F Mounting position
 ⊗ Ventilation / Oil filler plug
 ● Oil drain plug
 ⊖ Oil control plug
 * On both sides
 ** On opposite side

Item 1 standard
 Item 2 only with:
 • GKS07-4M □□□ 090□□
 • GKS07-4M □□□ 100□□
 • GKS09-4M □□□ 112□□



Ventilations

Compensation reservoir for mounting position C



Motor	090 100		112		132		160 180 225	
	O ₅ [mm]	O ₆ [mm]	O ₅ [mm]	O ₆ [mm]	O ₅ [mm]	O ₆ [mm]	O ₅ [mm]	O ₆ [mm]
GKS09	243	533	265	533	282	533	297	533
GKS11	258	626	280	630	304	630	318	630
GKS14			313	739	343	739	343	739

► Terminal box position 4 not permitted.