

Lenze



Geared motors



**G motion
const**

G motion const

414 170

Lenze

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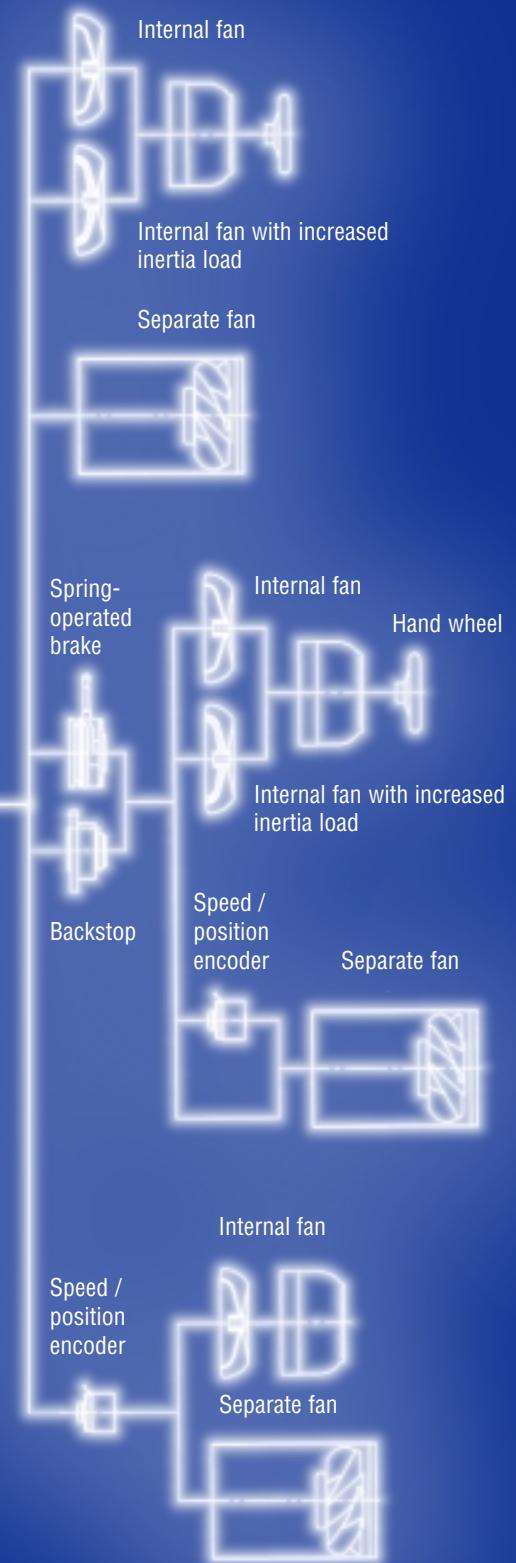
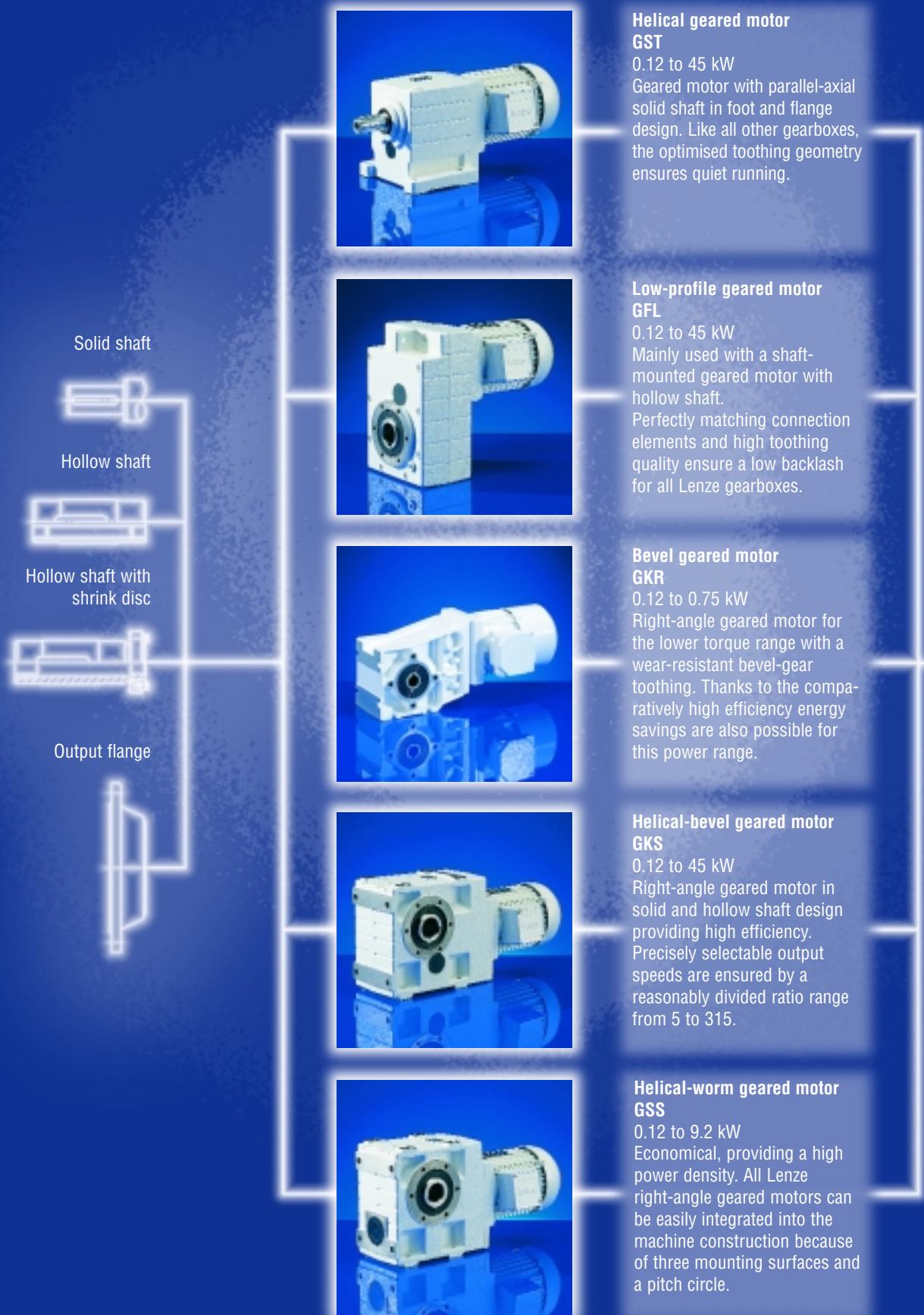
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G□□ motion const - The programme



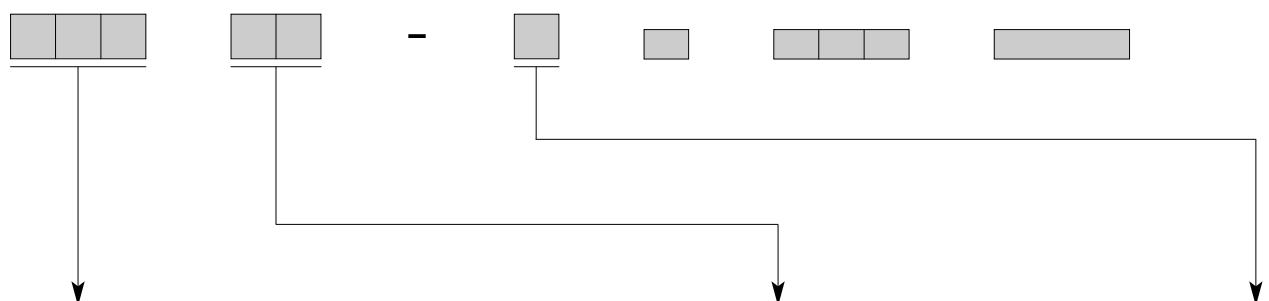
**G□□ motion
const**

Geared motors for constant output speed providing high functionality through a great variety of gearbox possibilities and motor options



Product key

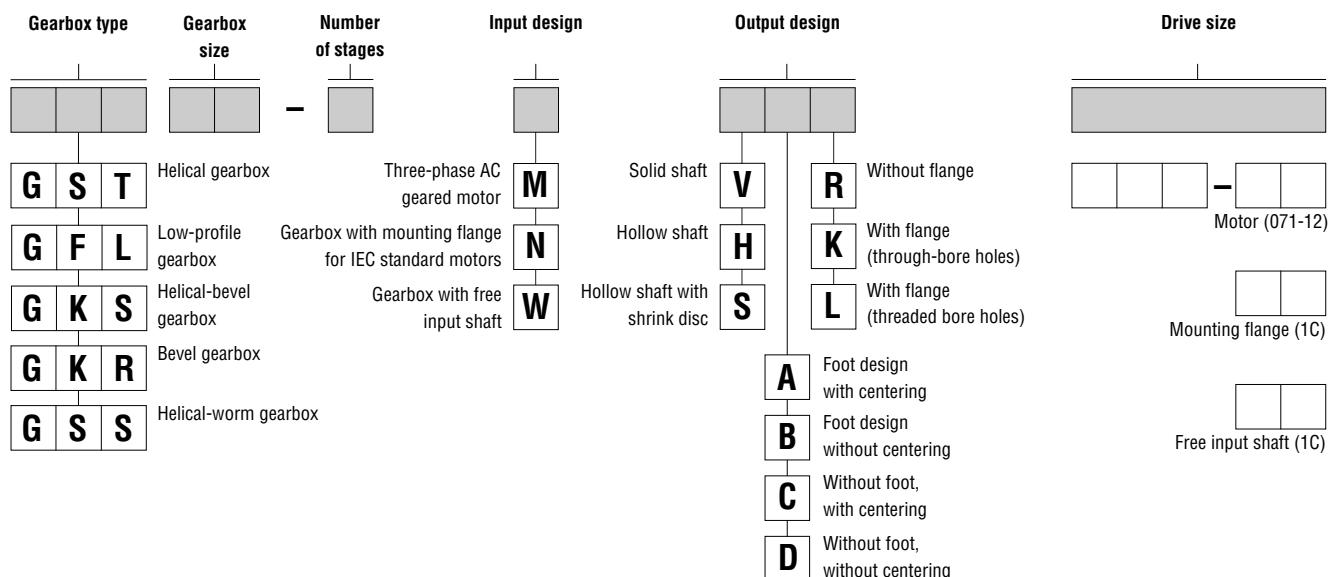
Type code



Gearbox type	04	05	06	07	09	11	14	Number of stages
GST 	•	•	•	•	•			1
	•	•	•	•	•	•	•	2
		•	•	•	•	•	•	3
GFL 	•	•	•	•	•	•	•	2
		•	•	•	•	•	•	3
GKR 	•							2
GKS 	•	•	•	•	•	•	•	3
		•	•	•	•	•	•	4
GSS 	•	•	•	•				2
		•	•	•				3

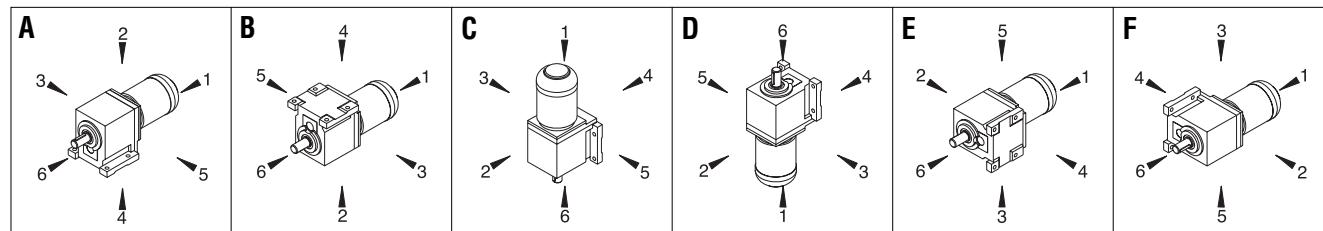
Product key

Type code



Mounting position (A-F) and position of the system components (1-6)

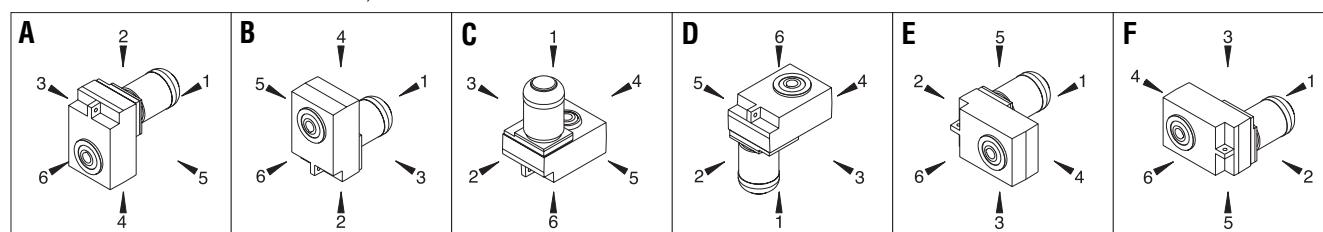
GST Terminal box: 2, 3, 4, 5
Without terminal box: 0



GFL Solid shaft: 6
Hollow shaft: 0
Hollow shaft with shrink disc: 1, 6

Foot: 3, 4
Without foot: 0

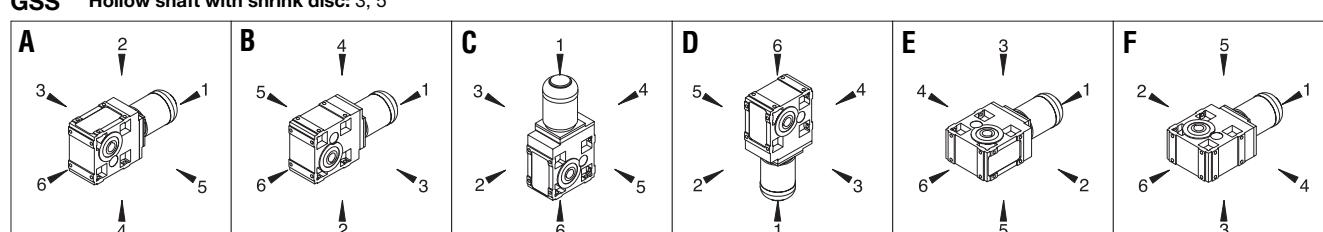
Terminal box: 2, 3, 4, 5
Without terminal box: 0



GKS/ GSS Solid shaft: 3, 5, 3+5
Hollow shaft: 0
Hollow shaft with shrink disc: 3, 5

Flange: 3, 5, 3+5
Without flange: 0

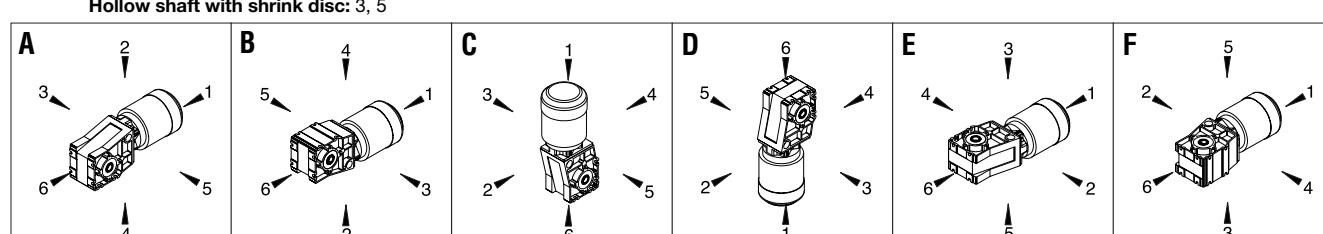
Terminal box: 2, 3, 4, 5
Without terminal box: 0



GKR Solid shaft: 3, 5, 3+5
Hollow shaft: 0
Hollow shaft with shrink disc: 3, 5

Flange: 3, 5, 3+5
Without flange: 0

Terminal box: 2, 3, 4, 5
Without terminal box: 0



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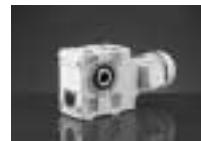
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Introducing Lenze

**No matter which drive solution you imagine,
we make your dreams come true.**

1

Following our maxim of "one stop shopping" we offer you a complete programme of electronic and mechanical drive systems distinguished by reliable and powerful products. The range of our products includes frequency inverters, speed controllers, servo controllers, variable speed drives and gearboxes, clutches and brakes as well as motors. So Lenze is the competent partner for your applications – we offer single components and solutions for complete drive systems including planning, execution and commissioning. Furthermore, a worldwide service and distribution network ensures a qualified customer advisory service on the job and a fast and extensive after sales service. Our quality assurance system for development, production, sales and service is certified according to DIN ISO 9001. Our customers set the scale for measuring the quality of our products. Our task is to meet your requirements, customer orientation as a Lenze principle implies the best quality.

See for yourself.



G-motion – The innovative geared motor programme with intelligent speed variation.

Lenze gearboxes of the new generation have been successfully used in industrial applications for many years. Our innovations permanently add market-oriented products to the gearbox programme. With various gearbox and motor options Lenze offers a complete and high-functional geared motor programme. The catalogue **G-motion, const** informs about geared motors with constant output speed and forms the basis for the **G-motion** programme. Drives from 0.12 to 45 kW can be selected from clearly structured selection tables.

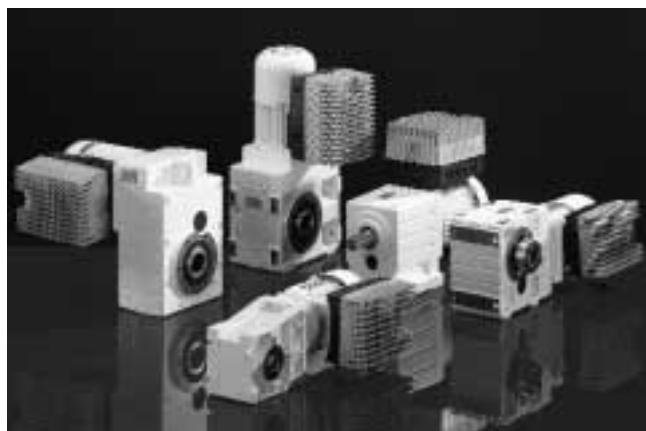
G-motion programme



G-motion, const

Geared motors and gearboxes with constant output speeds

- Helical geared motors
- Low-profile geared motors
- (Helical)-bevel geared motors
- Helical-worm geared motors



G-motion, motec

Geared motors with integrated 8200 motec frequency inverter

- Helical geared motors
- Low-profile geared motors
- (Helical)-bevel geared motors
- Helical-worm geared motors

News What is new?

– Torque increase

Low-profile gearbox sizes 09...14 2-stage
Low-profile gearbox sizes 05...07 3-stage
Helical-bevel gearbox sizes 09...14 3-stage
Helical-bevel gearbox sizes 05...07 4-stage

– Ratio extension i=5...8

Helical-worm gearbox sizes 04...07

– Motor frame size 90

Helical gearbox size 04
Low-profile gearbox size 04

– Mounting flange 1D for standard motor 90 and 2D for standard motor 80

Helical gearbox size 04
Low-profile gearbox size 04

– Starting efficiency

Helical-worm gearbox

– Foot mounting in position 4

Low-profile gearbox sizes 04...14

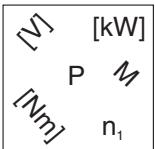
– Information on gearbox ventilation



G-motion, m-var

Geared motors with mechanical speed adjustment

- Planetary speed drives
- Variable speed belt drives
- Variable speed pulleys



List of abbreviations

Abbreviations used in this catalogue:

α	Angle of radial force	M_{rated}	[Nm]	Rated torque
1		M_A	[Nm]	Starting torque of motor
c	Capacity of gearboxes / geared motors	M_B	[Nm]	Holding torque of brake
d_w	[mm]	M_{con}	[Nm]	Continuous torque
	Effective diameter of transmission element	M_{stall}	[Nm]	Stall torque of motor
$\cos \varphi$	Power factor of the motor	M_I		Maximum torque factor
$\cos \varphi_{rated}$	Power factor of asynchronous motors	M_{max}	[Nm]	Maximum torque
		M_{perm}	[Nm]	Permissible torque
F_a	[N]	n_1	[min $^{-1}$]	Input speed
$F_{a\ perm}$	[N]	n_2	[min $^{-1}$]	Output speed
$F_{a\ tab}$	[N]	n_{rated}	[min $^{-1}$]	Rated speed
f_{ch}	[kHz]	n_{max}	[min $^{-1}$]	Maximum speed
f_d	[Hz]			
F_I		P_1	[kW]	Input power
f_{max}	[Hz]	P_2	[kW]	Output power
f_{rated}	[Hz]	P_{rated}	[kW]	Rated power
F_r	[N]	P_{loss}	[kW]	Power loss of inverter
$F_{r\ Tab}$	[N]			
$F_{r\ perm}$	[N]	R	[Ω]	Resistance
f_w		S_{rated}	[kW]	Output power of inverter
f_α		T_{amb}	[°C]	Ambient temperature during operation
f_z				
	Additional radial force factor of transmission element	V_G	[V]	DC bus voltage
		V_{rated}	[V]	Rated voltage
		V_{mains}	[V]	Mains voltage
i	Ratio			
φ	Ratio step	IP		International protection code
η	Mechanical efficiency	IEC		International Electrotechnical Commission
I_0	[A]	DIN		Deutsches Institut für Normung
I_A	[A]	VDE		Verband deutscher Elektrotechniker
I_{max}	[A]	USDA		United States Department of Agriculture
I_{rated}	[A]	NEMA		National Electrical Manufacturers Association
I_{mains}	[A]	AC		Alternating current
		DC		Direct current
J_{ext}	[kgm 2]	EMC		Electromagnetic compatibility
J_{load}	[kgm 2]	EN		European Standard
J_{mot}	[kgm 2]	CE		Communauté Européene
J_A	[kgm 2]	IM		International Mounting Code
J_B	[kgm 2]			
k	Operating factor (according to DIN 3990)			
L	[mH]			
m	[kg]			
M_0	[Nm]			
M_1	[Nm]			
M_2	[Nm]			
	Mass			
	Standstill continuous torque			
	Input torque			
	Output torque			

Definitions

Basics about the data indicated in this catalog



Power, torque and speed

The powers, torques and speeds indicated in this catalog are rounded values and are valid for

- operating time/day = 8 h (100% duty time)
- load class I with 10 switching operations/h
- mounting positions indicated in this catalog
- standard lubricants
- $f_{\text{mains}} = 50 \text{ Hz}$ constant
- $T_{\text{amb}} = 20^\circ\text{C}$ for gearboxes
 40°C for motors (to VDE 0530)
- installation height $\leq 1000 \text{ m a.m.s.l.}$

The rated power indicated for motors and geared motors is valid for duty type S1 to

VDE 0530 part 1 / DIN 57530 part 1.

The indicated values may change under other application conditions.

Please contact your nearest Lenze representative for information about operation under extreme application conditions.

Load capacity c of the gearboxes

Characteristic value for the load capacity of Lenze gearboxes and geared motors.

- c is the ratio between the permissible rated torque of the gearbox and the actual rated torque of the drive components (e.g. of the integrated Lenze motor).
- c must always be higher than the operating factor k calculated for your application.

Operating factor k (to DIN 3990)

Takes account of the influence of effective temporarily changing loads during the planned running time of gearboxes and geared motors.

k depends on

- the type of load
- the intensity of load
- temporal influences



Order information

We want to deliver quickly and correctly. For this, we need complete order information.

The following checklist and the chapter "How to order" will help you.

1

Checklist

For fast and correct delivery we need the following information:

- Your address and your order data.
- Our product key of the products listed in this catalog.
- Your delivery data, for instance delivery date and delivery address.

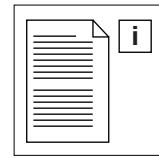
Delivery

- All components are carefully packed and checked before delivery.
- Orders are subject to the general terms of sale and delivery of Lenze GmbH & Co KG:
 - Terms of delivery: Ex works according to your packing requirements, packing not included.

How to order

Please use the following step-by-step checklist to find out all information required for your order. Ordering of your tailor-made drive is then very easy:

- Copy the order form which you find on the last page of this catalog.
- Enter the order data.
- Send or fax the order form to your nearest Lenze branch office or representative.
You will find a list of all Lenze branch offices and representatives on the last pages.



Step-by-step to your drive

- Cross reference
- ⇒ Information

1

1. Select drive system
 - Chapter Selection
 - ⇒ Gearbox size, ratio step, ratio
 - Example:** GST 07-2
 $i = 56.250$
2. Select input design
 - Product key, selection table
 - ⇒ Design, drive size
 - Example:** M 090-12
(without options)
3. Select output design
 - Product key, system overview
 - ⇒ Design, drive size
 - Example:** Solid shaft: V
Housing with foot: B
Output without flange: R
4. Select position of system modules and mounting position
 - Product key
 - Example:** Terminal box in position 5
Mounting position A
5. Select colour
 - Example:
Top coat RAL 9018
6. Options
 - Options

Pcs.	Price per unit
i = 56.250	
<input checked="" type="checkbox"/> GST	1
<input type="checkbox"/> GFL	M
<input type="checkbox"/> GKS	N
<input type="checkbox"/> GSS	W
0	A
7	B
-	C
3	D
4	E
	F
	G
	H
	I
	J
	K
	L
	R
	S
	T
	U
	V
	W
	X
	Y
	Z
	0
	9
	0
	-
	1
	2
	3
	4
	5

Further order information for geared motors/gearboxes G□□

Dimensions	H	Hollow shaft dH7 = <input type="text"/> mm	K L	Flange a2 = <input type="text"/> mm
Position of system modules (enter 0 for positions not determined)	<input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 3 <input type="checkbox"/> 5 <input type="checkbox"/> 6		<input type="checkbox"/> 0 <input type="checkbox"/> 3 <input type="checkbox"/> 5 <input type="checkbox"/> 6	<input type="checkbox"/> 0 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
Mounting position	A B C D E F			
Colour	<input checked="" type="checkbox"/> Top coat RAL 9018	<input type="checkbox"/> Primary coat grey		

Options for geared motor / gearbox G□□

Options for motors



5



(Helical)-bevel gearboxes

Technical data

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Selection tables

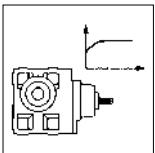
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Dimensions

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Technical data – (Helical)-bevel gearboxes

Permissible radial and axial forces at the output

Bevel gearboxes GKR□□

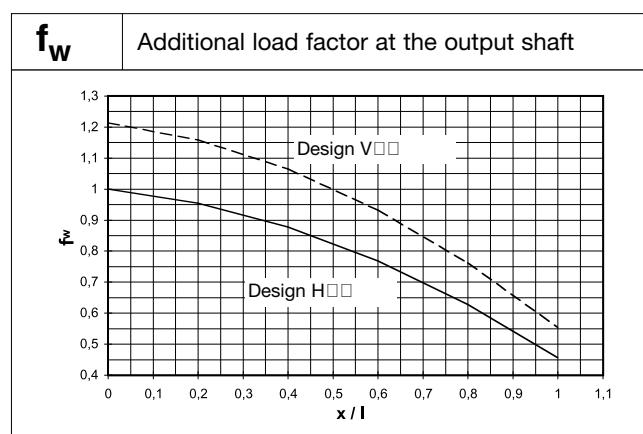
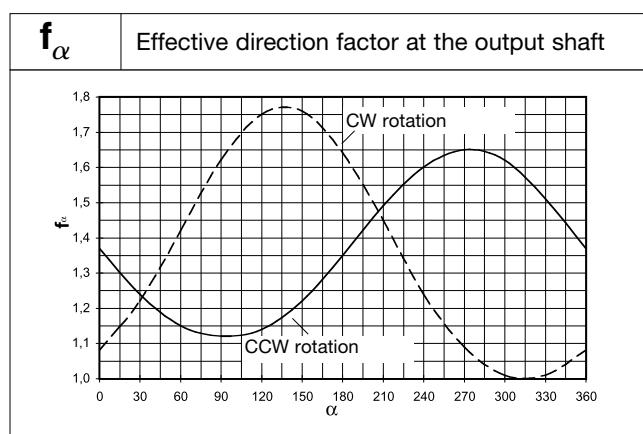
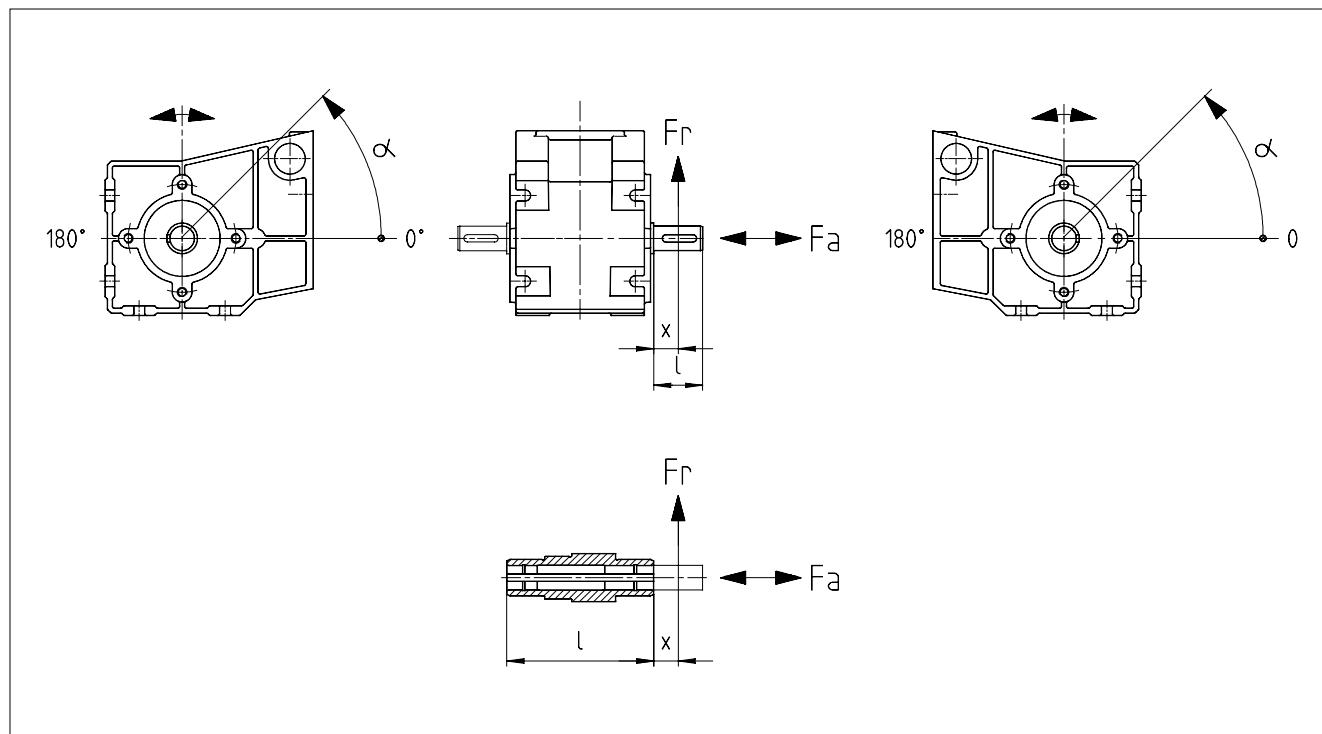
- Permissible radial force

$$F_{r,perm} = f_w \cdot f_\alpha \cdot F_{r,tab} \leq f_w \cdot F_{r,max}$$

- Permissible axial force

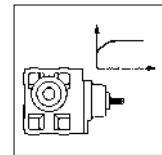
$$F_{a,perm} = F_{a,tab} \quad \text{at } F_r = 0$$

Contact Lenze if F_r and $F_a \neq 0$



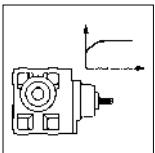
Technical data – (Helical)-bevel gearboxes

Permissible radial and axial forces at the output



Bevel gearboxes GKR□□

GKR 04	H□□/S□□		V□□	
	Hollow shaft and hollow shaft with shrink disc F_r : acts on the hollow shaft ($x = 0$) $F_{a\ tab}$ only valid for $F_r = 0$		Solid shaft F_r acts on the midpoint of the shaft extension ($x = l/2$) $F_{a\ tab}$ only valid for $F_r = 0$	
	n_2 [min $^{-1}$]	$F_{r\ tab}$ [N]	$F_{a\ tab}$ [N]	$F_{r\ tab}$ [N]
400	2550	1275	2100	1275
250	3000	1500	2500	1500
160	3300	1650	2700	1650
100	3600	1800	3000	1800
63	3600	1800	3000	1800
40	3600	1800	3000	1800
25	3600	1800	3000	1800
16	3600	1800	3000	1800
max.	3600	1800	3000	1800



Technical data – (Helical)-bevel gearboxes

Permissible radial and axial forces at the output

Helical bevel gearbox GKS□□

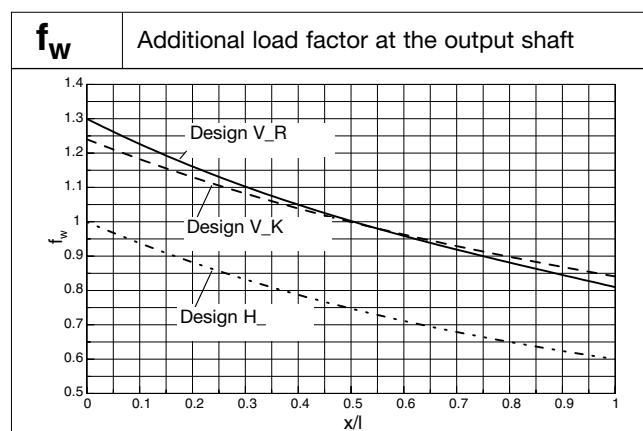
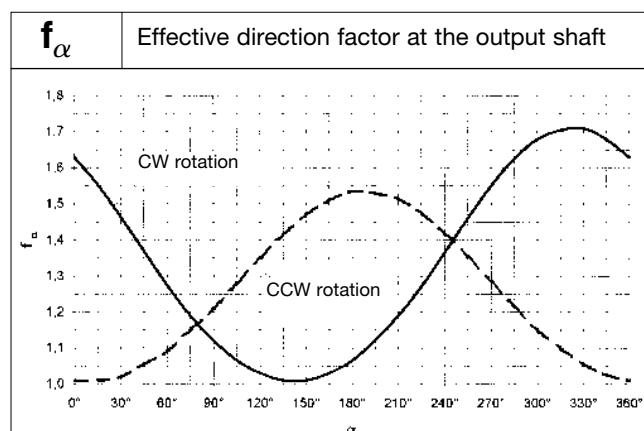
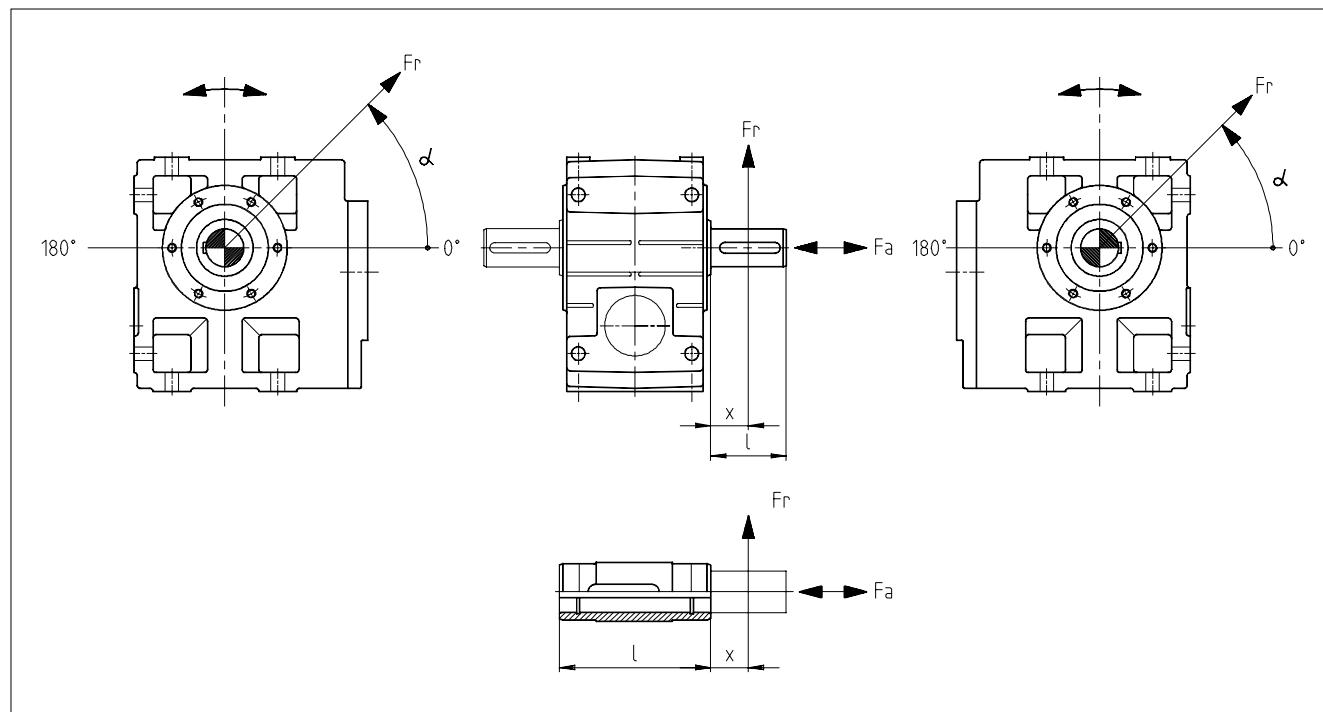
- Permissible radial force

$$F_{r\text{perm}} = f_w \cdot f_\alpha \cdot F_{r\text{tab}} \leq f_w \cdot F_{r\text{max}}$$

- Permissible axial force

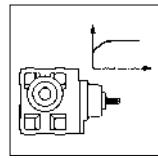
$$F_{a\text{perm}} = F_{a\text{tab}} \quad \text{at } F_r = 0$$

Contact Lenze if F_r and $F_a \neq 0$



Technical data – (Helical)-bevel gearboxes

Permissible radial and axial forces at the output



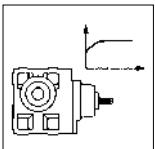
Helical-bevel gearbox GKS□□

VAK	Solid shaft with flange													
	$F_{r\text{tab}}$ acts on the middlepoint of the shaft extension ($x = l/2$) F_{atab} only valid for $F_r = 0$													
n_2 [min $^{-1}$]	GKS 04		GKS 05		GKS 06		GKS 07		GKS 09		GKS 11		GKS 14	
	$F_{r\text{tab}}$ [N]	F_{atab} [N]	$F_{r\text{tab}}$ [N]	F_{atab} [N]	$F_{r\text{tab}}$ [N]	F_{atab} [N]	$F_{r\text{tab}}$ [N]	F_{atab} [N]	$F_{r\text{tab}}$ [N]	F_{atab} [N]	$F_{r\text{tab}}$ [N]	F_{atab} [N]	$F_{r\text{tab}}$ [N]	F_{atab} [N]
400	3800	4200	4640	3630	6400	4660	7000	5700	9900	6000	14500	7000	20500	8400
250	4300	4400	5420	4440	7500	5880	8250	7000	10500	6600	16000	7500	23700	10000
160	4600	4400	6280	5420	8800	7320	9630	8500	12000	7600	17600	8500	27200	11500
100	4600	4400	7000	6600	9800	9230	11000	10400	14000	10000	21000	10500	31300	13000
63	4600	4400	7000	6600	10000	10000	13000	11500	15000	12000	24500	13000	35000	15000
40	4600	4400	7000	6600	10000	10000	14000	11500	15000	15000	28000	17500	41000	19000
25	4600	4400	7000	6600	10000	10000	14000	11500	15000	17000	30000	27000	43000	28000
≤ 16	4600	4400	7000	6600	10000	10000	14000	11500	15000	17000	30000	27000	43000	35000
$F_{r\text{max}}$	4600	-	7000	-	10000	-	14000	-	15000	-	30000	-	43000	-

V□R	Solid shaft without flange													
	$F_{r\text{tab}}$ acts on the middle of the shaft extension ($x = l/2$) F_{atab} only valid for $F_r = 0$													
n_2 [min $^{-1}$]	GKS 04		GKS 05		GKS 06		GKS 07		GKS 09*		GKS 11*		GKS 14	
	$F_{r\text{tab}}$ [N]	F_{atab} [N]	$F_{r\text{tab}}$ [N]	F_{atab} [N]	$F_{r\text{tab}}$ [N]	F_{atab} [N]	$F_{r\text{tab}}$ [N]	F_{atab} [N]	$F_{r\text{tab}}$ [N]	F_{atab} [N]	$F_{r\text{tab}}$ [N]	F_{atab} [N]	$F_{r\text{tab}}$ [N]	F_{atab} [N]
400	3000	4200	2800	3500	3700	4440	4000	4900	6200	6500	7100	7000	57900	35000
250	3400	5000	3200	4240	4300	5580	4900	6230	6400	7400	7500	8000	61000	35000
160	3600	5500	3600	5090	4900	6930	5800	7820	7100	8000	8200	9200	64100	35000
100	3600	5500	4100	6160	5300	8710	6600	9940	8400	10500	10000	12000	65000	35000
63	3600	5500	4900	6600	6200	10000	8000	12600	9500	13000	11200	14500	65000	35000
40	3600	5500	5800	6600	7900	10000	9600	14000	11800	17000	13000	18500	65000	35000
25	3600	5500	5800	6600	9000	10000	12000	14000	16000	21000	19000	27000	65000	35000
≤ 16	3600	5500	5800	6600	9000	10000	12000	14000	18000	21000	23000	27000	65000	35000
$F_{r\text{max}}$	3600	-	5800	-	9000	-	12000	-	18000	-	23000	-	65000	-

H□□ S□□	Hollow shaft and hollow shaft with shrink disc													
	$F_{r\text{tab}}$ acts on the face of the hollow shaft ($x = 1/2$) F_{atab} only valid for $F_r = 0$													
n_2 [min $^{-1}$]	GKS 04		GKS 05		GKS 06		GKS 07		GKS 09		GKS 11		GKS 14	
	$F_{r\text{tab}}$ [N]	F_{atab} [N]	$F_{r\text{tab}}$ [N]	F_{atab} [N]	$F_{r\text{tab}}$ [N]	F_{atab} [N]	$F_{r\text{tab}}$ [N]	F_{atab} [N]	$F_{r\text{tab}}$ [N]	F_{atab} [N]	$F_{r\text{tab}}$ [N]	F_{atab} [N]	$F_{r\text{tab}}$ [N]	F_{atab} [N]
400	3900	4200	3500	3500	4600	4440	5400	4900	7500	6500	9000	7000	15000	6000
250	4500	5000	4200	4240	5600	5580	6300	6230	8200	7400	10000	8000	15500	8000
160	5100	5500	4630	5090	6400	6930	7400	7820	9400	8000	11000	9200	16500	10000
100	5900	5500	5000	6160	7000	8710	8700	9940	10600	10500	14000	12000	17500	13000
63	6800	5500	6200	6600	8200	10000	10500	12600	12200	13000	16000	14500	18500	16000
40	7000	5500	7300	6600	10400	10000	12500	14000	15500	17000	18500	18500	21000	20000
25	7000	5500	7300	6600	12000	10000	15100	14000	21000	21000	25000	27000	28000	28000
≤ 16	7000	5500	7300	6600	12000	10000	16000	14000	24000	21000	30000	27000	40000	35000
$F_{r\text{max}}$	7000	-	7300	-	12000	-	16000	-	24000	-	30000	-	45000	-

* With design V□R a reinforced output bearing available on request



Technische Daten Kegel(stirn)radgetriebe

Permissible radial and axial forces at the input

Helical-bevel gearbox G□□

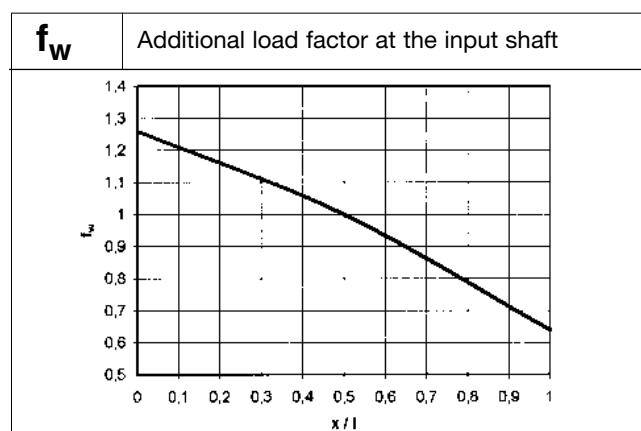
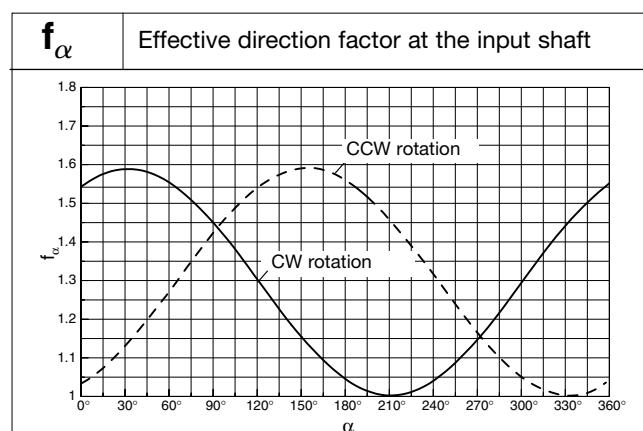
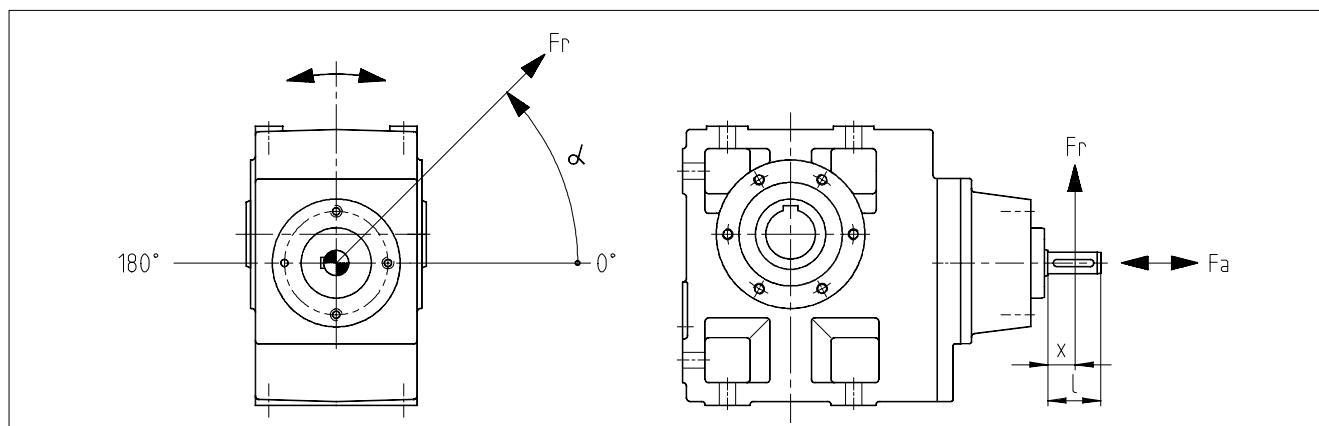
- Permissible radial force

$$F_{r\text{perm}} = f_w \cdot f_\alpha \cdot F_{r\text{tab}} \leq f_w \cdot F_{r\text{max}}$$

- Permissible axial force

$$F_{a\text{perm}} = F_{a\text{tab}} \quad \text{at } F_r = 0$$

Please contact Lenze if F_r and $F_a \neq 0$

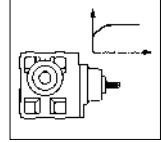


W | F_r acts on the middle of the shaft extension ($x = l/2$),
 F_{atab} only valid for $F_r = 0$

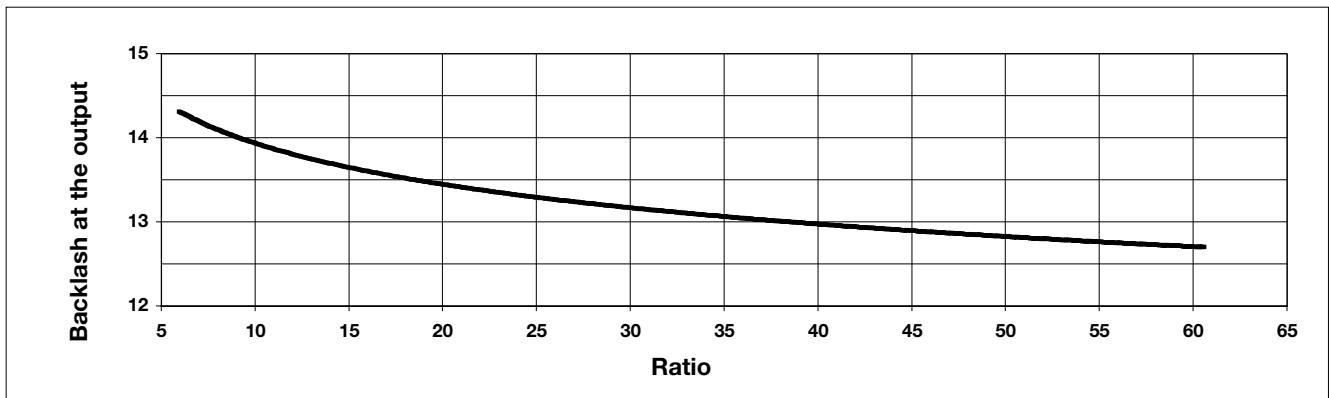
n_1 [min ⁻¹]	1A 1B		1C		1D		1E		1F		1G		1H		1K	
	$F_{r\text{tab}}$ [N]	$F_{a\text{tab}}$ [N]														
700	830	1200	1150	1400	1470	1500	2140	1600	3200	2800	4000	4500	5000	6000	8500	10000
1400	570	770	780	900	1000	740	1400	800	2200	1700	3200	2000	4000	2500	7000	5300
2800	440	530	590	620	770	470	940	460	1700	1100	2300	1600	3000	2000	5000	350
F_{max}	1850	-	1650	-	3000	-	4900	-	5600	-	8000	-	10000	-	12000	-

Technical data – (Helical)-bevel gearboxes

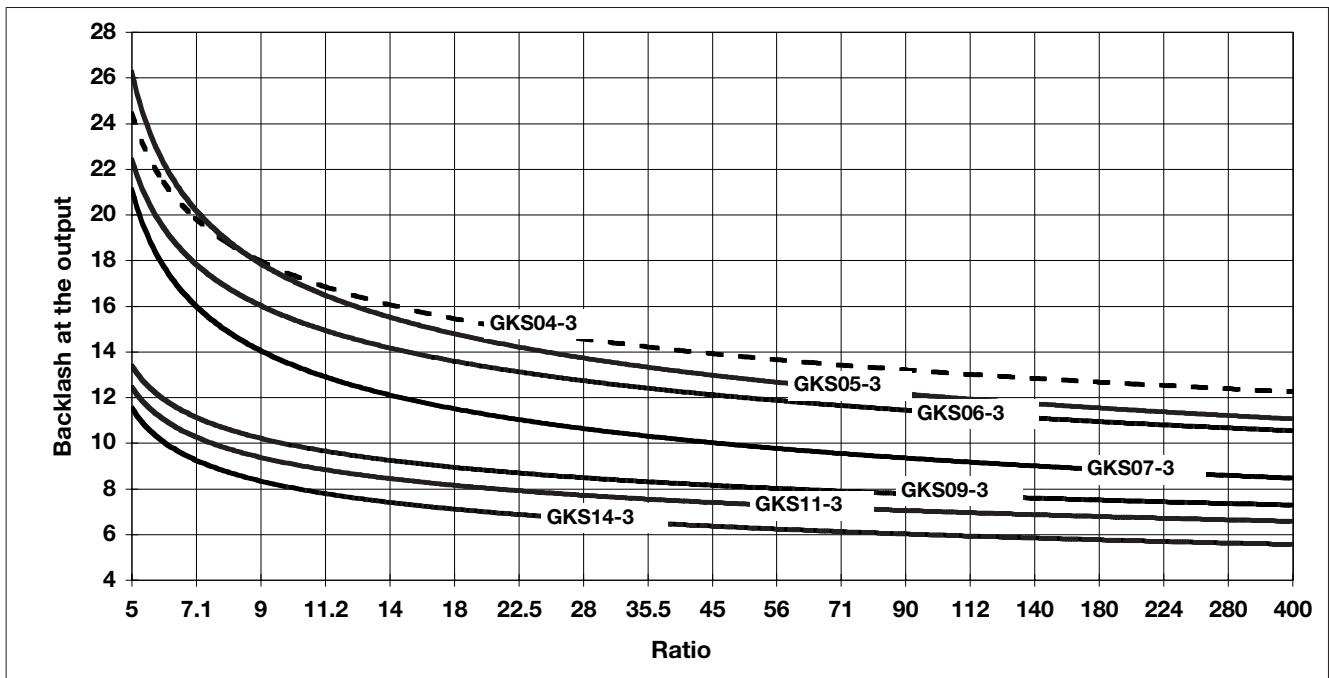
Backlash at the output in angular minutes



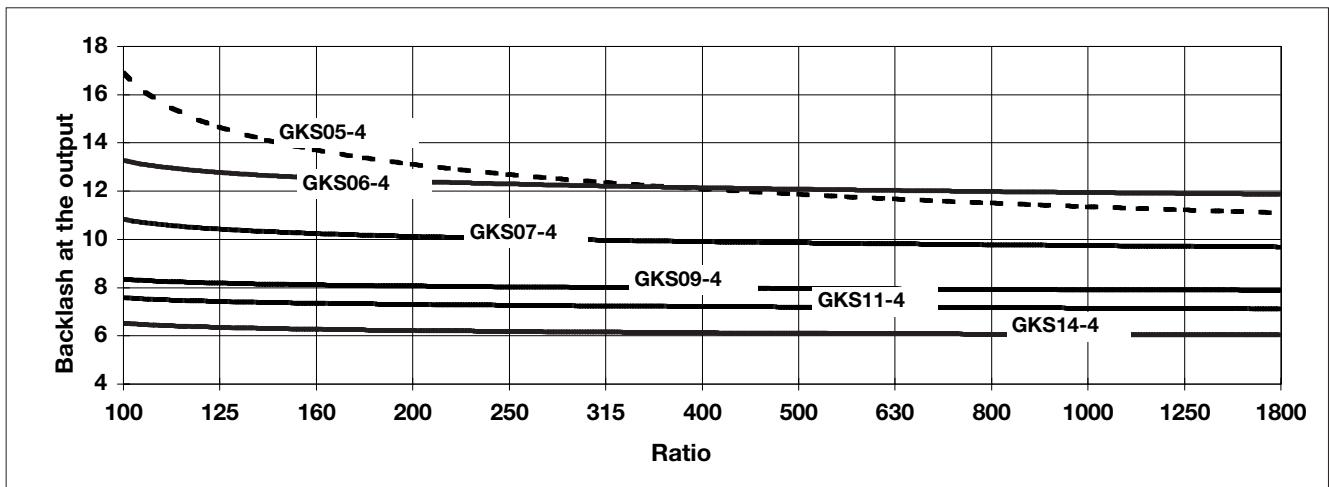
Bevel gearbox GKR 04-2

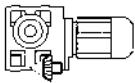


Helical-bevel gearbox GKS□□-3



Helical-bevel gearbox GKS□□-4





Selection tables – (Helical)-bevel gearboxes

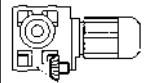
Geared motors

P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
0.12 kW n1=1390	121	9	5.3	11.449	GKR □□ -2M	5-82
	110	10	4.9	12.698	GKR04 - 2M□□□ 063-12	
	95	11	4.9	14.603	GKR04 - 2M□□□ 063-12	
	71	15	5.4	19.556	GKR04 - 2M□□□ 063-12	
	62	18	5.1	22.489	GKR04 - 2M□□□ 063-12	
	55	20	4.5	25.185	GKR04 - 2M□□□ 063-12	
	48	23	4.0	28.963	GKR04 - 2M□□□ 063-12	
	44	25	3.6	31.919	GKR04 - 2M□□□ 063-12	
	38	29	3.1	36.707	GKR04 - 2M□□□ 063-12	
	35	31	2.9	40.000	GKR04 - 2M□□□ 063-12	
	30	36	2.5	46.000	GKR04 - 2M□□□ 063-12	
	26	41	1.7	52.698	GKR04 - 2M□□□ 063-12	
	23	48	1.7	60.603	GKR04 - 2M□□□ 063-12	
					GKS □□ -3M	5-86
	141	8	5.3	9.836	GKS04 - 3M□□□ 063-12	
	62	18	5.3	22.522	GKS04 - 3M□□□ 063-12	
	55	20	5.3	25.088	GKS04 - 3M□□□ 063-12	
	48	23	4.9	28.727	GKS04 - 3M□□□ 063-12	
	43	25	4.9	32.000	GKS04 - 3M□□□ 063-12	
	31	35	5.3	44.240	GKS04 - 3M□□□ 063-12	
	27	40	4.6	50.943	GKS04 - 3M□□□ 063-12	
	24	45	4.2	56.976	GKS04 - 3M□□□ 063-12	
	21	51	3.6	64.978	GKS04 - 3M□□□ 063-12	
	19	57	3.4	72.210	GKS04 - 3M□□□ 063-12	
	15	71	2.7	90.491	GKS04 - 3M□□□ 063-12	
	14	78	2.4	100.067	GKS04 - 3M□□□ 063-12	
	13	87	2.0	111.467	GKS04 - 3M□□□ 063-12	
	11	101	1.9	128.874	GKS04 - 3M□□□ 063-12	
	9.7	112	1.5	143.556	GKS04 - 3M□□□ 063-12	
	8.5	128	1.5	163.332	GKS04 - 3M□□□ 063-12	
	7.6	143	1.2	181.939	GKS04 - 3M□□□ 063-12	
	6.8	160	1.2	204.682	GKS04 - 3M□□□ 063-12	
	6.1	179	1.0	228.000	GKS04 - 3M□□□ 063-12	
	5.2	211	0.9	269.660	GKS04 - 3M□□□ 063-12	
					GKS □□ -4M	5-94
	4.4	244	2.9	316.800	GKS06 - 4M□□□ 063-12	
	3.8	281	1.2	364.467	GKS05 - 4M□□□ 063-12	
	3.9	278	1.9	361.429	GKS06 - 4M□□□ 063-12	
	3.4	316	1.0	410.667	GKS05 - 4M□□□ 063-12	
	3.4	314	2.2	408.000	GKS06 - 4M□□□ 063-12	
	3.0	361	0.9	469.389	GKS05 - 4M□□□ 063-12	
	3.0	353	1.5	458.067	GKS06 - 4M□□□ 063-12	

Thermal limit rating not considered (see page 2-7)

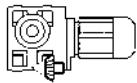
Selection tables – (Helical)-bevel gearboxes

Geared motors



P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page	
	n ₂ [min ⁻¹]	M ₂ [Nm]	c				
0.12 kW				GKS □□ -4M		5-94	
n1=1390	2.7	398	1.8	517.091	GKS06 - 4M□□□ 063-12		
	2.5	428	1.3	555.927	GKS06 - 4M□□□ 063-12		
	2.2	493	1.4	640.800	GKS06 - 4M□□□ 063-12		
	2.0	536	1.0	696.668	GKS06 - 4M□□□ 063-12		
	1.7	625	1.1	812.137	GKS06 - 4M□□□ 063-12		
	1.5	704	0.9	914.907	GKS06 - 4M□□□ 063-12		
	1.4	783	0.9	1017.741	GKS06 - 4M□□□ 063-12		
0.18 kW				GKR □□ -2M		5-82	
n1=2760	241	7	5.7	11.449	GKR04 - 2M□□□ 063-11		
	217	8	5.3	12.698	GKR04 - 2M□□□ 063-11		
	189	9	5.3	14.603	GKR04 - 2M□□□ 063-11		
	141	12	5.8	19.556	GKR04 - 2M□□□ 063-11		
n1=1400	122	13	3.5	11.449	GKR04 - 2M□□□ 063-32		
	110	15	3.3	12.698	GKR04 - 2M□□□ 063-32		
	96	17	3.3	14.603	GKR04 - 2M□□□ 063-32		
	72	23	3.6	19.556	GKR04 - 2M□□□ 063-32		
	62	26	3.4	22.489	GKR04 - 2M□□□ 063-32		
	56	29	3.0	25.185	GKR04 - 2M□□□ 063-32		
	48	34	2.7	28.963	GKR04 - 2M□□□ 063-32		
	44	37	2.4	31.919	GKR04 - 2M□□□ 063-32		
	38	43	2.1	36.707	GKR04 - 2M□□□ 063-32		
	35	47	1.9	40.000	GKR04 - 2M□□□ 063-32		
	30	54	1.7	46.000	GKR04 - 2M□□□ 063-32		
	27	62	1.1	52.698	GKR04 - 2M□□□ 063-32		
	23	71	1.1	60.603	GKR04 - 2M□□□ 063-32		
n1=870	22	75	1.2	40.000	GKR04 - 2M□□□ 071-13	5	
	19	86	1.0	46.000	GKR04 - 2M□□□ 071-13		
			GKS □□ -3M				
n1=2760	281	6	5.7	9.836	GKS04 - 3M□□□ 063-11		
	123	13	5.7	22.522	GKS04 - 3M□□□ 063-11		
	110	15	5.7	25.088	GKS04 - 3M□□□ 063-11		
	96	17	5.3	28.727	GKS04 - 3M□□□ 063-11		
	86	19	5.3	32.000	GKS04 - 3M□□□ 063-11		
n1=1400	62	26	3.5	22.522	GKS04 - 3M□□□ 063-32		
	56	29	3.5	25.088	GKS04 - 3M□□□ 063-32		
	49	34	3.3	28.727	GKS04 - 3M□□□ 063-32		
	44	37	3.3	32.000	GKS04 - 3M□□□ 063-32		
	32	52	3.6	44.240	GKS04 - 3M□□□ 063-32		

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

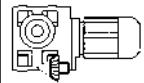
Geared motors

P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page		
	n ₂ [min ⁻¹]	M ₂ [Nm]	c					
0.18 kW				GKS □□ -3M				
	n1=1400			GKS04 - 3M□□□ 063-32				
	28	59	3.1	50.943	GKS04 - 3M□□□ 063-32	5-86		
	25	66	2.8	56.976	GKS04 - 3M□□□ 063-32			
	22	76	2.4	64.978	GKS04 - 3M□□□ 063-32			
	19	84	2.3	72.210	GKS04 - 3M□□□ 063-32			
	16	106	1.8	90.491	GKS04 - 3M□□□ 063-32			
	14	117	1.6	100.067	GKS04 - 3M□□□ 063-32			
	13	130	1.3	111.467	GKS04 - 3M□□□ 063-32			
	11	150	1.2	128.874	GKS04 - 3M□□□ 063-32			
	9.8	167	1.0	143.556	GKS04 - 3M□□□ 063-32			
	8.6	191	1.0	163.332	GKS04 - 3M□□□ 063-32			
	7.7	212	0.8	181.939	GKS04 - 3M□□□ 063-32			
	GKS □□ -4M							
	6.7	240	1.3	209.067	GKS05 - 4M□□□ 063-32	5-94		
	6.2	259	1.0	225.867	GKS05 - 4M□□□ 063-32			
	6.2	257	2.1	224.524	GKS06 - 4M□□□ 063-32			
	5.9	271	1.2	236.667	GKS05 - 4M□□□ 063-32			
	5.0	320	1.7	279.286	GKS06 - 4M□□□ 063-32			
	4.4	363	1.9	316.800	GKS06 - 4M□□□ 063-32			
	3.9	414	1.3	361.429	GKS06 - 4M□□□ 063-32			
	3.4	468	1.5	408.000	GKS06 - 4M□□□ 063-32			
	3.1	525	1.0	458.067	GKS06 - 4M□□□ 063-32			
	2.7	593	1.2	517.091	GKS06 - 4M□□□ 063-32			
	2.5	637	0.8	555.927	GKS06 - 4M□□□ 063-32			
	2.2	735	1.0	640.800	GKS06 - 4M□□□ 063-32			
5	n1=870			GKS07 - 4M□□□ 071-13				
	1.9	857	1.2	464.367	GKS07 - 4M□□□ 071-13			
	1.7	953	1.4	516.810	GKS07 - 4M□□□ 071-13			
	1.5	1040	1.0	563.573	GKS07 - 4M□□□ 071-13			
	1.4	1174	1.1	636.581	GKS07 - 4M□□□ 071-13			
	1.3	1262	0.8	683.972	GKS07 - 4M□□□ 071-13			
	1.1	1520	0.9	823.810	GKS07 - 4M□□□ 071-13			
	1.1	1508	2.0	817.551	GKS09 - 4M□□□ 071-13			
	0.9	1700	1.8	921.367	GKS09 - 4M□□□ 071-13			
	0.9	1830	1.7	992.209	GKS09 - 4M□□□ 071-13			
	0.8	2063	1.5	1118.204	GKS09 - 4M□□□ 071-13			
	0.7	2314	1.3	1254.197	GKS09 - 4M□□□ 071-13			
	0.6	2608	1.2	1413.461	GKS09 - 4M□□□ 071-13			
0.25 kW	GKR □□ -2M							
	n1=1400			GKR04 - 2M□□□ 071-12				
	270	8	5.8	5.185	GKR04 - 2M□□□ 071-12	5-82		
	235	10	5.8	5.963	GKR04 - 2M□□□ 071-12			
	197	12	5.8	7.111	GKR04 - 2M□□□ 071-12			
	171	13	5.8	8.178	GKR04 - 2M□□□ 071-12			

Thermal limit rating not considered (see page 2-7)

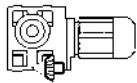
Selection tables – (Helical)-bevel gearboxes

Geared motors



P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
0.25 kW				GKR □□ -2M		
n1=1400	154	15	5.7	9.101	GKR04 - 2M□□□ 071-12	
	134	17	5.2	10.466	GKR04 - 2M□□□ 071-12	
	122	19	4.9	11.449	GKR04 - 2M□□□ 071-12	
	110	21	4.4	12.698	GKR04 - 2M□□□ 071-12	
	96	24	3.8	14.603	GKR04 - 2M□□□ 071-12	
	90	25	3.6	15.556	GKR04 - 2M□□□ 071-12	
	78	29	3.1	17.889	GKR04 - 2M□□□ 071-12	
	72	32	2.8	19.556	GKR04 - 2M□□□ 071-12	
	62	36	2.5	22.489	GKR04 - 2M□□□ 071-12	
	56	41	2.2	25.185	GKR04 - 2M□□□ 071-12	
	48	47	1.9	28.963	GKR04 - 2M□□□ 071-12	
	44	52	1.7	31.919	GKR04 - 2M□□□ 071-12	
	38	60	1.5	36.707	GKR04 - 2M□□□ 071-12	
	35	65	1.4	40.000	GKR04 - 2M□□□ 071-12	
	30	75	1.2	46.000	GKR04 - 2M□□□ 071-12	
n1=920	25	91	1.0	36.707	GKR04 - 2M□□□ 071-33	
	23	99	0.9	40.000	GKR04 - 2M□□□ 071-33	
			GKS □□ -3M			5-86
n1=2760	281	8	4.1	9.836	GKS04 - 3M□□□ 063-31	
n1=1400	273	8	5.8	5.123	GKS04 - 3M□□□ 071-12	
	199	11	5.8	7.025	GKS04 - 3M□□□ 071-12	
	171	13	5.8	8.167	GKS04 - 3M□□□ 071-12	
	156	15	6.7	8.991	GKS04 - 3M□□□ 071-12	
	142	16	6.6	9.836	GKS04 - 3M□□□ 071-12	
	119	19	5.8	11.730	GKS04 - 3M□□□ 071-12	
	107	21	5.8	13.067	GKS04 - 3M□□□ 071-12	
	98	23	6.7	14.333	GKS04 - 3M□□□ 071-12	
	87	26	5.8	16.087	GKS04 - 3M□□□ 071-12	
	78	29	5.7	17.920	GKS04 - 3M□□□ 071-12	
	68	33	5.5	20.588	GKS04 - 3M□□□ 071-12	
	62	37	5.0	22.522	GKS04 - 3M□□□ 071-12	
	56	41	4.1	25.088	GKS04 - 3M□□□ 071-12	
	49	47	3.9	28.727	GKS04 - 3M□□□ 071-12	
	44	52	3.2	32.000	GKS04 - 3M□□□ 071-12	
	40	57	3.2	35.191	GKS04 - 3M□□□ 071-12	
	36	64	2.7	39.200	GKS04 - 3M□□□ 071-12	
	32	72	2.6	44.240	GKS04 - 3M□□□ 071-12	
	28	83	2.2	50.943	GKS04 - 3M□□□ 071-12	
	25	92	2.0	56.976	GKS04 - 3M□□□ 071-12	
	22	105	1.7	64.978	GKS04 - 3M□□□ 071-12	
	21	108	3.1	66.592	GKS05 - 3M□□□ 071-12	

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

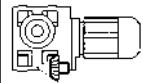
Geared motors

P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
0.25 kW				GKS □□ -3M		5-86
	n1=1400	19	117	72.210	GKS04 - 3M□□□ 071-12	
		19	122	75.033	GKS05 - 3M□□□ 071-12	
		18	129	79.598	GKS04 - 3M□□□ 071-12	
		17	134	82.833	GKS05 - 3M□□□ 071-12	
		16	147	90.491	GKS04 - 3M□□□ 071-12	
		15	151	93.333	GKS05 - 3M□□□ 071-12	
		14	162	100.067	GKS04 - 3M□□□ 071-12	
		13	174	107.196	GKS05 - 3M□□□ 071-12	
		13	181	111.467	GKS04 - 3M□□□ 071-12	
		12	196	120.784	GKS05 - 3M□□□ 071-12	
		11	209	128.874	GKS04 - 3M□□□ 071-12	
		11	211	130.097	GKS05 - 3M□□□ 071-12	
		11	206	127.392	GKS06 - 3M□□□ 071-12	
		9.6	237	146.588	GKS05 - 3M□□□ 071-12	
		9.8	232	142.941	GKS06 - 3M□□□ 071-12	
		8.4	269	166.276	GKS05 - 3M□□□ 071-12	
		8.7	261	161.029	GKS06 - 3M□□□ 071-12	
		7.5	304	187.353	GKS05 - 3M□□□ 071-12	
		7.4	308	190.080	GKS06 - 3M□□□ 071-12	
		6.6	342	211.200	GKS05 - 3M□□□ 071-12	
		6.5	347	214.133	GKS06 - 3M□□□ 071-12	
		6.1	374	230.688	GKS06 - 3M□□□ 071-12	
		5.4	421	259.880	GKS06 - 3M□□□ 071-12	
		4.8	472	291.600	GKS06 - 3M□□□ 071-12	
		4.3	532	328.500	GKS06 - 3M□□□ 071-12	
5				GKS □□ -4M		5-94
		3.9	576	361.429	GKS06 - 4M□□□ 071-12	
		3.9	571	358.829	GKS07 - 4M□□□ 071-12	
		3.4	650	408.000	GKS06 - 4M□□□ 071-12	
		3.5	636	399.353	GKS07 - 4M□□□ 071-12	
		3.0	739	464.367	GKS07 - 4M□□□ 071-12	
		2.7	823	517.091	GKS06 - 4M□□□ 071-12	
		2.7	823	516.810	GKS07 - 4M□□□ 071-12	
		2.5	897	563.573	GKS07 - 4M□□□ 071-12	
		2.2	1014	636.581	GKS07 - 4M□□□ 071-12	
		2.1	1089	683.972	GKS07 - 4M□□□ 071-12	
		1.7	1312	823.810	GKS07 - 4M□□□ 071-12	
		1.7	1302	817.551	GKS09 - 4M□□□ 071-12	
		1.5	1478	928.237	GKS07 - 4M□□□ 071-12	
		1.5	1467	921.367	GKS09 - 4M□□□ 071-12	
		1.4	1592	999.806	GKS07 - 4M□□□ 071-12	
		1.4	1580	992.209	GKS09 - 4M□□□ 071-12	
		1.3	1780	1118.204	GKS09 - 4M□□□ 071-12	
		1.1	1997	1254.197	GKS09 - 4M□□□ 071-12	
		1.0	2251	1413.461	GKS09 - 4M□□□ 071-12	
n1=920		0.9	2404	992.209	GKS09 - 4M□□□ 071-33	
		0.8	2709	1118.204	GKS09 - 4M□□□ 071-33	

Thermal limit rating not considered (see page 2-7)

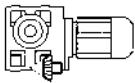
Selection tables – (Helical)-bevel gearboxes

Geared motors



P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
0.25 kW					GKS □□ -4M	5-94
n1=920	0.7	3039	1.0	1254.197	GKS09 - 4M□□□ 071-33	
	0.7	3425	0.9	1413.461	GKS09 - 4M□□□ 071-33	
0.37 kW					GKR □□ -2M	5-82
n1=2840	548	6	6.4	5.185	GKR04 - 2M□□□ 071-11	
	476	7	6.4	5.963	GKR04 - 2M□□□ 071-11	
	399	8	6.4	7.111	GKR04 - 2M□□□ 071-11	
	347	10	6.4	8.178	GKR04 - 2M□□□ 071-11	
	312	11	6.3	9.101	GKR04 - 2M□□□ 071-11	
	271	12	5.8	10.466	GKR04 - 2M□□□ 071-11	
	248	14	5.4	11.449	GKR04 - 2M□□□ 071-11	
n1=1400	235	14	3.9	5.963	GKR04 - 2M□□□ 071-32	
	197	17	3.9	7.111	GKR04 - 2M□□□ 071-32	
	171	20	3.9	8.178	GKR04 - 2M□□□ 071-32	
	154	22	3.9	9.101	GKR04 - 2M□□□ 071-32	
	134	25	3.5	10.466	GKR04 - 2M□□□ 071-32	
	122	28	3.3	11.449	GKR04 - 2M□□□ 071-32	
	110	30	3.0	12.698	GKR04 - 2M□□□ 071-32	
	96	35	2.6	14.603	GKR04 - 2M□□□ 071-32	
	90	37	2.4	15.556	GKR04 - 2M□□□ 071-32	
	78	43	2.1	17.889	GKR04 - 2M□□□ 071-32	
	72	47	1.9	19.556	GKR04 - 2M□□□ 071-32	
	62	54	1.7	22.489	GKR04 - 2M□□□ 071-32	
	56	60	1.5	25.185	GKR04 - 2M□□□ 071-32	
	48	69	1.3	28.963	GKR04 - 2M□□□ 071-32	
	44	77	1.2	31.919	GKR04 - 2M□□□ 071-32	
	38	88	1.0	36.707	GKR04 - 2M□□□ 071-32	
	35	96	0.9	40.000	GKR04 - 2M□□□ 071-32	
	30	110	0.8	46.000	GKR04 - 2M□□□ 071-32	
					GKS □□ -3M	5-86
n1=2840	554	6	6.4	5.123	GKS04 - 3M□□□ 071-11	
	404	8	6.4	7.025	GKS04 - 3M□□□ 071-11	
	348	10	6.4	8.167	GKS04 - 3M□□□ 071-11	
	316	11	7.4	8.991	GKS04 - 3M□□□ 071-11	
	289	12	7.4	9.836	GKS04 - 3M□□□ 071-11	
	242	14	6.4	11.730	GKS04 - 3M□□□ 071-11	
	217	15	6.4	13.067	GKS04 - 3M□□□ 071-11	
n1=1400	199	17	3.9	7.025	GKS04 - 3M□□□ 071-32	
	171	20	3.9	8.167	GKS04 - 3M□□□ 071-32	
	156	22	4.5	8.991	GKS04 - 3M□□□ 071-32	
	142	24	4.5	9.836	GKS04 - 3M□□□ 071-32	

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

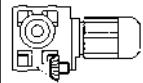
Geared motors

P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
0.37 kW					GKS □□ -3M	
n1=1400	119	28	3.9	11.730	GKS04 - 3M□□□ 071-32	
	107	31	3.9	13.067	GKS04 - 3M□□□ 071-32	
	98	34	4.5	14.333	GKS04 - 3M□□□ 071-32	
	87	39	3.9	16.087	GKS04 - 3M□□□ 071-32	
	78	43	3.9	17.920	GKS04 - 3M□□□ 071-32	
	68	49	3.7	20.588	GKS04 - 3M□□□ 071-32	
	62	54	3.4	22.522	GKS04 - 3M□□□ 071-32	
	56	60	2.8	25.088	GKS04 - 3M□□□ 071-32	
	49	69	2.7	28.727	GKS04 - 3M□□□ 071-32	
	44	77	2.2	32.000	GKS04 - 3M□□□ 071-32	
	40	84	2.2	35.191	GKS04 - 3M□□□ 071-32	
	36	94	1.8	39.200	GKS04 - 3M□□□ 071-32	
	32	106	1.7	44.240	GKS04 - 3M□□□ 071-32	
	30	113	2.7	47.059	GKS05 - 3M□□□ 071-32	
	28	122	1.5	50.943	GKS04 - 3M□□□ 071-32	
	25	137	1.4	56.976	GKS04 - 3M□□□ 071-32	
	22	156	1.2	64.978	GKS04 - 3M□□□ 071-32	
	21	160	2.1	66.592	GKS05 - 3M□□□ 071-32	
	19	173	1.1	72.210	GKS04 - 3M□□□ 071-32	
	19	180	1.7	75.033	GKS05 - 3M□□□ 071-32	
	18	191	1.0	79.598	GKS04 - 3M□□□ 071-32	
	17	199	1.7	82.833	GKS05 - 3M□□□ 071-32	
	16	217	0.9	90.491	GKS04 - 3M□□□ 071-32	
	15	224	1.4	93.333	GKS05 - 3M□□□ 071-32	
	15	223	3.1	93.176	GKS06 - 3M□□□ 071-32	
	13	257	1.3	107.196	GKS05 - 3M□□□ 071-32	
	13	252	2.5	104.967	GKS06 - 3M□□□ 071-32	
	12	290	1.1	120.784	GKS05 - 3M□□□ 071-32	
	12	271	2.6	113.082	GKS06 - 3M□□□ 071-32	
	11	312	1.1	130.097	GKS05 - 3M□□□ 071-32	
	11	305	2.1	127.392	GKS06 - 3M□□□ 071-32	
	9.6	351	0.9	146.588	GKS05 - 3M□□□ 071-32	
	9.8	343	2.1	142.941	GKS06 - 3M□□□ 071-32	
	8.4	399	0.8	166.276	GKS05 - 3M□□□ 071-32	
	8.7	386	1.6	161.029	GKS06 - 3M□□□ 071-32	
	7.4	456	1.5	190.080	GKS06 - 3M□□□ 071-32	
	6.5	513	1.2	214.133	GKS06 - 3M□□□ 071-32	
	6.1	553	1.3	230.688	GKS06 - 3M□□□ 071-32	
	5.4	623	1.0	259.880	GKS06 - 3M□□□ 071-32	
	4.8	699	1.0	291.600	GKS06 - 3M□□□ 071-32	
	4.3	788	0.8	328.500	GKS06 - 3M□□□ 071-32	
					GKS □□ -4M	
	3.9	846	1.3	358.829	GKS07 - 4M□□□ 071-32	
	3.5	941	1.4	399.353	GKS07 - 4M□□□ 071-32	
	3.0	1094	1.0	464.367	GKS07 - 4M□□□ 071-32	
	2.7	1218	1.1	516.810	GKS07 - 4M□□□ 071-32	

Thermal limit rating not considered (see page 2-7)

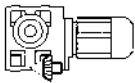
Selection tables – (Helical)-bevel gearboxes

Geared motors



P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page	
	n ₂ [min ⁻¹]	M ₂ [Nm]	c				
0.37 kW				GKS □□ -4M			
n ₁ =1400	2.2	1500	0.9	636.581	GKS07 - 4M□□□ 071-32	5-94	
	1.7	1927	1.6	817.551	GKS09 - 4M□□□ 071-32		
	1.5	2171	1.4	921.367	GKS09 - 4M□□□ 071-32		
	1.4	2338	1.3	992.209	GKS09 - 4M□□□ 071-32		
	1.3	2635	1.2	1118.204	GKS09 - 4M□□□ 071-32		
	1.1	2956	1.0	1254.197	GKS09 - 4M□□□ 071-32		
	1.0	3331	0.9	1413.461	GKS09 - 4M□□□ 071-32		
n ₁ =900	0.9	3637	0.8	992.209	GKS09 - 4M□□□ 080-13	5-94	
	0.9	3632	1.7	990.879	GKS11 - 4M□□□ 080-13		
	0.8	4093	1.5	1116.484	GKS11 - 4M□□□ 080-13		
	0.7	4591	1.3	1252.516	GKS11 - 4M□□□ 080-13		
	0.6	5173	1.2	1411.286	GKS11 - 4M□□□ 080-13		
0.55 kW				GKR □□ -2M			
n ₁ =2840	548	9	4.3	5.185	GKR04 - 2M□□□ 071-31	5-82	
	476	11	4.3	5.963	GKR04 - 2M□□□ 071-31		
	399	13	4.3	7.111	GKR04 - 2M□□□ 071-31		
	347	14	4.3	8.178	GKR04 - 2M□□□ 071-31		
	312	16	4.3	9.101	GKR04 - 2M□□□ 071-31		
	271	18	3.9	10.466	GKR04 - 2M□□□ 071-31		
	248	20	3.6	11.449	GKR04 - 2M□□□ 071-31		
n ₁ =1400	235	21	3.4	5.963	GKR04 - 2M□□□ 080-12	5-82	
	197	25	3.1	7.111	GKR04 - 2M□□□ 080-12		
	171	29	2.8	8.178	GKR04 - 2M□□□ 080-12		
	154	32	2.6	9.101	GKR04 - 2M□□□ 080-12		
	134	37	2.4	10.466	GKR04 - 2M□□□ 080-12		
	122	41	2.2	11.449	GKR04 - 2M□□□ 080-12		
	110	45	2.0	12.698	GKR04 - 2M□□□ 080-12		
	96	52	1.7	14.603	GKR04 - 2M□□□ 080-12		
	90	55	1.6	15.556	GKR04 - 2M□□□ 080-12		
	78	64	1.4	17.889	GKR04 - 2M□□□ 080-12		
	72	70	1.3	19.556	GKR04 - 2M□□□ 080-12		
	62	80	1.1	22.489	GKR04 - 2M□□□ 080-12		
	56	90	1.0	25.185	GKR04 - 2M□□□ 080-12		
	48	103	0.9	28.963	GKR04 - 2M□□□ 080-12		
n ₁ =900	46	108	0.8	19.556	GKR04 - 2M□□□ 080-33	5-86	
GKS □□ -3M							
n ₁ =2840	554	9	4.3	5.123	GKS04 - 3M□□□ 071-31		
	404	12	4.3	7.025	GKS04 - 3M□□□ 071-31		
	348	14	4.3	8.167	GKS04 - 3M□□□ 071-31		

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

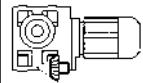
Geared motors

P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
0.55 kW				GKS □□ -3M		
n1=2840	316	16	5.0	8.991	GKS04 - 3M□□□ 071-31	
	289	17	5.0	9.836	GKS04 - 3M□□□ 071-31	
	242	21	4.3	11.730	GKS04 - 3M□□□ 071-31	
	217	23	4.3	13.067	GKS04 - 3M□□□ 071-31	
n1=1400	199	25	3.7	7.025	GKS04 - 3M□□□ 080-12	
	171	29	4.4	8.167	GKS04 - 3M□□□ 080-12	
	156	32	3.2	8.991	GKS04 - 3M□□□ 080-12	
	142	35	3.0	9.836	GKS04 - 3M□□□ 080-12	
	119	42	4.3	11.730	GKS04 - 3M□□□ 080-12	
	106	47	3.5	13.176	GKS05 - 3M□□□ 080-12	
	98	51	3.2	14.333	GKS04 - 3M□□□ 080-12	
	87	57	3.2	16.087	GKS04 - 3M□□□ 080-12	
	78	64	2.6	17.920	GKS04 - 3M□□□ 080-12	
	68	73	2.5	20.588	GKS04 - 3M□□□ 080-12	
	62	80	2.3	22.522	GKS04 - 3M□□□ 080-12	
	56	89	1.9	25.088	GKS04 - 3M□□□ 080-12	
	49	102	1.8	28.727	GKS04 - 3M□□□ 080-12	
	47	107	3.1	29.931	GKS05 - 3M□□□ 080-12	
	44	114	1.5	32.000	GKS04 - 3M□□□ 080-12	
	43	117	2.8	32.744	GKS05 - 3M□□□ 080-12	
	40	125	1.5	35.191	GKS04 - 3M□□□ 080-12	
	38	132	2.3	36.894	GKS05 - 3M□□□ 080-12	
	36	140	1.2	39.200	GKS04 - 3M□□□ 080-12	
	34	149	2.2	41.765	GKS05 - 3M□□□ 080-12	
	32	158	1.2	44.240	GKS04 - 3M□□□ 080-12	
	30	168	1.8	47.059	GKS05 - 3M□□□ 080-12	
	28	182	1.0	50.943	GKS04 - 3M□□□ 080-12	
	27	182	1.8	51.162	GKS05 - 3M□□□ 080-12	
	25	203	0.9	56.976	GKS04 - 3M□□□ 080-12	
	24	205	1.5	57.647	GKS05 - 3M□□□ 080-12	
	21	237	1.4	66.592	GKS05 - 3M□□□ 080-12	
	22	232	2.7	65.207	GKS06 - 3M□□□ 080-12	
	19	267	1.2	75.033	GKS05 - 3M□□□ 080-12	
	19	257	2.7	72.000	GKS06 - 3M□□□ 080-12	
	17	295	1.1	82.833	GKS05 - 3M□□□ 080-12	
	17	289	2.2	81.111	GKS06 - 3M□□□ 080-12	
	15	333	1.0	93.333	GKS05 - 3M□□□ 080-12	
	15	332	2.1	93.176	GKS06 - 3M□□□ 080-12	
	13	382	0.9	107.196	GKS05 - 3M□□□ 080-12	
	13	374	1.7	104.967	GKS06 - 3M□□□ 080-12	
	12	403	1.7	113.082	GKS06 - 3M□□□ 080-12	
	11	454	1.4	127.392	GKS06 - 3M□□□ 080-12	
	11	451	2.7	126.578	GKS07 - 3M□□□ 080-12	
	9.8	509	1.4	142.941	GKS06 - 3M□□□ 080-12	
	8.7	574	1.1	161.029	GKS06 - 3M□□□ 080-12	
	7.4	677	1.0	190.080	GKS06 - 3M□□□ 080-12	
	7.6	658	2.0	184.600	GKS07 - 3M□□□ 080-12	

Thermal limit rating not considered (see page 2-7)

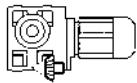
Selection tables – (Helical)-bevel gearboxes

Geared motors



P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
0.55 kW				GKS □□ -3M		5-86
n1=1400	6.5	763	0.8	214.133	GKS06 - 3M□□□ 080-12	
	6.7	741	1.6	208.000	GKS07 - 3M□□□ 080-12	
	6.1	822	0.9	230.688	GKS06 - 3M□□□ 080-12	
	6.3	798	1.7	224.037	GKS07 - 3M□□□ 080-12	
	5.6	900	1.4	252.436	GKS07 - 3M□□□ 080-12	
	4.9	1009	1.3	283.193	GKS07 - 3M□□□ 080-12	
	4.4	1137	1.1	319.091	GKS07 - 3M□□□ 080-12	
				GKS □□ -4M		5-94
	3.9	1257	0.8	358.829	GKS07 - 4M□□□ 080-12	
	3.8	1277	2.4	364.427	GKS09 - 4M□□□ 080-12	
	3.5	1399	0.9	399.353	GKS07 - 4M□□□ 080-12	
	3.5	1409	2.2	402.234	GKS09 - 4M□□□ 080-12	
	3.1	1588	1.9	453.311	GKS09 - 4M□□□ 080-12	
	2.7	1823	1.7	520.538	GKS09 - 4M□□□ 080-12	
	2.4	2055	1.5	586.638	GKS09 - 4M□□□ 080-12	
	2.2	2213	1.4	631.744	GKS09 - 4M□□□ 080-12	
	2.0	2494	1.2	711.965	GKS09 - 4M□□□ 080-12	
	1.7	2864	1.1	817.551	GKS09 - 4M□□□ 080-12	
	1.7	2860	2.1	816.455	GKS11 - 4M□□□ 080-12	
	1.5	3227	1.0	921.367	GKS09 - 4M□□□ 080-12	
	1.5	3222	1.9	919.949	GKS11 - 4M□□□ 080-12	
	1.4	3476	0.9	992.209	GKS09 - 4M□□□ 080-12	
	1.4	3471	1.7	990.879	GKS11 - 4M□□□ 080-12	
	1.3	3911	1.6	1116.484	GKS11 - 4M□□□ 080-12	
	1.1	4387	1.4	1252.516	GKS11 - 4M□□□ 080-12	
	1.0	4944	1.2	1411.286	GKS11 - 4M□□□ 080-12	
n1=900	0.9	5399	1.1	990.879	GKS11 - 4M□□□ 080-33	
	0.8	6084	1.0	1116.484	GKS11 - 4M□□□ 080-33	
	0.7	6825	0.9	1252.516	GKS11 - 4M□□□ 080-33	
0.75 kW				GKR □□ -2M		5-82
n1=2850	550	12	4.5	5.185	GKR04 - 2M□□□ 080-11	
	478	14	4.1	5.963	GKR04 - 2M□□□ 080-11	
	401	17	3.7	7.111	GKR04 - 2M□□□ 080-11	
	349	20	3.4	8.178	GKR04 - 2M□□□ 080-11	
	313	22	3.1	9.101	GKR04 - 2M□□□ 080-11	
	272	25	2.9	10.466	GKR04 - 2M□□□ 080-11	
	249	27	2.7	11.449	GKR04 - 2M□□□ 080-11	
n1=1380	231	29	2.5	5.963	GKR04 - 2M□□□ 080-32	
	194	35	2.2	7.111	GKR04 - 2M□□□ 080-32	
	169	40	2.0	8.178	GKR04 - 2M□□□ 080-32	
	152	45	1.9	9.101	GKR04 - 2M□□□ 080-32	

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

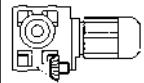
Geared motors

P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
0.75 kW				GKR □□ -2M		
n1=1380	132	52	1.7	10.466	GKR04 - 2M□□□ 080-32	5-82
	121	56	1.6	11.449	GKR04 - 2M□□□ 080-32	
	109	63	1.4	12.698	GKR04 - 2M□□□ 080-32	
	95	72	1.3	14.603	GKR04 - 2M□□□ 080-32	
	89	77	1.2	15.556	GKR04 - 2M□□□ 080-32	
	77	88	1.0	17.889	GKR04 - 2M□□□ 080-32	
	71	96	0.9	19.556	GKR04 - 2M□□□ 080-32	
	61	111	0.8	22.489	GKR04 - 2M□□□ 080-32	
			GKS □□ -3M			5-86
n1=2850	556	12	5.3	5.123	GKS04 - 3M□□□ 080-11	
	406	17	4.5	7.025	GKS04 - 3M□□□ 080-11	
	349	20	5.3	8.167	GKS04 - 3M□□□ 080-11	
	317	22	3.9	8.991	GKS04 - 3M□□□ 080-11	
	290	24	3.7	9.836	GKS04 - 3M□□□ 080-11	
	243	28	5.2	11.730	GKS04 - 3M□□□ 080-11	
	216	32	4.3	13.176	GKS05 - 3M□□□ 080-11	
5	n1=1380	196	35	2.7	7.025	GKS04 - 3M□□□ 080-32
		169	40	3.2	8.167	GKS04 - 3M□□□ 080-32
		154	44	2.3	8.991	GKS04 - 3M□□□ 080-32
		140	49	2.2	9.836	GKS04 - 3M□□□ 080-32
		118	58	3.1	11.730	GKS04 - 3M□□□ 080-32
		106	64	2.6	13.067	GKS04 - 3M□□□ 080-32
		96	71	2.3	14.333	GKS04 - 3M□□□ 080-32
		86	79	2.3	16.087	GKS04 - 3M□□□ 080-32
		77	88	1.9	17.920	GKS04 - 3M□□□ 080-32
		67	102	1.8	20.588	GKS04 - 3M□□□ 080-32
		61	111	1.6	22.522	GKS04 - 3M□□□ 080-32
		55	124	1.4	25.088	GKS04 - 3M□□□ 080-32
		48	142	1.3	28.727	GKS04 - 3M□□□ 080-32
		46	148	2.2	29.931	GKS05 - 3M□□□ 080-32
		43	158	1.1	32.000	GKS04 - 3M□□□ 080-32
		42	161	2.1	32.744	GKS05 - 3M□□□ 080-32
		39	174	1.1	35.191	GKS04 - 3M□□□ 080-32
		37	182	1.7	36.894	GKS05 - 3M□□□ 080-32
		35	193	0.9	39.200	GKS04 - 3M□□□ 080-32
		33	206	1.6	41.765	GKS05 - 3M□□□ 080-32
		31	218	0.9	44.240	GKS04 - 3M□□□ 080-32
		29	232	1.3	47.059	GKS05 - 3M□□□ 080-32
		27	252	1.3	51.162	GKS05 - 3M□□□ 080-32
		24	284	1.1	57.647	GKS05 - 3M□□□ 080-32
		24	285	2.4	57.882	GKS06 - 3M□□□ 080-32
		21	328	1.0	66.592	GKS05 - 3M□□□ 080-32
		21	321	1.9	65.207	GKS06 - 3M□□□ 080-32

Thermal limit rating not considered (see page 2-7)

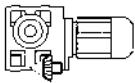
Selection tables – (Helical)-bevel gearboxes

Geared motors



P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
0.75 kW				GKS □□ -3M		
n1=1380	18	370	0.8	75.033	GKS05 - 3M□□□ 080-32	5-86
	19	355	2.0	72.000	GKS06 - 3M□□□ 080-32	
	17	408	0.8	82.833	GKS05 - 3M□□□ 080-32	
	17	400	1.6	81.111	GKS06 - 3M□□□ 080-32	
	15	459	1.5	93.176	GKS06 - 3M□□□ 080-32	
	15	456	2.8	92.563	GKS07 - 3M□□□ 080-32	
	13	517	1.2	104.967	GKS06 - 3M□□□ 080-32	
	13	514	2.4	104.296	GKS07 - 3M□□□ 080-32	
	12	558	1.3	113.082	GKS06 - 3M□□□ 080-32	
	12	554	2.4	112.338	GKS07 - 3M□□□ 080-32	
	11	628	1.0	127.392	GKS06 - 3M□□□ 080-32	
	11	624	2.0	126.578	GKS07 - 3M□□□ 080-32	
	9.7	705	1.0	142.941	GKS06 - 3M□□□ 080-32	
	7.5	910	1.5	184.600	GKS07 - 3M□□□ 080-32	
	6.6	1025	1.2	208.000	GKS07 - 3M□□□ 080-32	
	6.2	1104	1.2	224.037	GKS07 - 3M□□□ 080-32	
	5.5	1244	1.0	252.436	GKS07 - 3M□□□ 080-32	
	4.9	1396	1.0	283.193	GKS07 - 3M□□□ 080-32	
				GKS □□ -4M		
	4.3	1556	0.9	321.049	GKS07 - 4M□□□ 080-32	5-94
	4.3	1567	1.9	323.365	GKS09 - 4M□□□ 080-32	
	3.8	1766	1.7	364.427	GKS09 - 4M□□□ 080-32	
	3.4	1949	1.6	402.234	GKS09 - 4M□□□ 080-32	
	3.0	2197	1.4	453.311	GKS09 - 4M□□□ 080-32	
	2.7	2522	1.2	520.538	GKS09 - 4M□□□ 080-32	
	2.4	2843	1.1	586.638	GKS09 - 4M□□□ 080-32	
	2.2	3061	1.0	631.744	GKS09 - 4M□□□ 080-32	
	1.9	3450	0.9	711.965	GKS09 - 4M□□□ 080-32	
	1.7	3956	1.5	816.455	GKS11 - 4M□□□ 080-32	
	1.5	4458	1.4	919.949	GKS11 - 4M□□□ 080-32	
	1.4	4802	1.2	990.879	GKS11 - 4M□□□ 080-32	
	1.2	5410	1.1	1116.484	GKS11 - 4M□□□ 080-32	
	1.1	6070	1.0	1252.516	GKS11 - 4M□□□ 080-32	
	1.0	6839	0.9	1411.286	GKS11 - 4M□□□ 080-32	
1.1 kW				GKR □□ -2M		
n1=2810	542	18	3.0	5.185	GKR04 - 2M□□□ 080-31	5-82
	471	21	2.8	5.963	GKR04 - 2M□□□ 080-31	
	395	25	2.5	7.111	GKR04 - 2M□□□ 080-31	
	344	29	2.3	8.178	GKR04 - 2M□□□ 080-31	
	309	32	2.1	9.101	GKR04 - 2M□□□ 080-31	
	269	37	1.9	10.466	GKR04 - 2M□□□ 080-31	
	245	41	1.8	11.449	GKR04 - 2M□□□ 080-31	
	221	45	1.6	12.698	GKR04 - 2M□□□ 080-31	
	192	52	1.4	14.603	GKR04 - 2M□□□ 080-31	

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

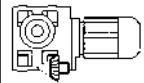
Geared motors

P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
1.1 kW				GKR □□ -2M		
n1=2810	181	55	1.3	15.556	GKR04 - 2M□□□ 080-31	5-82
	157	64	1.2	17.889	GKR04 - 2M□□□ 080-31	
	144	69	1.1	19.556	GKR04 - 2M□□□ 080-31	
	125	80	0.9	22.489	GKR04 - 2M□□□ 080-31	
	112	89	0.9	25.185	GKR04 - 2M□□□ 080-31	
	97	103	0.8	28.963	GKR04 - 2M□□□ 080-31	
				GKS □□ -3M		
	549	18	3.6	5.123	GKS04 - 3M□□□ 080-31	5-86
	400	25	3.0	7.025	GKS04 - 3M□□□ 080-31	
	344	29	3.6	8.167	GKS04 - 3M□□□ 080-31	
	313	32	2.6	8.991	GKS04 - 3M□□□ 080-31	
	286	35	2.5	9.836	GKS04 - 3M□□□ 080-31	
	240	42	3.5	11.730	GKS04 - 3M□□□ 080-31	
	215	46	2.9	13.067	GKS04 - 3M□□□ 080-31	
n1=1410	201	50	1.9	7.025	GKS04 - 3M□□□ 090-12	
	206	49	3.0	6.863	GKS05 - 3M□□□ 090-12	
	173	58	2.2	8.167	GKS04 - 3M□□□ 090-12	
	157	64	1.6	8.991	GKS04 - 3M□□□ 090-12	
	150	67	2.5	9.412	GKS05 - 3M□□□ 090-12	
	143	70	1.5	9.836	GKS04 - 3M□□□ 090-12	
	133	75	3.0	10.569	GKS05 - 3M□□□ 090-12	
	120	83	2.2	11.730	GKS04 - 3M□□□ 090-12	
	121	83	3.0	11.667	GKS05 - 3M□□□ 090-12	
	108	93	1.8	13.067	GKS04 - 3M□□□ 090-12	
	98	101	1.6	14.333	GKS04 - 3M□□□ 090-12	
	97	103	2.5	14.494	GKS05 - 3M□□□ 090-12	
	88	114	1.6	16.087	GKS04 - 3M□□□ 090-12	
	88	113	2.5	16.000	GKS05 - 3M□□□ 090-12	
	79	127	1.3	17.920	GKS04 - 3M□□□ 090-12	
	83	121	2.6	17.054	GKS05 - 3M□□□ 090-12	
	69	146	1.3	20.588	GKS04 - 3M□□□ 090-12	
	73	136	2.2	19.216	GKS05 - 3M□□□ 090-12	
	63	159	1.1	22.522	GKS04 - 3M□□□ 090-12	
	60	166	2.0	23.388	GKS05 - 3M□□□ 090-12	
	54	187	1.6	26.353	GKS05 - 3M□□□ 090-12	
	56	178	0.9	25.088	GKS04 - 3M□□□ 090-12	
	49	203	0.9	28.727	GKS04 - 3M□□□ 090-12	
	47	212	1.6	29.931	GKS05 - 3M□□□ 090-12	
	43	232	1.4	32.744	GKS05 - 3M□□□ 090-12	
	44	227	2.7	32.063	GKS06 - 3M□□□ 090-12	
	38	261	1.2	36.894	GKS05 - 3M□□□ 090-12	
	39	257	2.7	36.303	GKS06 - 3M□□□ 090-12	
	34	296	1.1	41.765	GKS05 - 3M□□□ 090-12	
	30	333	0.9	47.059	GKS05 - 3M□□□ 090-12	
	32	315	2.2	44.471	GKS06 - 3M□□□ 090-12	
	28	362	0.9	51.162	GKS05 - 3M□□□ 090-12	
	27	376	1.9	53.074	GKS06 - 3M□□□ 090-12	

Thermal limit rating not considered (see page 2-7)

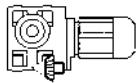
Selection tables – (Helical)-bevel gearboxes

Geared motors



P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
1.1 kW				GKS □□ -3M		
n1=1410	24	410	1.7	57.882	GKS06 - 3M□□□ 090-12	
	25	407	3.2	57.501	GKS07 - 3M□□□ 090-12	
	22	461	1.4	65.207	GKS06 - 3M□□□ 090-12	
	22	459	2.6	64.790	GKS07 - 3M□□□ 090-12	
	20	510	1.4	72.000	GKS06 - 3M□□□ 090-12	
	20	499	2.7	70.474	GKS07 - 3M□□□ 090-12	
	17	574	1.1	81.111	GKS06 - 3M□□□ 090-12	
	18	562	2.1	79.407	GKS07 - 3M□□□ 090-12	
	15	659	1.1	93.176	GKS06 - 3M□□□ 090-12	
	15	655	2.0	92.563	GKS07 - 3M□□□ 090-12	
	13	743	0.9	104.967	GKS06 - 3M□□□ 090-12	
	14	738	1.7	104.296	GKS07 - 3M□□□ 090-12	
	13	800	0.9	113.082	GKS06 - 3M□□□ 090-12	
	13	795	1.7	112.338	GKS07 - 3M□□□ 090-12	
	11	896	1.4	126.578	GKS07 - 3M□□□ 090-12	
	10	995	1.3	140.548	GKS07 - 3M□□□ 090-12	
	10	997	2.6	140.921	GKS09 - 3M□□□ 090-12	
	8.9	1121	1.1	158.364	GKS07 - 3M□□□ 090-12	
	8.9	1124	2.6	158.816	GKS09 - 3M□□□ 090-12	
	7.6	1306	1.0	184.600	GKS07 - 3M□□□ 090-12	
	7.8	1288	2.4	182.000	GKS09 - 3M□□□ 090-12	
	6.8	1472	0.8	208.000	GKS07 - 3M□□□ 090-12	
	6.9	1451	2.1	205.111	GKS09 - 3M□□□ 090-12	
	6.3	1585	0.8	224.037	GKS07 - 3M□□□ 090-12	
	6.4	1563	1.9	220.882	GKS09 - 3M□□□ 090-12	
	5.7	1762	1.8	248.930	GKS09 - 3M□□□ 090-12	
	5.1	1976	1.5	279.205	GKS09 - 3M□□□ 090-12	
	4.5	2227	1.4	314.659	GKS09 - 3M□□□ 090-12	
				GKS □□ -4M		
	3.9	2535	1.2	364.427	GKS09 - 4M□□□ 090-12	
	3.9	2531	2.4	363.866	GKS11 - 4M□□□ 090-12	
	3.5	2798	1.1	402.234	GKS09 - 4M□□□ 090-12	
	3.6	2753	2.2	395.787	GKS11 - 4M□□□ 090-12	
	3.1	3153	1.0	453.311	GKS09 - 4M□□□ 090-12	
	3.2	3102	1.9	445.958	GKS11 - 4M□□□ 090-12	
	2.7	3621	0.8	520.538	GKS09 - 4M□□□ 090-12	
	2.8	3563	1.7	512.195	GKS11 - 4M□□□ 090-12	
	2.4	4015	1.5	577.122	GKS11 - 4M□□□ 090-12	
	2.3	4324	1.4	621.619	GKS11 - 4M□□□ 090-12	
	2.0	4872	1.3	700.416	GKS11 - 4M□□□ 090-12	
	1.7	5679	1.1	816.455	GKS11 - 4M□□□ 090-12	
	1.8	5606	2.1	805.901	GKS14 - 4M□□□ 090-12	
	1.5	6399	1.0	919.949	GKS11 - 4M□□□ 090-12	
	1.6	6316	1.8	908.058	GKS14 - 4M□□□ 090-12	
	1.4	6893	0.9	990.879	GKS11 - 4M□□□ 090-12	
	1.4	6804	1.7	978.071	GKS14 - 4M□□□ 090-12	
	1.3	7666	1.5	1102.052	GKS14 - 4M□□□ 090-12	
	1.1	8600	1.3	1236.326	GKS14 - 4M□□□ 090-12	
	1.0	9690	1.2	1393.043	GKS14 - 4M□□□ 090-12	

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

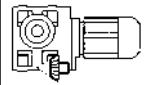
Geared motors

P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
1.5 kW					GKS □□ -3M	
n1=2840	554	25	2.7	5.123	GKS04 - 3M□□□ 090-11	
	404	34	2.2	7.025	GKS04 - 3M□□□ 090-11	
	348	39	2.7	8.167	GKS04 - 3M□□□ 090-11	
	316	43	1.9	8.991	GKS04 - 3M□□□ 090-11	
	302	45	3.0	9.412	GKS05 - 3M□□□ 090-11	
	289	47	1.8	9.836	GKS04 - 3M□□□ 090-11	
	242	56	2.6	11.730	GKS04 - 3M□□□ 090-11	
	217	63	2.1	13.067	GKS04 - 3M□□□ 090-11	
n1=1420	202	67	1.4	7.025	GKS04 - 3M□□□ 090-32	
	207	66	2.2	6.863	GKS05 - 3M□□□ 090-32	
	174	78	1.6	8.167	GKS04 - 3M□□□ 090-32	
	158	86	1.2	8.991	GKS04 - 3M□□□ 090-32	
	151	90	1.8	9.412	GKS05 - 3M□□□ 090-32	
	144	94	1.1	9.836	GKS04 - 3M□□□ 090-32	
	134	101	2.2	10.569	GKS05 - 3M□□□ 090-32	
	121	112	1.6	11.730	GKS04 - 3M□□□ 090-32	
	122	112	2.2	11.667	GKS05 - 3M□□□ 090-32	
	109	125	1.3	13.067	GKS04 - 3M□□□ 090-32	
	99	137	1.2	14.333	GKS04 - 3M□□□ 090-32	
	98	139	1.8	14.494	GKS05 - 3M□□□ 090-32	
	88	154	1.2	16.087	GKS04 - 3M□□□ 090-32	
	89	153	1.8	16.000	GKS05 - 3M□□□ 090-32	
	79	172	1.0	17.920	GKS04 - 3M□□□ 090-32	
	83	163	1.9	17.054	GKS05 - 3M□□□ 090-32	
	80	171	3.0	17.809	GKS06 - 3M□□□ 090-32	
	69	197	0.9	20.588	GKS04 - 3M□□□ 090-32	
	74	184	1.6	19.216	GKS05 - 3M□□□ 090-32	
	63	216	0.8	22.522	GKS04 - 3M□□□ 090-32	
	61	224	1.5	23.388	GKS05 - 3M□□□ 090-32	
	54	253	1.2	26.353	GKS05 - 3M□□□ 090-32	
	55	249	2.7	26.017	GKS06 - 3M□□□ 090-32	
	47	287	1.2	29.931	GKS05 - 3M□□□ 090-32	
	50	273	2.5	28.461	GKS06 - 3M□□□ 090-32	
	43	314	1.1	32.744	GKS05 - 3M□□□ 090-32	
	44	307	2.0	32.063	GKS06 - 3M□□□ 090-32	
	39	354	0.9	36.894	GKS05 - 3M□□□ 090-32	
	39	348	2.0	36.303	GKS06 - 3M□□□ 090-32	
	34	400	0.8	41.765	GKS05 - 3M□□□ 090-32	
	32	426	1.6	44.471	GKS06 - 3M□□□ 090-32	
	27	509	1.4	53.074	GKS06 - 3M□□□ 090-32	
	25	555	1.3	57.882	GKS06 - 3M□□□ 090-32	
	25	551	2.4	57.501	GKS07 - 3M□□□ 090-32	
	22	625	1.0	65.207	GKS06 - 3M□□□ 090-32	
	22	621	1.9	64.790	GKS07 - 3M□□□ 090-32	
	20	690	1.0	72.000	GKS06 - 3M□□□ 090-32	
	20	675	2.0	70.474	GKS07 - 3M□□□ 090-32	
	18	777	0.8	81.111	GKS06 - 3M□□□ 090-32	
	18	761	1.6	79.407	GKS07 - 3M□□□ 090-32	

Thermal limit rating not considered (see page 2-7)

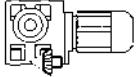
Selection tables – (Helical)-bevel gearboxes

Geared motors



P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
1.5 kW				GKS □□ -3M		
n1=1420	15	887	1.5	92.563	GKS07 - 3M□□□ 090-32	5-86
	16	880	2.9	91.860	GKS09 - 3M□□□ 090-32	
	14	999	1.2	104.296	GKS07 - 3M□□□ 090-32	
	14	992	2.9	103.524	GKS09 - 3M□□□ 090-32	
	13	1076	1.2	112.338	GKS07 - 3M□□□ 090-32	
	13	1068	2.5	111.484	GKS09 - 3M□□□ 090-32	
	11	1213	1.0	126.578	GKS07 - 3M□□□ 090-32	
	11	1204	2.5	125.641	GKS09 - 3M□□□ 090-32	
	10	1347	1.0	140.548	GKS07 - 3M□□□ 090-32	
	10	1350	2.0	140.921	GKS09 - 3M□□□ 090-32	
	9.0	1517	0.8	158.364	GKS07 - 3M□□□ 090-32	
	8.9	1522	2.0	158.816	GKS09 - 3M□□□ 090-32	
	7.8	1744	1.7	182.000	GKS09 - 3M□□□ 090-32	
	6.9	1965	1.6	205.111	GKS09 - 3M□□□ 090-32	
	6.4	2116	1.4	220.882	GKS09 - 3M□□□ 090-32	
	5.7	2385	1.3	248.930	GKS09 - 3M□□□ 090-32	
	5.1	2675	1.1	279.205	GKS09 - 3M□□□ 090-32	
	4.5	3015	1.0	314.659	GKS09 - 3M□□□ 090-32	
				GKS □□ -4M		
	3.9	3432	0.9	364.427	GKS09 - 4M□□□ 090-32	5-94
	3.9	3427	1.8	363.866	GKS11 - 4M□□□ 090-32	
	3.5	3789	0.8	402.234	GKS09 - 4M□□□ 090-32	
	3.6	3728	1.6	395.787	GKS11 - 4M□□□ 090-32	
	3.2	4200	1.4	445.958	GKS11 - 4M□□□ 090-32	
	2.8	4824	1.2	512.195	GKS11 - 4M□□□ 090-32	
	2.5	5436	1.1	577.122	GKS11 - 4M□□□ 090-32	
	2.3	5855	1.0	621.619	GKS11 - 4M□□□ 090-32	
	2.0	6597	0.9	700.416	GKS11 - 4M□□□ 090-32	
	1.8	7591	1.5	805.901	GKS14 - 4M□□□ 090-32	
	1.6	8553	1.4	908.058	GKS14 - 4M□□□ 090-32	
	1.5	9212	1.3	978.071	GKS14 - 4M□□□ 090-32	
	1.3	10380	1.1	1102.052	GKS14 - 4M□□□ 090-32	
	1.2	11645	1.0	1236.326	GKS14 - 4M□□□ 090-32	
	1.0	13121	0.9	1393.043	GKS14 - 4M□□□ 090-32	
2.2 kW				GKS □□ -3M		
n1=2840	554	36	1.8	5.123	GKS04 - 3M□□□ 090-31	5-86
	404	49	1.5	7.025	GKS04 - 3M□□□ 090-31	
	414	48	2.5	6.863	GKS05 - 3M□□□ 090-31	
	348	57	1.8	8.167	GKS04 - 3M□□□ 090-31	
	316	63	1.3	8.991	GKS04 - 3M□□□ 090-31	
	302	66	2.0	9.412	GKS05 - 3M□□□ 090-31	
	289	69	1.2	9.836	GKS04 - 3M□□□ 090-31	
	269	74	2.5	10.569	GKS05 - 3M□□□ 090-31	
	242	82	1.8	11.730	GKS04 - 3M□□□ 090-31	
	243	82	2.5	11.667	GKS05 - 3M□□□ 090-31	

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

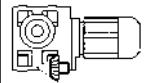
Geared motors

P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
2.2 kW				GKS □□ -3M		
n1=2840	217	92	1.5	13.067	GKS04 - 3M□□□ 090-31	5-86
	198	101	1.3	14.333	GKS04 - 3M□□□ 090-31	
	196	102	2.0	14.494	GKS05 - 3M□□□ 090-31	
	177	113	1.3	16.087	GKS04 - 3M□□□ 090-31	
	178	112	2.0	16.000	GKS05 - 3M□□□ 090-31	
n1=1400	149	134	1.2	9.412	GKS05 - 3M□□□ 100-12	
	152	131	2.9	9.196	GKS06 - 3M□□□ 100-12	
	133	151	1.5	10.569	GKS05 - 3M□□□ 100-12	
	138	145	2.9	10.147	GKS06 - 3M□□□ 100-12	
	120	166	1.5	11.667	GKS05 - 3M□□□ 100-12	
	123	162	2.0	11.382	GKS06 - 3M□□□ 100-12	
	106	188	0.9	13.176	GKS05 - 3M□□□ 100-12	
	111	180	2.4	12.612	GKS06 - 3M□□□ 100-12	
	97	207	1.2	14.494	GKS05 - 3M□□□ 100-12	
	94	211	2.8	14.824	GKS06 - 3M□□□ 100-12	
	88	228	1.2	16.000	GKS05 - 3M□□□ 100-12	
	84	238	2.5	16.699	GKS06 - 3M□□□ 100-12	
	82	243	1.3	17.054	GKS05 - 3M□□□ 100-12	
	79	254	2.0	17.809	GKS06 - 3M□□□ 100-12	
	73	274	1.1	19.216	GKS05 - 3M□□□ 100-12	
	69	290	2.3	20.329	GKS06 - 3M□□□ 100-12	
	60	333	1.0	23.388	GKS05 - 3M□□□ 100-12	
	61	326	1.9	22.902	GKS06 - 3M□□□ 100-12	
	54	371	1.8	26.017	GKS06 - 3M□□□ 100-12	
	49	406	1.7	28.461	GKS06 - 3M□□□ 100-12	
	50	403	3.0	28.274	GKS07 - 3M□□□ 100-12	
	44	457	1.3	32.063	GKS06 - 3M□□□ 100-12	
	44	454	2.6	31.858	GKS07 - 3M□□□ 100-12	
	39	517	1.3	36.303	GKS06 - 3M□□□ 100-12	
	39	514	2.5	36.063	GKS07 - 3M□□□ 100-12	
	34	591	1.2	41.472	GKS06 - 3M□□□ 100-12	
	32	634	1.1	44.471	GKS06 - 3M□□□ 100-12	
	32	630	2.1	44.178	GKS07 - 3M□□□ 100-12	
	26	757	0.9	53.074	GKS06 - 3M□□□ 100-12	
	28	718	1.8	50.345	GKS07 - 3M□□□ 100-12	
	24	825	0.8	57.882	GKS06 - 3M□□□ 100-12	
	24	820	1.6	57.501	GKS07 - 3M□□□ 100-12	
	22	924	1.3	64.790	GKS07 - 3M□□□ 100-12	
	21	939	3.3	65.879	GKS09 - 3M□□□ 100-12	
	20	1005	1.3	70.474	GKS07 - 3M□□□ 100-12	
	20	1012	3.0	70.982	GKS09 - 3M□□□ 100-12	
	18	1132	1.1	79.407	GKS07 - 3M□□□ 100-12	
	18	1140	2.7	79.996	GKS09 - 3M□□□ 100-12	
	15	1319	1.0	92.563	GKS07 - 3M□□□ 100-12	
	15	1309	2.3	91.860	GKS09 - 3M□□□ 100-12	
	13	1487	0.8	104.296	GKS07 - 3M□□□ 100-12	
	14	1476	2.1	103.524	GKS09 - 3M□□□ 100-12	
	13	1601	0.8	112.338	GKS07 - 3M□□□ 100-12	
	13	1589	1.9	111.484	GKS09 - 3M□□□ 100-12	
	13	1587	2.8	111.335	GKS11 - 3M□□□ 100-12	

Thermal limit rating not considered (see page 2-7)

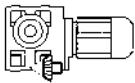
Selection tables – (Helical)-bevel gearboxes

Geared motors



P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
2.2 kW				GKS □□ -3M		
n1=1400	11	1791	1.7	125.641	GKS09 - 3M□□□ 100-12	5-86
	11	1788	2.8	125.448	GKS11 - 3M□□□ 100-12	
	9.9	2009	1.5	140.921	GKS09 - 3M□□□ 100-12	
	10.0	2006	2.3	140.732	GKS11 - 3M□□□ 100-12	
	8.8	2264	1.4	158.816	GKS09 - 3M□□□ 100-12	
	8.8	2260	2.3	158.571	GKS11 - 3M□□□ 100-12	
	7.7	2594	1.2	182.000	GKS09 - 3M□□□ 100-12	
	7.5	2659	2.3	186.572	GKS11 - 3M□□□ 100-12	
	6.8	2924	1.1	205.111	GKS09 - 3M□□□ 100-12	
	6.7	2996	2.0	210.222	GKS11 - 3M□□□ 100-12	
	6.3	3148	1.0	220.882	GKS09 - 3M□□□ 100-12	
	6.2	3228	1.9	226.431	GKS11 - 3M□□□ 100-12	
	5.6	3548	0.9	248.930	GKS09 - 3M□□□ 100-12	
	5.5	3637	1.6	255.133	GKS11 - 3M□□□ 100-12	
	4.9	4080	1.5	286.219	GKS11 - 3M□□□ 100-12	
	4.3	4597	1.3	322.500	GKS11 - 3M□□□ 100-12	
				GKS □□ -4M		
	3.9	5098	1.2	363.866	GKS11 - 4M□□□ 100-12	5-94
	3.9	5079	2.3	362.512	GKS14 - 4M□□□ 100-12	
	3.5	5546	1.1	395.787	GKS11 - 4M□□□ 100-12	
	3.6	5474	2.1	390.672	GKS14 - 4M□□□ 100-12	
	3.1	6249	1.0	445.958	GKS11 - 4M□□□ 100-12	
	3.2	6168	1.9	440.193	GKS14 - 4M□□□ 100-12	
	2.7	7177	0.8	512.195	GKS11 - 4M□□□ 100-12	
	2.7	7190	1.6	513.121	GKS14 - 4M□□□ 100-12	
	2.4	8101	1.4	578.164	GKS14 - 4M□□□ 100-12	
	2.3	8726	1.3	622.742	GKS14 - 4M□□□ 100-12	
	2.0	9832	1.2	701.681	GKS14 - 4M□□□ 100-12	
	1.7	11292	1.0	805.901	GKS14 - 4M□□□ 100-12	
	1.5	12723	0.9	908.058	GKS14 - 4M□□□ 100-12	
	1.4	13704	0.8	978.071	GKS14 - 4M□□□ 100-12	
3 kW				GKS □□ -3M		
n1=2850	440	62	3.4	6.485	GKS06 - 3M□□□ 100-31	5-86
	415	66	1.8	6.863	GKS05 - 3M□□□ 100-31	
	303	90	1.5	9.412	GKS05 - 3M□□□ 100-31	
	270	101	1.8	10.569	GKS05 - 3M□□□ 100-31	
	244	111	1.8	11.667	GKS05 - 3M□□□ 100-31	
	250	109	2.5	11.382	GKS06 - 3M□□□ 100-31	
	216	126	1.1	13.176	GKS05 - 3M□□□ 100-31	
	226	120	2.9	12.612	GKS06 - 3M□□□ 100-31	
	197	138	1.5	14.494	GKS05 - 3M□□□ 100-31	
	178	153	1.5	16.000	GKS05 - 3M□□□ 100-31	
	171	159	3.1	16.699	GKS06 - 3M□□□ 100-31	
	167	163	1.6	17.054	GKS05 - 3M□□□ 100-31	
	160	170	2.5	17.809	GKS06 - 3M□□□ 100-31	

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

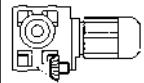
Geared motors

P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
3 kW					GKS □□ -3M	
n1=1400	149	183	0.9	9.412	GKS05 - 3M□□□ 100-32	
	152	179	2.1	9.196	GKS06 - 3M□□□ 100-32	
	133	205	1.1	10.569	GKS05 - 3M□□□ 100-32	
	138	197	2.1	10.147	GKS06 - 3M□□□ 100-32	
	120	227	1.1	11.667	GKS05 - 3M□□□ 100-32	
	123	221	1.5	11.382	GKS06 - 3M□□□ 100-32	
	123	221	2.8	11.378	GKS07 - 3M□□□ 100-32	
	111	245	1.7	12.612	GKS06 - 3M□□□ 100-32	
	97	282	0.9	14.494	GKS05 - 3M□□□ 100-32	
	94	288	2.1	14.824	GKS06 - 3M□□□ 100-32	
	88	311	0.9	16.000	GKS05 - 3M□□□ 100-32	
	84	325	1.9	16.699	GKS06 - 3M□□□ 100-32	
	82	332	1.0	17.054	GKS05 - 3M□□□ 100-32	
	79	346	1.5	17.809	GKS06 - 3M□□□ 100-32	
	81	336	3.0	17.270	GKS07 - 3M□□□ 100-32	
	69	395	1.7	20.329	GKS06 - 3M□□□ 100-32	
	61	445	1.4	22.902	GKS06 - 3M□□□ 100-32	
	54	506	1.3	26.017	GKS06 - 3M□□□ 100-32	
	56	491	2.4	25.244	GKS07 - 3M□□□ 100-32	
	49	553	1.2	28.461	GKS06 - 3M□□□ 100-32	
	50	550	2.2	28.274	GKS07 - 3M□□□ 100-32	
	44	623	1.0	32.063	GKS06 - 3M□□□ 100-32	
	44	619	1.9	31.858	GKS07 - 3M□□□ 100-32	
	39	706	1.0	36.303	GKS06 - 3M□□□ 100-32	
	39	701	1.8	36.063	GKS07 - 3M□□□ 100-32	
	34	806	0.9	41.472	GKS06 - 3M□□□ 100-32	
	32	859	1.5	44.178	GKS07 - 3M□□□ 100-32	
	28	979	1.3	50.345	GKS07 - 3M□□□ 100-32	
	24	1118	1.2	57.501	GKS07 - 3M□□□ 100-32	
	24	1136	2.7	58.456	GKS09 - 3M□□□ 100-32	
	22	1259	1.0	64.790	GKS07 - 3M□□□ 100-32	
	21	1281	2.4	65.879	GKS09 - 3M□□□ 100-32	
	20	1370	1.0	70.474	GKS07 - 3M□□□ 100-32	
	20	1380	2.2	70.982	GKS09 - 3M□□□ 100-32	
	18	1555	2.0	79.996	GKS09 - 3M□□□ 100-32	
	15	1786	1.7	91.860	GKS09 - 3M□□□ 100-32	
	15	1783	2.5	91.737	GKS11 - 3M□□□ 100-32	
	14	2012	1.5	103.524	GKS09 - 3M□□□ 100-32	
	14	2009	2.5	103.365	GKS11 - 3M□□□ 100-32	
	13	2167	1.4	111.484	GKS09 - 3M□□□ 100-32	
	13	2164	2.1	111.335	GKS11 - 3M□□□ 100-32	
	11	2442	1.3	125.641	GKS09 - 3M□□□ 100-32	
	11	2438	2.1	125.448	GKS11 - 3M□□□ 100-32	
	9.9	2739	1.1	140.921	GKS09 - 3M□□□ 100-32	
	10.0	2735	1.7	140.732	GKS11 - 3M□□□ 100-32	
	8.8	3087	1.0	158.816	GKS09 - 3M□□□ 100-32	
	8.8	3082	1.7	158.571	GKS11 - 3M□□□ 100-32	
	7.7	3538	0.9	182.000	GKS09 - 3M□□□ 100-32	
	7.5	3626	1.7	186.572	GKS11 - 3M□□□ 100-32	
	6.7	4086	1.4	210.222	GKS11 - 3M□□□ 100-32	
	6.2	4401	1.4	226.431	GKS11 - 3M□□□ 100-32	

Thermal limit rating not considered (see page 2-7)

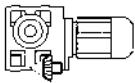
Selection tables – (Helical)-bevel gearboxes

Geared motors



P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
3 kW				GKS □□ -3M		
n1=1400	5.5	4959	1.2	255.133	GKS11 - 3M□□□ 100-32	5-86
	4.9	5563	1.1	286.219	GKS11 - 3M□□□ 100-32	
	4.3	6268	0.9	322.500	GKS11 - 3M□□□ 100-32	
				GKS □□ -4M		
	3.9	6952	0.9	363.866	GKS11 - 4M□□□ 100-32	5-94
	3.9	6926	1.7	362.512	GKS14 - 4M□□□ 100-32	
	3.6	7464	1.5	390.672	GKS14 - 4M□□□ 100-32	
	3.2	8411	1.4	440.193	GKS14 - 4M□□□ 100-32	
	2.7	9804	1.2	513.121	GKS14 - 4M□□□ 100-32	
	2.4	11047	1.1	578.164	GKS14 - 4M□□□ 100-32	
	2.3	11898	1.0	622.742	GKS14 - 4M□□□ 100-32	
	2.0	13407	0.9	701.681	GKS14 - 4M□□□ 100-32	
4 kW				GKS □□ -3M		
n1=2830	436	83	2.6	6.485	GKS06 - 3M□□□ 100-41	5-86
	412	88	1.4	6.863	GKS05 - 3M□□□ 100-41	
	301	121	1.1	9.412	GKS05 - 3M□□□ 100-41	
	308	118	2.6	9.196	GKS06 - 3M□□□ 100-41	
	268	136	1.4	10.569	GKS05 - 3M□□□ 100-41	
	279	130	2.6	10.147	GKS06 - 3M□□□ 100-41	
	243	150	1.4	11.667	GKS05 - 3M□□□ 100-41	
	249	146	1.8	11.382	GKS06 - 3M□□□ 100-41	
	224	162	2.1	12.612	GKS06 - 3M□□□ 100-41	
	195	186	1.1	14.494	GKS05 - 3M□□□ 100-41	
	191	190	2.6	14.824	GKS06 - 3M□□□ 100-41	
	177	205	1.1	16.000	GKS05 - 3M□□□ 100-41	
	170	214	2.3	16.699	GKS06 - 3M□□□ 100-41	
	166	219	1.2	17.054	GKS05 - 3M□□□ 100-41	
	159	228	1.8	17.809	GKS06 - 3M□□□ 100-41	
n1=1430	156	233	1.6	9.196	GKS06 - 3M□□□ 112-22	
	156	233	3.1	9.171	GKS07 - 3M□□□ 112-22	
	141	258	1.6	10.147	GKS06 - 3M□□□ 112-22	
	141	257	3.1	10.124	GKS07 - 3M□□□ 112-22	
	126	289	1.2	11.382	GKS06 - 3M□□□ 112-22	
	126	289	2.1	11.378	GKS07 - 3M□□□ 112-22	
	113	320	1.3	12.612	GKS06 - 3M□□□ 112-22	
	113	323	2.6	12.711	GKS07 - 3M□□□ 112-22	
	97	376	1.6	14.824	GKS06 - 3M□□□ 112-22	
	97	376	2.8	14.798	GKS07 - 3M□□□ 112-22	
	86	424	1.4	16.699	GKS06 - 3M□□□ 112-22	
	86	423	2.5	16.674	GKS07 - 3M□□□ 112-22	
	80	452	1.2	17.809	GKS06 - 3M□□□ 112-22	
	83	438	2.3	17.270	GKS07 - 3M□□□ 112-22	
	70	516	1.3	20.329	GKS06 - 3M□□□ 112-22	
	70	520	2.1	20.511	GKS07 - 3M□□□ 112-22	
	62	581	1.0	22.902	GKS06 - 3M□□□ 112-22	
	62	586	2.0	23.111	GKS07 - 3M□□□ 112-22	

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

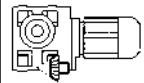
Geared motors

P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
4 kW					GKS □□ -3M	
n1=1430	55	660	1.0	26.017	GKS06 - 3M□□□ 112-22	
	57	641	1.8	25.244	GKS07 - 3M□□□ 112-22	
	50	722	0.9	28.461	GKS06 - 3M□□□ 112-22	
	51	717	1.7	28.274	GKS07 - 3M□□□ 112-22	
	45	808	1.5	31.858	GKS07 - 3M□□□ 112-22	
	40	915	1.4	36.063	GKS07 - 3M□□□ 112-22	
	35	1038	1.2	40.906	GKS07 - 3M□□□ 112-22	
	36	1006	3.0	39.662	GKS09 - 3M□□□ 112-22	
	32	1121	1.2	44.178	GKS07 - 3M□□□ 112-22	
	33	1095	2.8	43.146	GKS09 - 3M□□□ 112-22	
	28	1277	1.0	50.345	GKS07 - 3M□□□ 112-22	
	29	1234	2.5	48.625	GKS09 - 3M□□□ 112-22	
	25	1459	0.9	57.501	GKS07 - 3M□□□ 112-22	
	25	1483	2.0	58.456	GKS09 - 3M□□□ 112-22	
	22	1672	1.8	65.879	GKS09 - 3M□□□ 112-22	
	22	1649	3.2	64.995	GKS11 - 3M□□□ 112-22	
	20	1801	1.7	70.982	GKS09 - 3M□□□ 112-22	
	20	1799	2.7	70.887	GKS11 - 3M□□□ 112-22	
	18	2030	1.5	79.996	GKS09 - 3M□□□ 112-22	
	18	2027	2.7	79.873	GKS11 - 3M□□□ 112-22	
	16	2331	1.3	91.860	GKS09 - 3M□□□ 112-22	
	16	2328	2.2	91.737	GKS11 - 3M□□□ 112-22	
	14	2627	1.2	103.524	GKS09 - 3M□□□ 112-22	
	14	2623	2.2	103.365	GKS11 - 3M□□□ 112-22	
	13	2829	1.1	111.484	GKS09 - 3M□□□ 112-22	
	13	2825	1.8	111.335	GKS11 - 3M□□□ 112-22	
	13	2788	2.2	109.896	GKS14 - 3M□□□ 112-22	
	11	3188	1.0	125.641	GKS09 - 3M□□□ 112-22	
	11	3183	1.8	125.448	GKS11 - 3M□□□ 112-22	
	12	3142	2.2	123.826	GKS14 - 3M□□□ 112-22	
	10	3571	1.4	140.732	GKS11 - 3M□□□ 112-22	
	10	3525	1.8	138.913	GKS14 - 3M□□□ 112-22	
	9.0	4023	1.4	158.571	GKS11 - 3M□□□ 112-22	
	9.1	3971	1.8	156.522	GKS14 - 3M□□□ 112-22	
	7.7	4734	1.3	186.572	GKS11 - 3M□□□ 112-22	
	7.7	4734	2.5	186.572	GKS14 - 3M□□□ 112-22	
	6.8	5334	1.1	210.222	GKS11 - 3M□□□ 112-22	
	6.8	5334	2.2	210.222	GKS14 - 3M□□□ 112-22	
	6.3	5745	1.0	226.431	GKS11 - 3M□□□ 112-22	
	6.3	5745	2.0	226.431	GKS14 - 3M□□□ 112-22	
	5.6	6473	0.9	255.133	GKS11 - 3M□□□ 112-22	
	5.6	6473	1.8	255.133	GKS14 - 3M□□□ 112-22	
	5.0	7262	0.8	286.219	GKS11 - 3M□□□ 112-22	
	5.0	7262	1.6	286.219	GKS14 - 3M□□□ 112-22	
	4.4	8183	1.4	322.500	GKS14 - 3M□□□ 112-22	
					GKS □□ -4M	5-94
	3.9	9041	1.3	362.512	GKS14 - 4M□□□ 112-22	
	3.7	9744	1.2	390.672	GKS14 - 4M□□□ 112-22	
	3.3	10979	1.1	440.193	GKS14 - 4M□□□ 112-22	
	2.8	12798	0.9	513.121	GKS14 - 4M□□□ 112-22	
	2.5	14420	0.8	578.164	GKS14 - 4M□□□ 112-22	

Thermal limit rating not considered (see page 2-7)

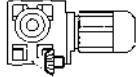
Selection tables – (Helical)-bevel gearboxes

Geared motors



P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
5.5 kW				GKS □□ -3M		
n1=2890	446	112	1.9	6.485	GKS06 - 3M□□□ 112-31	5-86
	350	143	3.1	8.254	GKS07 - 3M□□□ 112-31	
	314	159	1.9	9.196	GKS06 - 3M□□□ 112-31	
	285	175	1.9	10.147	GKS06 - 3M□□□ 112-31	
	254	197	1.4	11.382	GKS06 - 3M□□□ 112-31	
	254	196	2.5	11.378	GKS07 - 3M□□□ 112-31	
	229	218	1.6	12.612	GKS06 - 3M□□□ 112-31	
	227	219	3.1	12.711	GKS07 - 3M□□□ 112-31	
	195	256	1.9	14.824	GKS06 - 3M□□□ 112-31	
	173	288	1.7	16.699	GKS06 - 3M□□□ 112-31	
	173	288	3.0	16.674	GKS07 - 3M□□□ 112-31	
	162	307	1.4	17.809	GKS06 - 3M□□□ 112-31	
	167	298	2.7	17.270	GKS07 - 3M□□□ 112-31	
n1=1440	157	319	1.2	9.196	GKS06 - 3M□□□ 112-32	
	157	318	2.3	9.171	GKS07 - 3M□□□ 112-32	
	142	352	1.2	10.147	GKS06 - 3M□□□ 112-32	
	142	351	2.3	10.124	GKS07 - 3M□□□ 112-32	
	127	394	0.8	11.382	GKS06 - 3M□□□ 112-32	
	127	394	1.6	11.378	GKS07 - 3M□□□ 112-32	
	114	437	1.0	12.612	GKS06 - 3M□□□ 112-32	
	113	440	1.9	12.711	GKS07 - 3M□□□ 112-32	
	97	514	1.2	14.824	GKS06 - 3M□□□ 112-32	
	97	513	2.0	14.798	GKS07 - 3M□□□ 112-32	
	86	579	1.0	16.699	GKS06 - 3M□□□ 112-32	
	86	578	1.9	16.674	GKS07 - 3M□□□ 112-32	
	89	559	3.2	16.122	GKS09 - 3M□□□ 112-32	
	81	617	0.8	17.809	GKS06 - 3M□□□ 112-32	
	83	598	1.7	17.270	GKS07 - 3M□□□ 112-32	
	82	608	3.2	17.536	GKS09 - 3M□□□ 112-32	
	71	704	0.9	20.329	GKS06 - 3M□□□ 112-32	
	70	711	1.6	20.511	GKS07 - 3M□□□ 112-32	
	62	801	1.5	23.111	GKS07 - 3M□□□ 112-32	
	57	875	1.4	25.244	GKS07 - 3M□□□ 112-32	
	56	889	3.2	25.649	GKS09 - 3M□□□ 112-32	
	51	980	1.2	28.274	GKS07 - 3M□□□ 112-32	
	49	1013	2.9	29.228	GKS09 - 3M□□□ 112-32	
	45	1104	1.1	31.858	GKS07 - 3M□□□ 112-32	
	44	1141	2.6	32.940	GKS09 - 3M□□□ 112-32	
	40	1249	1.0	36.063	GKS07 - 3M□□□ 112-32	
	41	1219	2.5	35.193	GKS09 - 3M□□□ 112-32	
	35	1417	0.9	40.906	GKS07 - 3M□□□ 112-32	
	36	1374	2.2	39.662	GKS09 - 3M□□□ 112-32	
	33	1531	0.9	44.178	GKS07 - 3M□□□ 112-32	
	33	1495	2.0	43.146	GKS09 - 3M□□□ 112-32	
	30	1685	1.8	48.625	GKS09 - 3M□□□ 112-32	
	25	2025	1.5	58.456	GKS09 - 3M□□□ 112-32	
	25	1998	2.3	57.683	GKS11 - 3M□□□ 112-32	
	22	2282	1.3	65.879	GKS09 - 3M□□□ 112-32	
	22	2252	2.3	64.995	GKS11 - 3M□□□ 112-32	
	20	2459	1.2	70.982	GKS09 - 3M□□□ 112-32	
	20	2456	2.0	70.887	GKS11 - 3M□□□ 112-32	

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

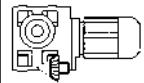
Geared motors

P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
5.5 kW				GKS □□ -3M		5-86
	n1=1440	18	2771	79.996	GKS09 - 3M□□□ 112-32	
		18	2767	79.873	GKS11 - 3M□□□ 112-32	
		16	3182	91.860	GKS09 - 3M□□□ 112-32	
		16	3178	91.737	GKS11 - 3M□□□ 112-32	
		16	3137	90.551	GKS14 - 3M□□□ 112-32	
		14	3587	103.524	GKS09 - 3M□□□ 112-32	
		14	3581	103.365	GKS11 - 3M□□□ 112-32	
		14	3535	102.029	GKS14 - 3M□□□ 112-32	
		13	3857	111.335	GKS11 - 3M□□□ 112-32	
		13	3807	109.896	GKS14 - 3M□□□ 112-32	
		12	4346	125.448	GKS11 - 3M□□□ 112-32	
		12	4290	123.826	GKS14 - 3M□□□ 112-32	
		10	4876	140.732	GKS11 - 3M□□□ 112-32	
		10	4813	138.913	GKS14 - 3M□□□ 112-32	
		9.1	5494	158.571	GKS11 - 3M□□□ 112-32	
		9.2	5423	156.522	GKS14 - 3M□□□ 112-32	
		7.7	6464	186.572	GKS11 - 3M□□□ 112-32	
		7.7	6464	186.572	GKS14 - 3M□□□ 112-32	
		6.9	7283	210.222	GKS11 - 3M□□□ 112-32	
		6.9	7283	210.222	GKS14 - 3M□□□ 112-32	
		6.4	7845	226.431	GKS14 - 3M□□□ 112-32	
		5.6	8839	255.133	GKS14 - 3M□□□ 112-32	
		5.0	9916	286.219	GKS14 - 3M□□□ 112-32	
		4.5	11173	322.500	GKS14 - 3M□□□ 112-32	
				GKS □□ -4M		5-94
		4.0	12346	362.512	GKS14 - 4M□□□ 112-32	
		3.7	13305	390.672	GKS14 - 4M□□□ 112-32	
7.5 kW				GKS □□ -3M		5-86
	n1=2900	447	152	6.485	GKS06 - 3M□□□ 112-41	
		487	140	5.955	GKS07 - 3M□□□ 112-41	
		351	194	8.254	GKS07 - 3M□□□ 112-41	
		315	216	9.196	GKS06 - 3M□□□ 112-41	
		316	215	9.171	GKS07 - 3M□□□ 112-41	
		286	238	10.147	GKS06 - 3M□□□ 112-41	
		287	238	10.124	GKS07 - 3M□□□ 112-41	
		255	267	11.382	GKS06 - 3M□□□ 112-41	
		255	267	11.378	GKS07 - 3M□□□ 112-41	
	n1=1460	230	296	12.612	GKS06 - 3M□□□ 112-41	
		228	298	12.711	GKS07 - 3M□□□ 112-41	
		196	348	14.824	GKS06 - 3M□□□ 112-41	
		196	347	14.798	GKS07 - 3M□□□ 112-41	
		177	385	8.254	GKS07 - 3M□□□ 132-22	
		159	427	9.171	GKS07 - 3M□□□ 132-22	
		144	472	10.124	GKS07 - 3M□□□ 132-22	
		128	530	11.378	GKS07 - 3M□□□ 132-22	
		115	592	12.711	GKS07 - 3M□□□ 132-22	
		119	572	12.283	GKS09 - 3M□□□ 132-22	

Thermal limit rating not considered (see page 2-7)

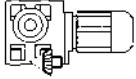
Selection tables – (Helical)-bevel gearboxes

Geared motors



P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
7.5 kW				GKS □□ -3M		
n1=1460	99	690	1.5	14.798	GKS07 - 3M□□□ 132-22	
	109	623	2.8	13.360	GKS09 - 3M□□□ 132-22	
	88	777	1.4	16.674	GKS07 - 3M□□□ 132-22	
	91	751	2.4	16.122	GKS09 - 3M□□□ 132-22	
	85	805	1.2	17.270	GKS07 - 3M□□□ 132-22	
	83	817	2.4	17.536	GKS09 - 3M□□□ 132-22	
	71	956	1.2	20.511	GKS07 - 3M□□□ 132-22	
	75	911	2.8	19.541	GKS09 - 3M□□□ 132-22	
	63	1077	1.1	23.111	GKS07 - 3M□□□ 132-22	
	66	1026	2.6	22.022	GKS09 - 3M□□□ 132-22	
	58	1176	1.0	25.244	GKS07 - 3M□□□ 132-22	
	57	1195	2.4	25.649	GKS09 - 3M□□□ 132-22	
	52	1317	0.9	28.274	GKS07 - 3M□□□ 132-22	
	50	1362	2.1	29.228	GKS09 - 3M□□□ 132-22	
	44	1535	1.9	32.940	GKS09 - 3M□□□ 132-22	
	42	1640	1.9	35.193	GKS09 - 3M□□□ 132-22	
	37	1848	1.6	39.662	GKS09 - 3M□□□ 132-22	
	36	1877	3.1	40.272	GKS11 - 3M□□□ 132-22	
	34	2010	1.5	43.146	GKS09 - 3M□□□ 132-22	
	33	2040	2.8	43.783	GKS11 - 3M□□□ 132-22	
	30	2266	1.3	48.625	GKS09 - 3M□□□ 132-22	
	30	2299	2.6	49.333	GKS11 - 3M□□□ 132-22	
	25	2724	1.1	58.456	GKS09 - 3M□□□ 132-22	
	25	2688	2.2	57.683	GKS11 - 3M□□□ 132-22	
	22	3070	1.0	65.879	GKS09 - 3M□□□ 132-22	
	23	3028	2.0	64.995	GKS11 - 3M□□□ 132-22	
	21	3307	0.9	70.982	GKS09 - 3M□□□ 132-22	
	21	3303	1.8	70.887	GKS11 - 3M□□□ 132-22	
	18	3727	0.8	79.996	GKS09 - 3M□□□ 132-22	
	18	3722	1.6	79.873	GKS11 - 3M□□□ 132-22	
	19	3620	3.2	77.681	GKS14 - 3M□□□ 132-22	
	16	4275	1.4	91.737	GKS11 - 3M□□□ 132-22	
	16	4219	2.7	90.551	GKS14 - 3M□□□ 132-22	
	14	4816	1.3	103.365	GKS11 - 3M□□□ 132-22	
	14	4754	2.5	102.029	GKS14 - 3M□□□ 132-22	
	13	5188	1.2	111.335	GKS11 - 3M□□□ 132-22	
	13	5121	2.3	109.896	GKS14 - 3M□□□ 132-22	
	12	5845	1.0	125.448	GKS11 - 3M□□□ 132-22	
	12	5770	2.0	123.826	GKS14 - 3M□□□ 132-22	
	11	6473	1.8	138.913	GKS14 - 3M□□□ 132-22	
	9.3	7293	1.6	156.522	GKS14 - 3M□□□ 132-22	
	7.8	8693	1.3	186.572	GKS14 - 3M□□□ 132-22	
	7.0	9795	1.2	210.222	GKS14 - 3M□□□ 132-22	
	6.5	10551	1.1	226.431	GKS14 - 3M□□□ 132-22	
	5.7	11888	1.0	255.133	GKS14 - 3M□□□ 132-22	
	5.1	13336	0.9	286.219	GKS14 - 3M□□□ 132-22	
9.2 kW				GKS □□ -3M		
n1=2925	491	170	2.2	5.955	GKS07 - 3M□□□ 132-21	
	354	236	1.8	8.254	GKS07 - 3M□□□ 132-21	

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

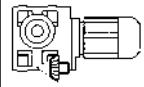
Geared motors

P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
9.2 kW n1=2925	319	262	2.2	9.171	GKS07 - 3M□□□ 132-21	5-86
	289	289	2.2	10.124	GKS07 - 3M□□□ 132-21	
	257	325	1.5	11.378	GKS07 - 3M□□□ 132-21	
	230	363	1.8	12.711	GKS07 - 3M□□□ 132-21	
	198	422	2.0	14.798	GKS07 - 3M□□□ 132-21	
	176	475	1.1	8.254	GKS07 - 3M□□□ 132-32	
	158	528	1.4	9.171	GKS07 - 3M□□□ 132-32	
	143	583	1.4	10.124	GKS07 - 3M□□□ 132-32	
	127	655	0.9	11.378	GKS07 - 3M□□□ 132-32	
	114	732	1.1	12.711	GKS07 - 3M□□□ 132-32	
	118	707	2.3	12.283	GKS09 - 3M□□□ 132-32	
	98	852	1.2	14.798	GKS07 - 3M□□□ 132-32	
	109	769	2.3	13.360	GKS09 - 3M□□□ 132-32	
	87	960	1.1	16.674	GKS07 - 3M□□□ 132-32	
	90	928	1.9	16.122	GKS09 - 3M□□□ 132-32	
	84	994	1.0	17.270	GKS07 - 3M□□□ 132-32	
	83	1009	1.9	17.536	GKS09 - 3M□□□ 132-32	
	71	1180	0.9	20.511	GKS07 - 3M□□□ 132-32	
	74	1125	2.3	19.541	GKS09 - 3M□□□ 132-32	
	63	1330	0.9	23.111	GKS07 - 3M□□□ 132-32	
	66	1267	2.1	22.022	GKS09 - 3M□□□ 132-32	
	57	1453	0.8	25.244	GKS07 - 3M□□□ 132-32	
	57	1476	1.9	25.649	GKS09 - 3M□□□ 132-32	
	50	1682	1.7	29.228	GKS09 - 3M□□□ 132-32	
	52	1613	3.2	28.021	GKS11 - 3M□□□ 132-32	
	44	1896	1.6	32.940	GKS09 - 3M□□□ 132-32	
	46	1817	3.0	31.573	GKS11 - 3M□□□ 132-32	
	41	2025	1.5	35.193	GKS09 - 3M□□□ 132-32	
	41	2057	2.8	35.741	GKS11 - 3M□□□ 132-32	
	37	2283	1.3	39.662	GKS09 - 3M□□□ 132-32	
	36	2318	2.5	40.272	GKS11 - 3M□□□ 132-32	
	34	2483	1.2	43.146	GKS09 - 3M□□□ 132-32	
	33	2520	2.3	43.783	GKS11 - 3M□□□ 132-32	
	30	2798	1.1	48.625	GKS09 - 3M□□□ 132-32	
	29	2839	2.1	49.333	GKS11 - 3M□□□ 132-32	
	25	3364	0.9	58.456	GKS09 - 3M□□□ 132-32	
	25	3320	1.8	57.683	GKS11 - 3M□□□ 132-32	
	22	3791	0.8	65.879	GKS09 - 3M□□□ 132-32	
	22	3741	1.6	64.995	GKS11 - 3M□□□ 132-32	
	23	3648	3.2	63.382	GKS14 - 3M□□□ 132-32	
	21	4080	1.5	70.887	GKS11 - 3M□□□ 132-32	
	21	3968	2.9	68.942	GKS14 - 3M□□□ 132-32	
	18	4597	1.3	79.873	GKS11 - 3M□□□ 132-32	
	19	4471	2.6	77.681	GKS14 - 3M□□□ 132-32	
	16	5280	1.1	91.737	GKS11 - 3M□□□ 132-32	
	16	5211	2.2	90.551	GKS14 - 3M□□□ 132-32	
	14	5949	1.0	103.365	GKS11 - 3M□□□ 132-32	
	14	5872	2.0	102.029	GKS14 - 3M□□□ 132-32	
	13	6407	0.9	111.335	GKS11 - 3M□□□ 132-32	
	13	6325	1.9	109.896	GKS14 - 3M□□□ 132-32	

Thermal limit rating not considered (see page 2-7)

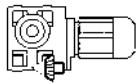
Selection tables – (Helical)-bevel gearboxes

Geared motors



P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
9.2 kW				GKS □□ -3M		
n1=1450	12	7220	0.8	125.448	GKS11 - 3M□□□ 132-32	5-86
	12	7126	1.6	123.826	GKS14 - 3M□□□ 132-32	
	10	7995	1.5	138.913	GKS14 - 3M□□□ 132-32	
	9.3	9008	1.3	156.522	GKS14 - 3M□□□ 132-32	
	7.8	10737	1.1	186.572	GKS14 - 3M□□□ 132-32	
	6.9	12099	1.0	210.222	GKS14 - 3M□□□ 132-32	
	6.4	13031	0.9	226.431	GKS14 - 3M□□□ 132-32	
				GKS □□ -4M		
	6.1	13434	0.9	237.467	GKS14 - 4M□□□ 132-32	5-94
11 kW				GKS □□ -3M		
n1=1460	245	407	1.2	5.955	GKS07 - 3M□□□ 160-22	5-86
	177	564	1.0	8.254	GKS07 - 3M□□□ 160-22	
	159	627	1.2	9.171	GKS07 - 3M□□□ 160-22	
	144	692	1.2	10.124	GKS07 - 3M□□□ 160-22	
	115	869	1.0	12.711	GKS07 - 3M□□□ 160-22	
	119	839	1.9	12.283	GKS09 - 3M□□□ 160-22	
	99	1011	1.0	14.798	GKS07 - 3M□□□ 160-22	
	109	913	1.9	13.360	GKS09 - 3M□□□ 160-22	
	88	1140	0.9	16.674	GKS07 - 3M□□□ 160-22	
	91	1102	1.6	16.122	GKS09 - 3M□□□ 160-22	
	92	1085	2.9	15.874	GKS11 - 3M□□□ 160-22	
	85	1180	0.9	17.270	GKS07 - 3M□□□ 160-22	
	83	1198	1.6	17.536	GKS09 - 3M□□□ 160-22	
	85	1180	2.9	17.265	GKS11 - 3M□□□ 160-22	
	75	1335	1.9	19.541	GKS09 - 3M□□□ 160-22	
	66	1505	1.8	22.022	GKS09 - 3M□□□ 160-22	
	66	1503	3.3	21.989	GKS11 - 3M□□□ 160-22	
	57	1753	1.6	25.649	GKS09 - 3M□□□ 160-22	
	57	1751	2.9	25.615	GKS11 - 3M□□□ 160-22	
	50	1997	1.5	29.228	GKS09 - 3M□□□ 160-22	
	52	1915	2.7	28.021	GKS11 - 3M□□□ 160-22	
	44	2251	1.3	32.940	GKS09 - 3M□□□ 160-22	
	46	2158	2.6	31.573	GKS11 - 3M□□□ 160-22	
	42	2405	1.3	35.193	GKS09 - 3M□□□ 160-22	
	41	2443	2.3	35.741	GKS11 - 3M□□□ 160-22	
	37	2711	1.1	39.662	GKS09 - 3M□□□ 160-22	
	36	2752	2.1	40.272	GKS11 - 3M□□□ 160-22	
	34	2949	1.0	43.146	GKS09 - 3M□□□ 160-22	
	33	2992	1.9	43.783	GKS11 - 3M□□□ 160-22	
	30	3323	0.9	48.625	GKS09 - 3M□□□ 160-22	
	30	3371	1.8	49.333	GKS11 - 3M□□□ 160-22	
	25	3942	1.5	57.683	GKS11 - 3M□□□ 160-22	
	26	3844	3.0	56.251	GKS14 - 3M□□□ 160-22	
	23	4442	1.4	64.995	GKS11 - 3M□□□ 160-22	
	23	4332	2.7	63.382	GKS14 - 3M□□□ 160-22	
	21	4844	1.2	70.887	GKS11 - 3M□□□ 160-22	
	21	4712	2.4	68.942	GKS14 - 3M□□□ 160-22	
	18	5459	1.1	79.873	GKS11 - 3M□□□ 160-22	
	19	5309	2.2	77.681	GKS14 - 3M□□□ 160-22	

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

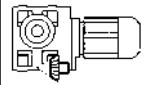
Geared motors

P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
11 kW				GKS □□ -3M		5-86
n1=1460	16	6188	1.9	90.551	GKS14 - 3M□□□ 160-22	
	14	6973	1.7	102.029	GKS14 - 3M□□□ 160-22	
	13	7510	1.6	109.896	GKS14 - 3M□□□ 160-22	
	12	8462	1.4	123.826	GKS14 - 3M□□□ 160-22	
	7.8	12750	0.9	186.572	GKS14 - 3M□□□ 160-22	
	7.0	14367	0.8	210.222	GKS14 - 3M□□□ 160-22	
15 kW				GKS □□ -3M		5-86
n1=1460	245	555	0.9	5.955	GKS07 - 3M□□□ 160-32	
	159	855	0.9	9.171	GKS07 - 3M□□□ 160-32	
	144	943	0.9	10.124	GKS07 - 3M□□□ 160-32	
	119	1145	1.4	12.283	GKS09 - 3M□□□ 160-32	
	121	1127	2.5	12.094	GKS11 - 3M□□□ 160-32	
	109	1245	1.4	13.360	GKS09 - 3M□□□ 160-32	
	111	1226	2.5	13.154	GKS11 - 3M□□□ 160-32	
	91	1502	1.2	16.122	GKS09 - 3M□□□ 160-32	
	92	1479	2.1	15.874	GKS11 - 3M□□□ 160-32	
	83	1634	1.2	17.536	GKS09 - 3M□□□ 160-32	
	85	1609	2.1	17.265	GKS11 - 3M□□□ 160-32	
	75	1821	1.4	19.541	GKS09 - 3M□□□ 160-32	
	75	1819	2.5	19.515	GKS11 - 3M□□□ 160-32	
	66	2052	1.3	22.022	GKS09 - 3M□□□ 160-32	
	66	2049	2.4	21.989	GKS11 - 3M□□□ 160-32	
	57	2390	1.2	25.649	GKS09 - 3M□□□ 160-32	
	57	2387	2.1	25.615	GKS11 - 3M□□□ 160-32	
	50	2724	1.1	29.228	GKS09 - 3M□□□ 160-32	
	52	2611	2.0	28.021	GKS11 - 3M□□□ 160-32	
	44	3070	1.0	32.940	GKS09 - 3M□□□ 160-32	
	46	2942	1.9	31.573	GKS11 - 3M□□□ 160-32	
	42	3280	0.9	35.193	GKS09 - 3M□□□ 160-32	
	41	3331	1.7	35.741	GKS11 - 3M□□□ 160-32	
	42	3233	3.1	34.692	GKS14 - 3M□□□ 160-32	
	37	3696	0.8	39.662	GKS09 - 3M□□□ 160-32	
	36	3753	1.6	40.272	GKS11 - 3M□□□ 160-32	
	37	3643	3.0	39.089	GKS14 - 3M□□□ 160-32	
	33	4080	1.4	43.783	GKS11 - 3M□□□ 160-32	
	34	3964	2.7	42.531	GKS14 - 3M□□□ 160-32	
	30	4597	1.3	49.333	GKS11 - 3M□□□ 160-32	
	31	4466	2.5	47.923	GKS14 - 3M□□□ 160-32	
	25	5376	1.1	57.683	GKS11 - 3M□□□ 160-32	
	26	5242	2.2	56.251	GKS14 - 3M□□□ 160-32	
	23	6057	1.0	64.995	GKS11 - 3M□□□ 160-32	
	23	5907	1.9	63.382	GKS14 - 3M□□□ 160-32	
	21	6606	0.9	70.887	GKS11 - 3M□□□ 160-32	
	21	6425	1.8	68.942	GKS14 - 3M□□□ 160-32	
	18	7443	0.8	79.873	GKS11 - 3M□□□ 160-32	
	19	7239	1.6	77.681	GKS14 - 3M□□□ 160-32	
	16	8438	1.4	90.551	GKS14 - 3M□□□ 160-32	
	14	9508	1.2	102.029	GKS14 - 3M□□□ 160-32	
	13	10241	1.2	109.896	GKS14 - 3M□□□ 160-32	
	12	11539	1.0	123.826	GKS14 - 3M□□□ 160-32	

Thermal limit rating not considered (see page 2-7)

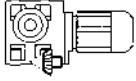
Selection tables – (Helical)-bevel gearboxes

Geared motors



P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
15 kW					GKS □□ -4M	5-94
n1=1460	11	12334	0.9	134.640	GKS14 - 4M□□□ 160-32	
18.5 kW					GKS □□ -3M	5-86
n1=1440	117	1431	1.1	12.283	GKS09 - 3M□□□ 180-22	
	119	1409	2.0	12.094	GKS11 - 3M□□□ 180-22	
	108	1557	1.1	13.360	GKS09 - 3M□□□ 180-22	
	110	1533	2.0	13.154	GKS11 - 3M□□□ 180-22	
	89	1879	1.0	16.122	GKS09 - 3M□□□ 180-22	
	91	1850	1.7	15.874	GKS11 - 3M□□□ 180-22	
	87	1940	2.8	16.646	GKS14 - 3M□□□ 180-22	
	82	2043	1.0	17.536	GKS09 - 3M□□□ 180-22	
	83	2012	1.7	17.265	GKS11 - 3M□□□ 180-22	
	79	2134	2.8	18.311	GKS14 - 3M□□□ 180-22	
	74	2277	1.1	19.541	GKS09 - 3M□□□ 180-22	
	74	2274	2.0	19.515	GKS11 - 3M□□□ 180-22	
	65	2566	1.0	22.022	GKS09 - 3M□□□ 180-22	
	66	2562	1.9	21.989	GKS11 - 3M□□□ 180-22	
	56	2989	1.0	25.649	GKS09 - 3M□□□ 180-22	
	56	2985	1.7	25.615	GKS11 - 3M□□□ 180-22	
	58	2878	2.8	24.696	GKS14 - 3M□□□ 180-22	
	49	3406	0.9	29.228	GKS09 - 3M□□□ 180-22	
	51	3265	1.6	28.021	GKS11 - 3M□□□ 180-22	
	53	3166	2.8	27.165	GKS14 - 3M□□□ 180-22	
	46	3679	1.5	31.573	GKS11 - 3M□□□ 180-22	
	47	3567	2.8	30.609	GKS14 - 3M□□□ 180-22	
	40	4165	1.4	35.741	GKS11 - 3M□□□ 180-22	
	42	4043	2.5	34.692	GKS14 - 3M□□□ 180-22	
	36	4693	1.3	40.272	GKS11 - 3M□□□ 180-22	
	37	4555	2.4	39.089	GKS14 - 3M□□□ 180-22	
	33	5102	1.1	43.783	GKS11 - 3M□□□ 180-22	
	34	4956	2.2	42.531	GKS14 - 3M□□□ 180-22	
	29	5749	1.0	49.333	GKS11 - 3M□□□ 180-22	
	30	5585	2.0	47.923	GKS14 - 3M□□□ 180-22	
	25	6722	0.9	57.683	GKS11 - 3M□□□ 180-22	
	26	6555	1.8	56.251	GKS14 - 3M□□□ 180-22	
	23	7386	1.6	63.382	GKS14 - 3M□□□ 180-22	
	21	8034	1.4	68.942	GKS14 - 3M□□□ 180-22	
	19	9052	1.3	77.681	GKS14 - 3M□□□ 180-22	
	16	10552	1.1	90.551	GKS14 - 3M□□□ 180-22	
	14	11890	1.0	102.029	GKS14 - 3M□□□ 180-22	
	13	12806	0.9	109.896	GKS14 - 3M□□□ 180-22	
	12	14430	0.8	123.826	GKS14 - 3M□□□ 180-22	
22 kW					GKS □□ -3M	5-86
n1=1465	119	1673	1.0	12.283	GKS09 - 3M□□□ 180-32	
	121	1647	1.7	12.094	GKS11 - 3M□□□ 180-32	
	110	1820	1.0	13.360	GKS09 - 3M□□□ 180-32	
	111	1792	1.7	13.154	GKS11 - 3M□□□ 180-32	
	91	2196	0.8	16.122	GKS09 - 3M□□□ 180-32	
	92	2162	1.4	15.874	GKS11 - 3M□□□ 180-32	
	88	2267	2.4	16.646	GKS14 - 3M□□□ 180-32	

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

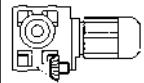
Geared motors

P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
22 kW n1=1465 5				GKS □□ -3M		
	84	2389	0.8	17.536	GKS09 - 3M□□□ 180-32	5-86
	85	2352	1.4	17.265	GKS11 - 3M□□□ 180-32	
	80	2494	2.4	18.311	GKS14 - 3M□□□ 180-32	
	75	2662	1.0	19.541	GKS09 - 3M□□□ 180-32	
	75	2658	1.7	19.515	GKS11 - 3M□□□ 180-32	
	67	3000	0.9	22.022	GKS09 - 3M□□□ 180-32	
	67	2995	1.6	21.989	GKS11 - 3M□□□ 180-32	
	57	3494	0.8	25.649	GKS09 - 3M□□□ 180-32	
	57	3489	1.4	25.615	GKS11 - 3M□□□ 180-32	
	59	3364	2.4	24.696	GKS14 - 3M□□□ 180-32	
	52	3817	1.4	28.021	GKS11 - 3M□□□ 180-32	
	54	3700	2.4	27.165	GKS14 - 3M□□□ 180-32	
	46	4301	1.3	31.573	GKS11 - 3M□□□ 180-32	
	48	4169	2.4	30.609	GKS14 - 3M□□□ 180-32	
	41	4868	1.2	35.741	GKS11 - 3M□□□ 180-32	
	42	4725	2.1	34.692	GKS14 - 3M□□□ 180-32	
	36	5486	1.1	40.272	GKS11 - 3M□□□ 180-32	
	38	5324	2.1	39.089	GKS14 - 3M□□□ 180-32	
	34	5964	1.0	43.783	GKS11 - 3M□□□ 180-32	
	34	5793	1.9	42.531	GKS14 - 3M□□□ 180-32	
	30	6720	0.9	49.333	GKS11 - 3M□□□ 180-32	
	31	6528	1.7	47.923	GKS14 - 3M□□□ 180-32	
	26	7662	1.5	56.251	GKS14 - 3M□□□ 180-32	
	23	8633	1.3	63.382	GKS14 - 3M□□□ 180-32	
	21	9391	1.2	68.942	GKS14 - 3M□□□ 180-32	
	19	10581	1.1	77.681	GKS14 - 3M□□□ 180-32	
	16	12334	0.9	90.551	GKS14 - 3M□□□ 180-32	
	14	13898	0.8	102.029	GKS14 - 3M□□□ 180-32	
30 kW n1=1455				GKS □□ -3M		
	120	2262	1.2	12.094	GKS11 - 3M□□□ 200-32	5-86
	117	2326	1.7	12.435	GKS14 - 3M□□□ 200-32	
	111	2460	1.2	13.154	GKS11 - 3M□□□ 200-32	
	108	2529	1.7	13.525	GKS14 - 3M□□□ 200-32	
	92	2969	1.0	15.874	GKS11 - 3M□□□ 200-32	
	87	3113	1.7	16.646	GKS14 - 3M□□□ 200-32	
	84	3229	1.0	17.265	GKS11 - 3M□□□ 200-32	
	80	3425	1.7	18.311	GKS14 - 3M□□□ 200-32	
	75	3650	1.2	19.515	GKS11 - 3M□□□ 200-32	
	73	3753	1.7	20.065	GKS14 - 3M□□□ 200-32	
	66	4112	1.2	21.989	GKS11 - 3M□□□ 200-32	
	64	4228	1.7	22.609	GKS14 - 3M□□□ 200-32	
	57	4791	1.0	25.615	GKS11 - 3M□□□ 200-32	
	59	4619	1.7	24.696	GKS14 - 3M□□□ 200-32	
	52	5241	1.0	28.021	GKS11 - 3M□□□ 200-32	
	54	5081	1.7	27.165	GKS14 - 3M□□□ 200-32	
	46	5905	0.9	31.573	GKS11 - 3M□□□ 200-32	
	48	5725	1.7	30.609	GKS14 - 3M□□□ 200-32	
	41	6684	0.9	35.741	GKS11 - 3M□□□ 200-32	
	42	6488	1.5	34.692	GKS14 - 3M□□□ 200-32	
	37	7311	1.5	39.089	GKS14 - 3M□□□ 200-32	
	34	7954	1.4	42.531	GKS14 - 3M□□□ 200-32	

Thermal limit rating not considered (see page 2-7)

Selection tables – (Helical)-bevel gearboxes

Geared motors



P ₁	50 Hz			i	(Helical)-bevel geared motors	Dim. Page
	n ₂ [min ⁻¹]	M ₂ [Nm]	c			
30 kW				GKS □□ -3M		
n1=1455	30	8963	1.3	47.923	GKS14 - 3M□□□ 200-32	5-86
	26	10520	1.1	56.251	GKS14 - 3M□□□ 200-32	
	23	11854	1.0	63.382	GKS14 - 3M□□□ 200-32	
37 kW				GKS □□ -3M		
n1=1460	121	2780	1.0	12.094	GKS11 - 3M□□□ 225-12	5-86
	117	2858	1.4	12.435	GKS14 - 3M□□□ 225-12	
	111	3024	1.0	13.154	GKS11 - 3M□□□ 225-12	
	108	3109	1.4	13.525	GKS14 - 3M□□□ 225-12	
	92	3649	0.9	15.874	GKS11 - 3M□□□ 225-12	
	88	3826	1.4	16.646	GKS14 - 3M□□□ 225-12	
	85	3969	0.9	17.265	GKS11 - 3M□□□ 225-12	
	80	4209	1.4	18.311	GKS14 - 3M□□□ 225-12	
	75	4486	1.0	19.515	GKS11 - 3M□□□ 225-12	
	73	4612	1.4	20.065	GKS14 - 3M□□□ 225-12	
	66	5055	1.0	21.989	GKS11 - 3M□□□ 225-12	
	65	5197	1.4	22.609	GKS14 - 3M□□□ 225-12	
	57	5888	0.9	25.615	GKS11 - 3M□□□ 225-12	
	59	5677	1.4	24.696	GKS14 - 3M□□□ 225-12	
	52	6441	0.8	28.021	GKS11 - 3M□□□ 225-12	
	54	6244	1.4	27.165	GKS14 - 3M□□□ 225-12	
	48	7036	1.4	30.609	GKS14 - 3M□□□ 225-12	
	42	7975	1.3	34.692	GKS14 - 3M□□□ 225-12	
	37	8985	1.2	39.089	GKS14 - 3M□□□ 225-12	
	34	9777	1.1	42.531	GKS14 - 3M□□□ 225-12	
	31	11016	1.0	47.923	GKS14 - 3M□□□ 225-12	
	26	12930	0.9	56.251	GKS14 - 3M□□□ 225-12	
45 kW				GKS □□ -3M		
n1=1475	122	3347	0.8	12.094	GKS11 - 3M□□□ 225-22	5-86
	119	3441	1.2	12.435	GKS14 - 3M□□□ 225-22	
	112	3640	0.8	13.154	GKS11 - 3M□□□ 225-22	
	109	3743	1.2	13.525	GKS14 - 3M□□□ 225-22	
	89	4606	1.2	16.646	GKS14 - 3M□□□ 225-22	
	81	5067	1.2	18.311	GKS14 - 3M□□□ 225-22	
	76	5400	0.8	19.515	GKS11 - 3M□□□ 225-22	
	74	5553	1.2	20.065	GKS14 - 3M□□□ 225-22	
	67	6085	0.8	21.989	GKS11 - 3M□□□ 225-22	
	65	6256	1.2	22.609	GKS14 - 3M□□□ 225-22	
	60	6834	1.2	24.696	GKS14 - 3M□□□ 225-22	
	54	7517	1.2	27.165	GKS14 - 3M□□□ 225-22	
	48	8470	1.2	30.609	GKS14 - 3M□□□ 225-22	
	43	9600	1.0	34.692	GKS14 - 3M□□□ 225-22	
	38	10817	1.0	39.089	GKS14 - 3M□□□ 225-22	
	35	11770	0.9	42.531	GKS14 - 3M□□□ 225-22	
	31	13262	0.9	47.923	GKS14 - 3M□□□ 225-22	

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

Gearboxes with mounting flange for IEC standard motors

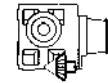
M_{2perm} ≤ 90 Nm

GKR 04 - 2 N									Dimensions page 5-98		
n ₁		2800 min ⁻¹			1400 min ⁻¹			700 min ⁻¹			
IEC connection		63	71 63	80 71	63	71 63	80 71	63	71 63	80 71	
For the geometrical assignment servo/DC motors see chapter 2											
Drive size		1A	□B	□C	1A	□B	□C	1A	□B	□C	
i	P _{1perm} [kW] M _{2perm} [Nm]										
5.185	P ₁ M ₂		2.23 38	3.04 51		1.37 46	1.87 63		0.73 49	1.02 69	
5.963	P ₁ M ₂		2.23 43	3.03 59		1.37 53	1.87 72		0.73 56	0.93 72	
7.111	P ₁ M ₂		2.23 51	2.73 63		1.37 63	1.68 77		0.73 67	0.84 77	
8.178	P ₁ M ₂		2.23 59	2.49 66		1.37 73	1.53 81		0.73 77	0.77 81	
9.101	P ₁ M ₂		2.23 66	2.33 69		1.37 81	1.43 84		0.72 84	0.72 84	
10.466	P ₁ M ₂		2.12 72	2.12 72		1.31 89	1.31 89		0.65 89	0.65 89	
11.449	P ₁ M ₂	1.03 38	1.97 73	1.97 73	0.64 47	1.21 90	1.21 90	0.32 47	0.61 90	0.61 90	
12.698	P ₁ M ₂	0.96 39	1.78 73	1.78 73	0.59 49	1.09 90	1.09 90	0.30 49	0.55 90	0.55 90	
14.603	P ₁ M ₂	0.96 45	1.55 73	1.55 73	0.59 56	0.95 90	0.95 90	0.30 56	0.48 90	0.48 90	
15.556	P ₁ M ₂		1.45 73	1.45 73		0.89 90	0.89 90		0.45 90	0.45 90	
17.889	P ₁ M ₂		1.26 73	1.26 73		0.78 90	0.78 90		0.39 90	0.39 90	
19.556	P ₁ M ₂	1.05 67	1.15 73	1.15 73	0.65 82	0.71 90	0.71 90	0.32 82	0.36 90	0.36 90	
22.489	P ₁ M ₂	1.00 73	1.00 73	1.00 73	0.62 90	0.62 90	0.62 90	0.31 90	0.31 90	0.31 90	
25.185	P ₁ M ₂	1.00 81	1.02 83	1.02 83	0.54 88	0.55 90	0.55 90	0.27 88	0.28 90	0.28 90	
28.963	P ₁ M ₂	0.89 83	0.89 83	0.89 83	0.48 90	0.48 90	0.48 90	0.24 90	0.24 90	0.24 90	
31.919	P ₁ M ₂	0.80 83	0.80 83		0.44 90	0.44 90		0.22 90	0.22 90		
36.707	P ₁ M ₂	0.70 83	0.70 83		0.38 90	0.38 90		0.19 90	0.19 90		
40.000	P ₁ M ₂	0.64 83	0.64 83		0.35 90	0.35 90		0.17 90	0.17 90		
46.000	P ₁ M ₂	0.60 90	0.60 90		0.30 90	0.30 90		0.15 90	0.15 90		
52.698	P ₁ M ₂	0.40 69			0.20 69			0.10 69			
60.603	P ₁ M ₂	0.40 79			0.20 79			0.10 79			

Thermal limit rating not considered (see page 2-7)

Selection tables – (Helical)-bevel gearboxes

Gearboxes with mounting flange for IEC standard motors



M_{2perm} ≤ 190 Nm

GKS 04 - 3 N												Dimensions page 5-102				
n ₁		2800 min ⁻¹				1400 min ⁻¹				700 min ⁻¹						
IEC connection		63	71 63	80 71	90 80	63	71 63	80 71	90 80	63	71 63	80 71	90 80			
For the geometrical assignment servo/DC motors see chapter 2																
Drive size		1A	□B	□C	□D	1A	□B	□C	□D	1A	□B	□C	□D			
i	P _{1perm} [kW] M _{2perm} [Nm]	2.23 37	3.04 50	3.75 62		1.37 46	1.87 62	2.31 77		0.73 48	1.21 80	1.21 80				
5.123	P ₁ M ₂	2.23 37	3.04 50	3.75 62		1.37 46	1.87 62	2.31 77		0.73 48	1.21 80	1.21 80				
7.026	P ₁ M ₂	2.23 51	3.04 69	3.30 75		1.37 63	1.87 85	2.03 93		0.73 66	1.02 93	1.02 93				
8.167	P ₁ M ₂	2.23 59	3.04 80	3.75 99		1.37 73	1.87 99	2.31 122		0.73 77	1.21 128	1.21 128				
8.991	P ₁ M ₂	2.23 65	2.87 84	2.87 84		1.37 80	1.77 103	1.77 103		0.78 90	0.88 103	0.88 103				
9.836	P ₁ M ₂	2.23 71	2.71 86	2.71 86		1.37 88	1.67 106	1.67 106		0.74 94	0.83 106	0.83 106				
11.730	P ₁ M ₂	2.23 85	3.04 115	3.75 143		1.37 104	1.87 142	2.31 175		0.73 110	1.18 180	1.18 180				
13.067	P ₁ M ₂	2.23 95	3.04 129	3.17 134		1.37 116	1.87 158	1.95 165		0.73 123	0.97 165	0.97 165				
14.333	P ₁ M ₂	2.23 104	2.87 133	2.87 133		1.37 128	1.77 164	1.77 164		0.78 144	0.88 164	0.88 164				
16.087	P ₁ M ₂	2.23 116	2.82 147	2.82 147		1.37 143	1.74 181	1.74 181		0.73 151	0.87 181	0.87 181				
17.920	P ₁ M ₂	2.23 130	2.32 135	2.32 135		1.37 160	1.43 166	1.43 166		0.72 166	0.72 166	0.72 166				
20.588	P ₁ M ₂	2.22 148	2.22 148	2.22 148		1.36 182	1.36 182	1.36 182		0.68 182	0.68 182	0.68 182				
22.522	P ₁ M ₂	2.03 148	2.03 148	2.03 148		1.25 182	1.25 182	1.25 182		0.62 182	0.62 182	0.62 182				
25.088	P ₁ M ₂	1.67 136	1.67 136	1.67 136		1.03 167	1.03 167	1.03 167		0.51 167	0.51 167	0.51 167				
28.727	P ₁ M ₂	1.60 149	1.60 149	1.60 149		0.98 183	0.98 183	0.98 183		0.49 183	0.49 183	0.49 183				
32.000	P ₁ M ₂	1.31 136	1.31 136	1.31 136		0.81 167	0.81 167	0.81 167		0.40 167	0.40 167	0.40 167				
35.191	P ₁ M ₂	1.30 149	1.30 149	1.30 149		0.80 183	0.80 183	0.80 183		0.40 183	0.40 183	0.40 183				
39.200	P ₁ M ₂	1.07 136	1.07 136	1.07 136		0.66 168	0.66 168	0.66 168		0.33 168	0.33 168	0.33 168				
44.240	P ₁ M ₂	1.19 171	1.19 171	1.19 171		0.65 185	0.65 185	0.65 185		0.32 185	0.32 185	0.32 185				
50.943	P ₁ M ₂	1.02 168	1.02 168	1.02 168		0.55 182	0.55 182	0.55 182		0.28 182	0.28 182	0.28 182				
56.976	P ₁ M ₂	0.94 173	0.94 173	0.94 173		0.51 187	0.51 187	0.51 187		0.25 187	0.25 187	0.25 187				
64.978	P ₁ M ₂	0.80 169	0.80 169	0.80 169		0.44 183	0.44 183	0.44 183		0.22 183	0.22 183	0.22 183				
72.210	P ₁ M ₂	0.75 175	0.75 175			0.41 190	0.41 190			0.20 190	0.20 190					
79.599	P ₁ M ₂		0.66 169	0.66 169	0.66 169		0.36 183	0.36 183	0.36 183		0.18 183	0.18 183	0.18 183			

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

Gearboxes with mounting flange for IEC standard motors

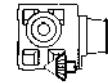
M_{2perm} ≤ 190 Nm

GKS 04 - 3 N												Dimensions page 5-102			
n ₁		2800 min ⁻¹				1400 min ⁻¹				700 min ⁻¹					
IEC connection		63	71 63	80 71	90 80	63	71 63	80 71	90 80	63	71 63	80 71	90 80		
For the geometrical assignment servo/DC motors see chapter 2															
Drive size		1A	□B	□C	□D	1A	□B	□C	□D	1A	□B	□C	□D		
i	P _{1perm} [kW] M _{2perm} [Nm]	0.60 175	0.60 175	0.32 190	0.32 190	0.16 190	0.16 190	0.14 185	0.14 185	0.12 170	0.12 170	0.12 170	0.11 187	0.11 187	0.11 187
90.491	P ₁ M ₂	0.47 170	0.47 170	0.47 170	0.24 170	0.24 170	0.24 170	0.12 170	0.12 170	0.12 170	0.12 170	0.12 170	0.09 172	0.09 172	0.09 172
100.067	P ₁ M ₂	0.45 187	0.45 187	0.45 187	0.22 187	0.22 187	0.22 187	0.11 187	0.11 187	0.11 187	0.11 187	0.11 187	0.09 172	0.09 172	0.09 172
111.467	P ₁ M ₂	0.37 172	0.37 172	0.37 172	0.19 172	0.19 172	0.19 172	0.09 172	0.09 172	0.09 172	0.09 172	0.09 172	0.07 172	0.07 172	0.07 172
128.874	P ₁ M ₂	0.36 190	0.36 190	0.36 190	0.18 190	0.18 190	0.18 190	0.09 190	0.09 190	0.09 190	0.09 190	0.09 190	0.07 174	0.07 174	0.07 174
143.556	P ₁ M ₂	0.30 174	0.30 174	0.30 174	0.15 174	0.15 174	0.15 174	0.07 174	0.07 174	0.07 174	0.07 174	0.07 174	0.05 190	0.05 190	0.05 190
163.332	P ₁ M ₂	0.29 190	0.29 190	0.29 190	0.14 190	0.14 190	0.14 190	0.07 190	0.07 190	0.07 190	0.07 190	0.07 190	0.05 177	0.05 177	0.05 177
181.939	P ₁ M ₂	0.24 177	0.24 177	0.24 177	0.12 177	0.12 177	0.12 177	0.06 177	0.06 177	0.06 177	0.06 177	0.06 177	0.04 178	0.04 178	0.04 178
204.682	P ₁ M ₂	0.22 190	0.22 190	0.22 190	0.11 190	0.11 190	0.11 190	0.05 190	0.05 190	0.05 190	0.05 190	0.05 190	0.03 178	0.03 178	0.03 178
228.000	P ₁ M ₂	0.18 178	0.18 178	0.18 178	0.09 178	0.09 178	0.09 178	0.04 178	0.04 178	0.04 178	0.04 178	0.04 178	0.02 178	0.02 178	0.02 178
269.660	P ₁ M ₂														
300.381	P ₁ M ₂														

Thermal limit rating not considered (see page 2-7)

Selection tables – (Helical)-bevel gearboxes

Gearboxes with mounting flange for IEC standard motors



M_{2perm} ≤ 331 Nm

GKS 05 - 3 N												Dimensions page 5-102			
n ₁		2800 min ⁻¹				1400 min ⁻¹				700 min ⁻¹					
IEC connection		71	80 71	90 80	100/112 80/90	71	80 71	90 80	100/112 80/90	71	80 71	90 80	100/112 80/90		
For the geometrical assignment servo/DC motors see chapter 2															
Drive size		1B	□C	□D	□E	1B	□C	□D	□E	1B	□C	□D	□E		
i	P _{1perm} [kW] M _{2perm} [Nm]														
6.863	P ₁ M ₂			3.75 83	5.39 120			2.31 103	3.32 147					1.54 137	1.66 147
9.412	P ₁ M ₂			3.75 114	4.39 134			2.31 141	2.70 165					1.35 165	1.35 165
10.569	P ₁ M ₂			3.75 128	5.39 184			2.31 158	3.32 227					1.54 211	1.66 227
11.667	P ₁ M ₂			3.75 142	5.39 204			2.31 175	3.32 251					1.54 233	1.66 251
13.177	P ₁ M ₂	2.23 95	3.04 130	3.15 134	3.15 134	1.37 117	1.87 160	1.94 165	1.94 165	0.73 124	0.97 165	0.97 165	0.97 165	1.35 137	1.66 147
14.494	P ₁ M ₂			3.75 176	4.39 206			2.31 217	2.70 254					1.35 254	1.35 254
16.000	P ₁ M ₂			3.75 194	4.39 227			2.31 239	2.70 280					1.35 280	1.35 280
17.054	P ₁ M ₂			3.75 207	4.61 255			2.31 255	2.84 313					1.42 313	1.42 313
19.216	P ₁ M ₂			3.75 233	3.88 241			2.31 287	2.39 297					1.19 297	1.19 297
23.388	P ₁ M ₂			3.53 267	3.53 267			2.17 329	2.17 329					1.09 329	1.09 329
26.353	P ₁ M ₂			2.84 242	2.84 242			1.75 298	1.75 298					0.87 298	0.87 298
29.931	P ₁ M ₂			2.76 268	2.76 268	2.76 268		1.70 330	1.70 330	1.70 330				0.85 330	0.85 330
32.744	P ₁ M ₂	2.23 237	2.53 269	2.53 269	2.53 269	1.37 292	1.56 331	1.56 331	1.56 331	0.73 308	0.78 331	0.78 331	0.78 331	0.78 331	0.78 331
36.894	P ₁ M ₂	2.05 245	2.05 245	2.05 245	2.05 245	1.26 302	1.26 302	1.26 302	1.26 302	0.63 302	0.63 302	0.63 302	0.63 302	0.63 302	0.63 302
41.765	P ₁ M ₂	1.99 269	1.99 269	1.99 269	1.99 269	1.22 331	1.22 331	1.22 331	1.22 331	0.61 331	0.61 331	0.61 331	0.61 331	0.61 331	0.61 331
47.059	P ₁ M ₂	1.84 281	1.84 281	1.84 281	1.84 281	1.00 304	1.00 304	1.00 304	1.00 304	0.50 304	0.50 304	0.50 304	0.50 304	0.50 304	0.50 304
51.162	P ₁ M ₂			1.84 305	1.84 305	1.84 305		1.00 331	1.00 331	1.00 331				0.50 331	0.50 331
57.647	P ₁ M ₂			1.52 283	1.52 283	1.52 283		0.82 307	0.82 307	0.82 307				0.41 307	0.41 307
66.592	P ₁ M ₂	1.42 305	1.42 305	1.42 305	1.42 305	0.77 331	0.77 331	0.77 331	0.77 331	0.38 331	0.38 331	0.38 331	0.38 331	0.38 331	0.38 331
75.033	P ₁ M ₂	1.18 286	1.18 286	1.18 286	1.18 286	0.64 310	0.64 310	0.64 310	0.64 310	0.32 310	0.32 310	0.32 310	0.32 310	0.32 310	0.32 310
82.833	P ₁ M ₂	1.14 305	1.14 305	1.14 305	1.14 305	0.62 331	0.62 331	0.62 331	0.62 331	0.31 331	0.31 331	0.31 331	0.31 331	0.31 331	0.31 331
93.333	P ₁ M ₂	0.96 291	0.96 291	0.96 291	0.96 291	0.52 315	0.52 315	0.52 315	0.52 315	0.26 315	0.26 315	0.26 315	0.26 315	0.26 315	0.26 315
107.196	P ₁ M ₂	0.88 305	0.88 305			0.48 331	0.48 331			0.24 331	0.24 331			0.24 331	0.24 331

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

Gearboxes with mounting flange for IEC standard motors

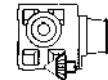
M_{2perm} ≤ 331 Nm

GKS 05 - 3 N											Dimensions page 5-102			
n ₁		2800 min ⁻¹				1400 min ⁻¹				700 min ⁻¹				
IEC connection		71	80 71	90 80	100/112 80/90	71	80 71	90 80	100/112 80/90	71	80 71	90 80	100/112 80/90	
For the geometrical assignment servo/DC motors see chapter 2														
Drive size		1B	□C	□D	□E	1B	□C	□D	□E	1B	□C	□D	□E	
i	P _{1perm} [kW] M _{2perm} [Nm]													
120.784	P ₁ M ₂	0.81 315	0.81 315			0.40 315	0.40 315			0.20 315	0.20 315			
130.097	P ₁ M ₂	0.79 331	0.79 331			0.39 331	0.39 331			0.20 331	0.20 331			
146.588	P ₁ M ₂	0.66 315	0.66 315			0.33 315	0.33 315			0.17 315	0.17 315			
166.276	P ₁ M ₂	0.61 331				0.31 331				0.15 331				
187.353	P ₁ M ₂	0.52 315				0.26 315				0.13 315				
211.200	P ₁ M ₂	0.46 314	0.46 314			0.23 314	0.23 314			0.12 314	0.12 314			
227.484	P ₁ M ₂	0.38 278	0.38 278			0.19 278	0.19 278			0.09 278	0.09 278			
256.320	P ₁ M ₂	0.38 313	0.38 313			0.19 313	0.19 313			0.09 313	0.09 313			
290.745	P ₁ M ₂	0.29 277				0.15 277				0.07 277				
327.600	P ₁ M ₂	0.29 312				0.15 312				0.07 312				

Thermal limit rating not considered (see page 2-7)

Selection tables – (Helical)-bevel gearboxes

Gearboxes with mounting flange for IEC standard motors



M_{2perm} ≤ 325 Nm

GKS 05 - 4 N										Dimensions page 5-106		
n₁		2800 min⁻¹			1400 min⁻¹			700 min⁻¹				
IEC connection		63	71 63	80 71	63	71 63	80 71	63	71 63	80 71		
For the geometrical assignment servo/DC motors see chapter 2												
Drive size		1A	□B	□C	1A	□B	□C	1A	□B	□C		
i	P _{1perm} [kW] M _{2perm} [Nm]											
95.238	P ₁ M ₂	0.51 156	0.51 156	0.51 156	0.28 169	0.28 169	0.28 169	0.14 169	0.14 169	0.14 169		
114.987	P ₁ M ₂	0.68 250	0.68 250	0.68 250	0.34 250	0.34 250	0.34 250	0.17 250	0.17 250	0.17 250		
126.933	P ₁ M ₂	0.70 284	0.70 284	0.70 284	0.35 284	0.35 284	0.35 284	0.18 284	0.18 284	0.18 284		
146.667	P ₁ M ₂	0.54 250	0.54 250	0.54 250	0.27 250	0.27 250	0.27 250	0.13 250	0.13 250	0.13 250		
161.905	P ₁ M ₂	0.55 284	0.55 284	0.55 284	0.28 284	0.28 284	0.28 284	0.14 284	0.14 284	0.14 284		
185.547	P ₁ M ₂	0.55 325	0.55 325	0.55 325	0.28 325	0.28 325	0.28 325	0.14 325	0.14 325	0.14 325		
209.067	P ₁ M ₂	0.47 315	0.47 315	0.47 315	0.24 315	0.24 315	0.24 315	0.12 315	0.12 315	0.12 315		
225.867	P ₁ M ₂	0.35 250	0.35 250	0.35 250	0.17 250	0.17 250	0.17 250	0.09 250	0.09 250	0.09 250		
236.667	P ₁ M ₂	0.43 325	0.43 325	0.43 325	0.22 325	0.22 325	0.22 325	0.11 325	0.11 325	0.11 325		
289.917	P ₁ M ₂		0.35 325	0.35 325		0.18 325	0.18 325			0.09 325		
326.667	P ₁ M ₂		0.30 315	0.30 315		0.15 315	0.15 315			0.08 315		
364.467	P ₁ M ₂	0.28 325	0.28 325	0.28 325	0.14 325	0.14 325	0.14 325	0.07 325	0.07 325	0.07 325		
410.667	P ₁ M ₂	0.24 315	0.24 315	0.24 315	0.12 315	0.12 315	0.12 315	0.06 315	0.06 315	0.06 315		
469.389	P ₁ M ₂	0.22 325	0.22 325	0.22 325	0.11 325	0.11 325	0.11 325	0.05 325	0.05 325	0.05 325		
510.000	P ₁ M ₂	0.18 284	0.18 284		0.09 284	0.09 284		0.04 284	0.04 284	0.04 284		
528.889	P ₁ M ₂	0.19 315	0.19 315	0.19 315	0.09 315	0.09 315	0.09 315	0.05 315	0.05 315	0.05 315		
594.894	P ₁ M ₂	0.17 325	0.17 325		0.09 325	0.09 325		0.04 325	0.04 325	0.04 325		
670.303	P ₁ M ₂	0.15 315	0.15 315		0.07 315	0.07 315		0.04 315	0.04 315	0.04 315		
820.760	P ₁ M ₂	0.12 325	0.12 325	0.12 325	0.06 325	0.06 325	0.06 325	0.03 325	0.03 325	0.03 325		
924.800	P ₁ M ₂	0.11 315	0.11 315	0.11 315	0.05 315	0.05 315	0.05 315	0.03 315	0.03 315	0.03 315		
1040.215	P ₁ M ₂	0.10 325	0.10 325		0.05 325	0.05 325		0.03 325	0.03 325	0.03 325		

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

Gearboxes with mounting flange for IEC standard motors

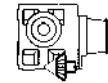
$M_{2\text{perm}} \leq 325 \text{ Nm}$

GKS 05 - 4 N									Dimensions page 5-106		
n ₁		2800 min ⁻¹			1400 min ⁻¹			700 min ⁻¹			
IEC connection		63	71 63	80 71	63	71 63	80 71	63	71 63	80 71	
For the geometrical assignment servo/DC motors see chapter 2											
Drive size		1A	□B	□C	1A	□B	□C	1A	□B	□C	
i	P _{1perm} [kW] M _{2perm} [Nm]	0.08 315	0.08 315		0.04 315	0.04 315		0.02 315	0.02 315		
1172.073	P ₁ M ₂										
1303.560	P ₁ M ₂	0.08 325	0.08 325		0.04 325	0.04 325		0.02 325	0.02 325		
1468.800	P ₁ M ₂	0.07 315	0.07 315		0.03 315	0.03 315		0.02 315	0.02 315		
1717.389	P ₁ M ₂	0.06 325			0.03 325			0.02 325			
1935.086	P ₁ M ₂	0.05 315			0.03 315			0.01 315			

Thermal limit rating not considered (see page 2-7)

Selection tables – (Helical)-bevel gearboxes

Gearboxes with mounting flange for IEC standard motors



M_{2perm} ≤ 702 Nm

GKS 06 - 3 N												Dimensions page 5-102							
n ₁		2800 min ⁻¹						1400 min ⁻¹						700 min ⁻¹					
IEC connection		71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90			
For the geometrical assignment servo/DC motors see chapter 2																			
Drive size		1B	□C	□D	□E	□F	1B	□C	□D	□E	□F	1B	□C	□D	□E	□F			
i	P _{1perm} [kW] M _{2perm} [Nm]																		
6.485	P ₁ M ₂			10.2 214	10.2 214					6.26 263	6.26 263				3.13 263	3.13 263			
9.196	P ₁ M ₂			10.2 303	10.2 303					6.26 373	6.26 373				3.13 373	3.13 373			
10.147	P ₁ M ₂			10.2 334	10.2 334					6.26 412	6.26 412				3.13 412	3.13 412			
11.382	P ₁ M ₂		3.75 138	7.30 269	7.30 269			2.31 170	4.49 331	4.49 331				1.54 227	2.25 331	2.25 331			
12.612	P ₁ M ₂			8.47 346	8.47 346					5.21 426	5.21 426				2.61 426	2.61 426			
14.824	P ₁ M ₂			10.2 488	10.2 488					6.25 600	6.25 600				3.13 600	3.13 600			
16.699	P ₁ M ₂			9.07 491	9.07 491					5.58 604	5.58 604				2.79 604	2.79 604			
17.809	P ₁ M ₂		3.75 216	7.30 421	7.30 421			2.31 266	4.49 518	4.49 518				1.54 355	2.25 518	2.25 518			
20.329	P ₁ M ₂			8.20 540	8.20 540					5.05 665	5.05 665				2.53 665	2.53 665			
22.902	P ₁ M ₂			6.63 492	6.63 492					4.08 606	4.08 606				2.04 606	2.04 606			
26.017	P ₁ M ₂		3.75 316	6.54 551	6.54 551			2.31 389	4.03 679	4.03 679				1.54 519	2.01 679	2.01 679			
28.461	P ₁ M ₂			3.75 346	6.01 554	6.01 554			2.31 426	3.70 682	3.70 682				1.54 568	1.85 682	1.85 682		
32.063	P ₁ M ₂			3.75 390	4.77 495	4.77 495			2.31 480	2.94 610	2.94 610				1.47 610	1.47 610	1.47 610		
36.303	P ₁ M ₂	3.04 357	3.75 441	4.73 556	4.73 556			1.87 440	2.31 543	2.91 685	2.91 685				1.25 586	1.46 685	1.46 685		
41.472	P ₁ M ₂			4.17 560	4.17 560					2.56 689	2.56 689				1.28 689	1.28 689			
44.471	P ₁ M ₂			4.26 614	4.41 636	4.41 636			2.31 665	2.39 689	2.39 689				1.20 689	1.20 689	1.20 689		
53.074	P ₁ M ₂			3.73 641	3.73 641	3.73 641			2.02 695	2.02 695	2.02 695				1.01 695	1.01 695	1.01 695		
57.882	P ₁ M ₂		3.42 641	3.42 641	3.42 641			1.85 695	1.85 695	1.85 695				0.93 695	0.93 695	0.93 695			
65.207	P ₁ M ₂		2.73 576	2.73 576	2.73 576			1.48 624	1.48 624	1.48 624				0.74 624	0.74 624	0.74 624			
72.000	P ₁ M ₂		2.78 648	2.78 648	2.78 648			1.51 702	1.51 702	1.51 702				0.75 702	0.75 702	0.75 702			
81.111	P ₁ M ₂		2.21 581	2.21 581	2.21 581			1.20 630	1.20 630	1.20 630				0.60 630	0.60 630	0.60 630			
93.177	P ₁ M ₂	1.63 491	2.15 648	2.15 648			0.88 532	1.16 702	1.16 702				0.44 532	0.58 702	0.58 702				
104.967	P ₁ M ₂	1.63 553	1.72 586	1.72 586			0.88 599	0.93 635	0.93 635				0.44 599	0.47 635	0.47 635				

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

Gearboxes with mounting flange for IEC standard motors

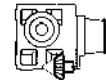
$M_{2\text{perm}} \leq 702 \text{ Nm}$

GKS 06 - 3 N												Dimensions page 5-102					
n ₁		2800 min ⁻¹					1400 min ⁻¹					700 min ⁻¹					
IEC connection		71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90	
For the geometrical assignment servo/DC motors see chapter 2																	
Drive size		1B	□C	□D	□E	□F	1B	□C	□D	□E	□F	1B	□C	□D	□E	□F	
i	P _{1perm} [kW] M _{2perm} [Nm]																
113.082	P ₁ M ₂	1.47 539	1.92 702	1.92 702			0.74 539	0.96 702	0.96 702			0.37 539	0.48 702	0.48 702			
127.392	P ₁ M ₂	1.47 607	1.54 635	1.54 635			0.74 607	0.77 635	0.77 635			0.37 607	0.39 635	0.39 635			
142.941	P ₁ M ₂	1.18 546	1.52 702				0.59 546	0.76 702				0.30 546	0.38 702				
161.029	P ₁ M ₂	1.18 615	1.22 635				0.59 615	0.61 635				0.30 615	0.30 635				
190.080	P ₁ M ₂	1.14 702	1.14 702	1.14 702			0.57 702	0.57 702	0.57 702			0.29 702	0.29 702	0.29 702			
214.133	P ₁ M ₂	0.92 635	0.92 635	0.92 635			0.46 635	0.46 635	0.46 635			0.23 635	0.23 635	0.23 635			
230.688	P ₁ M ₂	0.94 702	0.94 702	0.94 702			0.47 702	0.47 702	0.47 702			0.24 702	0.24 702	0.24 702			
259.880	P ₁ M ₂	0.75 635	0.75 635	0.75 635			0.38 635	0.38 635	0.38 635			0.19 635	0.19 635	0.19 635			
291.600	P ₁ M ₂	0.74 702	0.74 702				0.37 702	0.37 702				0.19 702	0.19 702				
328.500	P ₁ M ₂	0.60 635	0.60 635				0.30 635	0.30 635				0.15 635	0.15 635				

Thermal limit rating not considered (see page 2-7)

Selection tables – (Helical)-bevel gearboxes

Gearboxes with mounting flange for IEC standard motors



M_{2perm} ≤ 702 Nm

GKS 06 - 4 N												Dimensions page 5-106			
n ₁		2800 min ⁻¹				1400 min ⁻¹				700 min ⁻¹					
IEC connection		63	71 63	80 71	90 80	63	71 63	80 71	90 80	63	71 63	80 71	90 80		
For the geometrical assignment servo/DC motors see chapter 2															
Drive size	1A	□B	□C	□D	1A	□B	□C	□D	1A	□B	□C	□D	1A	□B	□C
i	P _{1perm} [kW] M _{2perm} [Nm]														
103.721	P ₁ M ₂	1.09 360	1.91 632	1.91 632	1.91 632	0.59 390	1.04 685	1.04 685	1.04 685	0.30 390	0.52 685	0.52 685	0.52 685	0.52 685	0.52 685
113.205	P ₁ M ₂	1.18 425	1.49 537	1.49 537	1.49 537	0.59 425	0.75 537	0.75 537	0.75 537	0.30 425	0.37 537	0.37 537	0.37 537	0.37 537	0.37 537
127.059	P ₁ M ₂	1.18 478	1.70 689	1.70 689	1.70 689	0.59 478	0.85 689	0.85 689	0.85 689	0.30 478	0.43 689	0.43 689	0.43 689	0.43 689	0.43 689
140.816	P ₁ M ₂	1.18 529	1.20 537	1.20 537	1.20 537	0.59 529	0.60 537	0.60 537	0.60 537	0.30 529	0.30 537	0.30 537	0.30 537	0.30 537	0.30 537
155.647	P ₁ M ₂		1.39 689	1.39 689	1.39 689		0.70 689	0.70 689	0.70 689		0.35 689	0.35 689	0.35 689	0.35 689	0.35 689
174.336	P ₁ M ₂	0.97 537	0.97 537	0.97 537		0.48 537	0.48 537	0.48 537		0.24 537	0.24 537	0.24 537	0.24 537	0.24 537	0.24 537
202.588	P ₁ M ₂		1.08 695	1.08 695	1.08 695		0.54 695	0.54 695	0.54 695		0.27 695	0.27 695	0.27 695	0.27 695	0.27 695
224.524	P ₁ M ₂	0.75 537	0.75 537	0.75 537		0.38 537	0.38 537	0.38 537		0.19 537	0.19 537	0.19 537	0.19 537	0.19 537	0.19 537
252.000	P ₁ M ₂		0.88 702	0.88 702	0.88 702		0.44 702	0.44 702	0.44 702		0.22 702	0.22 702	0.22 702	0.22 702	0.22 702
279.286	P ₁ M ₂	0.60 537	0.60 537	0.60 537		0.30 537	0.30 537	0.30 537		0.15 537	0.15 537	0.15 537	0.15 537	0.15 537	0.15 537
316.800	P ₁ M ₂	0.70 702	0.70 702	0.70 702		0.35 702	0.35 702	0.35 702		0.17 702	0.17 702	0.17 702	0.17 702	0.17 702	0.17 702
361.429	P ₁ M ₂	0.47 537	0.47 537	0.47 537		0.23 537	0.23 537	0.23 537		0.12 537	0.12 537	0.12 537	0.12 537	0.12 537	0.12 537
408.000	P ₁ M ₂	0.54 702	0.54 702	0.54 702		0.27 702	0.27 702	0.27 702		0.14 702	0.14 702	0.14 702	0.14 702	0.14 702	0.14 702
458.067	P ₁ M ₂	0.37 537	0.37 537			0.18 537	0.18 537			0.09 537	0.09 537				
517.091	P ₁ M ₂	0.43 702	0.43 702			0.21 702	0.21 702			0.11 702	0.11 702				
555.927	P ₁ M ₂	0.30 537	0.30 537			0.15 537	0.15 537			0.08 537	0.08 537				
640.800	P ₁ M ₂	0.34 702	0.34 702	0.34 702		0.17 702	0.17 702	0.17 702		0.09 702	0.09 702	0.09 702	0.09 702	0.09 702	0.09 702
696.668	P ₁ M ₂	0.24 537	0.24 537			0.12 537	0.12 537			0.06 537	0.06 537				
812.137	P ₁ M ₂	0.27 702	0.27 702			0.14 702	0.14 702			0.07 702	0.07 702				
914.907	P ₁ M ₂	0.22 635	0.22 635			0.11 635	0.11 635			0.05 635	0.05 635				
1017.741	P ₁ M ₂	0.22 702	0.22 702			0.11 702	0.11 702			0.05 702	0.05 702				

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

Gearboxes with mounting flange for IEC standard motors

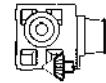
M_{2perm} ≤ 702 Nm

GKS 06 - 4 N												Dimensions page 5-106			
n ₁		2800 min ⁻¹				1400 min ⁻¹				700 min ⁻¹					
IEC connection		63	71 63	80 71	90 80	63	71 63	80 71	90 80	63	71 63	80 71	90 80		
For the geometrical assignment servo/DC motors see chapter 2															
Drive size		1A	□B	□C	□D	1A	□B	□C	□D	1A	□B	□C	□D		
i	P _{1perm} [kW] M _{2perm} [Nm]	0.17 635	0.17 635			0.09 635	0.09 635			0.04 635	0.04 635				
1146.529	P ₁ M ₂														
1340.834	P ₁ M ₂	0.16 702				0.08 702				0.04 702					
1510.507	P ₁ M ₂	0.13 635				0.07 635				0.03 635					

Thermal limit rating not considered (see page 2-7)

Selection tables – (Helical)-bevel gearboxes

Gearboxes with mounting flange for IEC standard motors



M_{2perm} ≤ 1330 Nm

GKS 07 - 3 N															Dimensions page 5-102										
n ₁		2800 min ⁻¹							1400 min ⁻¹							700 min ⁻¹									
IEC connection		80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132	80 71	90 80	100/112 80/90	100/112 90		
For the geometrical assignment servo/DC motors see chapter 2																									
Drive size		□C	□D	□E	□F	□G	□H	□C	□D	□E	□F	□G	□H	□C	□D	□E	□F	□G	□H	□C	□D	□E	□F	□G	□H
i	P _{1perm} [kW] M _{2perm} [Nm]																								
5.955	P ₁ M ₂			10.7 207	19.8 382	19.8 382				6.60 255	12.2 470	12.2 470								4.40 339	6.10 470	6.10 470			
8.254	P ₁ M ₂			10.7 287	16.4 439	16.4 439				6.60 353	10.1 540	10.1 540								4.40 470	5.05 540	5.05 540			
9.171	P ₁ M ₂			10.7 318	19.8 588	19.8 588				6.60 392	12.2 725	12.2 725								4.40 523	6.10 725	6.10 725			
10.124	P ₁ M ₂			10.7 351	19.8 650	19.8 650				6.60 433	12.2 800	12.2 800								4.40 577	6.10 800	6.10 800			
11.378	P ₁ M ₂			10.7 395	13.5 395	13.5 498				6.60 486	8.32 613	8.32 613								4.16 613	4.16 613	4.16 613			
12.711	P ₁ M ₂			10.7 441	16.4 676	16.4 676				6.60 543	10.1 832	10.1 832								4.40 724	5.05 832	5.05 832			
14.799	P ₁ M ₂			10.7 514	17.6 845	17.6 845				6.60 633	10.9 1040	10.9 1040								4.40 843	5.42 1040	5.42 1040			
16.674	P ₁ M ₂			10.7 579	16.1 870	16.1 870				6.60 713	9.91 1071	9.91 1071								4.40 950	4.96 1071	4.96 1071			
17.270	P ₁ M ₂			10.7 600	14.5 600	14.5 811				6.60 738	8.92 998	8.92 998								4.40 984	4.46 984	4.46 998			
20.511	P ₁ M ₂			10.7 712	13.6 902	13.6 902				6.60 877	8.35 1110	8.35 1110								4.18 1110	4.18 1110	4.18 1110			
23.111	P ₁ M ₂			10.7 802	12.7 949	12.7 949				6.60 988	7.80 1168	7.80 1168								3.90 1168	3.90 1168	3.90 1168			
25.244	P ₁ M ₂			10.7 876	11.7 876	11.7 956				6.60 1079	7.20 1079	7.20 1079								3.60 1177	3.60 1177	3.60 1177			
28.274	P ₁ M ₂			10.7 976	10.7 976	10.7 976				6.56 1202	6.56 1202	6.56 1202								3.28 1202	3.28 1202	3.28 1202			
31.858	P ₁ M ₂			9.22 952	9.22 952	9.22 952				5.68 1172	5.68 1172	5.68 1172								2.84 1172	2.84 1172	2.84 1172			
36.064	P ₁ M ₂			3.75 438	8.97 1048	8.97 1048				2.31 540	5.52 1290	5.52 1290								1.54 719	2.76 1290	2.76 1290			
40.906	P ₁ M ₂				7.91 1048	7.91 1048					4.87 1290	4.87 1290	4.87 1290								2.43 1290	2.43 1290	2.43 1290		
44.178	P ₁ M ₂				8.38 1200	8.38 1200					4.54 1300	4.54 1300	4.54 1300								2.27 1300	2.27 1300	2.27 1300		
50.346	P ₁ M ₂				7.36 1200	7.36 1200					3.99 1300	3.99 1300	3.99 1300								1.99 1300	1.99 1300	1.99 1300		
57.501	P ₁ M ₂				4.26 794	6.49 1209					2.31 860	3.52 1310	3.52 1310								1.54 1147	1.76 1310	1.76 1310		
64.790	P ₁ M ₂				4.26 894	5.25 1103					2.31 969	2.85 1195	2.85 1195								1.42 1195	1.42 1195	1.42 1195		
70.474	P ₁ M ₂				4.26 973	5.34 1218					2.31 1054	2.89 1320	2.89 1320								1.43 1307	1.45 1320	1.45 1320		
79.407	P ₁ M ₂				4.26 1096	4.32 1112					2.31 1188	2.34 1205	2.34 1205								1.17 1205	1.17 1205	1.17 1205		
92.563	P ₁ M ₂				3.11 932	4.09 1227					1.69 1010	2.22 1330	2.22 1330								0.84 1010	1.11 1330	1.11 1330		

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

Gearboxes with mounting flange for IEC standard motors

M_{2perm} ≤ 1330 Nm

GKS 07 - 3 N

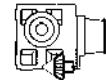
Dimensions page 5-102

n ₁		2800 min ⁻¹						1400 min ⁻¹						700 min ⁻¹					
IEC connection		80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132	80 71	90 80	100/112 80/90	100/112 90	132 100/112	160 132
For the geometrical assignment servo/DC motors see chapter 2																			
Drive size		□C	□D	□E	□F	□G	□H	□C	□D	□E	□F	□G	□H	□C	□D	□E	□F	□G	□H
i	P _{1perm} [kW] M _{2perm} [Nm]																		
104.296	P ₁ M ₂	3.11 1050	3.32 1121	3.32 1121				1.69 1138	1.80 1215	1.80 1215				0.84 1138	0.90 1215	0.90 1215			
112.338	P ₁ M ₂	2.81 1024	3.65 1330	3.65 1330				1.41 1024	1.83 1330	1.83 1330				0.70 1024	0.91 1330	0.91 1330			
126.578	P ₁ M ₂	2.81 1154	2.96 1215	2.96 1215				1.41 1154	1.48 1215	1.48 1215				0.70 1154	0.74 1215	0.74 1215			
140.548	P ₁ M ₂	2.92 1330	2.92 1330	2.92 1330				1.46 1330	1.46 1330	1.46 1330				0.73 1330	0.73 1330	0.73 1330			
158.364	P ₁ M ₂	2.37 1215	2.37 1215	2.37 1215				1.18 1215	1.18 1215	1.18 1215				0.59 1215	0.59 1215	0.59 1215			
184.600	P ₁ M ₂	2.22 1330	2.22 1330	2.22 1330				1.11 1330	1.11 1330	1.11 1330				0.56 1330	0.56 1330	0.56 1330			
208.000	P ₁ M ₂	1.80 1215	1.80 1215	1.80 1215				0.90 1215	0.90 1215	0.90 1215				0.45 1215	0.45 1215	0.45 1215			
224.037	P ₁ M ₂	1.83 1330	1.83 1330	1.83 1330				0.92 1330	0.92 1330	0.92 1330				0.46 1330	0.46 1330	0.46 1330			
252.436	P ₁ M ₂	1.49 1215	1.49 1215	1.49 1215				0.74 1215	0.74 1215	0.74 1215				0.37 1215	0.37 1215	0.37 1215			
283.193	P ₁ M ₂	1.45 1330	1.45 1330	1.45 1330				0.73 1330	0.73 1330	0.73 1330				0.36 1330	0.36 1330	0.36 1330			
319.091	P ₁ M ₂	1.18 1215	1.18 1215	1.18 1215				0.59 1215	0.59 1215	0.59 1215				0.29 1215	0.29 1215	0.29 1215			

Thermal limit rating not considered (see page 2-7)

Selection tables – (Helical)-bevel gearboxes

Gearboxes with mounting flange for IEC standard motors



M_{2perm} ≤ 1330 Nm

GKS 07 - 4 N												Dimensions page 5-106			
n₁		2800 min⁻¹				1400 min⁻¹				700 min⁻¹					
IEC connection		71	80 71	90 80	100/112 80/90	71	80 71	90 80	100/112 80/90	71	80 71	90 80	100/112 80/90		
For the geometrical assignment servo/DC motors see chapter 2															
Drive size		1B	□C	□D	□E	1B	□C	□D	□E	1B	□C	□D	□E		
i	P _{1perm} [kW] M _{2perm} [Nm]														
103.039	P ₁ M ₂	2.54 832	3.45 1132	3.63 1190	3.63 1190	1.37 902	1.87 1227	1.97 1290	1.97 1290	0.77 1014	0.98 1290	0.98 1290	0.98 1290		
112.391	P ₁ M ₂	2.75 984	2.94 1053	2.94 1053	2.94 1053	1.37 984	1.47 1053	1.47 1053	1.47 1053	0.74 1053	0.74 1053	0.74 1053	0.74 1053		
126.222	P ₁ M ₂	2.75 1105	3.23 1300	3.23 1300	3.23 1300	1.37 1105	1.62 1300	1.62 1300	1.62 1300	0.77 1242	0.81 1300	0.81 1300	0.81 1300		
137.748	P ₁ M ₂	2.40 1053	2.40 1053	2.40 1053	2.40 1053	1.20 1053	1.20 1053	1.20 1053	1.20 1053	0.60 1053	0.60 1053	0.60 1053	0.60 1053		
154.622	P ₁ M ₂		2.64 1300	2.64 1300	2.64 1300			1.32 1300	1.32 1300	1.32 1300	0.66 1300	0.66 1300	0.66 1300		
179.201	P ₁ M ₂	1.85 1053	1.85 1053	1.85 1053		0.92 1053	0.92 1053	0.92 1053		0.46 1053	0.46 1053	0.46 1053	0.46 1053		
201.254	P ₁ M ₂		2.04 1310	2.04 1310	2.04 1310			1.02 1310	1.02 1310	1.02 1310	0.51 1310	0.51 1310	0.51 1310		
222.909	P ₁ M ₂	1.48 1053	1.48 1053	1.48 1053		0.74 1053	0.74 1053	0.74 1053		0.37 1053	0.37 1053	0.37 1053	0.37 1053		
246.659	P ₁ M ₂		1.68 1320	1.68 1320	1.68 1320			0.84 1320	0.84 1320	0.84 1320	0.42 1320	0.42 1320	0.42 1320		
273.199	P ₁ M ₂	1.21 1053	1.21 1053	1.21 1053		0.61 1053	0.61 1053	0.61 1053		0.30 1053	0.30 1053	0.30 1053	0.30 1053		
321.049	P ₁ M ₂	1.29 1320	1.29 1320	1.29 1320		0.65 1320	0.65 1320	0.65 1320		0.32 1320	0.32 1320	0.32 1320	0.32 1320		
358.829	P ₁ M ₂	0.92 1053	0.92 1053	0.92 1053		0.46 1053	0.46 1053	0.46 1053		0.23 1053	0.23 1053	0.23 1053	0.23 1053		
399.353	P ₁ M ₂	1.04 1320	1.04 1320	1.04 1320		0.52 1320	0.52 1320	0.52 1320		0.26 1320	0.26 1320	0.26 1320	0.26 1320		
464.367	P ₁ M ₂	0.71 1053	0.71 1053			0.36 1053	0.36 1053			0.18 1053	0.18 1053				
516.810	P ₁ M ₂	0.80 1320	0.80 1320			0.40 1320	0.40 1320			0.20 1320	0.20 1320				
563.573	P ₁ M ₂	0.59 1053	0.59 1053			0.29 1053	0.29 1053			0.15 1053	0.15 1053				
636.581	P ₁ M ₂	0.66 1330	0.66 1330	0.66 1330		0.33 1330	0.33 1330	0.33 1330		0.16 1330	0.16 1330	0.16 1330	0.16 1330		
683.972	P ₁ M ₂	0.48 1053	0.48 1053			0.24 1053	0.24 1053			0.12 1053	0.12 1053				
823.810	P ₁ M ₂	0.51 1330	0.51 1330			0.25 1330	0.25 1330			0.13 1330	0.13 1330				
928.237	P ₁ M ₂	0.41 1215	0.41 1215			0.21 1215	0.21 1215			0.10 1215	0.10 1215				
999.806	P ₁ M ₂	0.42 1330	0.42 1330			0.21 1330	0.21 1330			0.10 1330	0.10 1330				
1126.542	P ₁ M ₂	0.34 1215	0.34 1215			0.17 1215	0.17 1215			0.09 1215	0.09 1215				
1277.842	P ₁ M ₂	0.33 1330				0.16 1330				0.08 1330					
1439.822	P ₁ M ₂	0.27 1215				0.13 1215				0.07 1215					

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

Gearboxes with mounting flange for IEC standard motors

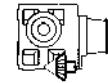
M_{2perm} ≤ 3080 Nm

GKS 09 - 3 N														Dimensions page 5-102							
n ₁		2800 min ⁻¹						1400 min ⁻¹						700 min ⁻¹							
IEC connection		80/90 80/90	100/112 90	100/112 100/112	132 132	160/180 132	200	80/90 80/90	100/112 90	100/112 100/112	132 132	160/180 132	200	80/90 80/90	100/112 90	100/112 100/112	132 132	160/180 132	200		
For the geometrical assignment servo/DC motors see chapter 2																					
Drive size		□D	□E	□F	□G	□H	1K	□D	□E	□F	□G	□H	1K	□D	□E	□F	□G	□H	1K		
i	P _{1perm} [kW] M _{2perm} [Nm]																				
12.283	P ₁ M ₂			28.6	33.0	33.0				17.6	20.3	20.3						10.2	10.2	10.2	
				1137	1312	1312				1400	1615	1615						1615	1615	1615	
13.360	P ₁ M ₂			28.6	33.0	33.0				17.6	20.3	20.3						10.2	10.2	10.2	
				1237	1427	1427				1523	1757	1757						1757	1757	1757	
16.122	P ₁ M ₂			10.7	28.0	28.0	28.0			6.60	17.2	17.2	17.2					4.40	8.62	8.62	8.62
				560	1462	1462	1462			689	1801	1801	1801					919	1801	1801	1801
17.536	P ₁ M ₂			10.7	28.0	28.0	28.0			6.60	17.2	17.2	17.2					4.40	8.62	8.62	8.62
				609	1591	1591	1591			750	1958	1958	1958					999	1958	1958	1958
19.541	P ₁ M ₂				28.6	33.0	33.0				17.6	20.3	20.3					10.2	10.2	10.2	
					1809	2087	2087				2227	2570	2570					2570	2570	2570	
22.022	P ₁ M ₂				28.6	30.4	30.4				17.6	18.7	18.7					9.36	9.36	9.36	
					2039	2170	2170				2510	2672	2672					2672	2672	2672	
25.649	P ₁ M ₂			10.7	28.0	28.0	28.0			6.60	17.2	17.2	17.2					4.40	8.61	8.61	8.61
				890	2325	2325	2325			1096	2862	2862	2862					1462	2862	2862	2862
29.228	P ₁ M ₂			10.7	25.0	25.0				6.60	15.4	15.4					4.40	7.69	7.69		
				1015	2367	2367				1249	2914	2914					1666	2914	2914		
32.940	P ₁ M ₂			10.7	22.7	22.7				6.60	14.0	14.0					4.40	6.99	6.99		
				1143	2424	2424				1408	2984	2984					1877	2984	2984		
35.193	P ₁ M ₂			10.7	10.7	21.6	21.6			6.60	6.60	13.3	13.3				4.40	4.40	6.64	6.64	
				1222	1222	2460	2460			1504	1504	3029	3029				2006	2006	3029	3029	
39.662	P ₁ M ₂			10.7	10.7	19.0	19.0			6.60	6.60	11.7	11.7				4.40	4.40	5.84	5.84	
				1377	1377	2438	2438			1695	1695	3002	3002				2260	2260	3002	3002	
43.146	P ₁ M ₂				12.2	20.0	20.0				6.60	10.8	10.8				4.40	5.41	5.41		
					1702	2790	2790				1844	3024	3024				2459	3024	3024		
48.625	P ₁ M ₂				12.2	17.7	17.7				6.60	9.58	9.58				4.40	4.79	4.79		
					1918	2784	2784				2078	3017	3017				2771	3017	3017		
58.456	P ₁ M ₂			12.2	12.2	14.8				6.60	6.60	8.00				3.53	3.75	4.00			
				2306	2306	2797				2499	2499	3031				2674	2838	3031			
65.879	P ₁ M ₂			12.2	12.2	13.2				6.60	6.60	7.14				3.53	3.57	3.57			
				2598	2598	2813				2816	2816	3048				3013	3048	3048			
70.982	P ₁ M ₂			11.2	11.9	12.2				6.06	6.42	6.59				3.03	3.21	3.30			
				2571	2726	2797				2786	2954	3031				2786	2954	3031			
79.996	P ₁ M ₂			10.9	10.9	10.9				5.93	5.93	5.93				2.96	2.96	2.96			
				2834	2834	2834				3071	3071	3071				3071	3071	3071			
91.860	P ₁ M ₂			4.26	8.98	9.40				2.31	4.86	5.09				1.44	2.43	2.55			
				1268	2671	2797				1374	2895	3031				1718	2895	3031			
103.524	P ₁ M ₂			4.26	8.47	8.47				2.31	4.59	4.59				1.44	2.30	2.30			
				1429	2842	2842				1549	3080	3080				1936	3080	3080			
111.484	P ₁ M ₂			4.62	8.12	8.39				2.31	4.06	4.20				1.21	2.03	2.10			
				1668	2934	3031				1668	2934	3031				1742	2934	3031			
125.641	P ₁ M ₂			4.62	7.57	7.57				2.31	3.78	3.78				1.21	1.89	1.89			
				1880	3080	3080				1880	3080	3080				1963	3080	3080			
140.921	P ₁ M ₂			3.87	6.51					1.93	3.26					0.97	1.63				
				1766	2973					1766	2973					1766	2973				

Thermal limit rating not considered (see page 2-7)

Selection tables – (Helical)-bevel gearboxes

Gearboxes with mounting flange for IEC standard motors



M_{2perm} ≤ 3080 Nm

GKS 09 - 3 N														Dimensions page 5-102											
n ₁		2800 min ⁻¹						1400 min ⁻¹						700 min ⁻¹											
IEC connection		80/90	100/112	100/112	132	160/180	200	80/90	100/112	100/112	132	160/180	200	80/90	100/112	100/112	132	160/180	200						
For the geometrical assignment servo/DC motors see chapter 2																									
Drive size		□D	□E	□F	□G	□H	1K	□D	□E	□F	□G	□H	1K	□D	□E	□F	□G	□H	1K	□D	□E	□F	□G	□H	1K
i	P _{1perm} [kW] M _{2perm} [Nm]																								
158.816	P ₁ M ₂	3.87 1990	5.99 3080					1.93 1990	2.99 3080					0.97 1990	1.50 3080										
182.000	P ₁ M ₂	4.62 2723	5.14 3031	5.14 3031				2.31 2723	2.57 3031	2.57 3031				1.29 3031	1.29 3031	1.29 3031									
205.111	P ₁ M ₂	4.62 3069	4.64 3080	4.64 3080				2.31 3069	2.32 3080	2.32 3080				1.16 3080	1.16 3080	1.16 3080									
220.882	P ₁ M ₂	4.24 3031	4.24 3031	4.24 3031				2.12 3031	2.12 3031	2.12 3031				1.06 3031	1.06 3031	1.06 3031									
248.930	P ₁ M ₂	3.82 3080	3.82 3080	3.82 3080				1.91 3080	1.91 3080	1.91 3080				0.96 3080	0.96 3080	0.96 3080									
279.205	P ₁ M ₂	3.35 3031	3.35 3031					1.68 3031	1.68 3031					0.84 3031	0.84 3031										
314.659	P ₁ M ₂	3.02 3080	3.02 3080					1.51 3080	1.51 3080					0.76 3080	0.76 3080										

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

Gearboxes with mounting flange for IEC standard motors

M_{2perm} ≤ 3080 Nm

GKS 09 - 4 N

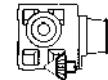
Dimensions page 5-106

n ₁		2800 min ⁻¹					1400 min ⁻¹					700 min ⁻¹					
IEC connection		71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90	71	80 71	90 80	100/112 80/90	100/112 90	
For the geometrical assignment servo/DC motors see chapter 2																	
Drive size		1B	□C	□D	□E	□F	1B	□C	□D	□E	□F	1B	□C	□D	□E	□F	
i	P _{1perm} [kW] M _{2perm} [Nm]																
100.551	P ₁ M ₂		3.45 1105	4.26 1364	8.73 2795	8.73 2795		1.87 1197	2.31 1479	4.73 3029	4.73 3029		1.25 1596	1.54 1972	2.37 3029	2.37 3029	
113.320	P ₁ M ₂		3.74 1349	4.62 1666	8.32 3002	8.32 3002		1.87 1349	2.31 1666	4.16 3002	4.16 3002		1.25 1799	1.54 2222	2.08 3002	2.08 3002	
123.275	P ₁ M ₂		3.74 1468	4.62 1813	7.70 3024	7.70 3024		1.87 1468	2.31 1813	3.85 3024	3.85 3024		1.25 1957	1.54 2417	1.93 3024	1.93 3024	
138.929	P ₁ M ₂		3.74 1654	4.62 2043	6.82 3017	6.82 3017		1.87 1654	2.31 2043	3.41 3017	3.41 3017		1.25 2205	1.54 2724	1.71 3017	1.71 3017	
151.012	P ₁ M ₂			4.62 2221	6.29 3024	6.29 3024			2.31 2221	3.14 3024	3.14 3024			1.54 2961	1.57 3024	1.57 3024	
170.188	P ₁ M ₂			4.62 2503	5.57 3017	5.57 3017			2.31 2503	2.78 3017	2.78 3017			1.39 3017	1.39 3017	1.39 3017	
204.596	P ₁ M ₂			4.62 3009	4.65 3031	4.65 3031			2.31 3009	2.33 3031	2.33 3031			1.16 3031	1.16 3031	1.16 3031	
230.577	P ₁ M ₂			4.15 3048	4.15 3048	4.15 3048			2.08 3048	2.08 3048	2.08 3048			1.04 3048	1.04 3048	1.04 3048	
248.439	P ₁ M ₂			3.83 3031	3.83 3031	3.83 3031			1.92 3031	1.92 3031	1.92 3031			0.96 3031	0.96 3031	0.96 3031	
279.986	P ₁ M ₂			3.44 3071	3.44 3071	3.44 3071			1.72 3071	1.72 3071	1.72 3071			0.86 3071	0.86 3071	0.86 3071	
323.365	P ₁ M ₂			2.94 3031	2.94 3031	2.94 3031			1.47 3031	1.47 3031	1.47 3031			0.74 3031	0.74 3031	0.74 3031	
364.427	P ₁ M ₂			2.65 3071	2.65 3071	2.65 3071			1.32 3071	1.32 3071	1.32 3071			0.66 3071	0.66 3071	0.66 3071	
402.234	P ₁ M ₂			2.37 3031	2.37 3031	2.37 3031			1.18 3031	1.18 3031	1.18 3031			0.59 3031	0.59 3031	0.59 3031	
453.311	P ₁ M ₂			2.13 3071	2.13 3071	2.13 3071			1.06 3071	1.06 3071	1.06 3071			0.53 3071	0.53 3071	0.53 3071	
520.538	P ₁ M ₂			1.83 3031	1.83 3031	1.83 3031			0.91 3031	0.91 3031	0.91 3031			0.46 3031	0.46 3031	0.46 3031	
586.638	P ₁ M ₂			1.65 3080	1.65 3080	1.65 3080			0.82 3080	0.82 3080	0.82 3080			0.41 3080	0.41 3080	0.41 3080	
631.744	P ₁ M ₂			1.51 3031	1.51 3031	1.51 3031			0.75 3031	0.75 3031	0.75 3031			0.38 3031	0.38 3031	0.38 3031	
711.965	P ₁ M ₂			1.36 3080	1.36 3080	1.36 3080			0.68 3080	0.68 3080	0.68 3080			0.34 3080	0.34 3080	0.34 3080	
817.551	P ₁ M ₂			1.16 3031	1.16 3031	1.16 3031			0.58 3031	0.58 3031	0.58 3031			0.29 3031	0.29 3031	0.29 3031	
921.367	P ₁ M ₂			1.05 3080	1.05 3080	1.05 3080			0.53 3080	0.53 3080	0.53 3080			0.26 3080	0.26 3080	0.26 3080	
992.209	P ₁ M ₂			0.96 3031	0.96 3031	0.96 3031			0.48 3031	0.48 3031	0.48 3031			0.24 3031	0.24 3031	0.24 3031	
1118.204	P ₁ M ₂			0.87 3080	0.87 3080	0.87 3080			0.43 3080	0.43 3080	0.43 3080			0.22 3080	0.22 3080	0.22 3080	
1254.197	P ₁ M ₂			0.76 3031	0.76 3031				0.38 3031	0.38 3031				0.19 3031	0.19 3031		
1413.461	P ₁ M ₂			0.68 3080	0.68 3080				0.34 3080	0.34 3080				0.17 3080	0.17 3080		

Thermal limit rating not considered (see page 2-7)

Selection tables – (Helical)-bevel gearboxes

Gearboxes with mounting flange for IEC standard motors



M_{2perm} ≤ 6072 Nm

GKS 11 - 3 N														Dimensions page 5-102							
n₁		2800 min⁻¹					1400 min⁻¹					700 min⁻¹									
IEC connection		80/90/100 112	112 90/100	132 100/112	160/180 132	200/225	80/90/100 112	112 90/100	132 100/112	160/180 132	200/225	80/90/100 112	112 90/100	132 100/112	160/180 132	200/225					
For the geometrical assignment servo/DC motors see chapter 2																					
Drive size		□E	□F	□G	□H	□K	□E	□F	□G	□H	□K	□E	□F	□G	□H	□K					
i	P _{1perm} [kW] M _{2perm} [Nm]																				
12.094	P ₁ M ₂			57.4 2250	57.4 2250					35.4 2770	35.4 2770						17.7 2770	17.7 2770			
13.154	P ₁ M ₂			57.4 2447	57.4 2447					35.4 3013	35.4 3013						17.7 3013	17.7 3013			
15.874	P ₁ M ₂			48.8 2509	48.8 2509					30.0 3089	30.0 3089						15.0 3089	15.0 3089			
17.265	P ₁ M ₂			48.8 2729	48.8 2729					30.0 3360	30.0 3360						15.0 3360	15.0 3360			
19.515	P ₁ M ₂			57.4 3630	57.4 3630					35.4 4470	35.4 4470						17.7 4470	17.7 4470			
21.989	P ₁ M ₂			55.7 3967	55.7 3967					34.3 4884	34.3 4884						17.1 4884	17.1 4884			
25.615	P ₁ M ₂			48.8 4049	48.8 4049					30.0 4985	30.0 4985						15.0 4985	15.0 4985			
28.021	P ₁ M ₂			28.6 2594	46.2 4193	46.2 4193				17.6 3194	28.4 5163	28.4 5163					11.7 4259	14.2 5163	14.2 5163		
31.573	P ₁ M ₂			28.6 2923	43.8 4484	43.8 4484				17.6 3599	27.0 5521	27.0 5521					11.7 4798	13.5 5521	13.5 5521		
35.741	P ₁ M ₂			10.7 1241	28.6 3309	39.7 4593	39.7 4593			6.60 1528	17.6 4074	24.4 5655	24.4 5655				4.40 2037	11.7 5432	12.2 5655	12.2 5655	
40.272	P ₁ M ₂			10.7 1398	28.6 3728	36.5 4767	36.5 4767			6.60 1721	17.6 4590	22.5 5869	22.5 5869				4.40 2295	11.3 5869	11.3 5869	11.3 5869	
43.783	P ₁ M ₂				32.5 4605	37.7 5352	37.7 5352				17.6 4991	20.4 5800	20.4 5800					10.2 5800	10.2 5800	10.2 5800	10.2 5800
49.333	P ₁ M ₂				32.5 5189	34.2 5466	34.2 5466				17.6 5623	18.5 5923	18.5 5923					9.27 5923	9.27 5923	9.27 5923	9.27 5923
57.683	P ₁ M ₂			12.2 2275	29.5 5511	29.5 5511				6.60 2466	16.0 5972	16.0 5972					4.40 3287	7.99 5972	7.99 5972	7.99 5972	
64.995	P ₁ M ₂			12.2 2564	26.3 5529	26.3 5529				6.60 2778	14.2 5992	14.2 5992					4.40 3704	7.11 5992	7.11 5992	7.11 5992	
70.887	P ₁ M ₂			12.2 2796	24.0 5512	24.0 5512				6.60 3030	13.0 5973	13.0 5973					3.92 3600	6.50 5973	6.50 5973	6.50 5973	
79.873	P ₁ M ₂			12.2 3150	21.5 5566	21.5 5566				6.60 3414	11.7 6032	11.7 6032					3.92 4057	5.83 6032	5.83 6032	5.83 6032	
91.737	P ₁ M ₂			10.9 3239	11.6 3454	18.6 5513				5.91 3510	6.30 3743	10.1 5975					2.95 3510	3.15 3743	5.03 5975	5.03 5975	
103.365	P ₁ M ₂			10.9 3649	11.6 3892	16.7 5603				5.91 3955	6.30 4218	9.07 6072					2.95 3955	3.15 4218	4.53 6072	4.53 6072	
111.335	P ₁ M ₂			9.87 3559	10.5 3793	16.6 5975				4.93 3559	5.26 3793	8.28 5975					2.47 3559	2.63 3793	4.14 5975	4.14 5975	
125.448	P ₁ M ₂			9.87 4010	10.5 4274	14.9 6072				4.93 4010	5.26 4274	7.47 6072					2.47 4010	2.63 4274	3.74 6072	3.74 6072	
140.732	P ₁ M ₂			7.92 3609	8.43 3845					3.96 3609	4.22 3845						1.98 3609	2.11 3845		2.11 3845	
158.571	P ₁ M ₂			7.92 4067	8.43 4332					3.96 4067	4.22 4332						1.98 4067	2.11 4332		2.11 4332	

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

Gearboxes with mounting flange for IEC standard motors

M_{2perm} ≤ 6072 Nm

GKS 11 - 3 N

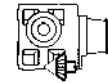
Dimensions page 5-102

n ₁		2800 min ⁻¹					1400 min ⁻¹					700 min ⁻¹				
IEC connection		80/90/100 112	112 90/100	132 100/112	160/180 132	200/225	80/90/100 112	112 90/100	132 100/112	160/180 132	200/225	80/90/100 112	112 90/100	132 100/112	160/180 132	200/225
For the geometrical assignment servo/DC motors see chapter 2																
Drive size		□E	□F	□G	□H	□K	□E	□F	□G	□H	□K	□E	□F	□G	□H	□K
i	P _{1perm} [kW] M _{2perm} [Nm]	9.89 5975	9.89 5975	9.89 5975			4.94 5975	4.94 5975	4.94 5975			2.47 5975	2.47 5975	2.47 5975		
186.572	P ₁ M ₂	8.65 5892	8.65 5892	8.65 5892			4.33 5892	4.33 5892	4.33 5892			2.16 5892	2.16 5892	2.16 5892		
210.222	P ₁ M ₂	8.15 5975	8.15 5975	8.15 5975			4.07 5975	4.07 5975	4.07 5975			2.04 5975	2.04 5975	2.04 5975		
226.431	P ₁ M ₂	7.13 5892	7.13 5892	7.13 5892			3.56 5892	3.56 5892	3.56 5892			1.78 5892	1.78 5892	1.78 5892		
255.133	P ₁ M ₂	6.44 5975	6.44 5975				3.22 5975	3.22 5975				1.61 5975	1.61 5975			
286.219	P ₁ M ₂	5.64 5892	5.64 5892				2.82 5892	2.82 5892				1.41 5892	1.41 5892			
322.500	P ₁ M ₂															

Thermal limit rating not considered (see page 2-7)

Selection tables – (Helical)-bevel gearboxes

Gearboxes with mounting flange for IEC standard motors



M_{2perm} ≤ 6072 Nm

GKS 11 - 4 N														Dimensions page 5-106							
n ₁		2800 min ⁻¹						1400 min ⁻¹						700 min ⁻¹							
IEC connection		80 71	90 80	100/112 80/90	100/112 90	132 100/112	80 71	90 80	100/112 80/90	100/112 90	132 100/112	80 71	90 80	100/112 80/90	100/112 90	132 100/112	80 71	90 80	100/112 80/90	100/112 90	132 100/112
For the geometrical assignment servo/DC motors see chapter 2																					
Drive size		□C	□D	□E	□F	□G	□C	□D	□E	□F	□G	□C	□D	□E	□F	□G	□C	□D	□E	□F	□G
i	P _{1perm} [kW] M _{2perm} [Nm]																				
102.119	P ₁ M ₂	4.26 1386	12.2 3959	12.2 3959	16.1 5218		2.31 1502	6.60 4291	6.60 4291	8.69 5655		1.54 2002	3.97 5160	4.15 5400	4.35 5655						
115.063	P ₁ M ₂	4.62 1692	13.2 4835	13.2 4835	16.0 5869		2.31 1692	6.60 4835	6.60 4835	8.01 5869		1.54 2256	3.97 5814	4.00 5869	4.00 5869						
125.095	P ₁ M ₂	4.62 1840	13.2 5256	13.2 5256	14.6 5800		2.31 1840	6.60 5256	6.60 5256	7.28 5800		1.54 2453	3.64 5800	3.64 5800	3.64 5800						
140.952	P ₁ M ₂	4.62 2073	13.2 5922	13.2 5922	13.2 5923		2.31 2073	6.60 5922	6.60 5922	6.60 5923		1.54 2764	3.30 5923	3.30 5923	3.30 5923						
153.242	P ₁ M ₂		11.9 5800	11.9 5800	11.9 5800			5.94 5800	5.94 5800	5.94 5800			2.97 5800	2.97 5800	2.97 5800	2.97 5800					
172.667	P ₁ M ₂		10.8 5923	10.8 5923	10.8 5923			5.39 5923	5.39 5923	5.39 5923			2.69 5923	2.69 5923	2.69 5923	2.69 5923					
201.890	P ₁ M ₂		9.29 5972	9.29 5972	9.29 5972			4.64 5972	4.64 5972	4.64 5972			2.32 5972	2.32 5972	2.32 5972	2.32 5972					
227.481	P ₁ M ₂		8.27 5992	8.27 5992	8.27 5992			4.14 5992	4.14 5992	4.14 5992			2.07 5992	2.07 5992	2.07 5992	2.07 5992					
248.106	P ₁ M ₂		7.56 5973	7.56 5973	7.56 5973			3.78 5973	3.78 5973	3.78 5973			1.89 5973	1.89 5973	1.89 5973	1.89 5973					
279.556	P ₁ M ₂		6.78 6032	6.78 6032	6.78 6032			3.39 6032	3.39 6032	3.39 6032			1.69 6032	1.69 6032	1.69 6032	1.69 6032					
322.931	P ₁ M ₂		4.62 4749	5.81 5973	5.81 5973			2.31 4749	2.90 5973	2.90 5973			1.45 5973	1.45 5973	1.45 5973	1.45 5973					
363.866	P ₁ M ₂		4.62 5351	5.21 6032	5.21 6032			2.31 5351	2.60 6032	2.60 6032			1.30 6032	1.30 6032	1.30 6032	1.30 6032					
395.787	P ₁ M ₂		4.62 5820	4.74 5973	4.74 5973			2.31 5820	2.37 5973	2.37 5973			1.19 5973	1.19 5973	1.19 5973	1.19 5973					
445.958	P ₁ M ₂		4.25 6032	4.25 6032	4.25 6032			2.12 6032	2.12 6032	2.12 6032			1.06 6032	1.06 6032	1.06 6032	1.06 6032					
512.195	P ₁ M ₂		3.66 5975	3.66 5975	3.66 5975			1.83 5975	1.83 5975	1.83 5975			0.92 5975	0.92 5975	0.92 5975	0.92 5975					
577.122	P ₁ M ₂		3.30 6072	3.30 6072	3.30 6072			1.65 6072	1.65 6072	1.65 6072			0.83 6072	0.83 6072	0.83 6072	0.83 6072					
621.619	P ₁ M ₂		3.02 5975	3.02 5975	3.02 5975			1.51 5975	1.51 5975	1.51 5975			0.76 5975	0.76 5975	0.76 5975	0.76 5975					
700.416	P ₁ M ₂		2.72 6072	2.72 6072	2.72 6072			1.36 6072	1.36 6072	1.36 6072			0.68 6072	0.68 6072	0.68 6072	0.68 6072					
816.455	P ₁ M ₂		2.30 5975	2.30 5975	2.30 5975			1.15 5975	1.15 5975	1.15 5975			0.57 5975	0.57 5975	0.57 5975	0.57 5975					
919.949	P ₁ M ₂		2.07 6072	2.07 6072	2.07 6072			1.04 6072	1.04 6072	1.04 6072			0.52 6072	0.52 6072	0.52 6072	0.52 6072					
990.879	P ₁ M ₂		1.89 5975	1.89 5975	1.89 5975			0.95 5975	0.95 5975	0.95 5975			0.47 5975	0.47 5975	0.47 5975	0.47 5975					
1116.484	P ₁ M ₂		1.71 6072	1.71 6072	1.71 6072			0.85 6072	0.85 6072	0.85 6072			0.43 6072	0.43 6072	0.43 6072	0.43 6072					
1252.516	P ₁ M ₂		1.50 5975	1.50 5975	1.50 5975			0.75 5975	0.75 5975	0.75 5975			0.37 5975	0.37 5975	0.37 5975	0.37 5975					
1411.286	P ₁ M ₂		1.35 6072	1.35 6072	1.35 6072			0.68 6072	0.68 6072	0.68 6072			0.34 6072	0.34 6072	0.34 6072	0.34 6072					

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

Gearboxes with mounting flange for IEC standard motors

M_{2perm} ≤ 11790 Nm

GKS 14 - 3 N

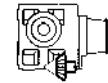
Dimensions page 5-102

n ₁		2800 min ⁻¹			1400 min ⁻¹			700 min ⁻¹		
IEC connection		100/112/132	160/180 132	200/225	100/112/132	160/180 132	200/225	100/112/132	160/180 132	200/225
For the geometrical assignment servo/DC motors see chapter 2										
Drive size		□G	□H	□K	□G	□H	□K	□G	□H	□K
i	P _{1perm} [kW] M _{2perm} [Nm]									
12.435	P ₁ M ₂		93.8 3777			57.7 4651			31.0 4994	
13.525	P ₁ M ₂		93.8 4108			57.7 5058			31.0 5432	
16.646	P ₁ M ₂		80.4 4334	89.0 4797		49.5 5336	54.8 5906		27.4 5906	27.4 5906
18.311	P ₁ M ₂		80.4 4767	83.9 4978		49.5 5870	51.7 6130		25.8 6130	25.8 6130
20.065	P ₁ M ₂			93.8 6095			57.7 7505		31.0 8059	
22.609	P ₁ M ₂			93.8 6868			57.7 8456		31.0 9073	
24.696	P ₁ M ₂		80.4 6430	89.0 7117		49.5 7917	54.8 8763		27.4 8763	27.4 8763
27.165	P ₁ M ₂		80.4 7073	83.9 7386		49.5 8709	51.7 9094		25.8 9094	25.8 9094
30.609	P ₁ M ₂		80.4 7969	83.0 8229		49.5 9812	51.1 10132		25.5 10132	25.5 10132
34.692	P ₁ M ₂		72.1 8099	72.1 8099		44.4 9973	44.4 9973		22.2 9973	22.2 9973
39.089	P ₁ M ₂		70.2 8883	70.2 8883		43.2 10937	43.2 10937		21.6 10937	21.6 10937
42.531	P ₁ M ₂		71.9 9908	71.9 9908		39.0 10737	39.0 10737		19.5 10737	19.5 10737
47.923	P ₁ M ₂		66.9 10391	66.9 10391		36.3 11261	36.3 11261		18.1 11261	18.1 11261
56.251	P ₁ M ₂	32.5 5916	58.3 10632	58.3 10632	17.6 6412	31.6 11522	31.6 11522	10.8 7860	15.8 11522	15.8 11522
63.382	P ₁ M ₂	32.5 6666	51.6 10591	51.6 10591	17.6 7224	28.0 11477	28.0 11477	10.8 8856	14.0 11477	14.0 11477
68.942	P ₁ M ₂	32.5 7251	47.3 10569		17.6 7858	25.6 11454		9.26 8271	12.8 11454	
77.681	P ₁ M ₂	32.5 8170	42.2 10630		17.6 8854	22.9 11520		9.26 9319	11.4 11520	
90.551	P ₁ M ₂	26.8 7863	36.1 10601		14.5 8521	19.6 11488		7.26 8521	9.79 11488	
102.029	P ₁ M ₂	26.8 8860	32.5 10740		14.5 9601	17.6 11639		7.26 9601	8.80 11639	
109.896	P ₁ M ₂	22.4 7973	30.6 10879		12.1 8640	16.6 11790		6.07 8640	8.28 11790	
123.826	P ₁ M ₂	24.3 9735	29.0 11639		12.1 9735	14.5 11639		6.07 9735	7.25 11639	
138.913	P ₁ M ₂	19.5 8765			9.74 8765			4.87 8765		
156.522	P ₁ M ₂	19.5 9876			9.74 9876			4.87 9876		

Thermal limit rating not considered (see page 2-7)

Selection tables – (Helical)-bevel gearboxes

Gearboxes with mounting flange for IEC standard motors



M_{2perm} ≤ 11790 Nm

GKS 14 - 3 N									Dimensions page 5-102		
n ₁		2800 min ⁻¹			1400 min ⁻¹			700 min ⁻¹			
IEC connection		100/112/132	160/180 132	200/225	100/112/132	160/180 132	200/225	100/112/132	160/180 132	200/225	
For the geometrical assignment servo/DC motors see chapter 2											
Drive size		□G	□H	□K	□G	□H	□K	□G	□H	□K	
i	P _{1perm} [kW] M _{2perm} [Nm]										
186.572	P ₁ M ₂	19.2 11609	19.2 11609		9.60 11609	9.60 11609		4.80 11609	4.80 11609		
210.222	P ₁ M ₂	17.0 11555	17.0 11555		8.48 11555	8.48 11555		4.24 11555	4.24 11555		
226.431	P ₁ M ₂	15.8 11609	15.8 11609		7.91 11609	7.91 11609		3.96 11609	3.96 11609		
255.133	P ₁ M ₂	14.0 11555	14.0 11555		6.99 11555	6.99 11555		3.50 11555	3.50 11555		
286.219	P ₁ M ₂	12.5 11609			6.26 11609			3.13 11609			
322.500	P ₁ M ₂	11.1 11555			5.53 11555			2.77 11555			

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

Gearboxes with mounting flange for IEC standard motors

M_{2perm} ≤ 11639 Nm

GKS 14 - 4 N

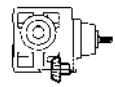
Dimensions page 5-106

n ₁		2800 min ⁻¹					1400 min ⁻¹					700 min ⁻¹				
IEC connection		80/90 80/90	100/112 90	100/112 100/112	132 132	160/180 132	80/90 80/90	100/112 90	100/112 100/112	132 132	160/180 132	80/90 80/90	100/112 90	100/112 100/112	132 132	160/180 132
For the geometrical assignment servo/DC motors see chapter 2																
Drive size		D	E	F	G	H	D	E	F	G	H	D	E	F	G	H
i	P _{1perm} [kW] M _{2perm} [Nm]															
97.467	P ₁ M ₂	12.2 3779	12.2 3779	29.7 9202	29.7 9202		6.60 4095	6.60 4095	16.1 9973	16.1 9973		4.40 5460	4.40 5460	8.03 9973	8.03 9973	
109.822	P ₁ M ₂	12.2 4258	12.2 4258	28.9 10093	28.9 10093		6.60 4614	6.60 4614	15.6 10937	15.6 10937		4.40 6153	4.40 6153	7.82 10937	7.82 10937	
119.493	P ₁ M ₂	13.2 5021	13.2 5021	28.2 10737	28.2 10737		6.60 5021	6.60 5021	14.1 10737	14.1 10737		4.40 6694	4.40 6694	7.05 10737	7.05 10737	
134.640	P ₁ M ₂	13.2 5657	13.2 5657	26.3 11261	26.3 11261		6.60 5657	6.60 5657	13.1 11261	13.1 11261		4.40 7543	4.40 7543	6.57 11261	6.57 11261	
158.039	P ₁ M ₂	13.2 6640	13.2 6640	22.9 11522	22.9 11522		6.60 6640	6.60 6640	11.5 11522	11.5 11522		4.40 8854	4.40 8854	5.72 11522	5.72 11522	
178.072	P ₁ M ₂	13.2 7482	13.2 7482	20.2 11477	20.2 11477		6.60 7482	6.60 7482	10.1 11477	10.1 11477		4.40 9976	4.40 9976	5.06 11477	5.06 11477	
193.754	P ₁ M ₂	13.2 8141	18.7 11522	18.7 11522			6.60 8141	9.34 11522	9.34 11522			4.40 10855	4.67 11522	4.67 11522		
218.315	P ₁ M ₂	13.2 9173	16.5 11477	16.5 11477			6.60 9173	8.25 11477	8.25 11477			4.13 11477	4.13 11477	4.13 11477		
237.467	P ₁ M ₂	13.2 9978	15.2 11454	15.2 11454			6.60 9978	7.57 11454	7.57 11454			3.79 11454	3.79 11454	3.79 11454		
267.568	P ₁ M ₂	13.2 11242	13.5 11520	13.5 11520			6.60 11242	6.76 11520	6.76 11520			3.38 11520	3.38 11520	3.38 11520		
321.729	P ₁ M ₂	11.2 11454	11.2 11454	11.2 11454			5.59 11454	5.59 11454	5.59 11454			2.80 11454	2.80 11454	2.80 11454		
362.512	P ₁ M ₂	9.98 11520	9.98 11520	9.98 11520			4.99 11520	4.99 11520	4.99 11520			2.50 11520	2.50 11520	2.50 11520		
390.672	P ₁ M ₂	9.21 11454	9.21 11454	9.21 11454			4.60 11454	4.60 11454	4.60 11454			2.30 11454	2.30 11454	2.30 11454		
440.193	P ₁ M ₂	8.22 11520	8.22 11520	8.22 11520			4.11 11520	4.11 11520	4.11 11520			2.05 11520	2.05 11520	2.05 11520		
513.121	P ₁ M ₂	7.03 11488	7.03 11488	7.03 11488			3.52 11488	3.52 11488	3.52 11488			1.76 11488	1.76 11488	1.76 11488		
578.164	P ₁ M ₂	6.32 11639	6.32 11639	6.32 11639			3.16 11639	3.16 11639	3.16 11639			1.58 11639	1.58 11639	1.58 11639		
622.742	P ₁ M ₂	5.79 11488	5.79 11488	5.79 11488			2.90 11488	2.90 11488	2.90 11488			1.45 11488	1.45 11488	1.45 11488		
701.681	P ₁ M ₂	5.21 11639	5.21 11639	5.21 11639			2.60 11639	2.60 11639	2.60 11639			1.30 11639	1.30 11639	1.30 11639		
805.901	P ₁ M ₂	4.48 11488	4.48 11488	4.48 11488			2.24 11488	2.24 11488	2.24 11488			1.12 11488	1.12 11488	1.12 11488		
908.058	P ₁ M ₂	4.03 11639	4.03 11639	4.03 11639			2.01 11639	2.01 11639	2.01 11639			1.01 11639	1.01 11639	1.01 11639		
978.071	P ₁ M ₂	3.69 11488	3.69 11488	3.69 11488			1.84 11488	1.84 11488	1.84 11488			0.92 11488	0.92 11488	0.92 11488		
1102.052	P ₁ M ₂	3.32 11639	3.32 11639	3.32 11639			1.66 11639	1.66 11639	1.66 11639			0.83 11639	0.83 11639	0.83 11639		
1236.326	P ₁ M ₂	2.92 11488	2.92 11488				1.46 11488	1.46 11488				0.73 11488	0.73 11488			
1393.043	P ₁ M ₂	2.62 11639	2.62 11639				1.31 11639	1.31 11639				0.66 11639	0.66 11639			

Thermal limit rating not considered (see page 2-7)

Selection tables – (Helical)-bevel gearboxes

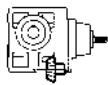
Gearboxes with free input shaft



M_{2perm} ≤ 190 Nm

GKS 04 - 3 W									Dimensions page 5-110		
n₁		2800 min ⁻¹			1400 min ⁻¹			700 min ⁻¹			
Drive size		1A	1B	1C	1A	1B	1C	1A	1B	1C	
i	P _{1perm} [kW] M _{2perm} [Nm]										
5.123	P ₁ M ₂		2.36 39	3.88 64		1.45 48	2.39 79		0.73 48	1.20 79	
7.026	P ₁ M ₂		2.36 54	3.30 75		1.45 66	2.03 93		0.73 66	1.02 93	
8.167	P ₁ M ₂		2.36 62	3.88 103		1.45 77	2.39 126		0.73 77	1.20 126	
8.991	P ₁ M ₂		2.71 79	2.87 84		1.67 97	1.77 103		0.83 97	0.88 103	
9.836	P ₁ M ₂		2.68 85	2.71 86		1.65 105	1.67 106		0.83 105	0.83 106	
11.730	P ₁ M ₂		2.36 90	3.85 146		1.45 110	2.37 180		0.73 110	1.18 180	
13.067	P ₁ M ₂		2.36 100	3.17 134		1.45 123	1.95 165		0.73 123	0.97 165	
14.333	P ₁ M ₂		2.71 126	2.87 133		1.67 155	1.77 164		0.83 155	0.88 164	
16.087	P ₁ M ₂		2.36 123	2.82 147		1.45 151	1.74 181		0.73 151	0.87 181	
17.920	P ₁ M ₂		2.32 135	2.32 135		1.43 166	1.43 166		0.72 166	0.72 166	
20.588	P ₁ M ₂		2.22 148	2.22 148		1.36 182	1.36 182		0.68 182	0.68 182	
22.522	P ₁ M ₂		2.03 148	2.03 148		1.25 182	1.25 182		0.62 182	0.62 182	
25.088	P ₁ M ₂		1.67 136	1.67 136		1.03 167	1.03 167		0.51 167	0.51 167	
28.727	P ₁ M ₂		1.60 149	1.60 149		0.98 183	0.98 183		0.49 183	0.49 183	
32.000	P ₁ M ₂		1.31 136	1.31 136		0.81 167	0.81 167		0.40 167	0.40 167	
35.191	P ₁ M ₂		1.30 149	1.30 149		0.80 183	0.80 183		0.40 183	0.40 183	
39.200	P ₁ M ₂		1.07 136	1.07 136		0.66 168	0.66 168		0.33 168	0.33 168	
44.240	P ₁ M ₂	1.05 150	1.05 150	1.05 150	0.65 185	0.65 185	0.65 185	0.32 185	0.32 185	0.32 185	
50.943	P ₁ M ₂		0.90 148	0.90 148		0.55 182	0.55 182		0.28 182	0.28 182	
56.976	P ₁ M ₂	0.82 152	0.82 152	0.82 152	0.51 187	0.51 187	0.51 187	0.25 187	0.25 187	0.25 187	
64.978	P ₁ M ₂		0.71 149	0.71 149		0.44 183	0.44 183		0.22 183	0.22 183	
72.210	P ₁ M ₂	0.66 154	0.66 154		0.41 190	0.41 190		0.20 190	0.20 190		
79.599	P ₁ M ₂		0.58 149	0.58 149		0.36 183	0.36 183		0.18 183	0.18 183	
90.491	P ₁ M ₂	0.53 154	0.53 154		0.32 190	0.32 190		0.16 190	0.16 190		
100.067	P ₁ M ₂	0.46 150	0.46 150	0.46 150	0.29 185	0.29 185	0.29 185	0.14 185	0.14 185	0.14 185	
111.467	P ₁ M ₂	0.38 138	0.38 138	0.38 138	0.24 170	0.24 170	0.24 170	0.12 170	0.12 170	0.12 170	

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

Gearboxes with free input shaft

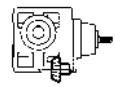
$M_{2\text{perm}} \leq 190 \text{ Nm}$

GKS 04 - 3 W										Dimensions page 5-110		
n ₁		2800 min ⁻¹			1400 min ⁻¹			700 min ⁻¹				
Drive size		1A	1B	1C	1A	1B	1C	1A	1B	1C		
i	P _{1perm} [kW] M _{2perm} [Nm]											
128.874	P ₁ M ₂	0.36 152	0.36 152	0.36 152	0.22 187	0.22 187	0.22 187	0.11 187	0.11 187	0.11 187		
143.556	P ₁ M ₂	0.30 140	0.30 140	0.30 140	0.19 172	0.19 172	0.19 172	0.09 172	0.09 172	0.09 172		
163.332	P ₁ M ₂	0.29 154	0.29 154		0.18 190	0.18 190		0.09 190	0.09 190			
181.939	P ₁ M ₂	0.24 141	0.24 141		0.15 174	0.15 174		0.07 174	0.07 174			
204.682	P ₁ M ₂	0.23 154	0.23 154		0.14 190	0.14 190		0.07 190	0.07 190			
228.000	P ₁ M ₂	0.20 144	0.20 144		0.12 177	0.12 177		0.06 177	0.06 177			
269.660	P ₁ M ₂	0.18 154			0.11 190			0.05 190				
300.381	P ₁ M ₂	0.15 145			0.09 178			0.05 178				

Thermal limit rating not considered (see page 2-7)

Selection tables – (Helical)-bevel gearboxes

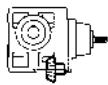
Gearboxes with free input shaft



M_{2perm} ≤ 331 Nm

GKS 05 - 3 W									Dimensions page 5-110		
n₁		2800 min ⁻¹			1400 min ⁻¹			700 min ⁻¹			
Drive size		1B	1C	1D	1B	1C	1D	1B	1C	1D	
i	P _{1perm} [kW] M _{2perm} [Nm]										
6.863	P ₁ M ₂			5.39 120			3.32 147			1.66 147	
9.412	P ₁ M ₂			4.39 134			2.70 165			1.35 165	
10.569	P ₁ M ₂			5.39 184			3.32 227			1.66 227	
11.667	P ₁ M ₂			5.39 204			3.32 251			1.66 251	
13.177	P ₁ M ₂	2.36 101	3.15 134	3.15 134	1.45 124	1.94 165	1.94 165	0.73 124	0.97 165	0.97 165	
14.494	P ₁ M ₂			4.39 206			2.70 254			1.35 254	
16.000	P ₁ M ₂			4.39 227			2.70 280			1.35 280	
17.054	P ₁ M ₂			4.61 255			2.84 313			1.42 313	
19.216	P ₁ M ₂			3.88 241			2.39 297			1.19 297	
23.388	P ₁ M ₂			3.53 267			2.17 329			1.09 329	
26.353	P ₁ M ₂			2.84 242			1.75 298			0.87 298	
29.931	P ₁ M ₂		2.76 268	2.76 268		1.70 330	1.70 330		0.85 330	0.85 330	
32.744	P ₁ M ₂	2.36 250	2.53 269	2.53 269	1.45 308	1.56 331	1.56 331	0.73 308	0.78 331	0.78 331	
36.894	P ₁ M ₂	2.05 245	2.05 245	2.05 245	1.26 302	1.26 302	1.26 302	0.63 302	0.63 302	0.63 302	
41.765	P ₁ M ₂	1.99 269	1.99 269	1.99 269	1.22 331	1.22 331	1.22 331	0.61 331	0.61 331	0.61 331	
47.059	P ₁ M ₂	1.62 247	1.62 247	1.62 247	1.00 304	1.00 304	1.00 304	0.50 304	0.50 304	0.50 304	
51.162	P ₁ M ₂		1.62 269	1.62 269		1.00 331	1.00 331		0.50 331	0.50 331	
57.647	P ₁ M ₂		1.34 249	1.34 249		0.82 307	0.82 307		0.41 307	0.41 307	
66.592	P ₁ M ₂	1.25 269	1.25 269	1.25 269	0.77 331	0.77 331	0.77 331	0.38 331	0.38 331	0.38 331	
75.033	P ₁ M ₂	1.04 252	1.04 252	1.04 252	0.64 310	0.64 310	0.64 310	0.32 310	0.32 310	0.32 310	
82.833	P ₁ M ₂	1.00 269	1.00 269	1.00 269	0.62 331	0.62 331	0.62 331	0.31 331	0.31 331	0.31 331	
93.333	P ₁ M ₂	0.85 256	0.85 256	0.85 256	0.52 315	0.52 315	0.52 315	0.26 315	0.26 315	0.26 315	
107.196	P ₁ M ₂	0.77 269	0.77 269		0.48 331	0.48 331		0.24 331	0.24 331		
120.784	P ₁ M ₂	0.65 256	0.65 256		0.40 315	0.40 315		0.20 315	0.20 315		
130.097	P ₁ M ₂	0.64 269	0.64 269		0.39 331	0.39 331		0.20 331	0.20 331		
146.588	P ₁ M ₂	0.54 256	0.54 256		0.33 315	0.33 315		0.17 315	0.17 315		

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

Gearboxes with free input shaft

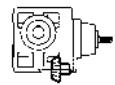
$M_{2\text{perm}} \leq 331 \text{ Nm}$

GKS 05 - 3 W									Dimensions page 5-110		
n ₁		2800 min ⁻¹			1400 min ⁻¹			700 min ⁻¹			
Drive size		1B	1C	1D	1B	1C	1D	1B	1C	1D	
i	P _{1perm} [kW] M _{2perm} [Nm]										
166.276	P ₁ M ₂	0.50 269			0.31 331			0.15 331			
187.353	P ₁ M ₂	0.42 256			0.26 315			0.13 315			
211.200	P ₁ M ₂	0.37 255	0.37 255		0.23 314	0.23 314		0.12 314	0.12 314		
227.484	P ₁ M ₂	0.31 226	0.31 226		0.19 278	0.19 278		0.09 278	0.09 278		
256.320	P ₁ M ₂	0.31 254	0.31 254		0.19 313	0.19 313		0.09 313	0.09 313		
290.745	P ₁ M ₂	0.24 225			0.15 277			0.07 277			
327.600	P ₁ M ₂	0.24 253			0.15 312			0.07 312			

Thermal limit rating not considered (see page 2-7)

Selection tables – (Helical)-bevel gearboxes

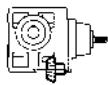
Gearboxes with free input shaft



M_{2perm} ≤ 325 Nm

GKS 05 - 4 W										Dimensions page 5-111		
n₁		2800 min ⁻¹			1400 min ⁻¹			700 min ⁻¹				
Drive size		1A	1B	1C	1A	1B	1C	1A	1B	1C		
i	P _{1perm} [kW] M _{2perm} [Nm]											
95.238	P ₁ M ₂	0.45 137	0.45 137	0.45 137	0.28 169	0.28 169	0.28 169	0.14 169	0.14 169	0.14 169		
114.987	P ₁ M ₂	0.55 203	0.55 203	0.55 203	0.34 250	0.34 250	0.34 250	0.17 250	0.17 250	0.17 250		
126.933	P ₁ M ₂	0.57 230	0.57 230	0.57 230	0.35 284	0.35 284	0.35 284	0.18 284	0.18 284	0.18 284		
146.667	P ₁ M ₂	0.44 203	0.44 203	0.44 203	0.27 250	0.27 250	0.27 250	0.13 250	0.13 250	0.13 250		
161.905	P ₁ M ₂	0.45 230	0.45 230	0.45 230	0.28 284	0.28 284	0.28 284	0.14 284	0.14 284	0.14 284		
185.547	P ₁ M ₂	0.45 264	0.45 264	0.45 264	0.28 325	0.28 325	0.28 325	0.14 325	0.14 325	0.14 325		
209.067	P ₁ M ₂	0.38 256	0.38 256	0.38 256	0.24 315	0.24 315	0.24 315	0.12 315	0.12 315	0.12 315		
225.867	P ₁ M ₂	0.28 203	0.28 203	0.28 203	0.17 250	0.17 250	0.17 250	0.09 250	0.09 250	0.09 250		
236.667	P ₁ M ₂	0.35 264	0.35 264	0.35 264	0.22 325	0.22 325	0.22 325	0.11 325	0.11 325	0.11 325		
289.917	P ₁ M ₂	0.29 264	0.29 264		0.18 325	0.18 325			0.09 325	0.09 325		
326.667	P ₁ M ₂	0.25 256	0.25 256		0.15 315	0.15 315			0.08 315	0.08 315		
364.467	P ₁ M ₂	0.23 264	0.23 264	0.23 264	0.14 325	0.14 325	0.14 325	0.07 325	0.07 325	0.07 325		
410.667	P ₁ M ₂	0.20 256	0.20 256	0.20 256	0.12 315	0.12 315	0.12 315	0.06 315	0.06 315	0.06 315		
469.389	P ₁ M ₂	0.18 264	0.18 264	0.18 264	0.11 325	0.11 325	0.11 325	0.05 325	0.05 325	0.05 325		
510.000	P ₁ M ₂	0.14 230	0.14 230		0.09 284	0.09 284			0.04 284	0.04 284		
528.889	P ₁ M ₂	0.15 256	0.15 256	0.15 256	0.09 315	0.09 315	0.09 315	0.05 315	0.05 315	0.05 315		
594.894	P ₁ M ₂	0.14 264	0.14 264		0.09 325	0.09 325			0.04 325	0.04 325		
670.303	P ₁ M ₂	0.12 256	0.12 256		0.07 315	0.07 315			0.04 315	0.04 315		
820.760	P ₁ M ₂	0.10 264	0.10 264	0.10 264	0.06 325	0.06 325	0.06 325	0.03 325	0.03 325	0.03 325		
924.800	P ₁ M ₂	0.09 256	0.09 256	0.09 256	0.05 315	0.05 315	0.05 315	0.03 315	0.03 315	0.03 315		
1040.215	P ₁ M ₂	0.08 264	0.08 264		0.05 325	0.05 325			0.03 325	0.03 325		
1172.073	P ₁ M ₂	0.07 256	0.07 256		0.04 315	0.04 315			0.02 315	0.02 315		
1303.560	P ₁ M ₂	0.06 264	0.06 264		0.04 325	0.04 325			0.02 325	0.02 325		
1468.800	P ₁ M ₂	0.06 256	0.06 256		0.03 315	0.03 315			0.02 315	0.02 315		
1717.389	P ₁ M ₂	0.05 264			0.03 325				0.02 325			
1935.086	P ₁ M ₂	0.04 256			0.03 315				0.01 315			

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

Gearboxes with free input shaft

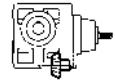
M_{2perm} ≤ 702 Nm

GKS 06 - 3 W										Dimensions page 5-110				
n ₁		2800 min ⁻¹				1400 min ⁻¹				700 min ⁻¹				
Drive size		1C	1D	1E	1F	1C	1D	1E	1F	1C	1D	1E	1F	
i	P _{1perm} [kW] M _{2perm} [Nm]													
6.485	P ₁ M ₂		10.2 214	10.2 214			6.26 263	6.26 263			3.13 263	3.13 263		
9.196	P ₁ M ₂		10.2 303	10.2 303			6.26 373	6.26 373			3.13 373	3.13 373		
10.147	P ₁ M ₂		10.2 334	10.2 334			6.26 412	6.26 412			3.13 412	3.13 412		
11.382	P ₁ M ₂	7.30 269	7.30 269	7.30 269		4.49 331	4.49 331	4.49 331		2.25 331	2.25 331	2.25 331		
12.612	P ₁ M ₂		8.47 346	8.47 346			5.21 426	5.21 426			2.61 426	2.61 426		
14.824	P ₁ M ₂		10.2 488	10.2 488			6.25 600	6.25 600			3.13 600	3.13 600		
16.699	P ₁ M ₂		9.07 491	9.07 491			5.58 604	5.58 604			2.79 604	2.79 604		
17.809	P ₁ M ₂	7.30 421	7.30 421	7.30 421		4.49 518	4.49 518	4.49 518		2.25 518	2.25 518	2.25 518		
20.329	P ₁ M ₂		8.20 540	8.20 540			5.05 665	5.05 665			2.53 665	2.53 665		
22.902	P ₁ M ₂		6.63 492	6.63 492			4.08 606	4.08 606			2.04 606	2.04 606		
26.017	P ₁ M ₂	6.54 551	6.54 551	6.54 551		4.03 679	4.03 679	4.03 679		2.01 679	2.01 679	2.01 679		
28.461	P ₁ M ₂		6.01 554	6.01 554	6.01 554		3.70 682	3.70 682	3.70 682		1.85 682	1.85 682	1.85 682	
32.063	P ₁ M ₂		4.77 495	4.77 495	4.77 495		2.94 610	2.94 610	2.94 610		1.47 610	1.47 610	1.47 610	
36.303	P ₁ M ₂	4.01 471	4.73 556	4.73 556	4.73 556	2.47 580	2.91 685	2.91 685	2.91 685	1.23 580	1.46 685	1.46 685	1.46 685	
41.472	P ₁ M ₂			4.17 560	4.17 560			2.56 689	2.56 689			1.28 689	1.28 689	
44.471	P ₁ M ₂			3.88 560	3.88 560			2.39 689	2.39 689	2.39 689		1.20 689	1.20 689	1.20 689
53.074	P ₁ M ₂			3.28 564	3.28 564	3.28 564		2.02 695	2.02 695	2.02 695		1.01 695	1.01 695	1.01 695
57.882	P ₁ M ₂		2.77 519	3.01 564	3.01 564		1.71 639	1.85 695	1.85 695		0.85 639	0.93 695	0.93 695	
65.207	P ₁ M ₂		2.40 507	2.40 507	2.40 507		1.48 624	1.48 624	1.48 624		0.74 624	0.74 624	0.74 624	
72.000	P ₁ M ₂		2.32 540	2.44 570	2.44 570		1.43 665	1.51 702	1.51 702		0.71 665	0.75 702	0.75 702	
81.111	P ₁ M ₂		1.95 512	1.95 512	1.95 512		1.20 630	1.20 630	1.20 630		0.60 630	0.60 630	0.60 630	
93.177	P ₁ M ₂		1.79 540	1.89 570			1.10 664	1.16 702			0.55 664	0.58 702		
104.967	P ₁ M ₂		1.52 516	1.52 516			0.93 635	0.93 635			0.47 635	0.47 635		
113.082	P ₁ M ₂		1.55 568	1.56 570			0.96 700	0.96 702			0.48 700	0.48 702		
127.392	P ₁ M ₂		1.25 516	1.25 516			0.77 635	0.77 635			0.39 635	0.39 635		
142.941	P ₁ M ₂		1.23 570				0.76 702				0.38 702			

Thermal limit rating not considered (see page 2-7)

Selection tables – (Helical)-bevel gearboxes

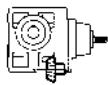
Gearboxes with free input shaft



M_{2perm} ≤ 702 Nm

GKS 06 - 3 W										Dimensions page 5-110			
n ₁		2800 min ⁻¹				1400 min ⁻¹				700 min ⁻¹			
Drive size		1C	1D	1E	1F	1C	1D	1E	1F	1C	1D	1E	1F
i	P _{1perm} [kW] M _{2perm} [Nm]												
161.029	P ₁ M ₂	0.99 516				0.61 635				0.30 635			
190.080	P ₁ M ₂	0.93 570	0.93 570			0.57 702	0.57 702			0.29 702	0.29 702		
214.133	P ₁ M ₂	0.74 516	0.74 516			0.46 635	0.46 635			0.23 635	0.23 635		
230.688	P ₁ M ₂	0.76 570	0.76 570			0.47 702	0.47 702			0.24 702	0.24 702		
259.880	P ₁ M ₂	0.61 516	0.61 516			0.38 635	0.38 635			0.19 635	0.19 635		
291.600	P ₁ M ₂	0.60 570				0.37 702				0.19 702			
328.500	P ₁ M ₂	0.49 516				0.30 635				0.15 635			

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

Gearboxes with free input shaft

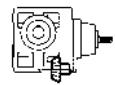
M_{2perm} ≤ 702 Nm

GKS 06 - 4 W										Dimensions page 5-111		
n ₁		2800 min ⁻¹			1400 min ⁻¹			700 min ⁻¹				
Drive size		1A	1B	1C	1A	1B	1C	1A	1B	1C		
i	P _{1perm} [kW] M _{2perm} [Nm]											
103.721	P ₁ M ₂	0.96 317	1.68 556	1.68 556	0.59 390	1.04 685	1.04 685	0.30 390	0.52 685	0.52 685		
113.205	P ₁ M ₂	0.96 346	1.21 436	1.21 436	0.59 425	0.75 537	0.75 537	0.30 425	0.37 537	0.37 537		
127.059	P ₁ M ₂	0.96 388	1.38 560	1.38 560	0.59 478	0.85 689	0.85 689	0.30 478	0.43 689	0.43 689		
140.816	P ₁ M ₂	0.96 430	0.97 436	0.97 436	0.59 529	0.60 537	0.60 537	0.30 529	0.30 537	0.30 537		
155.647	P ₁ M ₂		1.13 560	1.13 560		0.70 689	0.70 689		0.35 689	0.35 689		
174.336	P ₁ M ₂	0.79 436	0.79 436	0.79 436	0.48 537	0.48 537	0.48 537	0.24 537	0.24 537	0.24 537		
202.588	P ₁ M ₂		0.88 564	0.88 564		0.54 695	0.54 695		0.27 695	0.27 695		
224.524	P ₁ M ₂	0.61 436	0.61 436	0.61 436	0.38 537	0.38 537	0.38 537	0.19 537	0.19 537	0.19 537		
252.000	P ₁ M ₂		0.71 570	0.71 570		0.44 702	0.44 702		0.22 702	0.22 702		
279.286	P ₁ M ₂	0.49 436	0.49 436	0.49 436	0.30 537	0.30 537	0.30 537	0.15 537	0.15 537	0.15 537		
316.800	P ₁ M ₂	0.57 570	0.57 570	0.57 570	0.35 702	0.35 702	0.35 702	0.17 702	0.17 702	0.17 702		
361.429	P ₁ M ₂	0.38 436	0.38 436	0.38 436	0.23 537	0.23 537	0.23 537	0.12 537	0.12 537	0.12 537		
408.000	P ₁ M ₂	0.44 570	0.44 570	0.44 570	0.27 702	0.27 702	0.27 702	0.14 702	0.14 702	0.14 702		
458.067	P ₁ M ₂	0.30 436	0.30 436		0.18 537	0.18 537		0.09 537	0.09 537	0.09 537		
517.091	P ₁ M ₂	0.35 570	0.35 570		0.21 702	0.21 702		0.11 702	0.11 702	0.11 702		
555.927	P ₁ M ₂	0.25 436	0.25 436		0.15 537	0.15 537		0.08 537	0.08 537	0.08 537		
640.800	P ₁ M ₂	0.28 570	0.28 570	0.28 570	0.17 702	0.17 702	0.17 702	0.09 702	0.09 702	0.09 702		
696.668	P ₁ M ₂	0.20 436	0.20 436		0.12 537	0.12 537		0.06 537	0.06 537	0.06 537		
812.137	P ₁ M ₂	0.22 570	0.22 570		0.14 702	0.14 702		0.07 702	0.07 702	0.07 702		
914.907	P ₁ M ₂	0.18 516	0.18 516		0.11 635	0.11 635		0.05 635	0.05 635	0.05 635		
1017.741	P ₁ M ₂	0.18 570	0.18 570		0.11 702	0.11 702		0.05 702	0.05 702	0.05 702		
1146.529	P ₁ M ₂	0.14 516	0.14 516		0.09 635	0.09 635		0.04 635	0.04 635	0.04 635		
1340.834	P ₁ M ₂	0.13 570			0.08 702			0.04 702				
1510.507	P ₁ M ₂	0.11 516			0.07 635			0.03 635				

Thermal limit rating not considered (see page 2-7)

Selection tables – (Helical)-bevel gearboxes

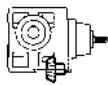
Gearboxes with free input shaft



M_{2perm} ≤ 1330 Nm

GKS 07 - 3 W										Dimensions page 5-110				
n ₁		2800 min ⁻¹				1400 min ⁻¹				700 min ⁻¹				
Drive size		1D	1E	1F	1G	1D	1E	1F	1G	1D	1E	1F	1G	
i	P _{1perm} [kW] M _{2perm} [Nm]													
5.955	P ₁ M ₂		19.8 382	19.8 382			12.2 470	12.2 470			6.10 470	6.10 470		
8.254	P ₁ M ₂		16.4 439	16.4 439			10.1 540	10.1 540			5.05 540	5.05 540		
9.171	P ₁ M ₂		19.8 588	19.8 588			12.2 725	12.2 725			6.10 725	6.10 725		
10.124	P ₁ M ₂		19.8 650	19.8 650			12.2 800	12.2 800			6.10 800	6.10 800		
11.378	P ₁ M ₂	13.5 498	13.5 498	13.5 498		8.32 613	8.32 613	8.32 613		4.16 613	4.16 613	4.16 613		
12.711	P ₁ M ₂		16.4 676	16.4 676			10.1 832	10.1 832			5.05 832	5.05 832		
14.799	P ₁ M ₂		17.6 845	17.6 845			10.9 1040	10.9 1040			5.42 1040	5.42 1040		
16.674	P ₁ M ₂		16.1 870	16.1 870			9.91 1071	9.91 1071			4.96 1071	4.96 1071		
17.270	P ₁ M ₂	14.5 811	14.5 811	14.5 811		8.92 998	8.92 998	8.92 998		4.46 998	4.46 998	4.46 998		
20.511	P ₁ M ₂		13.6 902	13.6 902			8.35 1110	8.35 1110			4.18 1110	4.18 1110		
23.111	P ₁ M ₂		12.7 949	12.7 949			7.80 1168	7.80 1168			3.90 1168	3.90 1168		
25.244	P ₁ M ₂	11.7 956	11.7 956	11.7 956		7.20 1177	7.20 1177	7.20 1177		3.60 1177	3.60 1177	3.60 1177		
28.274	P ₁ M ₂	10.7 976	10.7 976	10.7 976		6.56 1202	6.56 1202	6.56 1202		3.28 1202	3.28 1202	3.28 1202		
31.858	P ₁ M ₂	9.22 952	9.22 952	9.22 952		5.68 1172	5.68 1172	5.68 1172		2.84 1172	2.84 1172	2.84 1172		
36.064	P ₁ M ₂	7.37 861	8.97 1048	8.97 1048	8.97 1048	4.54 1061	5.52 1290	5.52 1290	5.52 1290	2.27 1061	2.76 1290	2.76 1290	2.76 1290	
40.906	P ₁ M ₂		7.91 1048	7.91 1048			4.87 1290	4.87 1290			2.43 1290	2.43 1290		
44.178	P ₁ M ₂		7.38 1056	7.38 1056	7.38 1056		4.54 1300	4.54 1300	4.54 1300		2.27 1300	2.27 1300	2.27 1300	
50.346	P ₁ M ₂		6.47 1056	6.47 1056	6.47 1056		3.99 1300	3.99 1300	3.99 1300		1.99 1300	1.99 1300	1.99 1300	
57.501	P ₁ M ₂	5.17 963	5.71 1064	5.71 1064		3.18 1186	3.52 1310	3.52 1310		1.59 1186	1.76 1310	1.76 1310		
64.790	P ₁ M ₂	4.62 971	4.62 971	4.62 971		2.85 1195	2.85 1195	2.85 1195		1.42 1195	1.42 1195	1.42 1195		
70.474	P ₁ M ₂	4.46 1017	4.70 1072	4.70 1072		2.74 1252	2.89 1320	2.89 1320		1.37 1252	1.45 1320	1.45 1320		
79.407	P ₁ M ₂	3.80 979	3.80 979	3.80 979		2.34 1205	2.34 1205	2.34 1205		1.17 1205	1.17 1205	1.17 1205		
92.563	P ₁ M ₂	3.51 1052	3.60 1080			2.16 1295	2.22 1330			1.08 1295	1.11 1330			
104.296	P ₁ M ₂	2.92 987	2.92 987			1.80 1215	1.80 1215			0.90 1215	0.90 1215			
112.338	P ₁ M ₂	2.94 1068	2.97 1080			1.81 1315	1.83 1330			0.90 1315	0.91 1330			
126.578	P ₁ M ₂	2.41 987	2.41 987			1.48 1215	1.48 1215			0.74 1215	0.74 1215			

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

Gearboxes with free input shaft

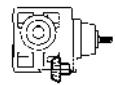
M_{2perm} ≤ 1330 Nm

GKS 07 - 3 W										Dimensions page 5-110			
n ₁		2800 min ⁻¹				1400 min ⁻¹				700 min ⁻¹			
Drive size		1D	1E	1F	1G	1D	1E	1F	1G	1D	1E	1F	1G
i	P _{1perm} [kW] M _{2perm} [Nm]												
140.548	P ₁ M ₂	2.37 1080	2.37 1080	2.37 1080		1.46 1330	1.46 1330	1.46 1330		0.73 1330	0.73 1330	0.73 1330	
158.364	P ₁ M ₂	1.92 987	1.92 987	1.92 987		1.18 1215	1.18 1215	1.18 1215		0.59 1215	0.59 1215	0.59 1215	
184.600	P ₁ M ₂	1.81 1080	1.81 1080			1.11 1330	1.11 1330			0.56 1330	0.56 1330		
208.000	P ₁ M ₂	1.46 987	1.46 987			0.90 1215	0.90 1215			0.45 1215	0.45 1215		
224.037	P ₁ M ₂	1.49 1080	1.49 1080			0.92 1330	0.92 1330			0.46 1330	0.46 1330		
252.436	P ₁ M ₂	1.21 987	1.21 987			0.74 1215	0.74 1215			0.37 1215	0.37 1215		
283.193	P ₁ M ₂	1.18 1080				0.73 1330				0.36 1330			
319.091	P ₁ M ₂	0.96 987				0.59 1215				0.29 1215			

Thermal limit rating not considered (see page 2-7)

Selection tables – (Helical)-bevel gearboxes

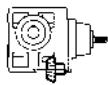
Gearboxes with free input shaft



M_{2perm} ≤ 1330 Nm

GKS 07 - 4 W										Dimensions page 5-111		
n₁		2800 min ⁻¹			1400 min ⁻¹			700 min ⁻¹				
Drive size		1B	1C	1D	1B	1C	1D	1B	1C	1D		
i	P _{1perm} [kW] M _{2perm} [Nm]											
103.039	P ₁ M ₂	2.31 758	3.19 1048	3.19 1048	1.42 933	1.97 1290	1.97 1290	0.71 933	0.98 1290	0.98 1290		
112.391	P ₁ M ₂	2.31 827	2.39 855	2.39 855	1.42 1018	1.47 1053	1.47 1053	0.71 1018	0.74 1053	0.74 1053		
126.222	P ₁ M ₂	2.31 928	2.63 1056	2.63 1056	1.42 1143	1.62 1300	1.62 1300	0.71 1143	0.81 1300	0.81 1300		
137.748	P ₁ M ₂	1.95 855	1.95 855	1.95 855	1.20 1053	1.20 1053	1.20 1053	0.60 1053	0.60 1053	0.60 1053		
154.622	P ₁ M ₂		2.14 1056	2.14 1056		1.32 1300	1.32 1300		0.66 1300	0.66 1300		
179.201	P ₁ M ₂	1.50 855	1.50 855	1.50 855	0.92 1053	0.92 1053	0.92 1053	0.46 1053	0.46 1053	0.46 1053		
201.254	P ₁ M ₂		1.66 1064	1.66 1064		1.02 1310	1.02 1310		0.51 1310	0.51 1310		
222.909	P ₁ M ₂	1.21 855	1.21 855	1.21 855	0.74 1053	0.74 1053	0.74 1053	0.37 1053	0.37 1053	0.37 1053		
246.659	P ₁ M ₂		1.37 1072	1.37 1072		0.84 1320	0.84 1320		0.42 1320	0.42 1320		
273.199	P ₁ M ₂	0.98 855	0.98 855	0.98 855	0.61 1053	0.61 1053	0.61 1053	0.30 1053	0.30 1053	0.30 1053		
321.049	P ₁ M ₂	1.05 1072	1.05 1072	1.05 1072	0.65 1320	0.65 1320	0.65 1320	0.32 1320	0.32 1320	0.32 1320		
358.829	P ₁ M ₂	0.75 855	0.75 855	0.75 855	0.46 1053	0.46 1053	0.46 1053	0.23 1053	0.23 1053	0.23 1053		
399.353	P ₁ M ₂	0.84 1072	0.84 1072	0.84 1072	0.52 1320	0.52 1320	0.52 1320	0.26 1320	0.26 1320	0.26 1320		
464.367	P ₁ M ₂	0.58 855	0.58 855		0.36 1053	0.36 1053		0.18 1053	0.18 1053			
516.810	P ₁ M ₂	0.65 1072	0.65 1072		0.40 1320	0.40 1320		0.20 1320	0.20 1320			
563.573	P ₁ M ₂	0.48 855	0.48 855		0.29 1053	0.29 1053		0.15 1053	0.15 1053			
636.581	P ₁ M ₂	0.53 1080	0.53 1080	0.53 1080	0.33 1330	0.33 1330	0.33 1330	0.16 1330	0.16 1330	0.16 1330		
683.972	P ₁ M ₂	0.39 855	0.39 855		0.24 1053	0.24 1053		0.12 1053	0.12 1053			
823.810	P ₁ M ₂	0.41 1080	0.41 1080		0.25 1330	0.25 1330		0.13 1330	0.13 1330			
928.237	P ₁ M ₂	0.33 987	0.33 987		0.21 1215	0.21 1215		0.10 1215	0.10 1215			
999.806	P ₁ M ₂	0.34 1080	0.34 1080		0.21 1330	0.21 1330		0.10 1330	0.10 1330			
1126.542	P ₁ M ₂	0.28 987	0.28 987		0.17 1215	0.17 1215		0.09 1215	0.09 1215			
1277.842	P ₁ M ₂	0.27 1080			0.16 1330			0.08 1330				
1439.822	P ₁ M ₂	0.22 987			0.13 1215			0.07 1215				

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

Gearboxes with free input shaft

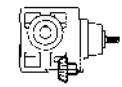
M_{2perm} ≤ 3080 Nm

GKS 09 - 3 W												Dimensions page 5-110			
n ₁		2800 min ⁻¹				1400 min ⁻¹				700 min ⁻¹					
Drive size		1E	1F	1G	1H	1E	1F	1G	1H	1E	1F	1G	1H		
i	P _{1perm} [kW] M _{2perm} [Nm]														
12.283	P ₁ M ₂		33.0	33.0			20.3	20.3			10.2	10.2			
			1312	1312			1615	1615			1615	1615			
13.360	P ₁ M ₂		33.0	33.0			20.3	20.3			10.2	10.2			
			1427	1427			1757	1757			1757	1757			
16.122	P ₁ M ₂		28.0	28.0	28.0		17.2	17.2	17.2		8.62	8.62	8.62		
			1462	1462	1462		1801	1801	1801		1801	1801	1801		
17.536	P ₁ M ₂		28.0	28.0	28.0		17.2	17.2	17.2		8.62	8.62	8.62		
			1591	1591	1591		1958	1958	1958		1958	1958	1958		
19.541	P ₁ M ₂		33.0	33.0			20.3	20.3			10.2	10.2			
			2087	2087			2570	2570			2570	2570			
22.022	P ₁ M ₂		30.4	30.4			18.7	18.7			9.36	9.36			
			2170	2170			2672	2672			2672	2672			
25.649	P ₁ M ₂		28.0	28.0	28.0		17.2	17.2	17.2		8.61	8.61	8.61		
			2325	2325	2325		2862	2862	2862		2862	2862	2862		
29.228	P ₁ M ₂		25.0	25.0	25.0		15.4	15.4	15.4		7.69	7.69	7.69		
			2367	2367	2367		2914	2914	2914		2914	2914	2914		
32.940	P ₁ M ₂		22.7	22.7	22.7		14.0	14.0	14.0		6.99	6.99	6.99		
			2424	2424	2424		2984	2984	2984		2984	2984	2984		
35.193	P ₁ M ₂	14.9 1697	21.6 2460	21.6 2460	21.6 2460	9.16 2089	13.3 3029	13.3 3029	13.3 3029	4.58 2089	6.64 3029	6.64 3029	6.64 3029		
39.662	P ₁ M ₂	14.9 1912	19.0 2438	19.0 2438	19.0 2438	9.16 2355	11.7 3002	11.7 3002	11.7 3002	4.58 2355	5.84 3002	5.84 3002	5.84 3002		
43.146	P ₁ M ₂		17.6 2456	17.6 2456	17.6 2456		10.8 3024	10.8 3024	10.8 3024		5.41 3024	5.41 3024	5.41 3024		
48.625	P ₁ M ₂		15.6 2450	15.6 2450	15.6 2450		9.58 3017	9.58 3017	9.58 3017		4.79 3017	4.79 3017	4.79 3017		
58.456	P ₁ M ₂	10.1 1913	13.0 2462	13.0 2462		6.22 2355	8.00 3031	8.00 3031		3.11 2355	4.00 3031	4.00 3031			
65.879	P ₁ M ₂	10.1 2155	11.6 2475	11.6 2475		6.22 2654	7.14 3048	7.14 3048		3.11 2654	3.57 3048	3.57 3048			
70.982	P ₁ M ₂	8.64 1986	10.7 2462	10.7 2462		5.32 2445	6.59 3031	6.59 3031		2.66 2445	3.30 3031	3.30 3031			
79.996	P ₁ M ₂	8.64 2238	9.62 2494	9.62 2494		5.32 2756	5.93 3071	5.93 3071		2.66 2756	2.96 3071	2.96 3071			
91.860	P ₁ M ₂	6.94 2064	8.27 2462			4.27 2542	5.09 3031			2.14 2542	2.55 3031				
103.524	P ₁ M ₂	6.94 2326	7.46 2501			4.27 2864	4.59 3080			2.14 2864	2.30 3080				
111.484	P ₁ M ₂	5.83 2105	6.82 2462			3.59 2591	4.20 3031			1.79 2591	2.10 3031				
125.641	P ₁ M ₂	5.83 2372	6.15 2501			3.59 2920	3.78 3080			1.79 2920	1.89 3080				
140.921	P ₁ M ₂	4.70 2146				2.89 2642				1.45 2642					
158.816	P ₁ M ₂	4.70 2418				2.89 2978				1.45 2978					
182.000	P ₁ M ₂	4.18 2462	4.18 2462			2.57 3031	2.57 3031			1.29 3031	1.29 3031				
205.111	P ₁ M ₂	3.76 2501	3.76 2501			2.32 3080	2.32 3080			1.16 3080	1.16 3080				
220.882	P ₁ M ₂	3.44 2462	3.44 2462			2.12 3031	2.12 3031			1.06 3031	1.06 3031				

Thermal limit rating not considered (see page 2-7)

Selection tables – (Helical)-bevel gearboxes

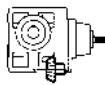
Gearboxes with free input shaft



M_{2perm} ≤ 3080 Nm

GKS 09 - 3 W										Dimensions page 5-110			
n ₁		2800 min ⁻¹				1400 min ⁻¹				700 min ⁻¹			
Drive size		1E	1F	1G	1H	1E	1F	1G	1H	1E	1F	1G	1H
i	P _{1perm} [kW] M _{2perm} [Nm]												
248.930	P ₁ M ₂	3.10 2501	3.10 2501			1.91 3080	1.91 3080			0.96 3080	0.96 3080		
279.205	P ₁ M ₂	2.72 2462				1.68 3031				0.84 3031			
314.659	P ₁ M ₂	2.45 2501				1.51 3080				0.76 3080			

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

Gearboxes with free input shaft

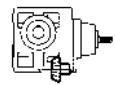
M_{2perm} ≤ 3080 Nm

GKS 09 - 4 W												Dimensions page 5-111			
n ₁		2800 min ⁻¹				1400 min ⁻¹				700 min ⁻¹					
Drive size		1C	1D	1E	1F	1C	1D	1E	1F	1C	1D	1E	1F		
i	P _{1perm} [kW] M _{2perm} [Nm]														
100.551	P ₁ M ₂	4.01 1284	6.18 1979	7.68 2460	7.68 2460	2.47 1580	3.80 2436	4.73 3029	4.73 3029	1.23 1580	1.90 2436	2.37 3029	2.37 3029		
113.320	P ₁ M ₂	4.01 1447	6.18 2230	6.76 2438	6.76 2438	2.47 1781	3.80 2746	4.16 3002	4.16 3002	1.23 1781	1.90 2746	2.08 3002	2.08 3002		
123.275	P ₁ M ₂	4.01 1574	6.18 2426	6.26 2456	6.26 2456	2.47 1938	3.80 2987	3.85 3024	3.85 3024	1.23 1938	1.90 2987	1.93 3024	1.93 3024		
138.929	P ₁ M ₂	4.01 1774	5.54 2450	5.54 2450	5.54 2450	2.47 2184	3.41 3017	3.41 3017	3.41 3017	1.23 2184	1.71 3017	1.71 3017	1.71 3017		
151.012	P ₁ M ₂		5.11 2456	5.11 2456	5.11 2456		3.14 3024	3.14 3024	3.14 3024		1.57 3024	1.57 3024	1.57 3024		
170.188	P ₁ M ₂		4.52 2450	4.52 2450	4.52 2450		2.78 3017	2.78 3017	2.78 3017		1.39 3017	1.39 3017	1.39 3017		
204.596	P ₁ M ₂		3.78 2462	3.78 2462	3.78 2462		2.33 3031	2.33 3031	2.33 3031		1.16 3031	1.16 3031	1.16 3031		
230.577	P ₁ M ₂		3.37 2475	3.37 2475	3.37 2475		2.08 3048	2.08 3048	2.08 3048		1.04 3048	1.04 3048	1.04 3048		
248.439	P ₁ M ₂		3.11 2462	3.11 2462	3.11 2462		1.92 3031	1.92 3031	1.92 3031		0.96 3031	0.96 3031	0.96 3031		
279.986	P ₁ M ₂		2.80 2494	2.80 2494	2.80 2494		1.72 3071	1.72 3071	1.72 3071		0.86 3071	0.86 3071	0.86 3071		
323.365	P ₁ M ₂	2.39 2462	2.39 2462	2.39 2462		1.47 3031	1.47 3031	1.47 3031		0.74 3031	0.74 3031	0.74 3031			
364.427	P ₁ M ₂	2.15 2494	2.15 2494	2.15 2494		1.32 3071	1.32 3071	1.32 3071		0.66 3071	0.66 3071	0.66 3071			
402.234	P ₁ M ₂	1.92 2462	1.92 2462	1.92 2462		1.18 3031	1.18 3031	1.18 3031		0.59 3031	0.59 3031	0.59 3031			
453.311	P ₁ M ₂	1.73 2494	1.73 2494	1.73 2494		1.06 3071	1.06 3071	1.06 3071		0.53 3071	0.53 3071	0.53 3071			
520.538	P ₁ M ₂	1.49 2462	1.49 2462	1.49 2462		0.91 3031	0.91 3031	0.91 3031		0.46 3031	0.46 3031	0.46 3031			
586.638	P ₁ M ₂	1.34 2501	1.34 2501	1.34 2501		0.82 3080	0.82 3080	0.82 3080		0.41 3080	0.41 3080	0.41 3080			
631.744	P ₁ M ₂	1.22 2462	1.22 2462	1.22 2462		0.75 3031	0.75 3031	0.75 3031		0.38 3031	0.38 3031	0.38 3031			
711.965	P ₁ M ₂	1.10 2501	1.10 2501	1.10 2501		0.68 3080	0.68 3080	0.68 3080		0.34 3080	0.34 3080	0.34 3080			
817.551	P ₁ M ₂	0.95 2462	0.95 2462			0.58 3031	0.58 3031			0.29 3031	0.29 3031				
921.367	P ₁ M ₂	0.85 2501	0.85 2501			0.53 3080	0.53 3080			0.26 3080	0.26 3080				
992.209	P ₁ M ₂	0.78 2462	0.78 2462			0.48 3031	0.48 3031			0.24 3031	0.24 3031				
1118.204	P ₁ M ₂	0.70 2501	0.70 2501			0.43 3080	0.43 3080			0.22 3080	0.22 3080				
1254.197	P ₁ M ₂	0.62 2462				0.38 3031				0.19 3031					
1413.461	P ₁ M ₂	0.56 2501				0.34 3080				0.17 3080					

Thermal limit rating not considered (see page 2-7)

Selection tables – (Helical)-bevel gearboxes

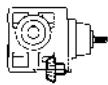
Gearboxes with free input shaft



M_{2perm} ≤ 6072 Nm

GKS 11 - 3 W												Dimensions page 5-110			
n ₁		2800 min ⁻¹				1400 min ⁻¹				700 min ⁻¹					
Drive size		1F	1G	1H	1K	1F	1G	1H	1K	1F	1G	1H	1K		
i	P _{1perm} [kW] M _{2perm} [Nm]														
12.094	P ₁ M ₂		57.4 2250	57.4 2250			35.4 2770	35.4 2770			17.7 2770	17.7 2770			
13.154	P ₁ M ₂		57.4 2447	57.4 2447			35.4 3013	35.4 3013			17.7 3013	17.7 3013			
15.874	P ₁ M ₂		48.8 2509	48.8 2509			30.0 3089	30.0 3089			15.0 3089	15.0 3089			
17.265	P ₁ M ₂		48.8 2729	48.8 2729			30.0 3360	30.0 3360			15.0 3360	15.0 3360			
19.515	P ₁ M ₂		57.4 3630	57.4 3630			35.4 4470	35.4 4470			17.7 4470	17.7 4470			
21.989	P ₁ M ₂		55.7 3967	55.7 3967			34.3 4884	34.3 4884			17.1 4884	17.1 4884			
25.615	P ₁ M ₂		48.8 4049	48.8 4049			30.0 4985	30.0 4985			15.0 4985	15.0 4985			
28.021	P ₁ M ₂		46.2 4193	46.2 4193	46.2 4193		28.4 5163	28.4 5163	28.4 5163		14.2 5163	14.2 5163	14.2 5163		
31.573	P ₁ M ₂		43.8 4484	43.8 4484	43.8 4484		27.0 5521	27.0 5521	27.0 5521		13.5 5521	13.5 5521	13.5 5521		
35.741	P ₁ M ₂	27.3 3160	39.7 4593	39.7 4593	39.7 4593	16.8 3890	24.4 5655	24.4 5655	24.4 5655	8.40 3890	12.2 5655	12.2 5655	12.2 5655		
40.272	P ₁ M ₂	27.3 3560	36.5 4767	36.5 4767	36.5 4767	16.8 4383	22.5 5869	22.5 5869	22.5 5869	8.40 4383	11.3 5869	11.3 5869	11.3 5869		
43.783	P ₁ M ₂	33.2 4711	33.2 4711	33.2 4711			20.4 5800	20.4 5800	20.4 5800		10.2 5800	10.2 5800	10.2 5800		
49.333	P ₁ M ₂	30.1 4810	30.1 4810	30.1 4810			18.5 5923	18.5 5923	18.5 5923		9.27 5923	9.27 5923	9.27 5923		
57.683	P ₁ M ₂	19.0 3548	26.0 4850	26.0 4850		11.7 4369	16.0 5972	16.0 5972	16.0 5972		5.85 4369	7.99 5972	7.99 5972		
64.995	P ₁ M ₂	19.0 3998	23.1 4866	23.1 4866		11.7 4923	14.2 5992	14.2 5992	14.2 5992		5.85 4923	7.11 5992	7.11 5992		
70.887	P ₁ M ₂	15.9 3645	21.1 4851	21.1 4851		9.77 4488	13.0 5973	13.0 5973	13.0 5973		4.89 4488	6.50 5973	6.50 5973		
79.873	P ₁ M ₂	15.9 4107	18.9 4899	18.9 4899		9.77 5057	11.7 6032	11.7 6032	11.7 6032		4.89 5057	5.83 6032	5.83 6032		
91.737	P ₁ M ₂	12.8 3790	16.3 4853			7.85 4666	10.1 5975				3.93 4666	5.03 5975			
103.365	P ₁ M ₂	12.8 4270	14.7 4931			7.85 5258	9.07 6072				3.93 5258	4.53 6072			
111.335	P ₁ M ₂	10.7 3840	13.5 4853			6.55 4728	8.28 5975				3.28 4728	4.14 5975			
125.448	P ₁ M ₂	10.7 4327	12.1 4931			6.55 5328	7.47 6072				3.28 5328	3.74 6072			
140.732	P ₁ M ₂	8.54 3893				5.26 4794					2.63 4794				
158.571	P ₁ M ₂	8.54 4387				5.26 5401					2.63 5401				
186.572	P ₁ M ₂	8.03 4853	8.03 4853			4.94 5975	4.94 5975				2.47 5975	2.47 5975			
210.222	P ₁ M ₂	7.03 4785	7.03 4785			4.33 5892	4.33 5892				2.16 5892	2.16 5892			
226.431	P ₁ M ₂	6.62 4853	6.62 4853			4.07 5975	4.07 5975				2.04 5975	2.04 5975			

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

Gearboxes with free input shaft

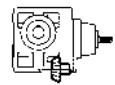
$M_{2\text{perm}} \leq 6072 \text{ Nm}$

GKS 11 - 3 W										Dimensions page 5-110			
n ₁		2800 min ⁻¹				1400 min ⁻¹				700 min ⁻¹			
Drive size		1F	1G	1H	1K	1F	1G	1H	1K	1F	1G	1H	1K
i	P _{1perm} [kW] M _{2perm} [Nm]												
255.133	P ₁ M ₂	5.79 4785	5.79 4785			3.56 5892	3.56 5892			1.78 5892	1.78 5892		
286.219	P ₁ M ₂	5.23 4853				3.22 5975				1.61 5975			
322.500	P ₁ M ₂	4.58 4785				2.82 5892				1.41 5892			

Thermal limit rating not considered (see page 2-7)

Selection tables – (Helical)-bevel gearboxes

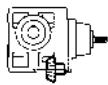
Gearboxes with free input shaft



M_{2perm} ≤ 6072 Nm

GKS 11 - 4 W												Dimensions page 5-111			
n ₁		2800 min ⁻¹				1400 min ⁻¹				700 min ⁻¹					
Drive size		1D	1E	1F	1G	1D	1E	1F	1G	1D	1E	1F	1G		
i	P _{1perm} [kW] M _{2perm} [Nm]														
102.119	P ₁ M ₂	7.37 2398	12.0 3897	14.1 4593	14.1 4593	4.54 2952	7.38 4798	8.69 5655	8.69 5655	2.27 2952	3.69 4798	4.35 5655	4.35 5655		
115.063	P ₁ M ₂	7.37 2701	12.0 4391	13.0 4767	13.0 4767	4.54 3326	7.38 5406	8.01 5869	8.01 5869	2.27 3326	3.69 5406	4.00 5869	4.00 5869		
125.095	P ₁ M ₂	7.37 2937	11.8 4711	11.8 4711	11.8 4711	4.54 3616	7.28 5800	7.28 5800	7.28 5800	2.27 3616	3.64 5800	3.64 5800	3.64 5800		
140.952	P ₁ M ₂	7.37 3309	10.7 4810	10.7 4810	10.7 4810	4.54 4075	6.60 5923	6.60 5923	6.60 5923	2.27 4075	3.30 5923	3.30 5923	3.30 5923		
153.242	P ₁ M ₂	9.65 4711	9.65 4711	9.65 4711			5.94 5800	5.94 5800	5.94 5800		2.97 5800	2.97 5800	2.97 5800		
172.667	P ₁ M ₂	8.75 4810	8.75 4810	8.75 4810			5.39 5923	5.39 5923	5.39 5923		2.69 5923	2.69 5923	2.69 5923		
201.890	P ₁ M ₂	7.54 4850	7.54 4850	7.54 4850			4.64 5972	4.64 5972	4.64 5972		2.32 5972	2.32 5972	2.32 5972		
227.481	P ₁ M ₂	6.72 4866	6.72 4866	6.72 4866			4.14 5992	4.14 5992	4.14 5992		2.07 5992	2.07 5992	2.07 5992		
248.106	P ₁ M ₂	6.14 4851	6.14 4851	6.14 4851			3.78 5973	3.78 5973	3.78 5973		1.89 5973	1.89 5973	1.89 5973		
279.556	P ₁ M ₂	5.50 4899	5.50 4899	5.50 4899			3.39 6032	3.39 6032	3.39 6032		1.69 6032	1.69 6032	1.69 6032		
322.931	P ₁ M ₂	4.72 4851	4.72 4851	4.72 4851			2.90 5973	2.90 5973	2.90 5973		1.45 5973	1.45 5973	1.45 5973		
363.866	P ₁ M ₂	4.23 4899	4.23 4899	4.23 4899			2.60 6032	2.60 6032	2.60 6032		1.30 6032	1.30 6032	1.30 6032		
395.787	P ₁ M ₂	3.85 4851	3.85 4851	3.85 4851			2.37 5973	2.37 5973	2.37 5973		1.19 5973	1.19 5973	1.19 5973		
445.958	P ₁ M ₂	3.45 4899	3.45 4899	3.45 4899			2.12 6032	2.12 6032	2.12 6032		1.06 6032	1.06 6032	1.06 6032		
512.195	P ₁ M ₂	2.98 4853	2.98 4853	2.98 4853			1.83 5975	1.83 5975	1.83 5975		0.92 5975	0.92 5975	0.92 5975		
577.122	P ₁ M ₂	2.68 4931	2.68 4931	2.68 4931			1.65 6072	1.65 6072	1.65 6072		0.83 6072	0.83 6072	0.83 6072		
621.619	P ₁ M ₂	2.45 4853	2.45 4853	2.45 4853			1.51 5975	1.51 5975	1.51 5975		0.76 5975	0.76 5975	0.76 5975		
700.416	P ₁ M ₂	2.21 4931	2.21 4931	2.21 4931			1.36 6072	1.36 6072	1.36 6072		0.68 6072	0.68 6072	0.68 6072		
816.455	P ₁ M ₂	1.87 4853	1.87 4853				1.15 5975	1.15 5975			0.57 5975	0.57 5975			
919.949	P ₁ M ₂	1.68 4931	1.68 4931				1.04 6072	1.04 6072			0.52 6072	0.52 6072			
990.879	P ₁ M ₂	1.54 4853	1.54 4853				0.95 5975	0.95 5975			0.47 5975	0.47 5975			
1116.484	P ₁ M ₂	1.39 4931	1.39 4931				0.85 6072	0.85 6072			0.43 6072	0.43 6072			
1252.516	P ₁ M ₂	1.22 4853					0.75 5975				0.37 5975				
1411.286	P ₁ M ₂	1.10 4931					0.68 6072				0.34 6072				

Thermal limit rating not considered (see page 2-7)



Selection tables – (Helical)-bevel gearboxes

Gearboxes with free input shaft

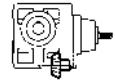
M_{2perm} ≤ 11790 Nm

GKS 14 - 3 W									Dimensions page 5-110		
n ₁		2800 min ⁻¹			1400 min ⁻¹			700 min ⁻¹			
Drive size		1G	1H	1K	1G	1H	1K	1G	1H	1K	
i	P _{1perm} [kW] M _{2perm} [Nm]										
12.435	P ₁ M ₂		100.7			62.0			31.0		
			4056			4994			4994		
13.525	P ₁ M ₂		100.7			62.0			31.0		
			4412			5432			5432		
16.646	P ₁ M ₂	89.0 4797	89.0 4797		54.8 5906	54.8 5906		27.4 5906	27.4 5906		
18.311	P ₁ M ₂	83.9 4978	83.9 4978		51.7 6130	51.7 6130		25.8 6130	25.8 6130		
20.065	P ₁ M ₂		100.7 6545			62.0 8059			31.0 8059		
22.609	P ₁ M ₂		100.6 7369			61.9 9073			31.0 9073		
24.696	P ₁ M ₂	89.0 7117	89.0 7117		54.8 8763	54.8 8763		27.4 8763	27.4 8763		
27.165	P ₁ M ₂	83.9 7386	83.9 7386		51.7 9094	51.7 9094		25.8 9094	25.8 9094		
30.609	P ₁ M ₂	83.0 8229	83.0 8229		51.1 10132	51.1 10132		25.5 10132	25.5 10132		
34.692	P ₁ M ₂	72.1 8099	72.1 8099		44.4 9973	44.4 9973		22.2 9973	22.2 9973		
39.089	P ₁ M ₂	70.2 8883	70.2 8883		43.2 10937	43.2 10937		21.6 10937	21.6 10937		
42.531	P ₁ M ₂	63.3 8720	63.3 8720		39.0 10737	39.0 10737		19.5 10737	19.5 10737		
47.923	P ₁ M ₂	58.9 9146	58.9 9146		36.3 11261	36.3 11261		18.1 11261	18.1 11261		
56.251	P ₁ M ₂	38.1 6934	51.4 9358	51.4 9358	23.4 8538	31.6 11522	31.6 11522	11.7 8538	15.8 11522	15.8 11522	
63.382	P ₁ M ₂	38.1 7813	45.4 9321	45.4 9321	23.4 9621	28.0 11477	28.0 11477	11.7 9621	14.0 11477	14.0 11477	
68.942	P ₁ M ₂	32.6 7270	41.7 9303		20.0 8952	25.6 11454		10.0 8952	12.8 11454		
77.681	P ₁ M ₂	32.6 8192	37.2 9356		20.0 10087	22.9 11520		10.0 10087	11.4 11520		
90.551	P ₁ M ₂	25.7 7526	31.8 9330		15.8 9267	19.6 11488		7.90 9267	9.79 11488		
102.029	P ₁ M ₂	25.7 8480	28.6 9453		15.8 10441	17.6 11639		7.90 10441	8.80 11639		
109.896	P ₁ M ₂	21.5 7656	26.9 9575		13.2 9427	16.6 11790		6.62 9427	8.28 11790		
123.826	P ₁ M ₂	21.5 8627	23.6 9453		13.2 10622	14.5 11639		6.62 10622	7.25 11639		
138.913	P ₁ M ₂	17.3 7793			10.7 9595			5.33 9595			
156.522	P ₁ M ₂	17.3 8781			10.7 10812			5.33 10812			
186.572	P ₁ M ₂	15.6 9429	15.6 9429		9.60 11609	9.60 11609		4.80 11609	4.80 11609		
210.222	P ₁ M ₂	13.8 9385	13.8 9385		8.48 11555	8.48 11555		4.24 11555	4.24 11555		
226.431	P ₁ M ₂	12.9 9429	12.9 9429		7.91 11609	7.91 11609		3.96 11609	3.96 11609		

Thermal limit rating not considered (see page 2-7)

Selection tables – (Helical)-bevel gearboxes

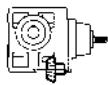
Gearboxes with free input shaft



$M_{2\text{perm}} \leq 11790 \text{ Nm}$

GKS 14 - 3 W									Dimensions page 5-110		
n_1		2800 min ⁻¹			1400 min ⁻¹			700 min ⁻¹			
Drive size		1G	1H	1K	1G	1H	1K	1G	1H	1K	
i	P _{1perm} [kW] M _{2perm} [Nm]										
255.133	P ₁ M ₂	11.4 9385	11.4 9385		6.99 11555	6.99 11555		3.50 11555	3.50 11555		
286.219	P ₁ M ₂	10.2 9429			6.26 11609			3.13 11609			
322.500	P ₁ M ₂	8.98 9385			5.53 11555			2.77 11555			

Thermal limit rating not considered (see page 2-7)



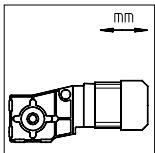
Selection tables – (Helical)-bevel gearboxes

Gearboxes with free input shaft

M_{2perm} ≤ 11639 Nm

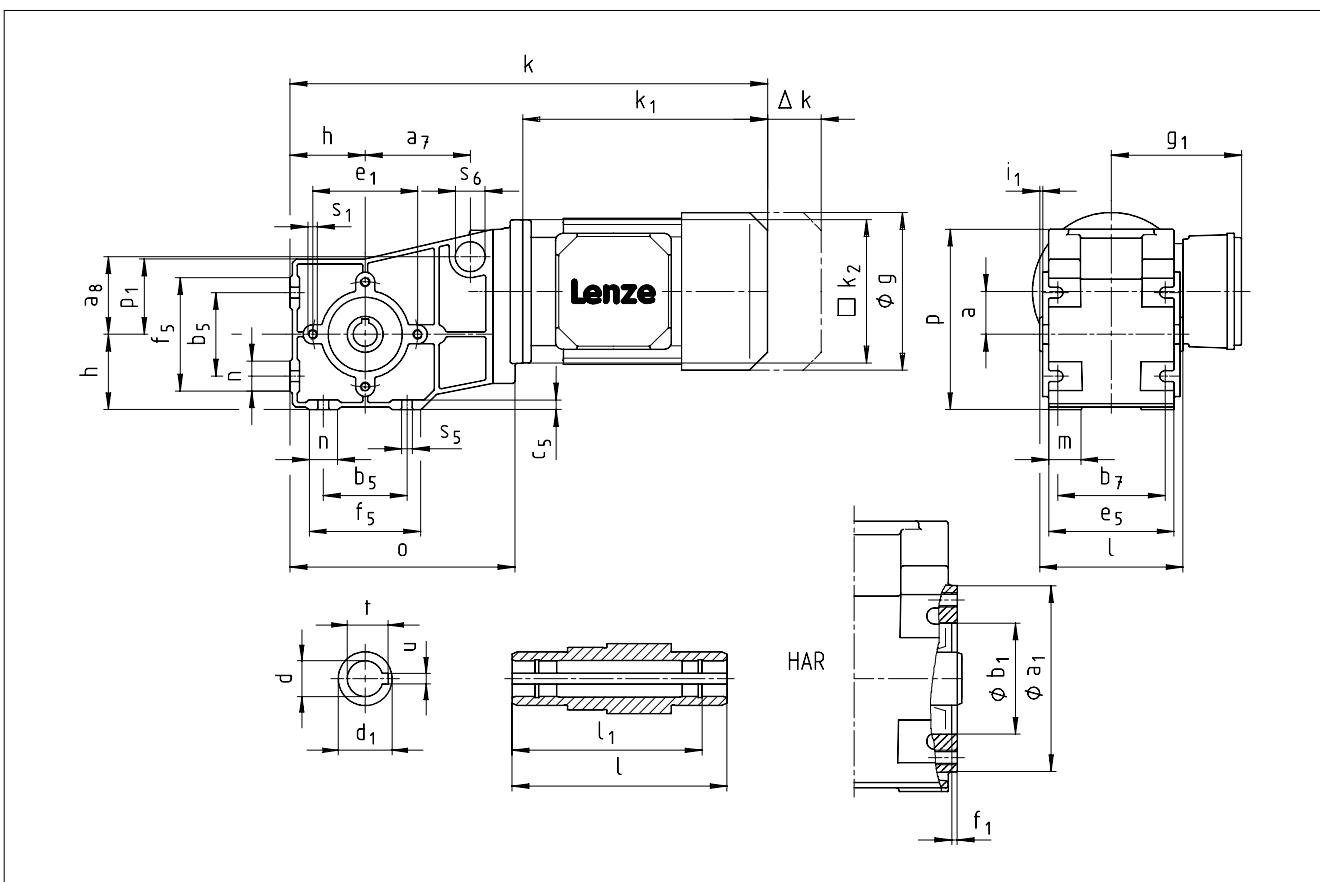
GKS 14 - 4 W												Dimensions page 5-111			
n ₁		2800 min ⁻¹				1400 min ⁻¹				700 min ⁻¹					
Drive size		1E	1F	1G	1H	1E	1F	1G	1H	1E	1F	1G	1H		
i	P _{1perm} [kW] M _{2perm} [Nm]														
97.467	P ₁ M ₂	14.9 4619	22.5 6982	26.1 8099	26.1 8099	9.16 5688	13.9 8597	16.1 9973	16.1 9973	4.58 5688	6.93 8597	8.03 9973	8.03 9973		
109.822	P ₁ M ₂	14.9 5205	22.5 7868	25.4 8883	25.4 8883	9.16 6409	13.9 9687	15.6 10937	15.6 10937	4.58 6409	6.93 9687	7.82 10937	7.82 10937		
119.493	P ₁ M ₂	14.9 5663	22.5 8560	22.9 8720	22.9 8720	9.16 6973	13.9 10540	14.1 10737	14.1 10737	4.58 6973	6.93 10540	7.05 10737	7.05 10737		
134.640	P ₁ M ₂	14.9 6381	21.3 9146	21.3 9146	21.3 9146	9.16 7857	13.1 11261	13.1 11261	13.1 11261	4.58 7857	6.57 11261	6.57 11261	6.57 11261		
158.039	P ₁ M ₂	14.9 7490	18.6 9358	18.6 9358	18.6 9358	9.16 9223	11.5 11522	11.5 11522	11.5 11522	4.58 9223	5.72 11522	5.72 11522	5.72 11522		
178.072	P ₁ M ₂	14.9 8440	16.4 9321	16.4 9321	16.4 9321	9.16 10392	10.1 11477	10.1 11477	10.1 11477	4.58 10392	5.06 11477	5.06 11477	5.06 11477		
193.754	P ₁ M ₂		15.2 9358	15.2 9358	15.2 9358		9.34 11522	9.34 11522	9.34 11522		4.67 11522	4.67 11522	4.67 11522		
218.315	P ₁ M ₂		13.4 9321	13.4 9321	13.4 9321		8.25 11477	8.25 11477	8.25 11477		4.13 11477	4.13 11477	4.13 11477		
237.467	P ₁ M ₂		12.3 9303	12.3 9303	12.3 9303		7.57 11454	7.57 11454	7.57 11454		3.79 11454	3.79 11454	3.79 11454		
267.568	P ₁ M ₂		11.0 9356	11.0 9356	11.0 9356		6.76 11520	6.76 11520	6.76 11520		3.38 11520	3.38 11520	3.38 11520		
321.729	P ₁ M ₂	9.08 9303	9.08 9303	9.08 9303		5.59 11454	5.59 11454	5.59 11454		2.80 11454	2.80 11454	2.80 11454			
362.512	P ₁ M ₂	8.10 9356	8.10 9356	8.10 9356		4.99 11520	4.99 11520	4.99 11520		2.50 11520	2.50 11520	2.50 11520			
390.672	P ₁ M ₂	7.48 9303	7.48 9303	7.48 9303		4.60 11454	4.60 11454	4.60 11454		2.30 11454	2.30 11454	2.30 11454			
440.193	P ₁ M ₂	6.67 9356	6.67 9356	6.67 9356		4.11 11520	4.11 11520	4.11 11520		2.05 11520	2.05 11520	2.05 11520			
513.121	P ₁ M ₂	5.71 9330	5.71 9330	5.71 9330		3.52 11488	3.52 11488	3.52 11488		1.76 11488	1.76 11488	1.76 11488			
578.164	P ₁ M ₂	5.13 9453	5.13 9453	5.13 9453		3.16 11639	3.16 11639	3.16 11639		1.58 11639	1.58 11639	1.58 11639			
622.742	P ₁ M ₂	4.71 9330	4.71 9330	4.71 9330		2.90 11488	2.90 11488	2.90 11488		1.45 11488	1.45 11488	1.45 11488			
701.681	P ₁ M ₂	4.23 9453	4.23 9453	4.23 9453		2.60 11639	2.60 11639	2.60 11639		1.30 11639	1.30 11639	1.30 11639			
805.901	P ₁ M ₂	3.64 9330	3.64 9330			2.24 11488	2.24 11488			1.12 11488	1.12 11488				
908.058	P ₁ M ₂	3.27 9453	3.27 9453			2.01 11639	2.01 11639			1.01 11639	1.01 11639				
978.071	P ₁ M ₂	3.00 9330	3.00 9330			1.84 11488	1.84 11488			0.92 11488	0.92 11488				
1102.052	P ₁ M ₂	2.69 9453	2.69 9453			1.66 11639	1.66 11639			0.83 11639	0.83 11639				
1236.326	P ₁ M ₂	2.37 9330				1.46 11488				0.73 11488					
1393.043	P ₁ M ₂	2.13 9453				1.31 11639				0.66 11639					

Thermal limit rating not considered (see page 2-7)



Dimensions – (Helical)-bevel gearboxes

Geared motors



5

Geared motor GKR □□ - 2 M H□R						Motor frame size			
Motor	063					071		080	
	-1□					-1□/3□		-1□/3□	
	<u>g</u>	129				142		156	
	<u>g₁</u> Without options	105				130		130	
	Brake motor	105				131		131	
	<u>k₁</u>	193	204			176		225	
	<u>k₂</u>	100				145		145	
	<u>Δk</u> ** Brake	56				66		68	
		71				80		94	
		118				134		150	
Gearbox size	Gearbox					Total length			
	<u>I*</u>	<u>p*</u>	<u>p₁</u>	<u>a</u>	<u>h</u>	<u>k</u>			
04	120	151	63	36	63	363	404	376	435

Gearbox size	Hollow shaft						Pitch circle					
	<u>d</u> H7	<u>I</u>	<u>d₁</u>	<u>I₁</u>	<u>u</u> JS9	<u>t¹⁾ +0.1</u>	<u>a₁</u>	<u>b₁</u> J7	<u>e₁</u>	<u>f₁</u>	<u>i₁</u>	<u>s₁</u>
04	20 25	120	30 35	106	6 8	22.8 27.0	104	62	88	3	2.5	M8x16

Gearbox size	<u>b₅</u>	<u>b₇</u>	<u>c₅</u>	<u>e₅</u>	<u>f₅</u>	<u>n</u>	<u>m</u>	<u>s₅</u>	Torque plate		
	<u>a₇</u>	<u>a₈</u>	<u>s₆</u>								
04	70	90	8	105	95	25	28	9	88	65	25 x 17

Dimensions in [mm]

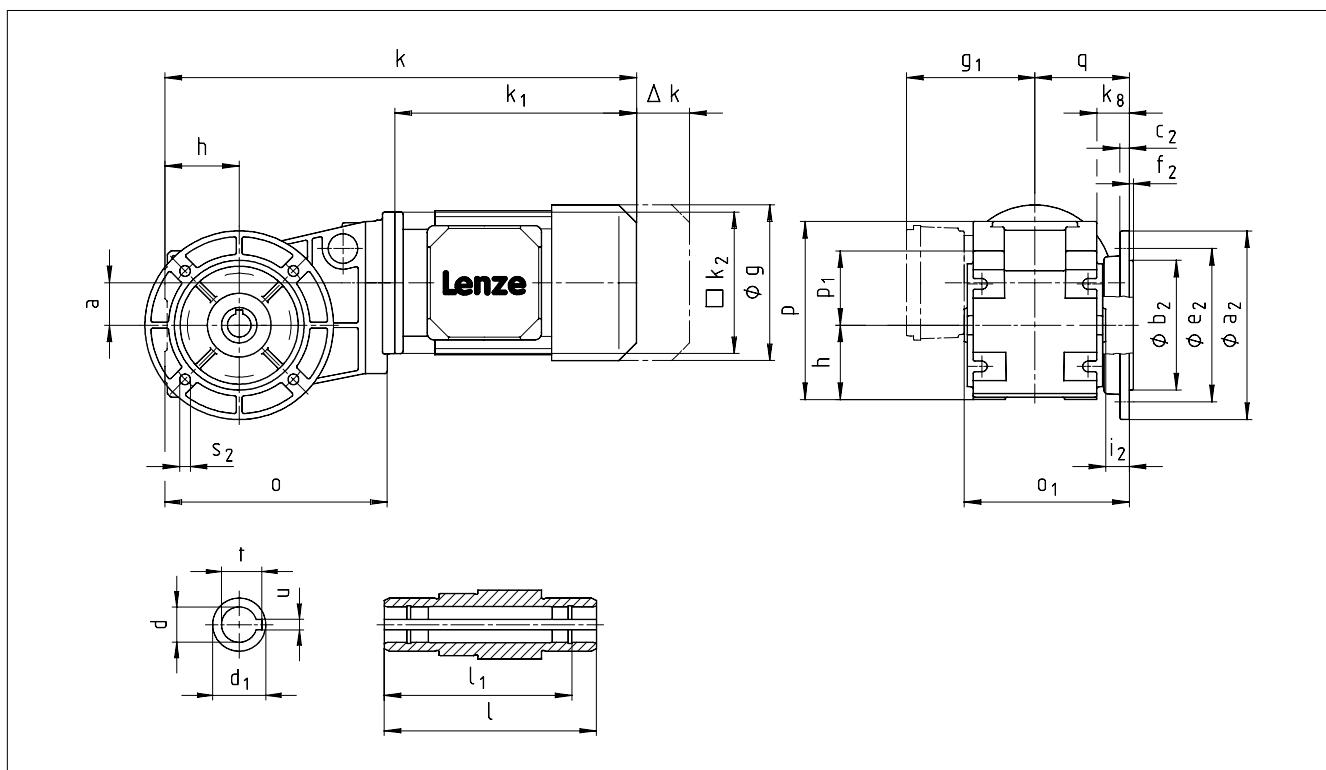
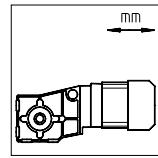
* Observe k_2

** Further attachments in chapter 7

¹⁾ If the hollow shaft diameter is $d=25$ mm use a flat key to DIN 6885/3

Dimensions – (Helical)-bevel gearboxes

Geared motors



Geared motor GKR □□ - 2 M HAK							Motor frame size						
							063	-1□	-3□	071	-1□/3□	080	-1□/3□
Motor	<u>g</u>						129			142		156	
	<u>g₁</u>	Without options					105			130		130	
		Brake motor					105			131		131	
	<u>k₁</u>						193	204		176		225	
	<u>k₂</u>						100			145		145	
	<u>Δk**</u>	Brake					56			66		68	
		Separate fan					71			80		94	
		Separate fan + brake					118			134		150	
Gearbox size	Gearbox							Total length					
04	<u>o₁*</u>	<u>p*</u>	<u>p₁</u>	<u>a</u>	<u>h</u>	<u>k₈</u>	<u>o</u>	<u>q</u>					
	140	151	63	36	63	28	189	80	363	404	376	435	

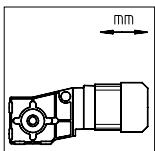
Gearbox size	Hollow shaft							Output flange					
	<u>d</u> H7	<u>I</u>	<u>d₁</u>	<u>l₁</u>	<u>u</u> JS9	<u>t¹⁾</u> +0,1	<u>a₂</u>	<u>b₂</u> j7	<u>c₂</u>	<u>e₂</u>	<u>f₂</u>	<u>i₂</u>	<u>s₂</u> 4x90°
04	20 25	120	30 35	106	6 8	22,8 27	120 160	80 110	8,0	100 130	3 3,5	20	7 9

Dimensions in [mm]

* Observe k₂

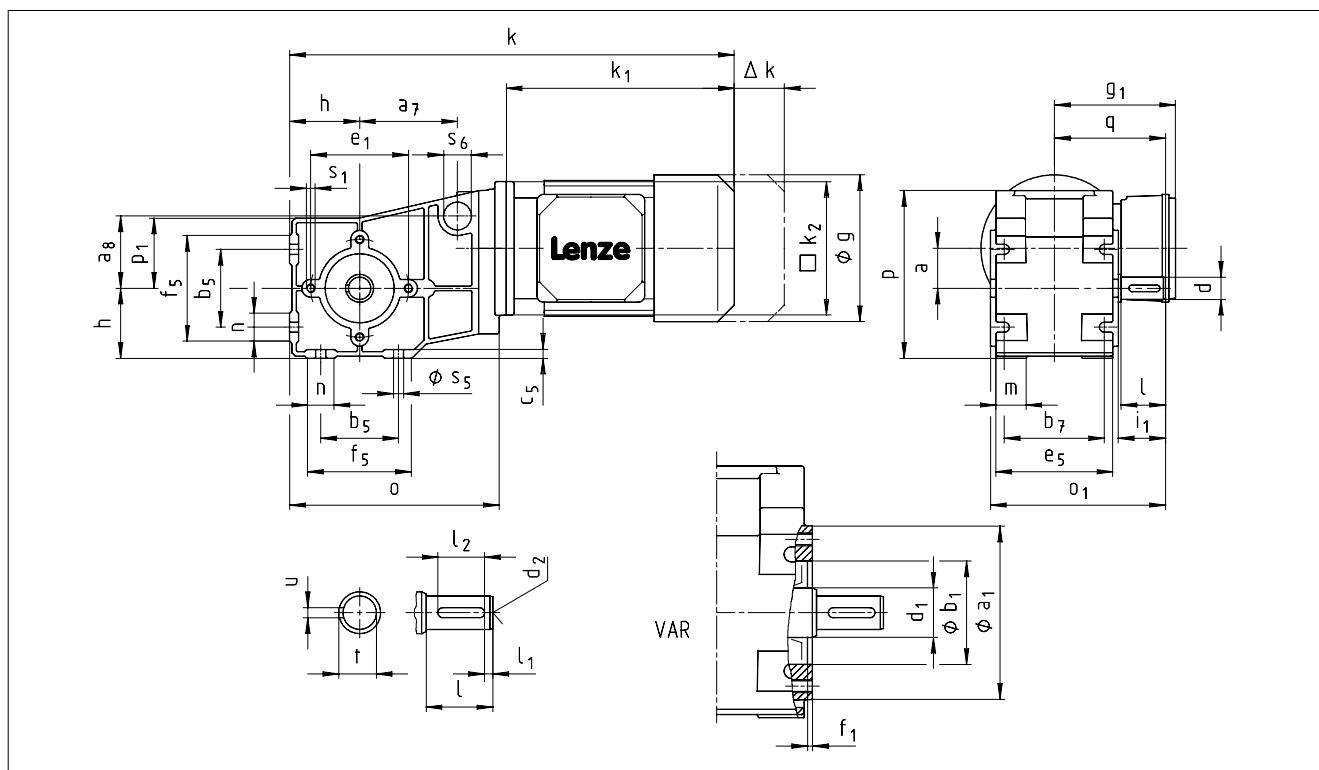
** Further attachments in chapter 7

¹⁾ If the hollow shaft diameter is d=25 mm use a flat key to DIN 6885/3



Dimensions – (Helical)-bevel gearboxes

Geared motors



5

Geared motor GKR □□ - 2 M V□R							Motor frame size						
Motor	g	063		071		080							
	g₁	129		142		156							
	Without options	105		130		130							
	Brake motor	105		131		131							
	k₁	193	204	176		225							
	k₂	100		145		145							
	Δ k **	Brake	56	66	68								
	Separate fan	71		80		94							
	Separate fan + brake	118		134		150							
Gearbox size	Gearbox						Total length						
	o₁*	p*	p₁	a	h	o	k						
04	158	151	63	36	63	189	100	363	404	376	435		

Gearbox size	Hollow shaft								Pitch circle					
	d	k₆	I	d₁	I₁	I₂	d₂	u	t	a₁	b₁	e₁	f₁	i₁
04	20	40	30	5	28	M6	6	22.5	104	62	88	3	42.5	M8x16

Gearbox size	Foot							Torque plate				
	b₅	b₇	c₅	e₅	f₅	n	m	s₅	a₇	a₈	s₆	
04	70	90	8	105	95	25	28	9	88	65	25 x 17	

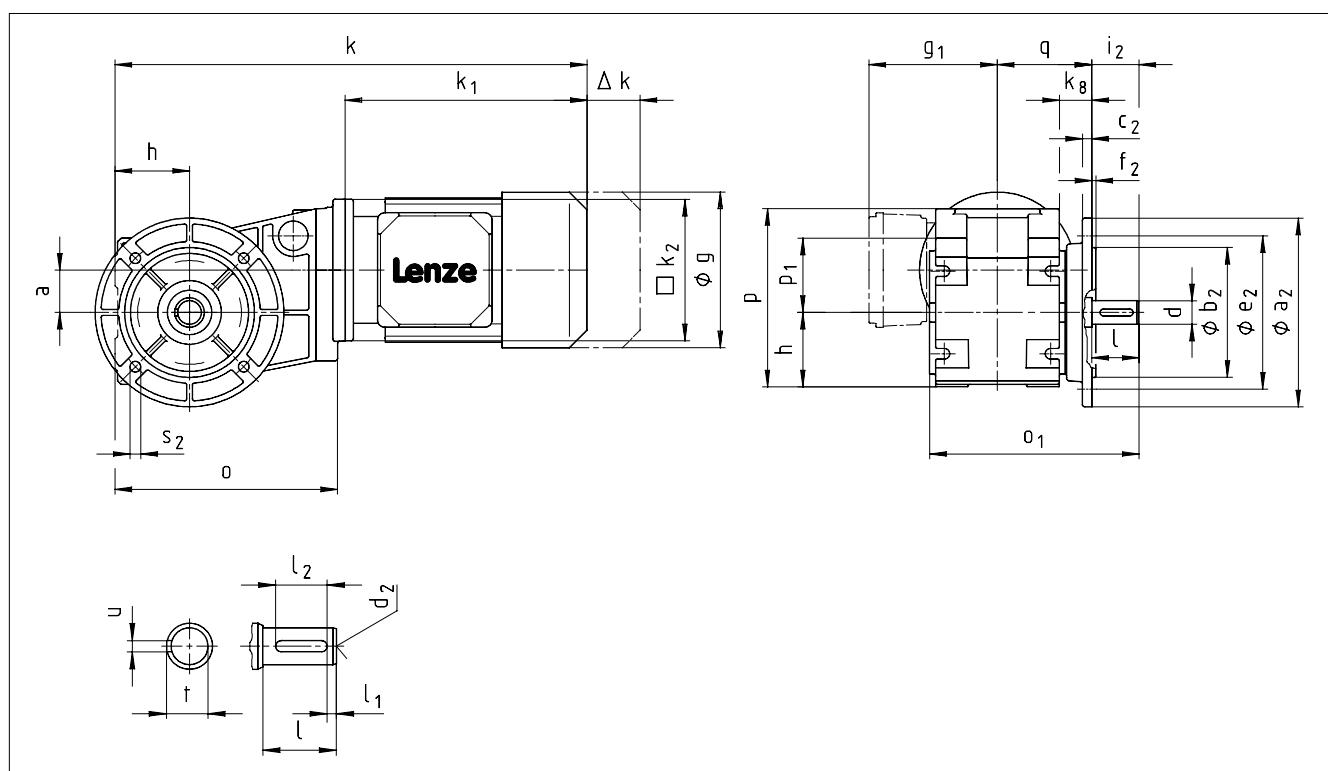
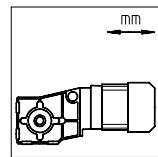
Dimensions in [mm]

* Observe k₂

** Further attachments in chapter 7

Dimensions – (Helical)-bevel gearboxes

Geared motors



Geared motor GKR □□ - 2 M VAK								Motor frame size				
Motor	g	063			071			080				
		-1□	129	-3□	142	1□/3□	130	131	131	156		
g₁	Without options		105		130		131		131	130		
	Brake motor		105		131		131		131	131		
k₁		193		204		176		225				
k₂			100		145		145		145			
Δk**	Brake		56		66		68		68			
	Separate fan		71		80		94		94			
	Separate fan + brake		118		134		150		150			
Gearbox size	Gearbox							Total length				
	o₁*	p*	p₁	a	h	o	q	k₈	k			
04	178	151	63	36	63	189	80.5	28	363	404	376	435

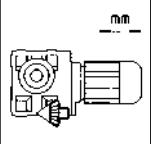
Gearbox size	Solid shaft							
	d k6	I	I₁	I₂	d₂	u	t	
04	20	40	5	28	M6	6	22.5	

Gearbox size	Output flange							
	a₂	b₂ j7	c₂	e₂	f₂	i₂	s₂ 4x90°	
04	120 160	80 110	8	100 130	3 3.5	40	7 9	

Dimensions in [mm]

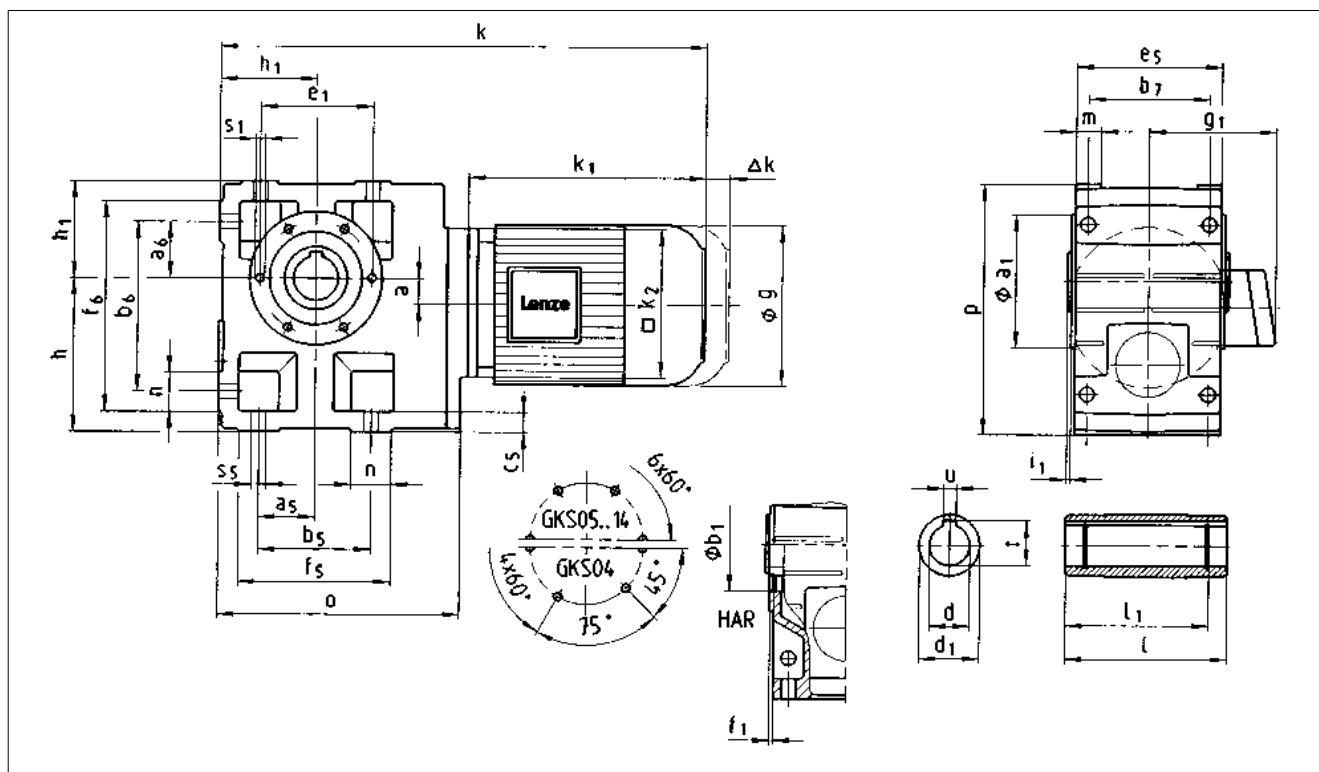
* Observe k₂

** Further attachments in chapter 7



Dimensions – (Helical)-bevel gearboxes

Geared motors



5

Geared motor GKS □□ - 3 M H□R						Motor frame size															
Gearbox size	o	I*	p*	h*	h ₁	a	Total length														
							063 -1□ -3□	071 1□/-3□	080 1□/-3□	090 1□/-3□	100 12/-31 -32/-41	112 -22/-31 -32 -41	132 -2□/-3□	160 -22 -32							
Motor	g						129	142	156	178	194	222	262	310							
	g ₁	Without options					105	130	130	141	154	167	202	215							
		Brake motor					105	131	131	142	160	167	202	215							
	k ₁				193 204		176	225	242	280	310	323	343 323	409	458 502						
	k ₂						100	145	145	180	180	222	265	300							
	Δk **	Brake					56	66	68	74	94	101	127	113							
		Separate fan					71	80	94	101	97	95	104	113							
		Separate fan + brake					118	134	150	164	169	183	218	225							
		Gearbox																			
	o	I*	p*	h*	h ₁	a	Total length														
04	203	115	171	100	71	20	379	390	392	441	469										
05	232	140	205	125	80	23			412	461	489	527	557								
06	291	160	250	150	100	28			468	517	545	583	613	631	651	631					
07	354	200	310	190	120	34			573	601	639	669	687	707	687	782	835	879			
09	429	240	386	236	150	41				672	710	740	758	778	758	853	906	950			
11	527	290	485	300	185	54					801	831	849	869	849	944	997	1041			
14	636	350	605	375	230	67						948	968	948	1043	1096	1140				

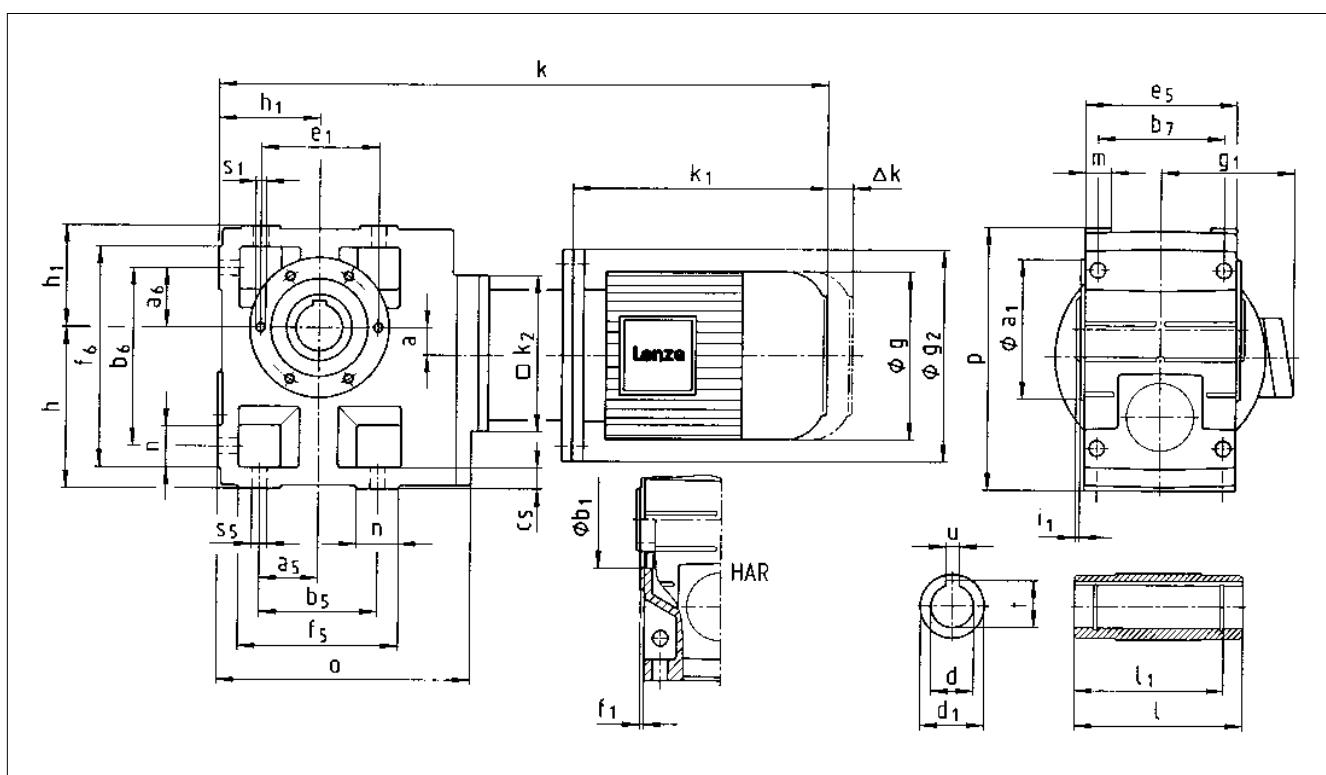
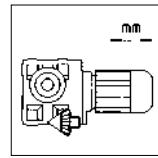
Gearbox size	Hollow shaft						Pitch circle						Foot											
	d H7	I	d ₁	I ₁	u JS9	t +0.2	a ₁ H7	b ₁ H7	e ₁	f ₁	i ₁	s ₁	a ₅	a ₆	b ₅	b ₆	b ₇	c ₅	e ₅	f ₅	f ₆	n	m	s ₅
04	25 30	115	45	100	8 8	28.3 33.3	105	75	90	3	2.5	M6x12	45	45	110	119	85	14	105	132	141	22	21	9
05	30 35	140	50	124	8 10	33.3 38.3	118	80	100	4	4	M8x15	47.5	47.5	115	140	105	17	127	144	169	29	21	11
06	40 45	160	65	140	12 14	43.3 48.8	140	100	120	4	5	M10x16	60	60	155	170	120	20	145	191	206	36	23	14
07	50 55	200	75	175	14 16	53.8 59.3	165	115	140	5	5	M12x18	70	70	190	210	150	25	180	235	255	45	28	18
09	60 70	240	95	210	18 20	64.4 74.9	205	145	175	6	5	M16x24	90	90	240	266	185	30	222	300	326	30	37	22
11	70 80	290	105	250	20 22	74.9 85.4	240	170	205	6	6	M20x32	105	105	290	325	225	40	270	363	398	73	43	26
14	100	350	135	305	28	106.4	290	210	250	6	7	M24x35	135	135	360	415	275	50	328	442	497	82	52	33

Dimensions in [mm]

* Observe dimension k₂, with gearbox size 04 and motor frame size 090 dimension k₂/2 > h-a ** Further attachments in chapter 7

Dimensions – (Helical)-bevel gearboxes

Geared motors

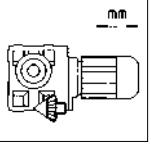


Geared motor GKS □□ - 3 M H□R							Motor frame size			
							180	200	225	
							-22	-32	-32	-12 / -22
Motor			g				350	388	433	
			g₁	Without options			270	291	319	
				Brake motor			270	309	327	
			g₂				350	400	450	
			k₁				567	605	661	693
			k₂				300	300	300	
			Δk	Brake			145	175	200	
				Separate fan			299	387	388	
				Separate fan + brake			424	507	518	
Gearbox size	Gearbox						Total length			
	o	I*	p*	h	h₁	a	k			
09	429	240	386	236	150	41	1234	1272	1353	
11	527	290	485	300	185	54	1325	1363	1444	1506
14	636	350	605	375	230	67	1424	1462	1543	1605

Gearbox size	Hollow shaft					Pitch circle					Foot													
	d H7	I	d ₁	I ₁	u JS9	t +0.2	a ₁ H7	b ₁	e ₁	f ₁	i ₁	s ₁	a ₅	a ₆	b ₅	b ₇	c ₅	e ₅	f ₅	f ₆	n	m	s ₅	
09	60 70	240	95	210	18 20	64.4 74.9	205	145	175	6	5	M16x24	90	90	240	266	185	30	222	300	326	30	37	22
11	70 80	290	105	250	20 22	74.9 85.4	240	170	205	6	6	M20x32	105	105	290	325	225	40	270	363	398	73	43	26
14	100	350	135	305	28	106.4	290	210	250	6	7	M24x35	135	135	360	415	275	50	328	442	497	82	52	33

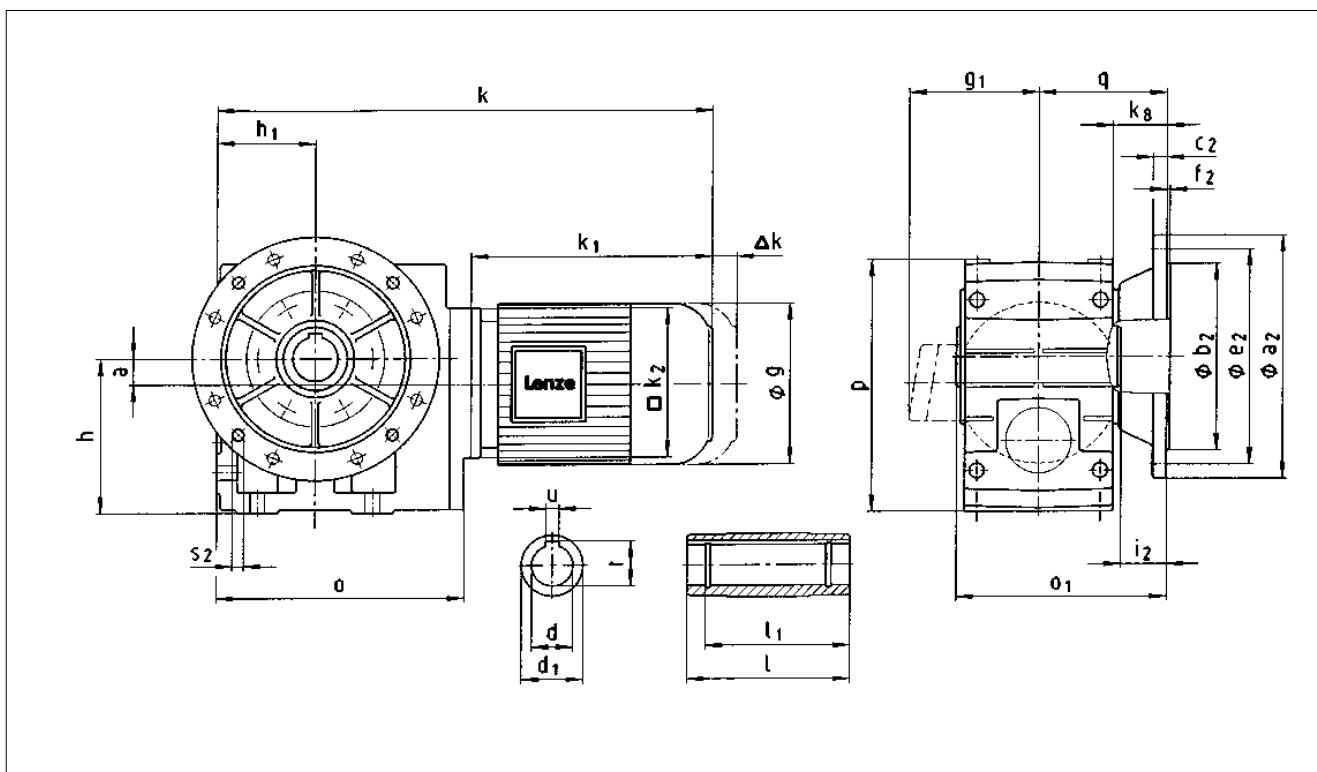
Dimensions in [mm]

* Observe k₂



Dimensions – (Helical)-bevel gearboxes

Geared motors



5

Geared motor GKS □□ - 3 M HAK								Motor frame size								
Gearbox size	o	o ₁ *	p*	h*	h ₁	a	k ₈	q	063	071	080	090	100	112	132	160
									-1□	-3□	-1□/-3□	-1□/-3□	-12/-31	-32/-41	-2□/-3□	-22
Motor	g								129	142	156	178	194	222	262	310
	g ₁	Without options							105	130	130	141	154	167	202	215
		Brake motor							105	131	131	142	160	167	202	125
	k ₁				193	204	176	225	242	280	310	323	343	323	409	458 502
	k ₂						100	145	145	180	180		222	265	300	
	Δk **	Brake					56	66	68	74	94		101	127	113	
		Separate fan					71	80	94	101	97		95	104	113	
		Separate fan + brake					118	134	150	164	169		183	218	225	
Gearbox size	Gearbox								Total length							
	o	o ₁ *	p*	h*	h ₁	a	k ₈	q	k							
04	203	148	171	100	71	20	38	90.5	379	390	392	441	469			
05	232	173	205	125	80	23	40	103		412	461	489	527	557		
06	291	201	250	150	100	28	49	121		468	517	545	583	613	631	
07	354	255	310	190	120	34	65	155		573	601	639	669	687	707	
09	429	300	386	236	150	41	69	180			672	710	740	758	778	
11	527	350	485	300	185	54	70	205				801	831	849	869	
14	636	410	605	375	230	67	71	235					948	968	948	
														1043	1096	
															1140	

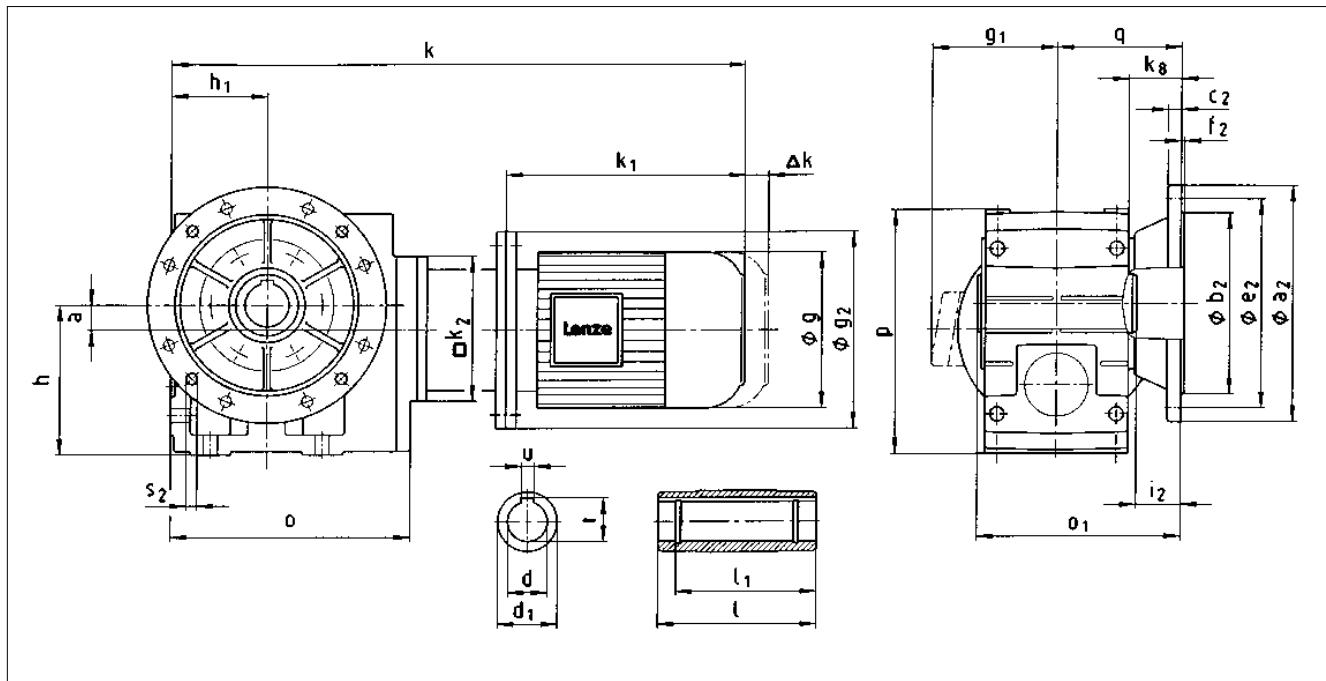
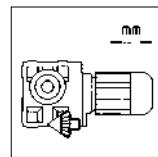
Gearbox size	d H7	l	Hollow shaft				t +0.2	a ₂	b ₂ j7	c ₂	Output flange			
			d ₁	l ₁	u JS9	t					e ₂	f ₂	i ₂	s ₂
04	25 30	115	45	100	8 8	28.3 33.3	160	110	10	130	3.5	33	4 x 9	
05	30 35	140	50	124	8 10	33.3 38.3	200	130	12	165	3.5	33	4 x 11	
06	40 45	160	65	140	12 14	43.3 48.8	200 250	130 180	12 14.5	165 215	3.5 4	42 41	4 x 11 4 x 14	
07	50 55	200	75	175	14 16	53.8 59.3	250 300	180 230	14.5 16.5	215 265	4	55	4 x 14	
09	60 70	240	95	210	18 20	64.4 74.9	350	250	18	300	4	60	4 x 18	
11	70 80	290	105	250	20 22	74.9 85.4	400 450	300 350	20 22	350 400	5	60	4 x 18 8 x 18	
14	100	350	135	305	28	106.4	450	350	22	400	5	60	8 x 18	

Dimensions in [mm]

* Observe dimension k₂, with gearbox size 04 and motor frame size 090 dimension k₂/2 > h-a ** Further attachments in chapter 7

Dimensions – (Helical)-bevel gearboxes

Geared motors

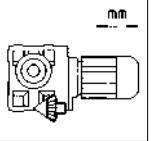


Geared motor GKS □□ - 3 M HAK								Motor frame size			
Motor	g	180		200		225					
	22	-32	-32	-12 / -22							
	g₁	Without options	350	388	433						
		Brake motor	270	291	319						
	g₂		270	309	327						
	k₁		350	400	450						
	k₂		567	605	661	693					
	Δk	Brake	300	300	300						
		Separate fan	145	175	200						
		Separate fan + brake	299	387	388						
			424	507	518						
Gearbox size	Gearbox								Total length		
	o	o₁*	p*	h	h₁	a	k₈	q	k		
	09	429	300	386	236	150	41	69	180	1234	1272
	11	527	350	485	300	185	54	70	205	1325	1363
	14	636	410	605	375	230	67	71	235	1424	1462
										1353	1444
										1506	1506

Gearbox size	Hollow shaft						Output flange						
	d H7	l	d₁	l₁	u JS9	t +0.2	a₂	b₂ j7	c₂	e₂	f₂	i₂	s₂
09	60 70	240	95	210	18 20	64.4 74.9	350	250	18	300	4	60	4x18
11	70 80	290	105	250	20 22	74.9 85.4	400	300 350	20 22	350 400	5	60	4x18 8x18
14	100	350	135	305	28	106.4	450	350	22	400	5	60	8x18

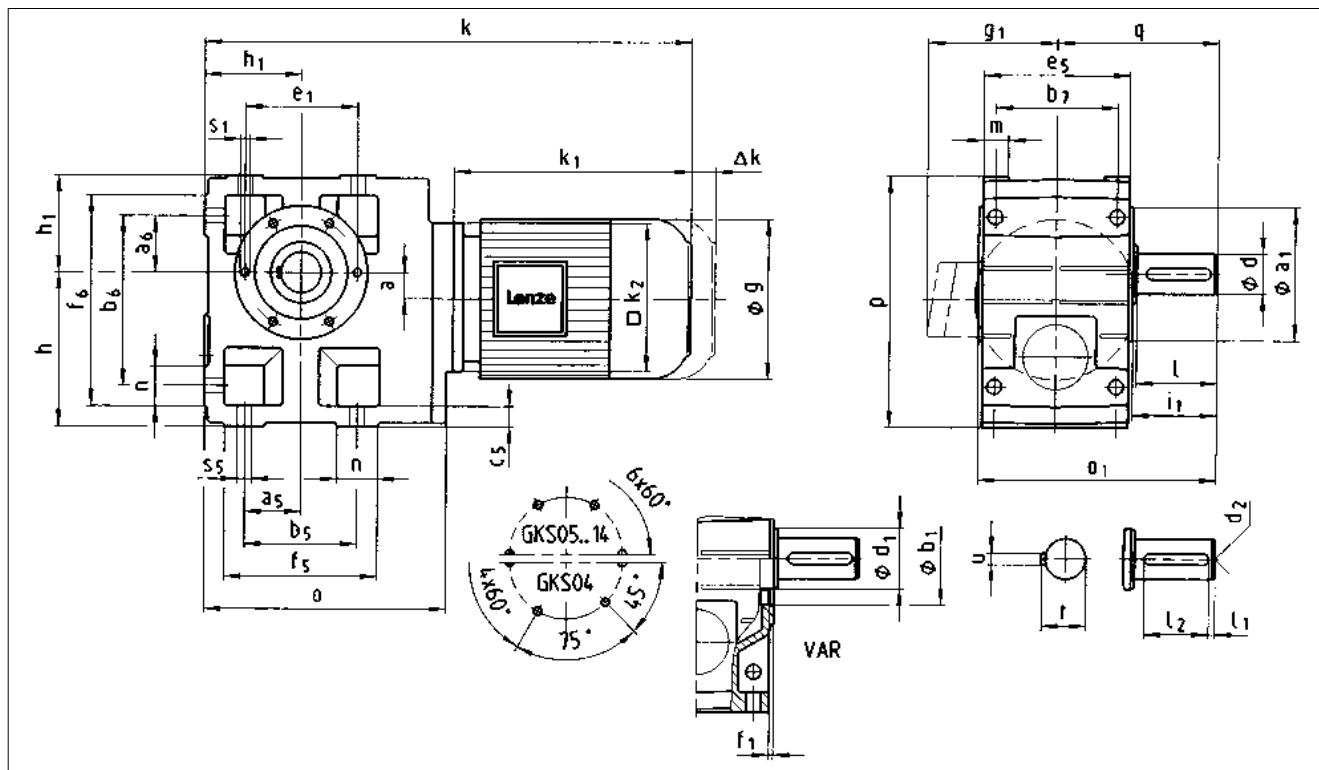
Dimensions in [mm]

* Observe k₂



Dimensions – (Helical)-bevel gearboxes

Geared motors



5

Geared motor GKS □□ - 3 M V□R	Motor frame size									
	063 -1□	071 -3□	080 -1□/-3□	090 -1□/-3□	100 -12/-31	112 -32/-41	132 -2□/-3□	160 -22/-32		
Motor	g	129	142	156	178	194	222	262	310	
	g₁ Without options	105	130	130	141	154	167	202	215	
	Brake motor	105	131	131	142	160	167	202	215	
	k₁	193	204	176	225	242	280	310	323	343
	k₂	100	145	145	180	180	222	265	300	
	Δk** Brake	56	66	68	74	94	101	127	113	
	Separate fan	71	80	94	101	97	95	104	113	
	Separate fan + brake	118	134	150	164	169	183	218	225	
Gearbox size	Gearbox						Total length			
	o	o₁*	p*	h*	h₁	a	q	k		
04	203	163	171	100	71	20	107.5	379	390	392
05	232	197	205	125	80	23	130		412	461
06	291	236	250	150	100	28	160		468	517
07	354	296	310	190	120	34	200		573	601
09	429	356	386	236	150	41	240			672
11	527	445	485	300	185	54	305			710
14	636	544	605	375	230	67	375			801
										849
										869
										849
										944
										997
										1041
										1096
										1140

Gearbox size	Solid shaft							Pitch circle							Foot											
	d	I	d ₁	I ₁	I ₂	d ₂	u	t	a ₁	b ₁	e ₁	f ₁	i ₁	s ₁	a ₅	a ₆	b ₅	b ₆	b ₇	c ₅	e ₅	f ₅	f ₆	n	m	s ₅
04	25	50	45	4	40	M10	8	28	105	75	90	3	52.5	M6x12	45	45	110	119	85	14	105	132	141	22	21	9
05	30	60	50	6	45	M10	8	33	118	80	100	4	64	M8x15	47.5	47.5	115	140	105	17	127	144	169	29	21	11
06	40	80	65	7	63	M16	12	43	140	100	120	4	85	M10x16	60	60	155	170	120	20	145	191	206	36	23	14
07	50	100	75	8	80	M16	14	53.5	165	115	140	5	105	M12x18	70	70	190	210	150	25	180	235	255	45	28	18
09	60	120	95	8	100	M20	18	64	205	145	175	6	125	M16x24	90	90	240	266	185	30	222	300	326	60	37	22
11	80	160	105	15	125	M20	22	74	240	170	205	6	166	M20x32	105	105	290	325	225	40	270	363	398	73	43	26
14	100	200	135	18	160	M24	28	106	290	210	250	6	207	M24x35	135	135	360	415	275	50	328	442	497	82	52	33

Dimensions in [mm]

d ≤ 50 mm: k6

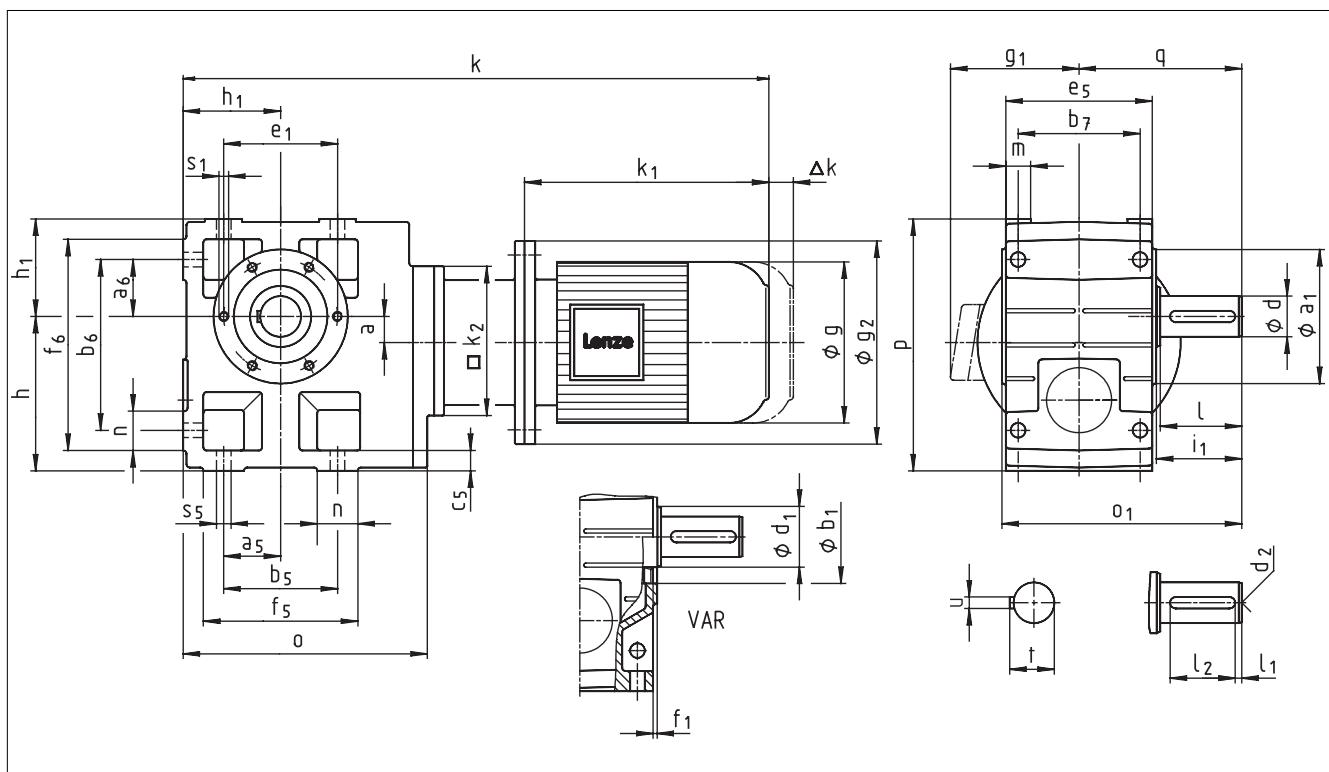
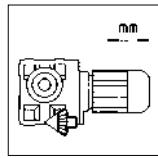
d > 50 mm: m6

* Observe dimension k₂, with gearbox size 04 and motor frame size 090 dimension k₂/2 > h-a

** Further attachments in chapter 7

Dimensions – (Helical)-bevel gearboxes

Geared motors



Geared motor GKS □□ - 3 M V□R							Motor frame size				
Motor							180	200	225		
							22	-32	-32	-12 / -22	
	g							350	388	433	
	g₁	Without options						270	291	319	
	Brake motor						270	309	327		
	g₂							350	400	450	
	k₁							567	605	661	693
	k₂							300	300	300	
	Δk	Brake						145	175	200	
							Separate fan	299	387	388	
							Separate fan + brake	424	507	518	
Gearbox size		Gearbox						Total length			k
09	429	356	386	236	150	41	240	1234	1272	1353	
11	527	445	485	300	185	54	305	1325	1363	1444	1506
14	636	544	605	375	230	67	375	1424	1462	1543	1605

Gearbox size	Solid shaft								Pitch circle					
	d	l	d₁	l₁	l₂	d₂	u	t	a₁	b₁	e₁	f₁	i₁	s₁
09	60	120	95	8	100	M20	18	64	205	145	175	6	125	M16x24
11	80	160	105	15	125	M20	22	85	240	170	205	6	166	M20x32
14	100	200	135	18	160	M24	28	106	290	210	250	6	207	M24x35

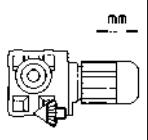
Gearbox size	Foot											
	a₅	a₆	b₅	b₆	b₇	c₅	e₅	f₅	f₆	n	m	s₅
09	90	90	240	266	185	30	222	300	326	60	37	22
11	105	105	290	325	225	40	270	363	398	73	43	26
14	135	135	360	415	275	50	328	442	497	82	52	33

Dimensions in [mm]

d ≤ 50 mm: k6

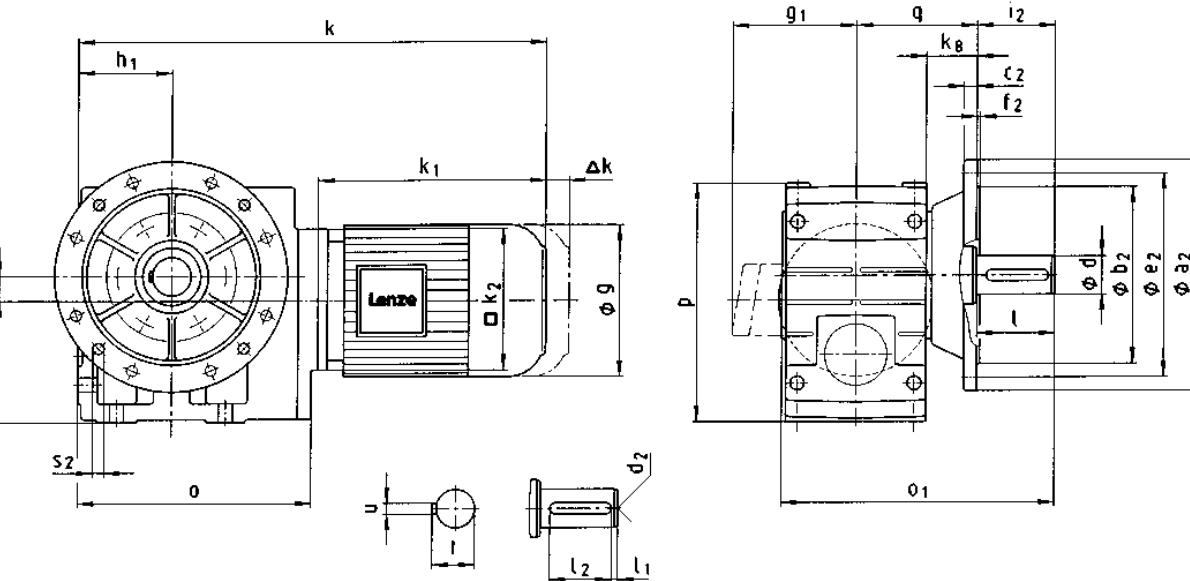
d > 50 mm: m6

* Observe k₂



Dimensions – (Helical)-bevel gearboxes

Geared motors



5

Geared motor GKS □□ - 3 M VAK								Motor frame size							
Motor	g	063		071		080		090		100		112		132	
		-1□	-3□	-1□/-3□	-1□/-3□	-1□/-3□	-1□/-3□	-12/-31	-32/-41	-22/-31	-32	-41	-2□/-3□	-22	-32
g	129	142	156	178	194	222	262	310							
g ₁ Without options	105	130	130	141	154	167	202	215							
g ₁ Brake motor	105	131	131	142	160	167	202	215							
k ₁	193	204	176	225	242	280	310	323	343	323	409	458	502		
k ₂	100	145	145	180	180	222	265	300							
Δk **	56	66	68	74	94	101	127	113							
Brake	71	80	94	101	97	95	104	113							
Separate fan	118	134	150	164	169	183	218	225							
Separate fan + brake															
Gearbox size	Gearbox								Total length						
	o	o₁*	p*	h*	h₁	a	k₈	q	k						
04	203	196	171	100	71	20	38	90.5	379	390	392	441	469		
05	232	230	205	125	80	23	40	103		412	461	489	527	557	
06	291	277	250	150	100	28	49	121		468	517	545	583	613	631
07	354	351	310	190	120	34	65	155		573	601	639	669	687	707
09	429	416	386	236	150	41	69	180			672	710	740	758	778
11	527	505	485	300	185	54	70	205				801	831	849	869
14	636	604	605	375	230	67	71	235					948	968	948
														1043	1096
															1140

Gearbox size	d	I	I₁	Solid shaft		d₂	u	t	a₂	b₂	c₂	Output flange			
				I₂	a							e₂	f₂	i₂	s₂
04	25	50	4	40	M10	8	28	160	110	10	130	3.5	50	4 x 9	
05	30	60	6	45	M10	8	33	200	130	12	165	3.5	60	4 x 11	
06	40	80	7	63	M16	12	43	250	180	14.5	215	4	80	4 x 14	
07	50	100	8	80	M16	14	53.5	250 300	180 230	14.5 16.5	215 265	4	100	4 x 14	
09	60	120	8	100	M20	18	64	350	250	18	300	4	120	4 x 18	
11	80	160	15	125	M20	22	85	400 450	300 350	20 22	350 400	5	160	4 x 18 8 x 18	
14	100	200	18	160	M24	28	106	450	350	22	400	5	200	8 x 18	

Dimensions in [mm]

d ≤ 50 mm: k6

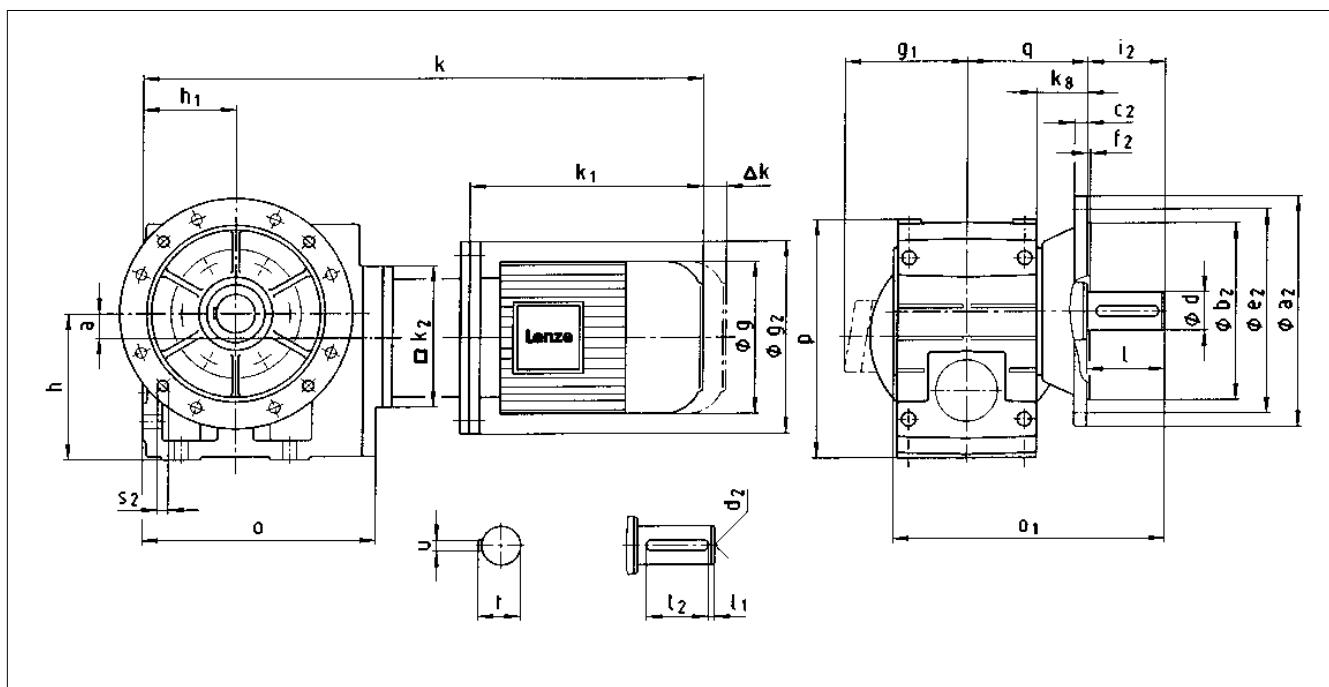
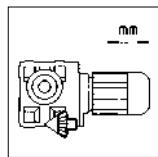
d > 50 mm: m6

* Observe dimension k₂, with gearbox size 04 and motor frame size 090 dimension k₂/2 > h-a

** Further attachments in chapter 7

Dimensions – (Helical)-bevel gearboxes

Geared motors



Geared motor GKS □□ - 3 M VAK								Motor frame size			
Motor	g	180		200		225					
	g₁	-22	-32	-32	-12 / -22						
	Without options	270		291	319						
	Brake motor	270		309	327						
	g₂	350		400	450						
	k₁	567	605	661	693						
	k₂	300		300	300						
	Δk	Brake	145	175	200						
		Separate fan	299	387	388						
		Separate fan + brake	424	507	518						
Gearbox size		Gearbox						Total length			
		o	o₁*	p*	h	h₁	a	k₈	q	k	
09		429	416	386	236	150	41	69	180	1234	1272
11		527	505	485	300	185	54	70	205	1325	1363
14		636	604	605	375	230	67	71	235	1424	1462

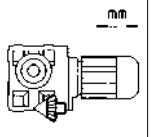
Gearbox size	d	l	l₁	Solid shaft			u	t	a₂	b₂	c₂	Output flange		
				d₂	u	t						e₂	f₂	i₂
09	60	120	8	100	M20	18	64	350	250	18	300	4	120	4x18
11	80	160	15	125	M20	22	85	400 450	300 350	20 22	350 400	5	160	4x18 8x18
14	100	200	18	160	M24	28	106	450	350	22	400	5	200	8x18

Dimensions in [mm]

$d \leq 50$ mm: k_6

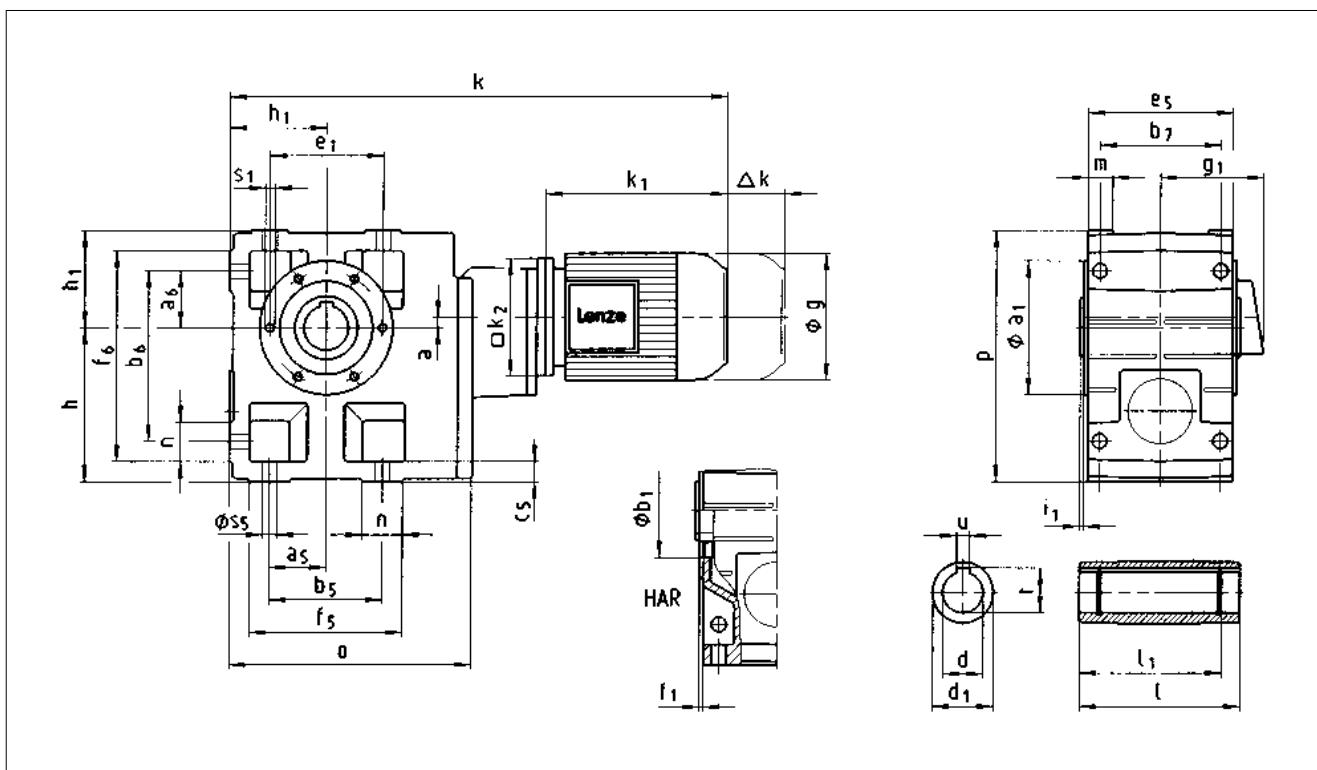
$d > 50$ mm: m_6

* Observe k_2



Dimensions – (Helical)-bevel gearboxes

Geared motors



5

Geared motor GKS □□ - 4 M H□R							Motor frame size											
Motor	g						063	071	080	090	100	112	132	160				
	g ₁	Without options					-1□	-3□	-1□/-3□	-1□/-3□	-12/-31	-32/-41	-22/-31	-32	-41	-2□/-3□	-22	-32
	g						129	142	156	178	194	222	262	310				
	g ₁	Without options					105	130	130	141	154	167	202	215				
		Brake motor					105	131	131	142	160	167	202	215				
	k ₁		193	204	176	225	242				280	310	323	343	323	409	458	502
	k ₂				100	145	145	180			180		222		265	300		
	Δk **	Brake					56	66	68	74	94	101	127	113				
		Separate fan					71	80	94	101	97	95	104	113				
		Separate fan + brake					118	134	150	164	169	183	218	225				
Gearbox size	Gearbox						Total length k											
05	o	I*	p*	h	h ₁	a	476	487	489	538	565							
06	226	140	205	125	80	13												
06	288	160	250	150	100	8	549	560	562	611	638							
07	351	200	310	190	120	11		629	678	705	743	773						
09	426	240	386	236	150	15		718	767	794	832	862	881	901	881			
11	523	290	485	300	185	16			877	904	942	972	991	1011	991	1085		
14	632	350	605	375	230	22				1037	1075	1105	1124	1144	1124	1218	1272	1316

Gearbox size	Hollow shaft					Pitch circle					Foot													
	d	I	d ₁	I ₁	u	t	a ₁	b ₁	e ₁	f ₁	i ₁	s ₁	a ₅	a ₆	b ₅	b ₆	b ₇	c ₅	e ₅	f ₅	f ₆	n	m	s ₅
05	30	140	50	124	8	33.3	118	80	100	4	4	M8x15	47.5	47.5	115	140	105	17	127	144	169	29	21	11
06	40	160	65	140	12	43.3	140	100	120	4	5	M10x16	60	60	155	170	120	20	145	191	206	36	23	14
07	50	200	75	175	14	53.8	165	115	140	5	5	M12x18	70	70	190	210	150	25	180	235	255	45	28	18
09	60	240	95	210	18	64.4	205	145	175	6	5	M16x24	90	90	240	266	185	30	222	300	326	60	37	22
11	70	290	105	250	20	74.9	240	170	205	6	6	M20x32	105	105	290	325	225	40	270	363	398	73	43	26
14	100	350	135	305	28	106.4	290	210	250	6	7	M24x35	135	135	360	415	275	50	328	442	497	82	52	33

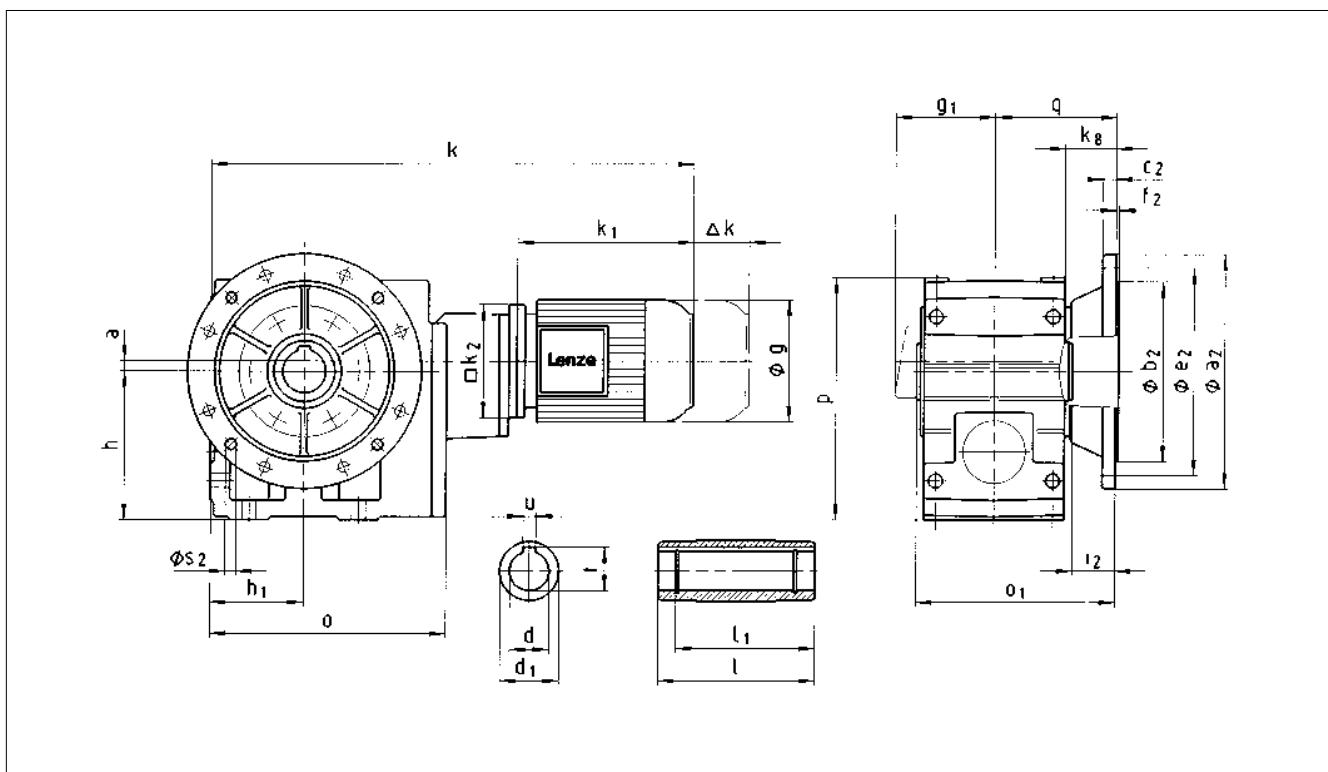
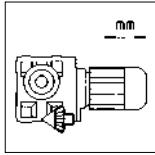
Dimensions in [mm]

* Observe k₂

**Further attachments in chapter 7

Dimensions – (Helical)-bevel gearboxes

Geared motors



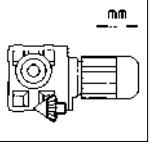
Geared motor GKS □□ - 4 M HAK								Motor frame size										
Motor	g	063		071		080		090		100		112		132		160		
		-1□	-3□	1□/-3□	1□/-3□	1□/-3□	-12/-31	-32/-41	22/-31	-32	-41	2□/-3□	22	-32	2□/-3□	22	-32	
	g₁	Without options		129	142	156	178	194		222		262		310				
	g₁	Brake motor		105	130	130	141	154		167		202		215				
	k₁	193	204	176	225	242	280	310	323	343	323	409	458	502				
	k₂	100		145	145	180	180	180		222		265		300				
	Δk**	Brake		56	66	68	74	94		101		127		113				
		Separate fan		71	80	94	101	97		95		104		113				
		Separate fan + brake		118	134	150	164	169		183		218		225				
Gearbox size	Gearbox								Total length									
	o	o₁*	p*	h	h₁	a	k₈	q	a₂	b₂ j7	c₂	e₂	f₂	i₂	s₂			
05	226	173	205	125	80	13	40	103	476	487	489	538	565					
06	288	201	250	150	100	8	49	121	549	560	562	611	638					
07	351	255	310	190	120	11	65	155		629	678	705	743	773				
09	426	300	386	236	150	15	69	180		718	767	794	832	862	881	901	881	
11	523	350	485	300	185	16	70	205		877	904	942	972	991	1011	991	1085	
14	632	410	605	375	230	22	71	235			1037	1075	1105	1124	1144	1124	1218	1272
																	1316	

Gearbox size	d H7	I	Hollow shaft			u JS9	t	a₂	b₂ j7	c₂	Output flange				
			d₁	l₁	l						e₂	f₂	i₂	s₂	
05	30 35	140	50	124		8 10	33.3 38.8	200	130	12	165	3.5	33	4x11	
06	40 45	160	65	140		12 14	43.3 48.8	200 250	130 180	12	165 215	3.5 4	42 41	4x11 4x14	
07	50 55	200	75	175		14 16	53.8 59.3	250 300	180 230	14.5 16.5	215 265	4	55	4x14	
09	60 70	240	95	210		18 20	64.4 74.9	350	250	18	300	4	60	4x18	
11	70 80	290	105	250		20 22	74.9 85.4	400 450	300 350	20 22	350 400	5	60	4x18 8x18	
14	100	350	135	305		28	106.4	450	350	22	400	5	60	8x18	

Dimensions in [mm]

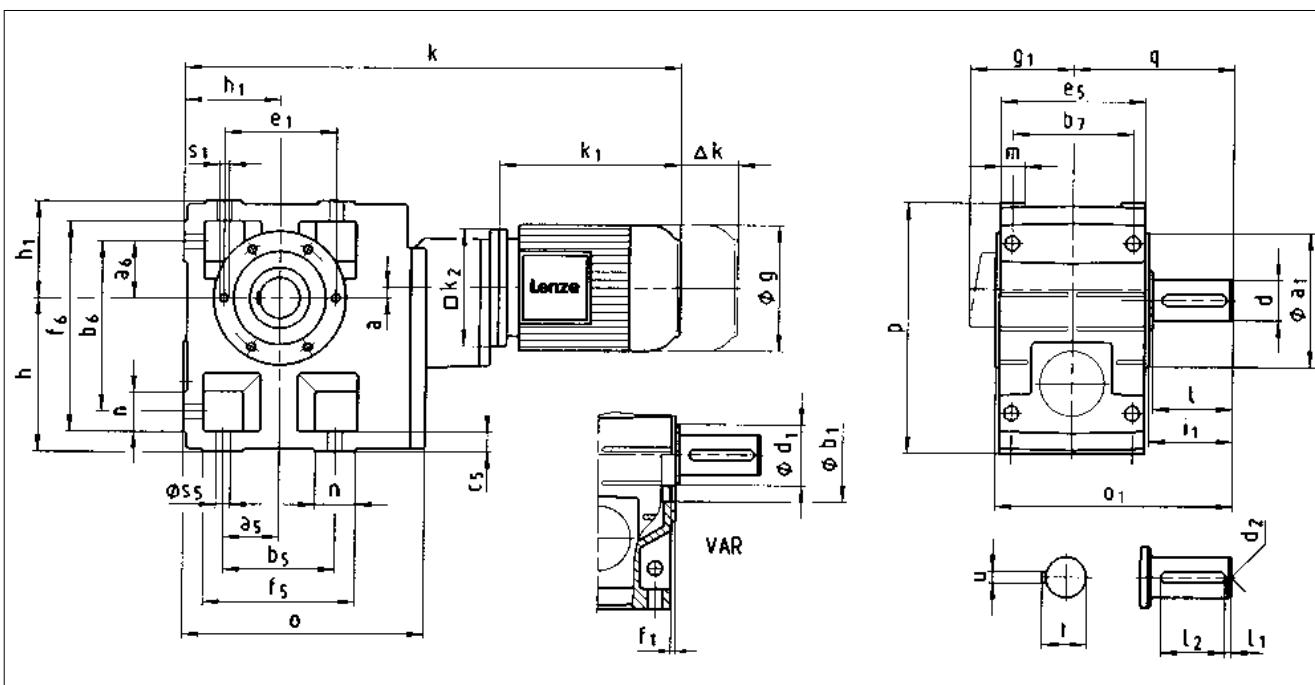
* Observe k₂

** Further attachments in chapter 7



Dimensions – (Helical)-bevel gearboxes

Geared motors



Geared motor GKS □□ - 4 M V□R							Motor frame size														
Motor	g	063		071		080		090		100		112		132		160					
		-1□	-3□	-1□/-3□	-1□/-3□	-1□/-3□	-1□/-3□	-12/-31	-32/-41	-22/-31	-32	-41	-2□/-3□	-22	-32	-32					
	g₁	Without options		105	130	130	141	154		194		222	262	310							
		Brake motor		105	131	131	142	160		160		167	202	215							
	k₁	193	204	176	225	242	280	310	323	343	323	409	458	502							
	k₂	100	145	145	180	180	180		222		265	300									
	Δk**	Brake		56	66	68	74	94		101		127	113								
		Separate fan		71	80	94	101	97		95		104	113								
		Separate fan + brake		118	134	150	164	169		183		218	225								
Gearbox size	Gearbox							Total length k													
	o	o₁*	p*	h	h₁	a	q	d	l	d₁	l₁	d₂	u	t	a₁	b₁	e₁	f₁	i₁	s₁	
05	226	197	205	125	80	13	130	476	487	489	538	565									
06	288	236	250	150	100	8	160	549	560	562	611	638									
07	351	296	310	190	120	11	200		629	678	705	743	773								
09	426	356	386	236	150	15	240		718	767	794	832	862	881	901	881					
11	523	445	485	300	185	16	305			877	904	942	972	991	1011	991	1085				
14	632	544	605	375	230	22	375				1037	1075	1105	1124	1144	1124	1218	1272	1316		

Gearbox size	Solid shaft								Pitch circle							
	d	l	d₁	l₁	d₂	u	t	a₁	b₁	e₁	f₁	i₁	s₁			
05	30	60	50	6	45	M10	8	33	118	80	100	4	64	M8x15		
06	40	80	65	7	63	M16	12	43	140	100	120	4	85	M10x16		
07	50	100	75	8	80	M16	14	53.5	165	115	140	5	105	M12x18		
09	60	120	95	8	100	M20	18	64	205	145	175	6	125	M16x24		
11	80	160	105	15	125	M20	22	85	240	170	205	6	166	M20x32		
14	100	200	135	18	160	M24	28	106	290	210	250	6	207	M24x35		

Gearbox size	Foot											
	a₅	a₆	b₅	b₆	b₇	c₅	e₅	f₅	f₆	n	m	s₅
05	47.5	47.5	115	140	105	17	127	144	169	29	21	11
06	60	60	155	170	120	20	145	191	206	36	23	14
07	70	70	190	210	150	25	180	235	255	45	28	18
09	90	90	240	266	185	30	222	300	326	60	37	22
11	105	105	290	325	225	40	270	363	398	73	43	26
14	135	135	360	415	275	50	328	442	497	82	52	33

Dimensions in [mm]

d ≤ 50 mm: k6

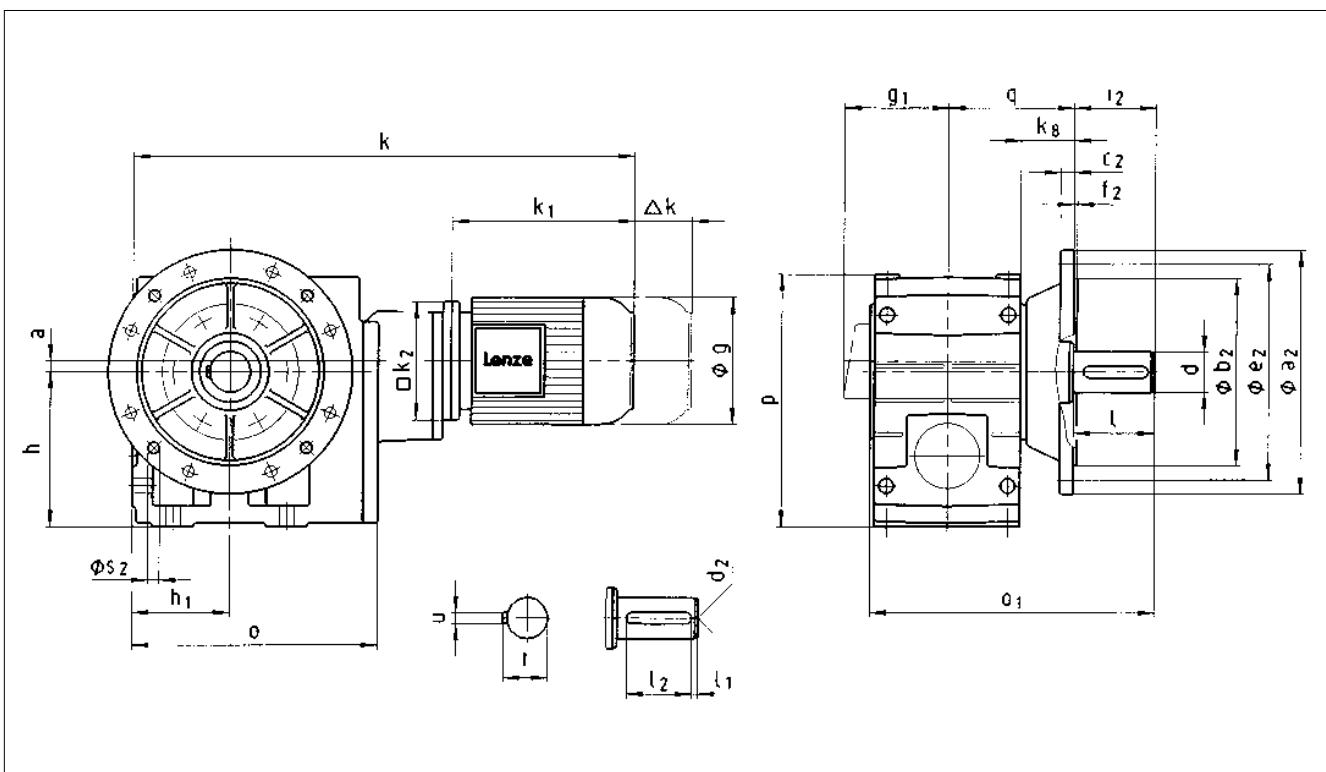
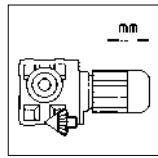
d > 50 mm: m6

Observe k2

** Further attachments in chapter 7

Dimensions – (Helical)-bevel gearboxes

Geared motors



Geared motor GKS □□ - 4 M VAK								Motor frame size									
Motor	g	063		071		080		090		100		112		132		160	
		-1□	-3□	1□/-3□	1□/-3□	1□/-3□	-12/-31	-32/-41	22/-31	-32	-41	2□/-3□	22	-32	2□/-3□	22	-32
	g	129	142	156	178	194			222		262		310				
	g₁	Without options	105	130	130	141			167		202		215				
		Brake motor	105	131	131	142			160		167		202				
	k₁	193	204	176	225	242	280	310	323	343	323	409	458	502			
	k₂	100	145	145	180	180			222		265		300				
	Δk**	Brake	56	66	68	74	94		101		127		113				
		Separate fan	71	80	94	101	97		95		104		113				
		Separate fan + brake	118	134	150	164	169		183		218		225				
Gearbox size	Gearbox								Total length								
	o*	o₁*	p*	h	h₁	a	k₈	q	k								
05	226	230	205	125	80	13	40	103	476	487	489	538	565				
06	288	277	250	150	100	8	49	121	549	560	562	611	638				
07	351	351	310	190	120	11	65	155		629	678	705	743	773			
09	426	416	386	236	150	15	69	180		718	767	794	832	862	881	901	881
11	523	505	485	300	185	16	70	205			877	904	942	972	991	1011	991
14	632	604	605	375	230	22	71	235				1037	1075	1105	1124	1144	1124

Gearbox size	Solid shaft							Output flange									
	d	l	l₁	l₂	d₂	u	t	a₂	b₂ j7	c₂	e₂	f₂	i₂	s₂			
05	30	60	6	45	M10	8	33	200	130	12	165	3.5	60	4x11			
06	40	80	7	63	M16	12	43	250	180	14.5	215	4	80	4x14			
07	50	100	8	80	M16	14	53.5	250 300	180 230	14.5 16.5	215 265	4	100	4x14			
09	60	120	8	100	M20	18	64	350	250	18	300	4	120	4x18			
11	80	160	15	125	M20	22	85	400 450	300 350	20 22	350 400	5	160	4x18 8x18			
14	100	200	18	160	M24	28	106	450	350	22	400	5	200	8x18			

Dimensions in [mm]

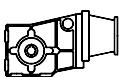
d ≤ 50 mm: k6

d > 50 mm: m6

* Observe k₂

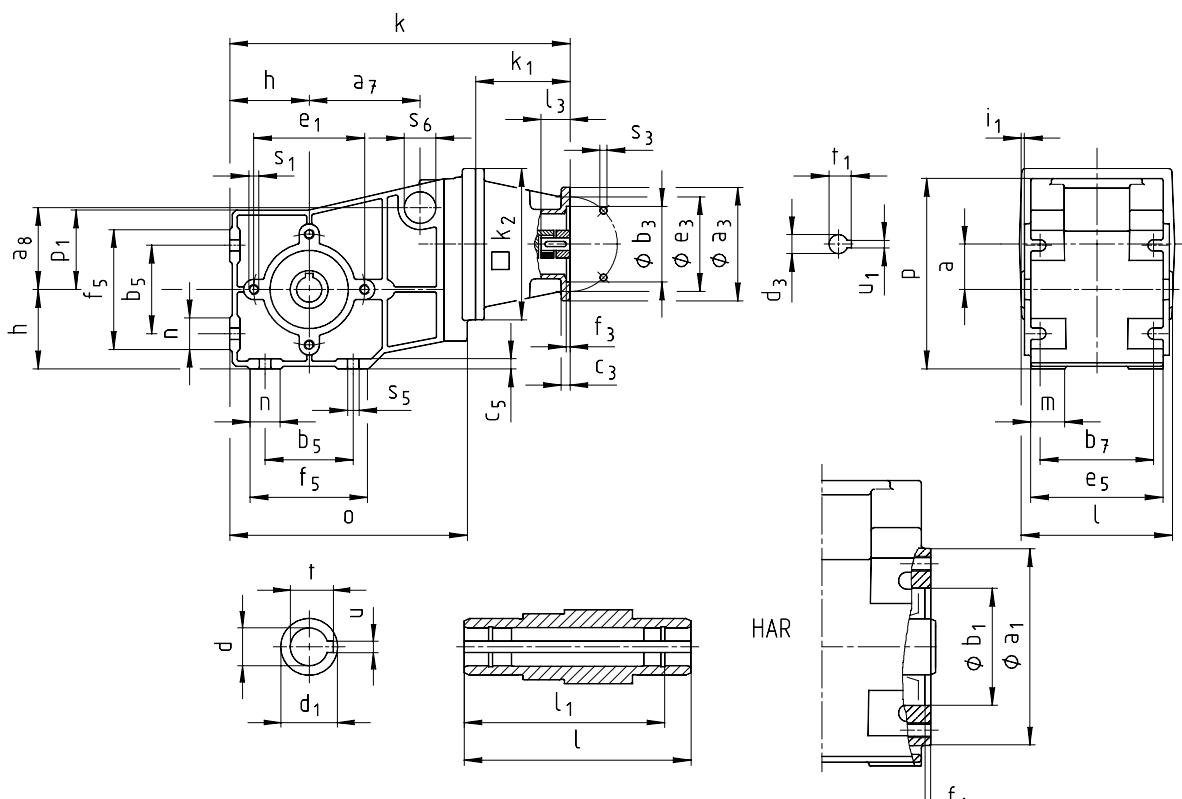
** Further attachments in chapter 7

mm



Dimensions – (Helical)-bevel gearboxes

Gearbox with mounting flange for IEC standard motors



5

Gearbox						Drive size						
GKR□□ - 2N H□R						1A 63	1B 71	2B 63	1C 80	2C	3C 71	4C 71
corresponds to IEC motor	Housing	k₁	75	77	75	91	91	91	91	91	91	91
		k₂	120	145	120	145	145	145	145	145	145	145
Flange	a₃	90	105	90	160	160	105	105	105	120		
	b₃ H8	60	70	60	110	110	70	70	70	80		
	c₃	7	8	7	10	10	8	8	8	8		
	e₃	75	85	75	130	130	85	85	85	100		
	f₃	3	3	3	4	4	3	3	3	3.5		
	s₃ 4x	5.5	6.6	5.5	9	9	6.6	6.6	6.6	6.6		
Required	d₃	11	14	11	19	14	14	14	14	14		
motor shaft	l₃ min	23	30	23	25	25	25	25	25	25		
	l₃ max	23	30	23	40	40	40	40	40	40		
	u₁	4	5	4	6	5	5	5	5	5		
	t₁	12.5	16	12.5	21.5	16	16	16	16	16		
Gearbox size	Gearbox						Total length					
04	I	p	p ₁	a	h	o	k					
	120	151	63	36	63	189	271	278	271	292		

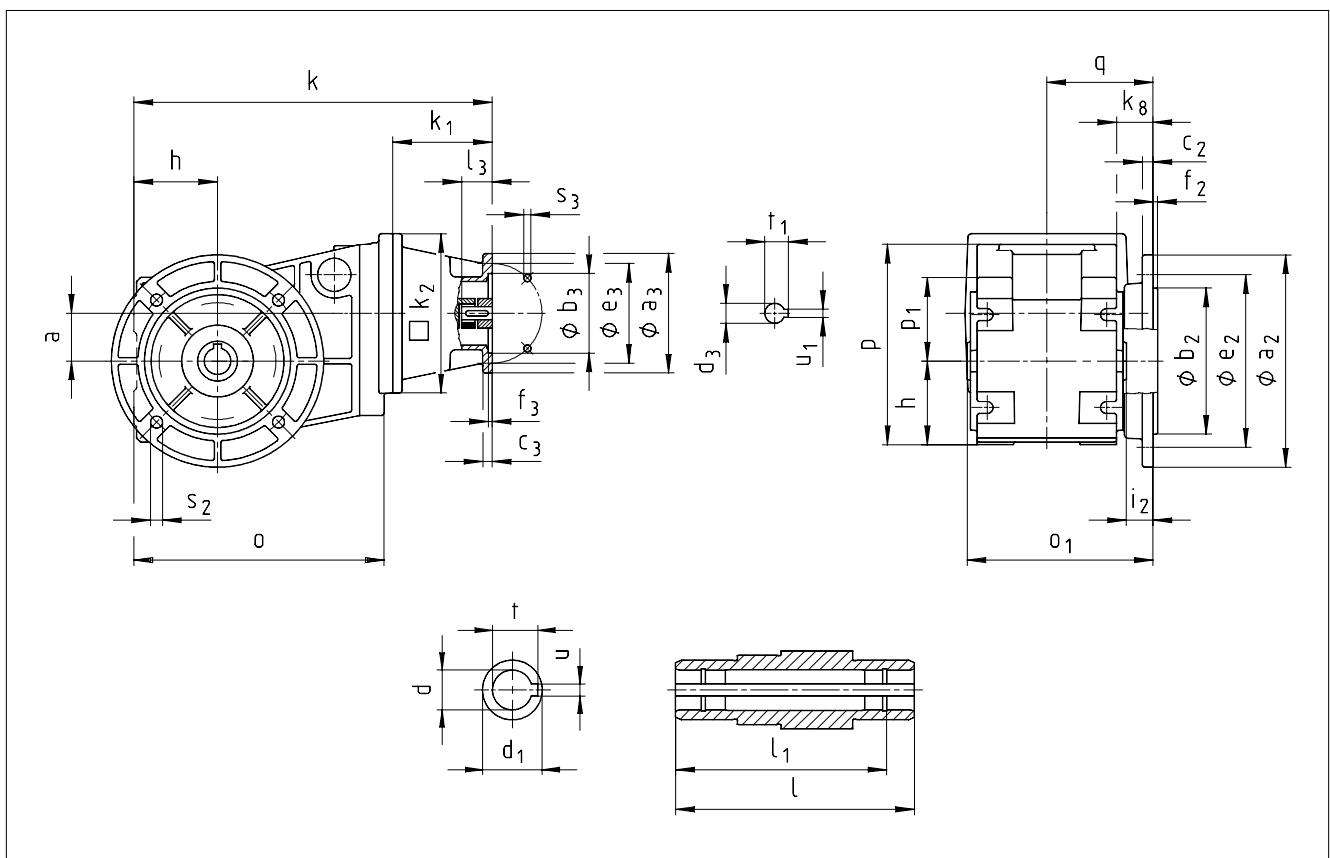
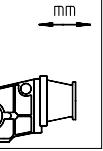
Gearbox size	Hollow shaft						Pitch circle					
	d H7	I	d ₁	l ₁	u JS9	t ¹⁾ +0.1	a ₁	b ₁ J7	e ₁	f ₁	i ₁	s ₁
04	20 25	120	30 35	106	6 8	22.8 27.0	104	62	88	3	2.5	M8 x 16

Gearbox size	b ₅	b ₇	c ₅	e ₅	f ₅	n	m	s ₅	a ₇	a ₈	s ₆
	70	90	8	105	95	25	28	9	88	65	25 x 17

Dimensions in [mm] ¹⁾ If the hollow shaft diameter is d=25 mm use a flat key to DIN 6885/3

Dimensions – (Helical)-bevel gearboxes

Gearbox with mounting flange for IEC standard motors



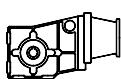
5

Gearbox GKR□□ - 2N HAK							Drive size						
corresponds to IEC motor							1A 63	1B 71	2B 63	1C 80	2C	3C 71	4C 71
Housing	k₁	75	77	75	91	91	91	91	91	91	91	91	91
	k₂	120	145	120	145	145	145	145	145	145	145	145	145
Flange	a₃	90	105	90	160	160	105	120	110	110	70	80	80
	b₃ H8	60	70	60	110	110	70	80	110	110	70	80	80
	c₃	7	8	7	10	10	8	8	10	10	8	8	8
	e₃	75	85	75	130	130	85	100	130	130	85	100	100
	f₃	3	3	3	4	4	3	3.5	4	4	3	3.5	3.5
	s₃ 4x	5.5	6.6	5.5	9	9	6.6	6.6	9	9	6.6	6.6	6.6
Required	d₃	11	14	11	19	14	14	14	14	14	14	14	14
motor shaft	l₃ min	23	30	23	25	25	25	25	25	25	25	25	25
	l₃ max	23	30	23	40	40	40	40	40	40	40	40	40
	u₁	4	5	4	6	5	5	5	5	5	5	5	5
	t₁	12.5	16	12.5	21.5	16	16	16	16	16	16	16	16
Gearbox size	Gearbox							Total length					
04	o₁	p	p₁	a	h	k₈	o	k	271	278	271	292	

Gearbox size	Hollow shaft							Output flange					
	d H7	I	d₁	l₁	u JS9	t¹⁾ +0.1	a₂	b₂ j7	c₂	e₂	f₂	i₂	s₂ 4x90°
04	20 25	120	30 35	106	6 8	22.8 27	120 160	80 110	8.0	100 130	3 3.5	20	7 9

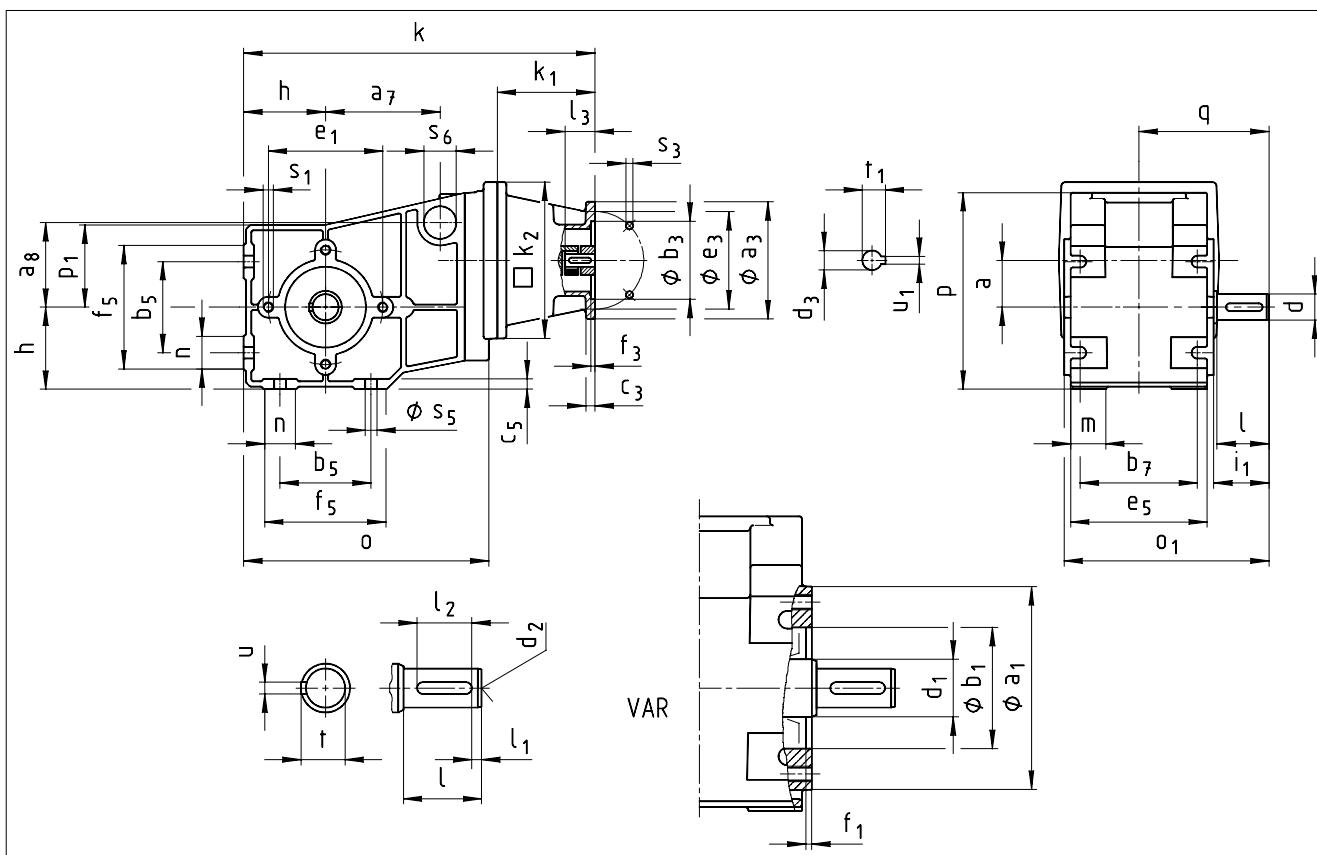
Dimensions in [mm] ¹⁾ If the hollow shaft diameter is d=25 mm use a flat key to DIN 6885/3

mm



Dimensions – (Helical)-bevel gearboxes

Gearbox with mounting flange for IEC standard motors



5

Gearbox							Drive size						
GKR□□ - 2N V□R							1A 63	1B 71	2B 63	1C 80	2C	3C 71	4C 71
corresponds to IEC motor							75	77	75	91	91	91	91
Housing							k₁	75	77	75	91	91	91
							k₂	120	145	120	145	145	145
Flange							a₃	90	105	90	160	160	105
							b₃H8	60	70	60	110	110	70
							c₃	7	8	7	10	10	8
							e₃	75	85	75	130	130	100
							f₃	3	3	3	4	4	3
							s₃4x	5.5	6.6	5.5	9	9	6.6
Required							d₃	11	14	11	19	14	14
motor shaft							l₃ min	23	30	23	25	25	25
							l₃ max	23	30	23	40	40	40
							u₁	4	5	4	6	5	5
							t₁	12.5	16	12.5	21.5	16	16
Gearbox size	Gearbox						Total length						
04	158	151	63	36	63	189	o	p	q	k	292		

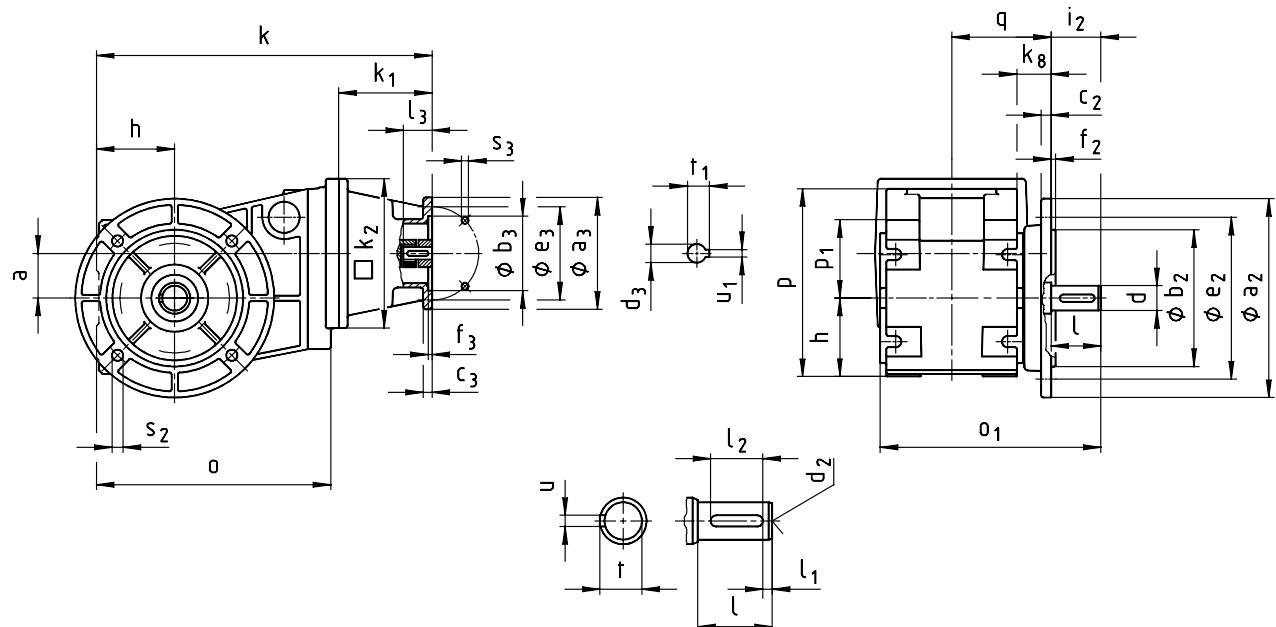
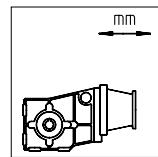
Gearbox size	Solid shaft							Pitch circle						
	d k6	l	d₁	l₁	l₂	d₂	u	t	a₁	b₁ J7	e₁	f₁	i₁	s₁
04	20	40	30	5	28	M6	6	22.5	104	62	88	3	42.5	M8x16

Gearbox size	b₅	b₇	c₅	e₅	f₅	n	m	s₅	Torque plate				
	a₇	a₈	s₆										
04	70	90	8	105	95	25	28	9	88	65	25x17		

Dimensions in [mm]

Dimensions – (Helical)-bevel gearboxes

Gearbox with mounting flange for IEC standard motors



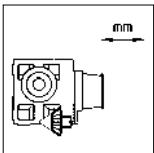
5

Gearbox size	corresponds to IEC motor							Drive size						
								1A 63	1B 71	2B 63	1C 80	2C	3C 71	4C 71
Housing	k_1	75	77	75	91	91	91	91	91	145	145	145	145	145
	k_2	120	145	120	145	145	145	145	145	145	145	145	145	145
Flange	a_3	90	105	90	160	160	160	160	160	120	120	120	120	120
	b_3 H8	60	70	60	110	110	110	110	110	80	80	80	80	80
	c_3	7	8	7	10	10	10	10	10	8	8	8	8	8
	e_3	75	85	75	130	130	130	130	130	100	100	100	100	100
	f_3	3	3	3	4	4	4	4	4	3.5	3.5	3.5	3.5	3.5
	s_3 4x	5.5	6.6	5.5	9	9	9	9	9	6.6	6.6	6.6	6.6	6.6
Required motor shaft	d_3	11	14	11	19	14	14	14	14	14	14	14	14	14
	l_3 min	23	30	23	25	25	25	25	25	25	25	25	25	25
	l_3 max	23	30	23	40	40	40	40	40	40	40	40	40	40
	u_1	4	5	4	6	5	5	5	5	5	5	5	5	5
	t_1	12.5	16	12.5	21.5	16	16	16	16	16	16	16	16	16
Gearbox size	Gearbox							Total length k						
04	178	151	63	36	63	189	80.5	28	271	278	271	292		

Garbox size	d k6	I	l_1	l_2	d_2	u	t
04	20	40	5	28	M6	6	22.5

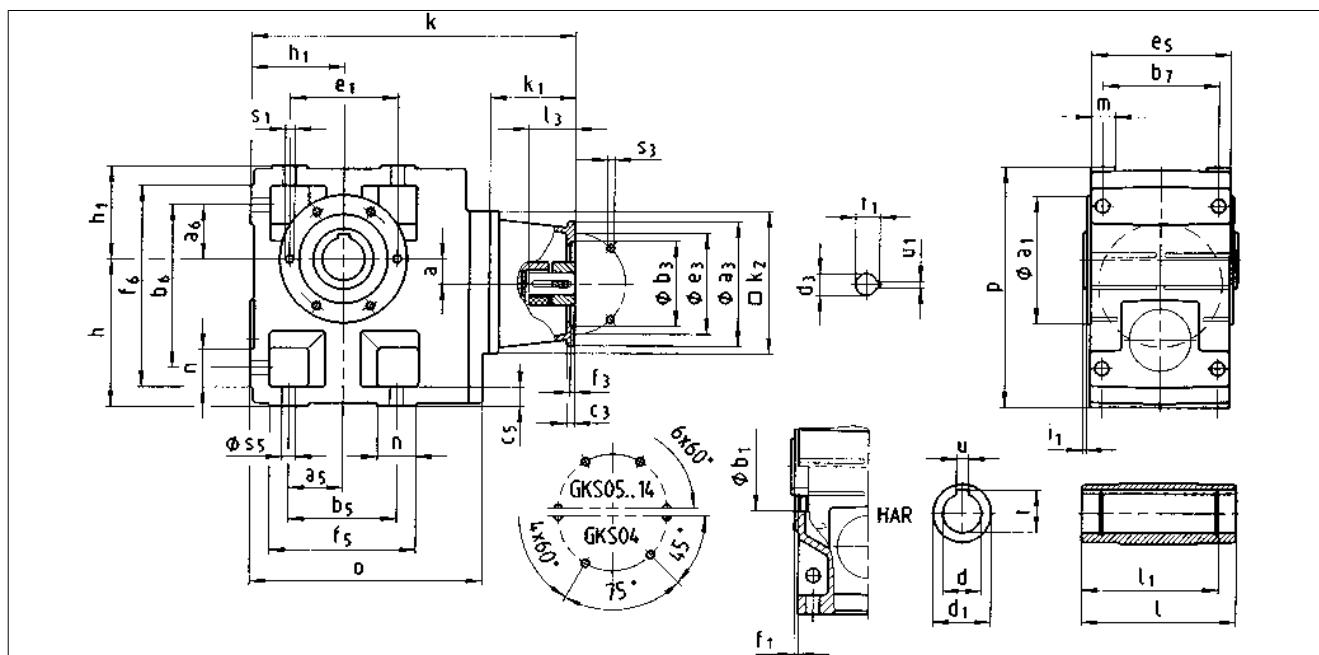
Garbox size	a_2	b_2 j7	c_2	Output flange	e_2	f_2	i_2	s_2 4x90°
04	120 160	80 110	8	100 130	3 3.5	40	7 9	

Dimensions in [mm]



Dimensions – (Helical)-bevel gearboxes

Gearbox with mounting flange for IEC standard motors



Gearbox		Drive size																				
GKS □□ - 3N H□R corresponds to IEC motor		1A 63	1B 71	2B 63	1C 80	2C 71	3C 71	4C 90	1D 80	2D 100	1E 90	2E 80	3E 100	1F 90	2F 132	1G 100	2G 160	1H 132	2H 180	3H 200	1K 225	
Housing	<i>k₁</i>	75	77	75		91			115		110			139	180	160	218	218	188	243	273	
	<i>k₂</i>	120	145	120		145			180		180			180	265		300			300		
Flange	<i>a₃</i>	90	105	90	160	160	105	120	160		160			160	300	250	350	350	300	400	450	
	<i>b₃</i> H8	60	70	60	110	110	70	80	110		110			110	230	180	250	250	230	300	350	
	<i>c₃</i>	7	8	7	10	10	8	8	10		10			10	18		20	20	18	20		
	<i>e₃</i>	75	85	75	130	130	85	100	130		130			130	265	215	300	300	265	350	400	
	<i>f₃</i>	3	3	4	4	3	3.5	4	4		4			4	4.5		6	6	4.5	6		
	<i>s₃</i> 4 x 8 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9	13.5		17.5	17.5	13.5	17.5		
Required motor shaft	<i>d₃</i>	11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	42	48	38	55	60
	<i>l₃</i> min	23	30	23		25			50	40	30			30	80	60	110	110	80	110	140	
	<i>l₃</i> max	23	30	23		40			50	50	60			60	80	60	110	110	80	110	140	
	<i>u₁</i>	4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	12	14	10	16	18
	<i>t₁</i>	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	45	51.5	41	59	64
Gearbox size	Gearbox					Total length																
04	<i>o</i>	<i>l[*]</i>	<i>p[*]</i>	<i>h[*]</i>	<i>h₁</i>	<i>a</i>																
04	203	115	171	100	71	20	287	294	287		308			342								
05	232	140	205	125	80	23	314			328			362		357							
06	291	160	250	150	100	28	370			384			418		413		442					
07	354	200	310	190	120	34				440			474		469		498	553	533	596	566	
09	429	240	386	236	150	41					545			540		569	624	604	667	667	637	692
11	527	290	485	300	185	54						631		660	715	695	758	758	728	783	813	
14	636	350	605	375	230	67									814	794	857	857	827	882	912	

Gearbox size	Hollow shaft					Pitch circle					Foot													
	<i>d</i> H7	<i>l</i>	<i>d₁</i>	<i>l₁</i>	<i>u</i> JS9	<i>t</i> +0.2	<i>a₁</i> H7	<i>b₁</i>	<i>e₁</i>	<i>f₁</i>	<i>i₁</i>	<i>s₁</i>	<i>a₅</i>	<i>a₆</i>	<i>b₅</i>	<i>b₆</i>	<i>b₇</i>	<i>c₅</i>	<i>e₅</i>	<i>f₅</i>	<i>f₆</i>	<i>n</i>	<i>m</i>	<i>s₅</i>
04	25 30	115	45	100	8 8	28.3 33.3	105	75	90	3	2.5	M6x12	45	45	110	119	85	14	105	132	141	22	21	9
05	30 35	140	50	124	8 10	33.3 33.3	118	80	100	4	4	M8x15	47.5	47.5	115	140	105	17	127	144	169	29	21	11
06	40 45	160	65	140	12 14	43.3 48.8	140	100	120	4	5	M10x16	60	60	155	170	120	20	145	191	206	36	23	14
07	50 55	200	75	175	14 16	53.8 59.3	165	115	140	5	5	M12x18	70	70	190	210	150	25	180	235	255	45	28	18
09	60 70	240	95	210	18 20	64.4 74.9	205	145	175	6	5	M16x24	90	90	240	266	185	30	222	300	326	60	37	22
11	70 80	290	105	250	20 22	74.9 85.4	240	170	205	6	6	M20x32	105	105	290	325	225	40	270	363	398	73	43	26
14	100	350	135	305	28	106.4	290	210	250	6	7	M24x35	135	135	360	415	275	50	328	442	497	82	52	33

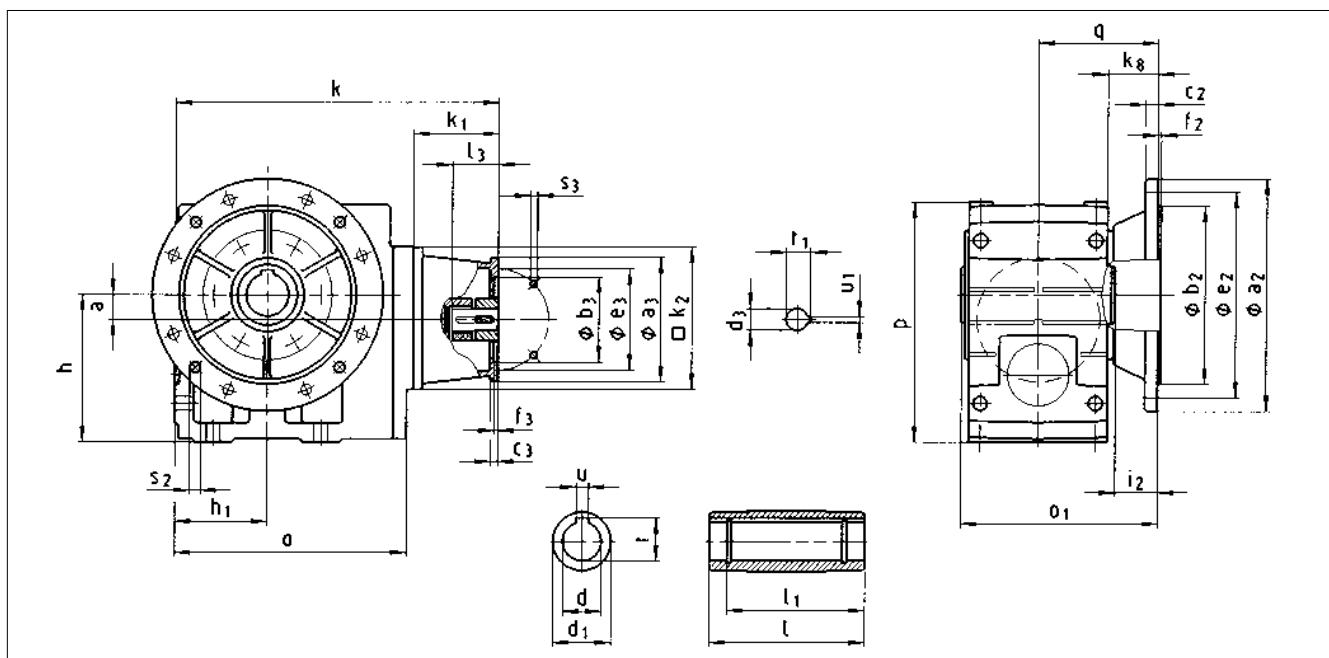
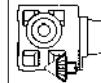
Dimensions in [mm]

* Observe dimension *k₂*, with gearbox size 04 and motor frame size 090 dimension *k₂*/2 > h-a

Dimensions – (Helical)-bevel gearboxes

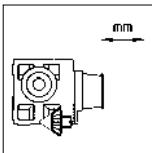
Gearbox with mounting flange for IEC standard motors

mm



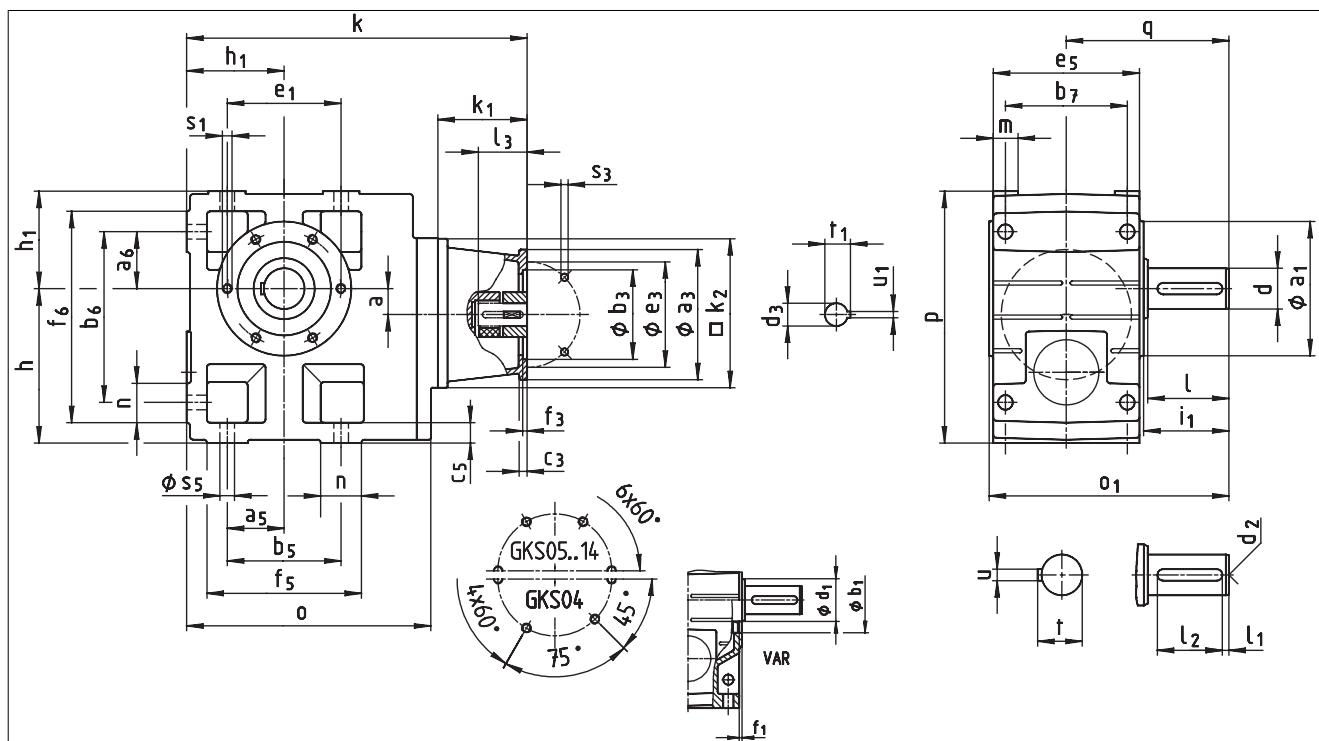
Gearbox		Drive size																					
GKS □□ - 3 N HAK corresponds to IEC motor		1A 63	1B 71	2B 63	1C 80	2C 71	3C 71	4C 90	1D 80	2D 100	1E 90	2E 80	3E 100	1F 90	2F 132	1G 100	2G 160	1H 180	2H 132	3H 200	1K 225	2K 273	
Housing	k_1	75	77	75		91		115		110		139		180	160	218	218	188	243	273			
	k_2	120	145	120		145		180		180		180		265		300		300		300			
Flange	a_3	90	105	90	160	160	105	120	160		160		160	300	250	350	350	300	400	450			
	b_3 H8	60	70	60	110	110	70	80	110		110		110	230	180	250	250	230	300	350			
	c_3	7	8	7	10	10	8	8	10		10		10	18	20	20	20	18	20	20			
	e_3	75	85	75	130	130	85	100	130		130		130	265	215	300	300	265	350	400			
	f_3	3	3	3	4	4	3	3.5	4		4		4	4.5	6	6	6	4.5	6	6			
	s_3 4 x 8 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9		9	13.5	17.5	17.5	17.5	17.5	17.5	17.5			
Required motor shaft	d_3	11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	42	48	55	60		
	l_3 min	23	30	23		25		50	40		30		30	80	60	110	110	80	110	140			
	l_3 max	23	30	23		40		50	50		60		60	80	60	110	110	80	110	140			
	u_1	4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	12	14	10	18		
	t_1	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	45	51.5	41	59	64	
Gearbox size	Gearbox																		Total length				
04	203	148	171	100	71	20	38	90.5	287	294	287		308		342								
05	232	173	205	125	80	23	40	103		314		328		362		357							
06	291	201	250	150	100	28	49	121		370		384		418		413		442					
07	354	255	310	190	120	34	65	155			440		474		469		498		553	533	596	566	
09	429	300	386	236	150	41	69	180				545		540		569		624	604	667	667	637	692
11	527	350	485	300	185	54	70	205					631		660		715	695	758	758	728	783	813
14	636	410	605	375	230	67	71	235								814	794	857	857	827	882	912	

Gearbox size	d H7	l	Hollow shaft				a ₂	b ₂ J7	c ₂	Output flange			
			d ₁	l ₁	u JS9	t +0.2				e ₂	f ₂	i ₂	s ₂
04	25 30	115	45	100	8 8	28.3 38.3	160	110	10	130	3.5	33	4 x 9
05	30 35	140	50	124	8 10	33.3 33.3	200	130	12	165	3.5	33	4 x 11
06	40 45	160	65	140	12 14	43.3 48.8	200 250	130 180	12 14.5	165 215	3.5 4	42 41	4 x 11 4 x 14
07	50 55	200	75	175	14 16	53.8 59.3	250 300	180 230	14.5 16.5	215 265	4	55	4 x 14
09	60 70	240	95	210	18 20	64.4 74.9	350	250	18	300	4	60	4 x 18
11	70 80	290	105	250	20 22	74.9 85.4	400 450	300 350	20 22	350 400	5	60	4 x 18 8 x 18
14	100	350	135	305	28	106.4	450	350	22	400	5	60	8 x 18



Dimensions – (Helical)-bevel gearboxes

Gearbox with mounting flange for IEC standard motors



Gearbox GKS □□ - 3 N V□R corresponds to IEC motor		Drive size																				
		1A 63	1B 71	2B 63	1C 80	2C 71	3C 71	4C 71	1D 90	2D 80	1E 100	2E 90	3E 80	1F 100	2F 90	1G 132	2G 100	1H 160	2H 180	3H 132	1K 200	2K 225
Housing	k_1	75	77	75		91		115		110		139	180	160	218	218	188	243	273			
	k_2	120	145	120		145		180		180		180	265		300							
Flange	a_3	90	105	90	160	160	105	120	160	160	160	160	300	250	350	350	300	400	450			
	b_3 H8	60	70	60	110	110	70	80	110	110	110	110	230	180	250	250	230	300	350			
	c_3	7	8	7	10	10	8	8	10	10	10	10	18		20	20	18	20				
	e_3	75	85	75	130	130	85	100	130	130	130	130	265	215	300	300	265	350	400			
	f_3	3	3	4	4	3	3.5	4	4	4	4	4	4.5	6	6	4.5	6					
	s_3 4 x 8 x	5.5	6.6	5.5	9	9	6.6	6.6	9	9	9	9	13.5	17.5	17.5	13.5	17.5					
Required motor shaft	d_3	11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	42	48	38	55	60
	l_3 min max	23	30	23		25		50	40	30	30	80	60	110	110	80	110	110	80	110	140	
	u_1	4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	12	14	10	16	18
	t_1	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	45	51.5	41	59	64
Gearbox size	Gearbox							Total length k														
04	203	163	171	100	71	20	107.5	287	294	287	308	342										
05	232	197	205	125	80	23	130	314			328	362	357									
06	291	236	250	150	100	28	160	370			384	418	413	442								
07	354	296	310	190	120	34	200			440	474	469	498	553	533	596	566					
09	429	356	386	236	150	41	240				545	540	569	624	604	667	667	637	692			
11	527	445	485	300	185	54	305				631	660	715	695	758	758	728	783	813			
14	636	544	605	375	230	67	375							814	794	857	857	827	882	912		

Gearbox size	Solid shaft							Pitch circle							Foot											
	d	I	d_1	l_1	l_2	d_2	u	t	a_1	b_1	e_1	f_1	i_1	s_1	a_5	a_6	b_5	b_6	b_7	c_5	e_5	f_5	f_6	n	m	s_5
04	25	50	45	4	40	M10	8	28	105	75	90	3	52.5	M6x12	45	45	110	119	85	14	105	132	141	22	21	9
05	30	60	50	6	45	M10	8	33	118	80	100	4	64	M8x15	47.5	47.5	115	140	105	17	127	144	169	29	21	11
06	40	80	65	7	63	M16	12	43	140	100	120	4	85	M10x16	60	60	155	170	120	20	145	191	206	36	23	14
07	50	100	75	8	80	M16	14	53.5	165	115	140	5	105	M12x18	70	70	190	210	150	25	180	235	255	45	28	18
09	60	120	95	8	100	M20	18	64	205	145	175	6	125	M16x24	90	90	240	266	185	30	222	300	326	60	37	22
11	80	160	105	15	125	M20	22	85	240	170	205	6	166	M20x32	105	105	290	325	225	40	270	363	398	73	43	26
14	100	200	135	18	160	M24	28	106	290	210	250	6	207	M24x35	135	135	360	415	275	50	328	442	497	82	52	33

Dimensions in [mm]

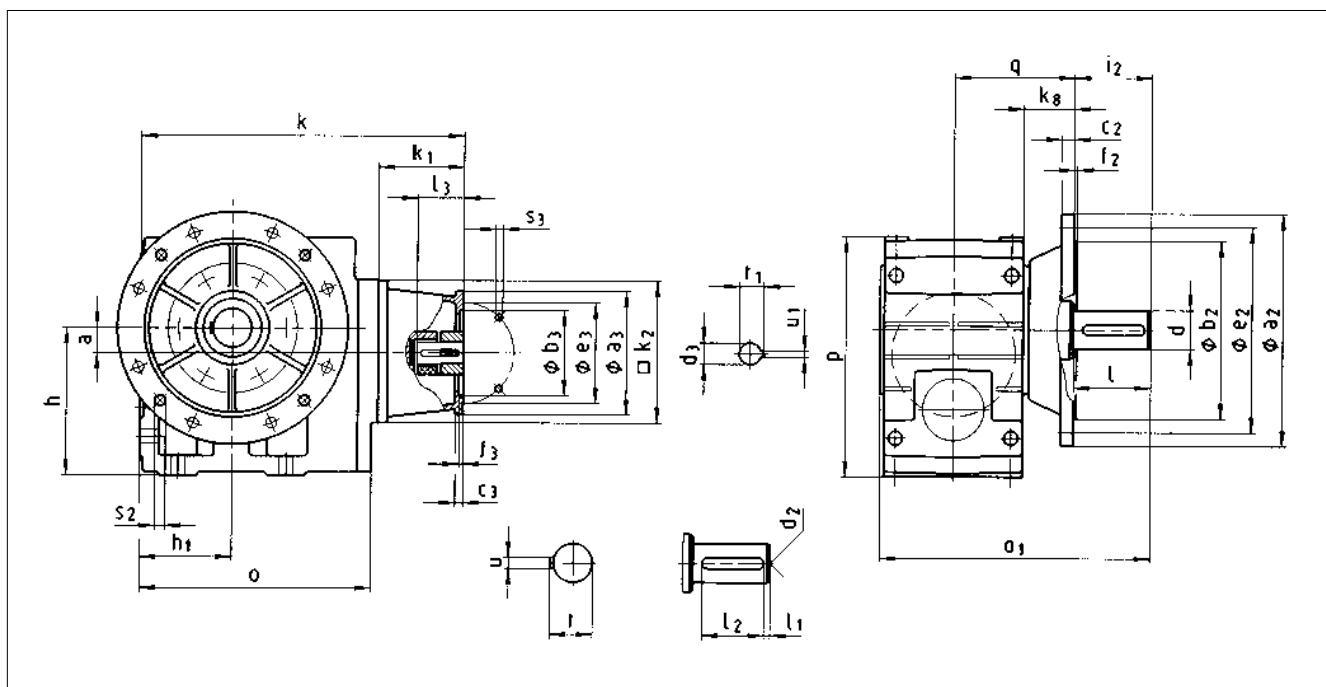
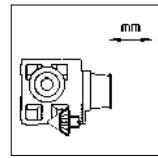
d ≤ 50 mm: k6

* Observe dimension k_2 , with gearbox size 04 and motor frame size 090 dimension $k_2/2 > h-a$

d > 50 mm: m6

Dimensions – (Helical)-bevel gearboxes

Gearbox with mounting flange for IEC standard motors



Gearbox		Drive size																						
GKS □□ - 3 N VAK		1A 63	1B 71	2B 63	1C 80	2C 71	3C 71	4C 71	1D 90	2D 80	1E 100	2E 90	3E 80	1F 100	2F 90	1G 132	2G 100	1H 160	2H 180	3H 132	1K 200	2K 225		
Housing		k_1	75	77	75	91		115		110		139		180		218		218		243				
		k_2	120	145	120	145		180		180		180		265		300		300		300				
Flange		a_3	90	105	90	160	160	105	120	160	160	160	160	160	160	300	250	350	350	300	400	450		
		b_3	H8	60	70	60	110	110	70	80	110	110	110	110	110	230	180	250	230	300	350	350		
		c_3		7	8	7	10	10	8	8	10	10	10	10	10	18	20	20	18	20				
		e_3		75	85	75	130	130	85	100	130	130	130	130	130	265	215	300	300	265	350	400		
		f_3		3	3	4	4	3	3.5	4	4	4	4	4	4	4.5	6	6	4.5	6				
		s_3	4 x 8 x	5.5	6.6	5.5	9	9	6.6	6.6	9	9	9	9	9	13.5	17.5	17.5	13.5	17.5				
Required motor shaft		d_3		11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	42	48	38	55	60
		l_3 min		23	30	23	25		50	40	30		30	30	80	60	110	110	80	110	110	110	140	
		l_3 max		23	30	23	40		50	50	60		60	60	80	60	110	110	80	110	110	110	140	
		u_1		4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	12	14	10	16	18
		t_1		12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	45	51.5	41	59	64
Gearbox size		Gearbox										Total length												
		o	o_1^*	p^*	h^*	h_1	a	k_8	q															
04		203	169	171	100	71	20	38	90.5	287	294	287	308		342									
05		232	230	205	125	80	23	40	103	314			328		362	357								
06		291	277	250	150	100	28	49	121	370			384		418	413		442						
07		354	351	310	190	120	34	65	155				440		474	469		498		553	533	596	566	
09		429	416	386	236	150	41	69	180				545		540	569		624	604	667	667	637	692	
11		527	505	485	300	185	54	70	205				631		660	715		695	758	758	728	783	813	
14		636	604	605	375	230	67	71	235				814		794	857		857	827	882	892	912		

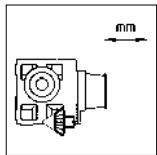
Gearbox size	Solid shaft							Output flange						
	d	I	I_1	I_2	d_2	u	t	a_2	b_{2j7}	c_2	e_2	f_2	i_2	s_2
04	25	50	4	40	M10	8	28	160	110	10	130	3.5	50	4x9
05	30	60	6	45	M10	8	33	200	130	12	165	3.5	60	4x11
06	40	80	7	63	M16	12	43	250	180	14.5	215	4	80	4x14
07	50	100	8	80	M16	14	53.5	250	180	14.5	215	4	100	4x14
09	60	120	8	100	M20	18	64	350	250	18	300	4	120	4x18
11	80	160	15	125	M20	22	85	400	300	20	350	5	160	4x18
14	100	200	18	160	M24	28	106	450	350	22	400	5	200	8x18

Dimensions in [mm]

$d \leq 50$ mm: k6

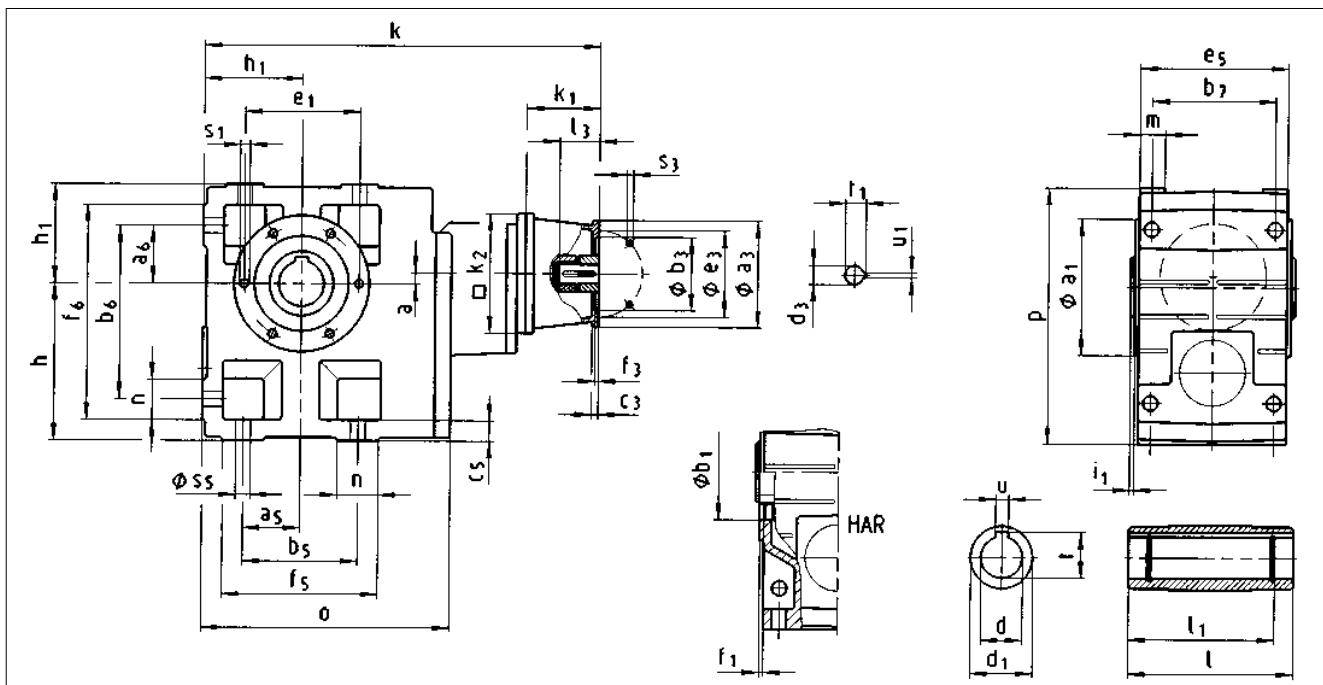
$d > 50$ mm: m6

* Observe dimension k_2 , with gearbox size 04 and motor frame size 090 dimension $k_2/2 > h-a$



Dimensions – (Helical)-bevel gearboxes

Gearbox with mounting flange for IEC standard motors



Gearbox
GKS □□ - 4N H□R
corresponds to IEC motor

Gearbox GKS □□ - 4NHR		Drive size																									
		1A	1B	2B	1C	2C	3C	4C	1D	2D	1E	2E	3E	1F	2F	1G	2G	1H	2H	3H							
		63	71	63	80		71	71	90	80	100	90	80	110	90	132	100	160	180	132							
Housing		k₁	75	77	75	91			115		110		139		180	160	218	218	188								
		k₂	120	145	120	145			180		180		180		265	300											
Flange		a₃	90	105	90	160	160	105	120	160		160		160		300	250	350	350	300							
		b₃ H8	60	70	60	110	110	70	80	110		110		110		230	180	250	250	230							
		c₃	7	8	7	10	10	8	8	10		10		10		18	20	20	18	18							
		e₃	75	85	75	130	130	85	100	130		130		130		265	215	300	300	265							
		f₃	3	3	3	4	4	3	3.5	4		4		4		4.5	6	6	4.5	4.5							
		s₃ 4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9		9		13.5	17.5	17.5	17.5	13.5							
		d₃	11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	42	48	38						
		l₃ min	23	30	23	25			50	40	30		30		80	60	110	110	80	80							
		l₃ max	23	30	23	40			50	50	60		60		80	60	110	110	80	80							
Required motor shaft		u₁	4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	12	14	10						
		t₁	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	45	51.5	41						
Gearbox size	Gearbox					Total length																					
	o	l*	p*	h	h₁	a	k																				
05	226	140	205	125	80	13	383	390	383	404		438															
06	288	160	250	150	100	8	456	463	456	477		511															
07	351	200	310	190	120	11	530			544		578		573													
09	426	240	386	236	150	15	619			633		667		662		691											
11	523	290	485	300	185	16				743		777		772		801		856	836								
14	632	350	605	375	230	22						910		905		934		989	969	1032	1032						

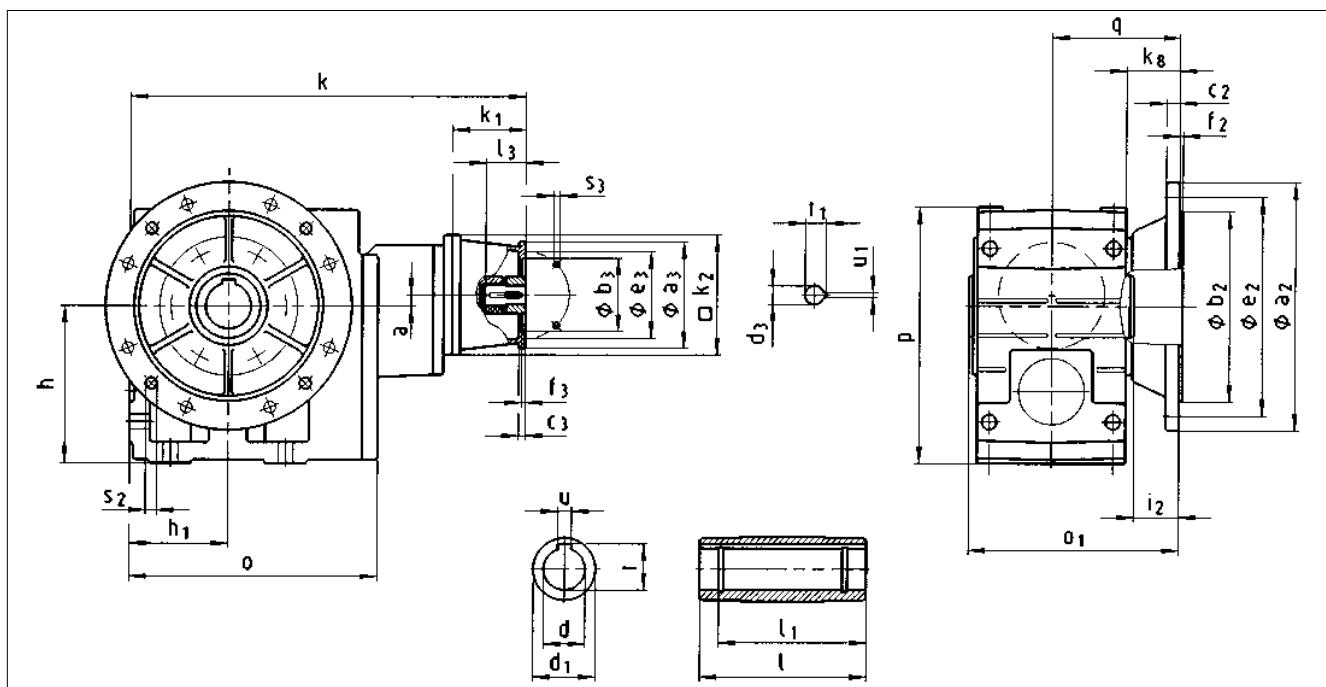
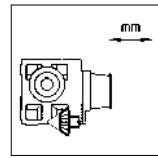
Gearbox size	Hollow shaft						Pitch circle						Foot											
	d H7	I	d ₁	I ₁	u JS9	t +0.2	a ₁	b ₁ H7	e ₁	f ₁	i ₁	s ₁ 6x60°	a ₅	a ₆	b ₅	b ₆	b ₇	c ₅	e ₅	f ₅	f ₆	n	m	s ₅
05	30 35	140	50	124	8 10	33.3 38.8	118	80	100	4	4	M8x15	47.5	47.5	115	140	105	17	127	144	169	29	21	11
06	40 45	160	65	140	12 14	43.3 48.8	140	100	120	4	5	M10x16	60	60	155	170	120	20	145	191	206	36	23	14
07	50 55	200	75	175	14 16	53.8 59.3	165	115	140	5	5	M12x18	70	70	190	210	150	25	180	235	255	45	28	18
09	60 70	240	95	210	18 20	64.4 74.9	205	145	175	6	5	M16x24	90	90	240	266	185	30	222	300	326	30	37	22
11	70 80	290	105	250	20 22	74.9 85.4	240	170	205	6	6	M20x32	105	105	290	325	225	40	270	363	398	73	43	26
14	100	350	135	305	28	106.4	290	210	250	6	7	M24x35	135	135	360	415	275	50	328	442	497	82	52	33

Dimensions in [mm]

* Observe k_2

Dimensions – (Helical)-bevel gearboxes

Gearbox with mounting flange for IEC standard motors

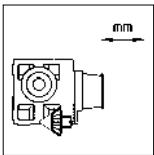


Gearbox GKS □□ - 4N HAK corresponds to IEC motor		Drive size																		
		1A 63	1B 71	2B 63	1C 80	2C 71	3C 71	4C 71	1D 90	2D 80	1E 100	2E 90	3E 80	1F 110	2F 90	1G 132	2G 100	1H 160	2H 180	3H 132
Housing	k_1	75	77	75			91		115		110			139	180	160	218	218	188	
	k_2	120	145	120			145		180		180			180	265				300	
Flange	a_3	90	105	90	160	160	105	120	160		160			160	300	250	350	350	300	
	b_3 H8	60	70	60	110	110	70	80	110		110			110	230	180	250	250	230	
	c_3	7	8	7	10	10	8	8	10		10			10	18	20	20	18		
	e_3	75	85	75	130	130	85	100	130		130			130	265	215	300	300	265	
	f_3	3	3		4	4	3	3.5	4		4			4	4.5	6	6	4.5		
	s_3 4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9	13.5	17.5	17.5	17.5		
Required motor shaft	d_3	11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	42	48	
	l_3 min	23	30	23			25		50	40	30			30	80	60	110	110	80	
	l_3 max	23	30	23			40		50	50	60			60	80	60	110	110	80	
	u_1	4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	12	14	
	t_1	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	45	51.5	
Gearbox size	Gearbox Total length k																			
05	o 226	o_1^* 173	p^* 205	h 125	h_1 80	a 13	k_3 40	q 103	383	390	383		404	438						
06	288	201	250	150	100	8	49	121	456	463	456		477	511						
07	351	255	310	190	120	11	65	155		530			544	578	573					
09	426	300	386	236	150	15	69	180		619			633	667	662	691				
11	523	350	485	300	185	16	70	205					743	777	772	801	856	836		
14	632	410	605	375	230	22	71	235					910	905	934	989	969	1032	1002	

Gearbox size	Hollow shaft							Output flange							
	d H7	l	d_1	l_1	u JS9	t +0.2	a_2	b_2 j7	c_2	e_2	f_2	i_2	s_2		
05	30 35	140	50	124	8 10	33.3 38.8	200	130	12	165	3.5	33	4 x 11		
06	40 45	160	65	140	12 14	43.3 48.8	200 250	130 180	12 14.5	165 215	3.5 4	42 41	4 x 11 4 x 14		
07	50 55	200	75	175	14 16	53.8 59.3	250 300	180 230	14.5 16.5	215 265	4	55	4 x 14		
09	60 70	240	95	210	18 20	64.4 74.9	350	250	18	300	4	60	4 x 18		
11	70 80	290	105	250	20 22	74.9 85.4	400 450	300 350	20 22	350 400	5	60	4 x 18 8 x 18		
14	100	350	135	305	28	106.4	450	350	22	400	5	60	8 x 18		

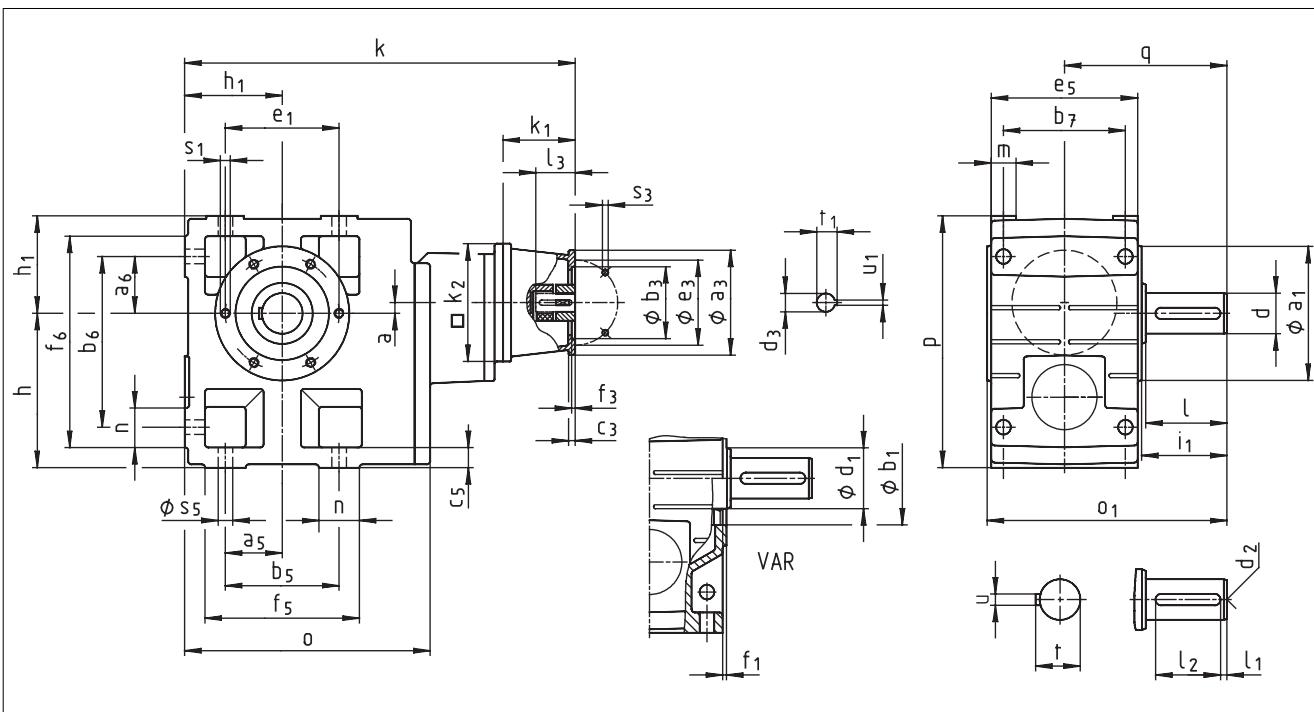
Dimensions in [mm]

* Observe k_2



Dimensions – (Helical)-bevel gearboxes

Gearbox with mounting flange for IEC standard motors



Gearbox		Drive size																		
GKS □□ - 4 N V□R corresponds to IEC motor		1A 63	1B 71	2B 63	1C 80	2C 71	3C 71	4C 71	1D 90	2D 80	1E 100	2E 90	3E 80	1F 110	2F 90	1G 132	2G 100	1H 160	2H 180	3H 132
Housing	<i>k</i> ₁	75	77	75		91			115		110			139	180	160	218	218	188	
	<i>k</i> ₂	120	145	120		145			180		180			180	265			300		
Flange	<i>a</i> ₃	90	105	90	160	160	105	120	160		160			160	300	250	350	350	300	
	<i>b</i> ₃ H8	60	70	60	110	110	70	80	110		110			110	230	180	250	250	230	
	<i>c</i> ₃	7	8	7	10	10	8	8	10		10			10	18	20	20	18		
	<i>e</i> ₃	75	85	75	130	130	85	100	130		130			130	265	215	300	300	265	
	<i>f</i> ₃	3	3	4	4	3	3.5	4		4			4	4.5	6	6	4.5			
Required	<i>s</i> ₃ 4 x	5.5	6.6	5.5	9	9	6.6	6.6	9		9			9	13.5	17.5	17.5	13.5		
motor shaft	<i>d</i> ₃	11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	42	38	
	<i>l</i> ₃ min	23	30	23		25			50	40	30			30	80	60	110	110	80	
	<i>l</i> ₃ max	23	30	23		40			50	50	60			60	80	60	110	110	80	
	<i>u</i> ₁	4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	8	12	10	
	<i>t</i> ₁	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	45	51.5	
Gearbox	Gearbox							Total length												
size	<i>o</i>	<i>o</i> ₁ *	<i>p</i> [*]	<i>h</i>	<i>h</i> ₁	<i>a</i>	<i>q</i>	<i>k</i>												
05	226	197	205	125	80	13	130	383	390	383	404	438								
06	288	236	250	150	100	8	160	456	463	456	477	511								
07	351	296	310	190	120	11	200	530		544	578	573								
09	426	356	386	236	150	15	240	619		633	667	662	691							
11	523	445	485	300	185	16	305		743		777	772	801	856	836					
14	632	544	605	375	230	22	375			910	905	934	989	969	1032	1032	1002			

Gearbox size	Solid shaft							Pitch circle							Foot											
	<i>d</i>	<i>l</i>	<i>d</i> ₁	<i>l</i> ₁	<i>l</i> ₂	<i>d</i> ₂	<i>u</i>	<i>t</i>	<i>a</i> ₁	<i>b</i> ₁	<i>e</i> ₁	<i>f</i> ₁	<i>i</i> ₁	<i>s</i> ₁	<i>a</i> ₅	<i>a</i> ₆	<i>b</i> ₅	<i>b</i> ₆	<i>b</i> ₇	<i>c</i> ₅	<i>e</i> ₅	<i>f</i> ₅	<i>f</i> ₆	<i>n</i>	<i>m</i>	<i>s</i> ₅
05	30	60	50	6	45	M10	8	33	118	80	100	4	64	M8x15	475	475	115	140	105	17	127	144	169	29	21	11
06	40	80	65	7	63	M16	12	43	140	100	120	4	85	M10x16	60	60	155	170	120	20	145	191	206	36	23	14
07	50	100	75	8	80	M16	14	53.5	165	115	140	5	105	M12x18	70	70	190	210	150	25	180	235	255	45	28	18
09	60	120	95	8	100	M20	18	64	205	145	175	6	125	M16x24	90	90	240	266	185	30	222	300	326	30	37	22
11	80	160	105	15	125	M20	22	74	240	170	205	6	166	M20x32	105	105	290	325	225	40	270	363	398	73	43	26
14	100	200	135	18	160	M24	28	106	290	210	250	6	207	M24x35	135	135	360	415	275	50	328	442	497	82	52	33

Dimensions in [mm]

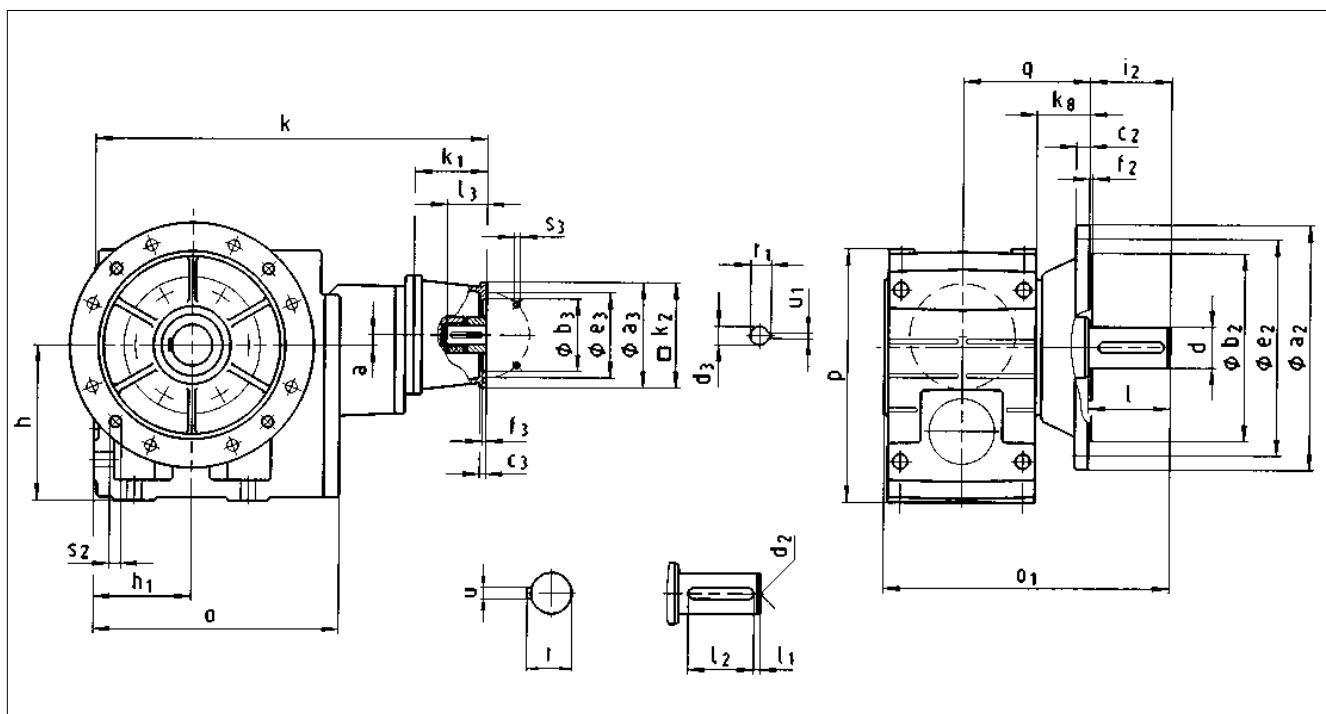
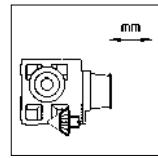
d ≤ 50 mm: *k*6

d > 50 mm: *m*6

* Observe *k*₂

Dimensions – (Helical)-bevel gearboxes

Gearbox with mounting flange for IEC standard motors



Gearbox GKS □□ - 4 N VAK corresponds to IEC motor		Drive size																					
		1A 63	1B 71	2B 63	1C 80	2C 71	3C 71	4C 71	1D 90	2D 80	1E 100	2E 90	3E 80	1F 110	2F 90	1G 132	2G 100	1H 160	2H 180	3H 132			
Housing		<i>k</i> 75	77	75	91				115	110				139	180	160	218	218	188				
		<i>k</i> 120	145	120	145				180	180				180	265	300							
Flange		<i>a</i> 90	105	90	160	160	105	120	160	160				160	300	250	350	350	300				
		<i>b</i> 60	70	60	110	110	70	80	110	110				110	230	180	250	250	230				
		<i>c</i> 7	8	7	10	10	8	8	10	10				10	18	20	20	18					
		<i>e</i> 75	85	75	130	130	85	100	130	130				130	265	215	300	300	265				
		<i>f</i> 3	3	3	4	4	3	3.5	4	4				4	4.5	6	6	4.5					
		<i>s</i> 4 x 5.5	6.6	5.5	9	9	6.6	6.6	9	9				9	13.5	17.5	17.5	13.5					
Required motor shaft		<i>d</i> 11	14	11	19	14	14	14	24	19	28	24	19	28	24	38	28	42	48				
		<i>l</i> min max	23	30	23	25				50	40	30				30	80	60	110	110			
		<i>u</i> 1	4	5	4	6	5	5	5	8	6	8	8	6	8	8	10	12	14				
		<i>t</i> 1	12.5	16	12.5	21.5	16	16	16	27	21.5	31	27	21.5	31	27	41	31	45				
Gearbox size	Gearbox									Total length <i>k</i>													
05	226	230	205	125	80	13	40	103	383	390	383	404				438							
06	288	277	250	150	100	8	49	121	456	463	456	477				511							
07	351	351	310	190	120	11	65	155	530				544				578						
09	426	416	386	236	150	15	69	180	619				633				667	662					
11	523	505	485	300	185	16	70	205	743				777				772	801					
14	632	604	605	375	230	22	71	235	910				905				934	989	969	1032	1032		

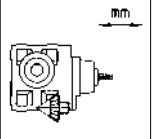
Gearbox size	d	I	I₁	Solid shaft			d₂	u	t	a₂	b₂ j7	c₂	e₂	f₂	i₂	s₂
05	30	60	6	45	M10	8	33	200	130	12	165	3.5	60	4x11		
06	40	80	7	63	M16	12	43	250	180	14.5	215	4	80	4x14		
07	50	100	8	80	M16	14	53.5	250 300	180 230	14.5 16.5	215 265	4	100	4x14		
09	60	120	8	100	M20	18	64	350	250	18	300	4	120	4x18		
11	80	160	15	125	M20	22	85	400 450	300 350	20 22	350 400	5	160	4x18 8x18		
14	100	200	18	160	M24	28	106	450	350	22	400	5	200	8x18		

Dimensions in [mm]

d ≤ 50 mm: k6

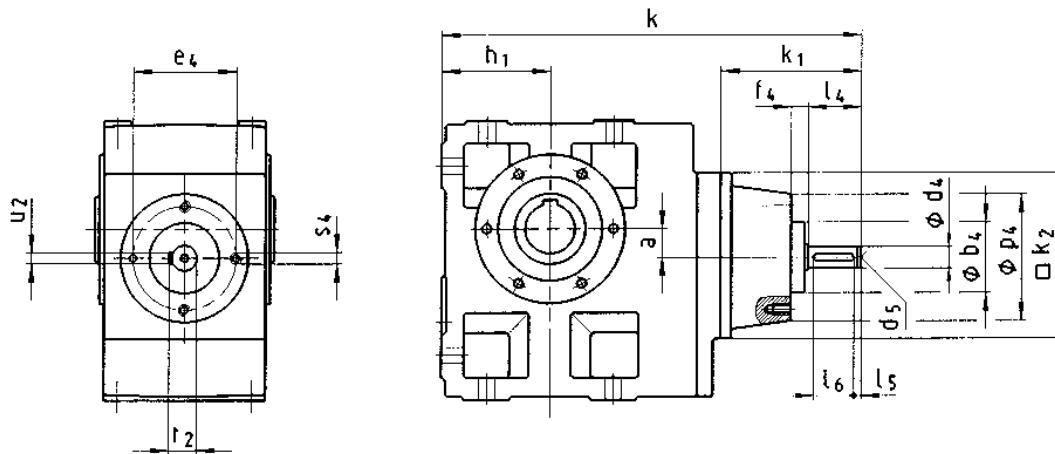
d > 50 mm: m6

* Observe k₂



Dimensions – (Helical)-bevel gearboxes

Gearbox with free input shaft



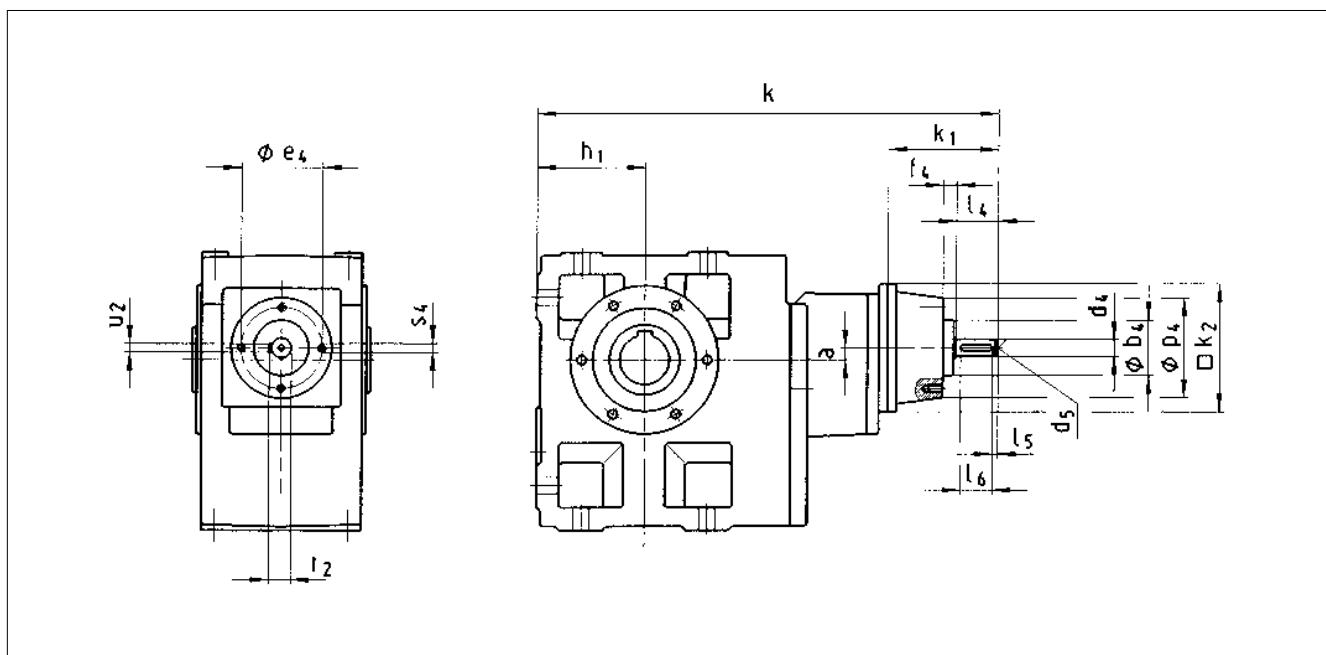
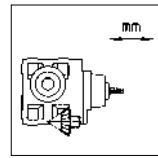
Gearbox GKS□□ - 3 W □□□		Drive size									
		1A	1B	1C	1D	1E	1F	1G	1H	1K	
Housing	k_1	100	100	102	130	160	175	175	182	220	
	k_2	115	115	145	145	180	222	222	300	300	
Pitch circle with centering	p_4	80	86	90	120	142	178	216	262	262	
	b_4 js 8	52	52	52	65	78	98	125	155	155	
	e_4	67	67	67	90	115	145	175	210	210	
	f_4	12	12	12	12	22	23	23	23	32	
	s_4 4 x 8 x	M6x12	M6x12	M6x12	M8x16	M10x20		M16x30	M20x36	M20x36	
Free input shaft	d_4 k6	14	14	14	19	24	28	38	42	48	
	l_4	35	35	40	50	60	80	100	110	110	
	l_5	4.5	4.5	4	4	6	7	8	8	8	
	l_6	25	25	32	40	45	63	80	90	90	
	d_5	M6	M6	M6	M6	M8	M10	M12	M16	M16	
	u_2	5	5	5	6	8	8	10	12	14	
	t_2	16	16	16	21.5	27	31	41	45	51.5	
Gearbox size	Gearbox*		Total length								
	h_1	a	k								
04	71	20	287	287	319						
05	80	23		314	339	367					
06	100	28		395	423	463	484				
07	120	34			479	519	540	540			
09	150	41				590	611	611	631		
11	185	54					702	702	722	760	
14	230	67						801	821	859	

Dimensions in [mm]

* For further dimensions see Dimensions – (Helical)-bevel geared motors

Dimensions – (Helical)-bevel gearboxes

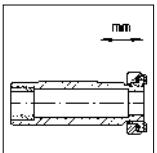
Gearbox with free input shaft



Gearbox GKS□□ - 4 W □□□		Drive size								
		1A	1B	1C	1D	1E	1F	1G	1H	
Housing	k₁	100	100	102	130	160	175	175	182	
	k₂	115	115	145	145	180	222	222	300	
Pitch circle with centering	p₄	80	86	90	120	142	178	216	262	
	b₄ js 8	52	52	52	65	78	98	125	155	
	e₄	67	67	67	90	115	145	175	210	
	f₄	12	12	12	12	22	23	23	23	
	s₄ 4 x 8 x	M6x12	M6x12	M6x12	M8x16	M10x20	M12x24	M16x30	M20x36	
Free input shaft	d₄ k6	14	14	14	19	24	28	38	42	
	l₄	35	35	40	50	60	80	100	110	
	l₅	4.5	4.5	4	4	6	7	8	8	
	l₆	25	25	32	40	45	63	80	90	
	d₅	M6	M6	M6	M6	M8	M10	M12	M16	
	u₂	5	5	5	6	8	8	10	12	
	t₂	16	16	16	21.5	27	31	41	45	
Gearbox size	Gearbox*		Total length							
	h₁	a	k							
05	80	13	383	383	415					
06	100	8	456	456	488					
07	120	11		530	555	583				
09	150	15			644	672	712	733		
11	185	16				782	822	843	843	
14	230	22					955	976	976	996

Dimensions in [mm]

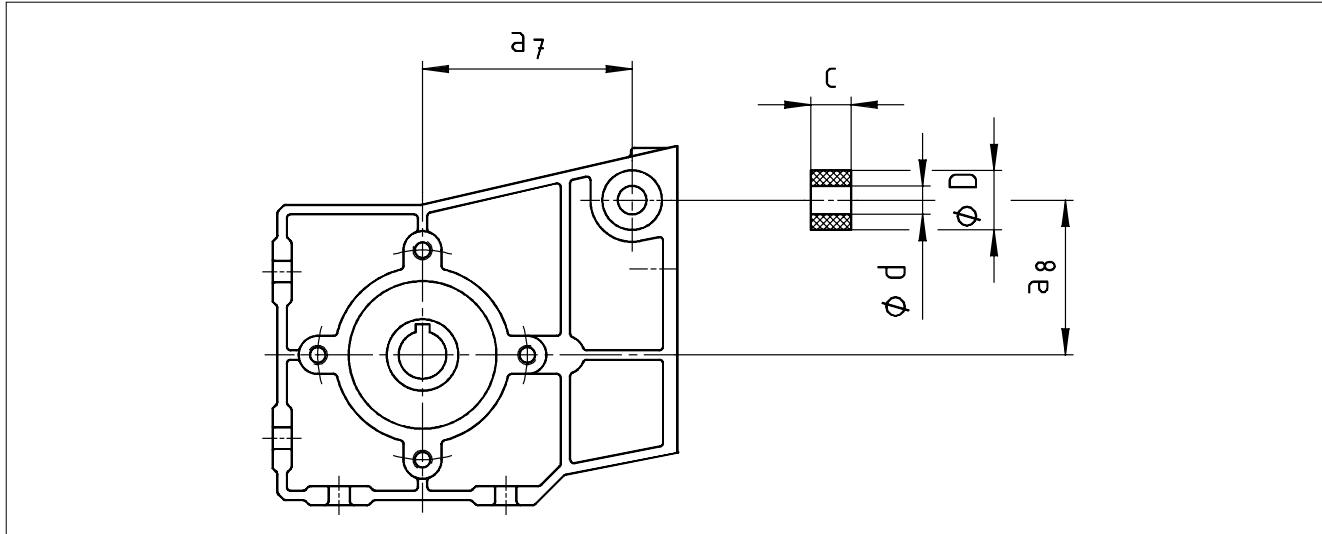
* For further dimensions see Dimensions – (Helical)-bevel geared motors



Dimensions – (Helical)-bevel gearboxes

Rubber buffer for torque plate

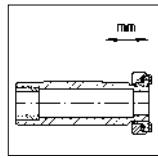
Bevel gearbox GKR □□



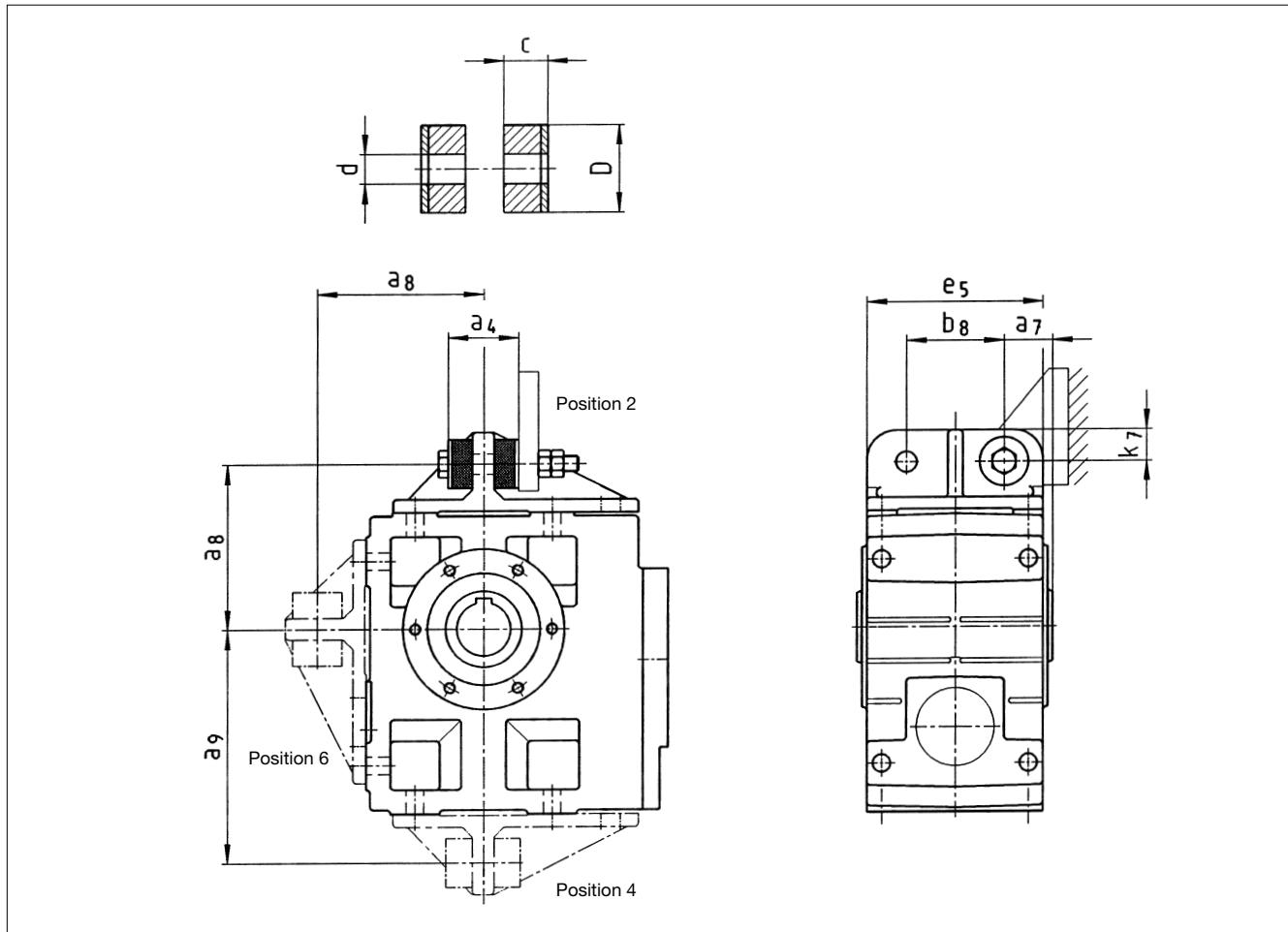
Gearbox size	d	D	c
04	10	25	13

Dimensions – (Helical)-bevel gearboxes

Torque plate at housing foot



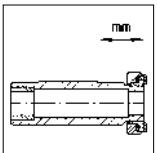
Helical-bevel gearbox GKS □□



5

Gearbox size	a_4	a_7	a_8	a_9	b_8	c	d	D	e_5	k_7
04	41	27.5	106	135	60	14.5	11	30	100	20
05	45	35	115	160	70	15	13	40	127	25
06	72	40	145	195	80	27	17	50	145	30
07	78	50	170	240	100	28	21	60	180	35
09	86	60	214	300	120	29	26	72	222	46
11	94	72.5	260	375	145	30	33	92	270	55
14	100	85	320	465	180	30	39	110	328	70

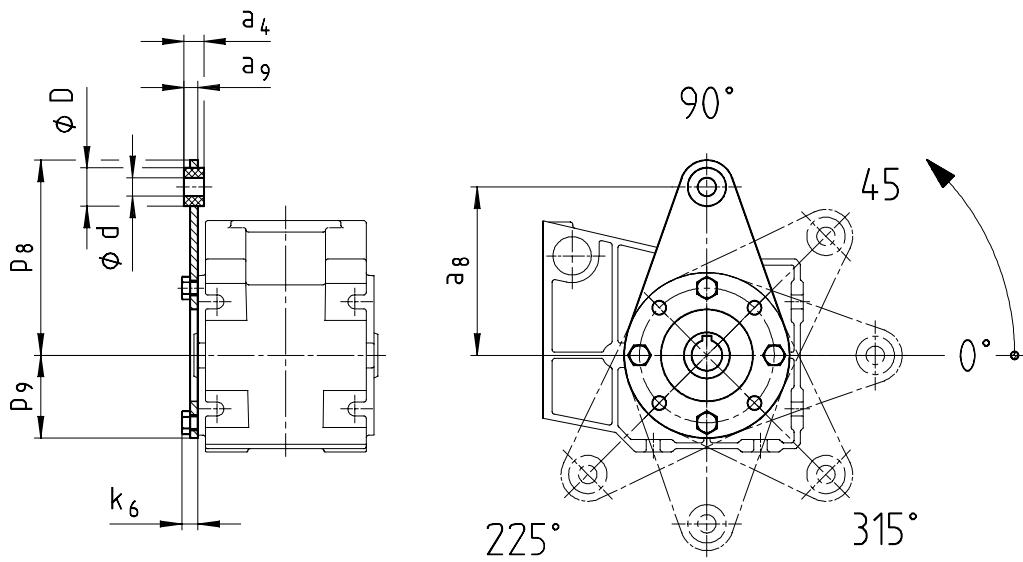
Dimensions in [mm]



Dimensions – (Helical)-bevel gearboxes

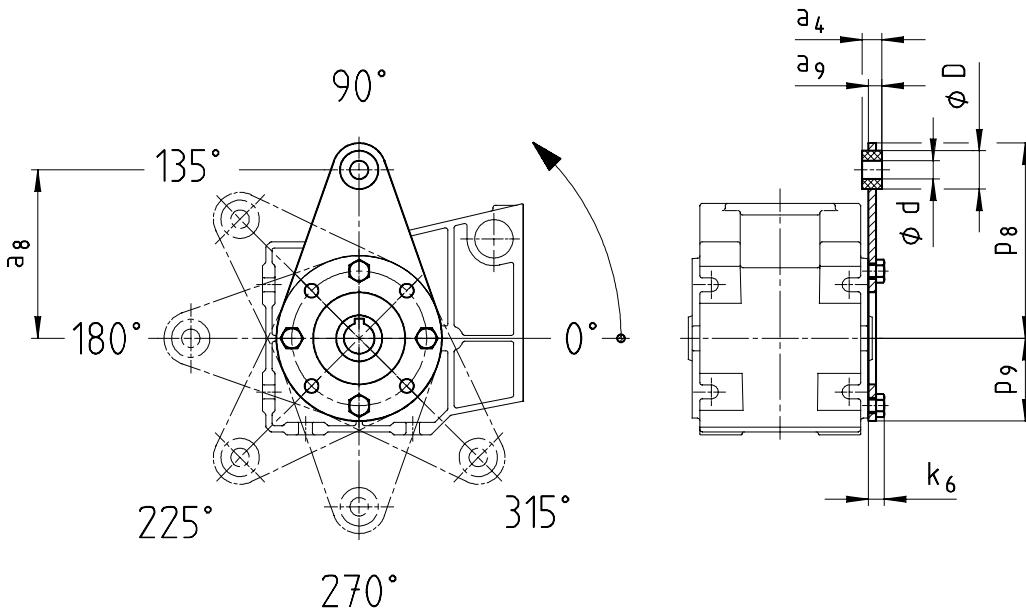
Torque plate at pitch circle

In position 3 at bevel gearbox GKR □□



5

In position 5 at bevel gearbox GKR □□

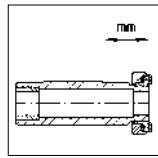


Gearbox size	a_4	a_8	a_9	Torque plate d	D	k_6	p_8	p_9
04	13	110	9	10	25	11	128	52

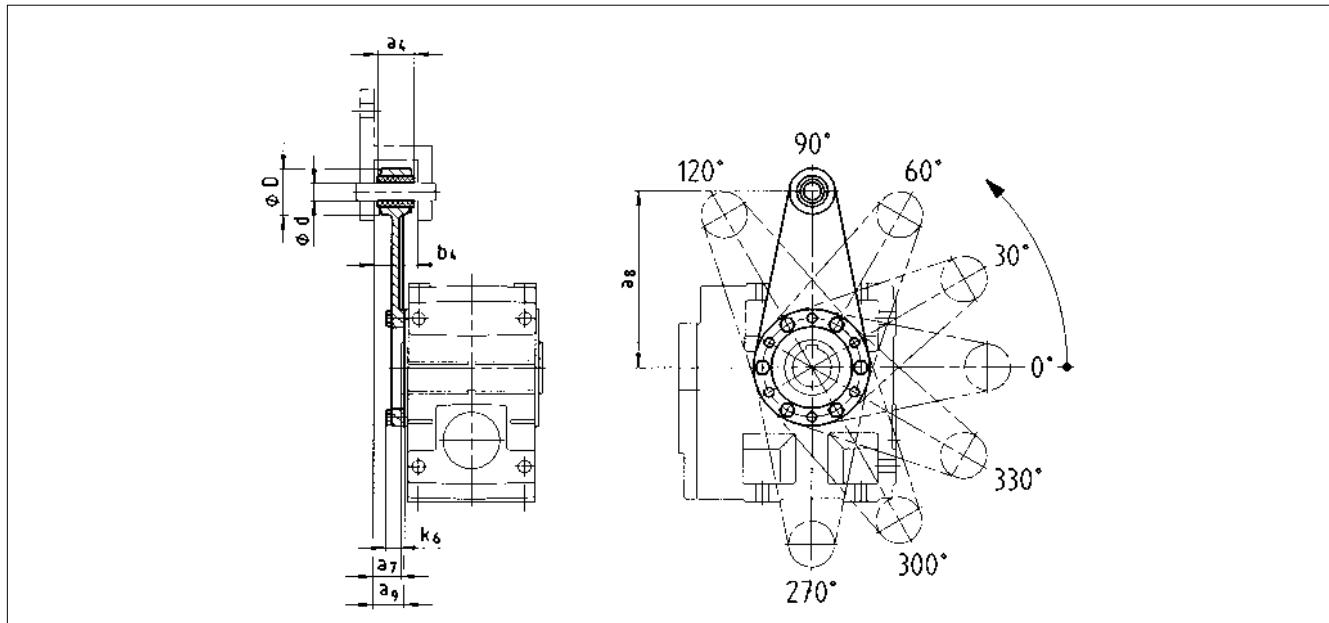
Dimensions in [mm]

Dimensions – (Helical)-bevel gearboxes

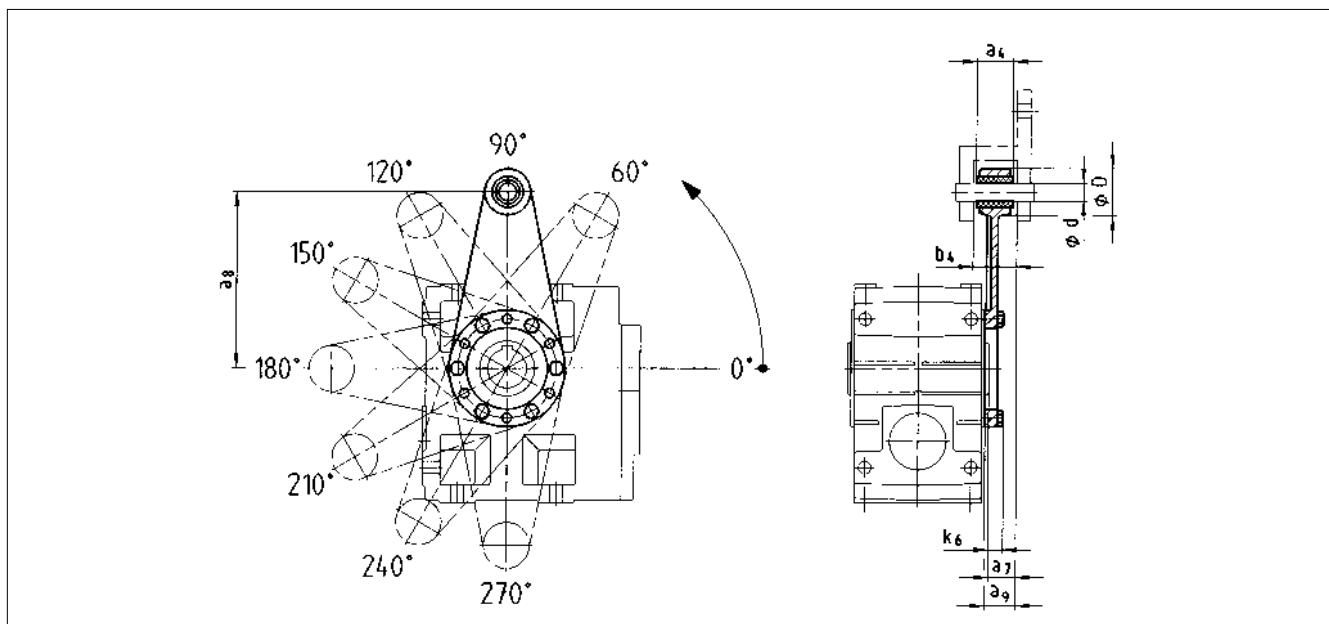
Torque plate at pitch circle



In position 3 at helical-bevel gearbox GKS □□

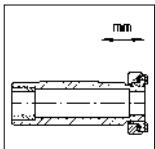


In position 5 at helical-bevel gearbox GKS □□



Gearbox size	Assembly space			Torque plate				
	a ₇	b ₄	a ₄	a ₈	a ₉	d	D	k ₆
04	24	34.5	30	130	26.5	12	35	16
05	23.5	38.5	34	160	27.5	16	45	15
06	28	44.5	40	200	33	20	50	18
07	32.5	50.5	46	250	37.5	25	65	21

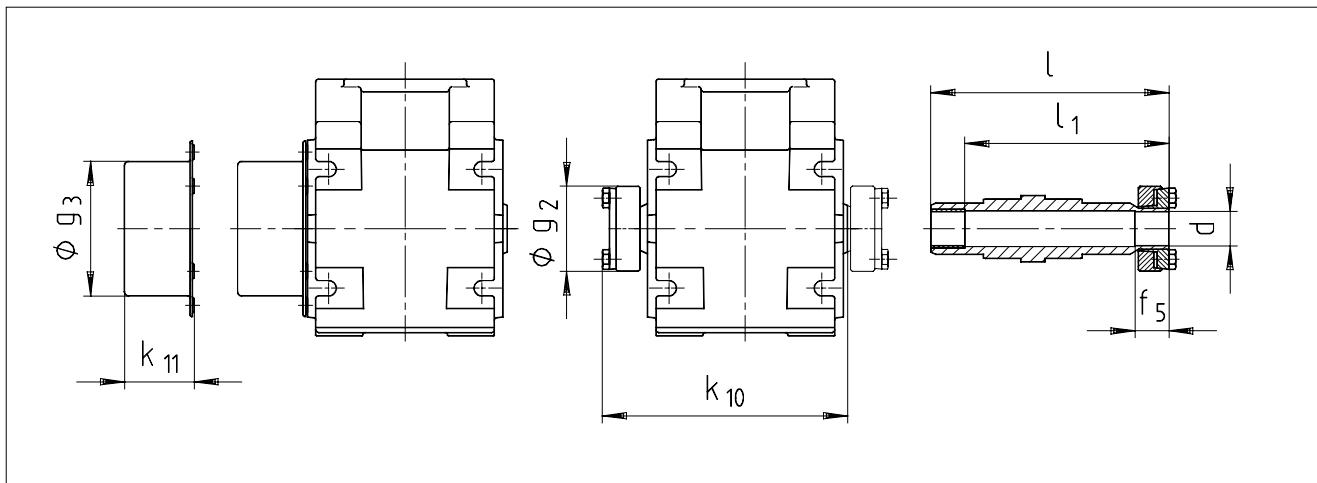
Dimensions in [mm]



Dimensions – (Helical)-bevel gearboxes

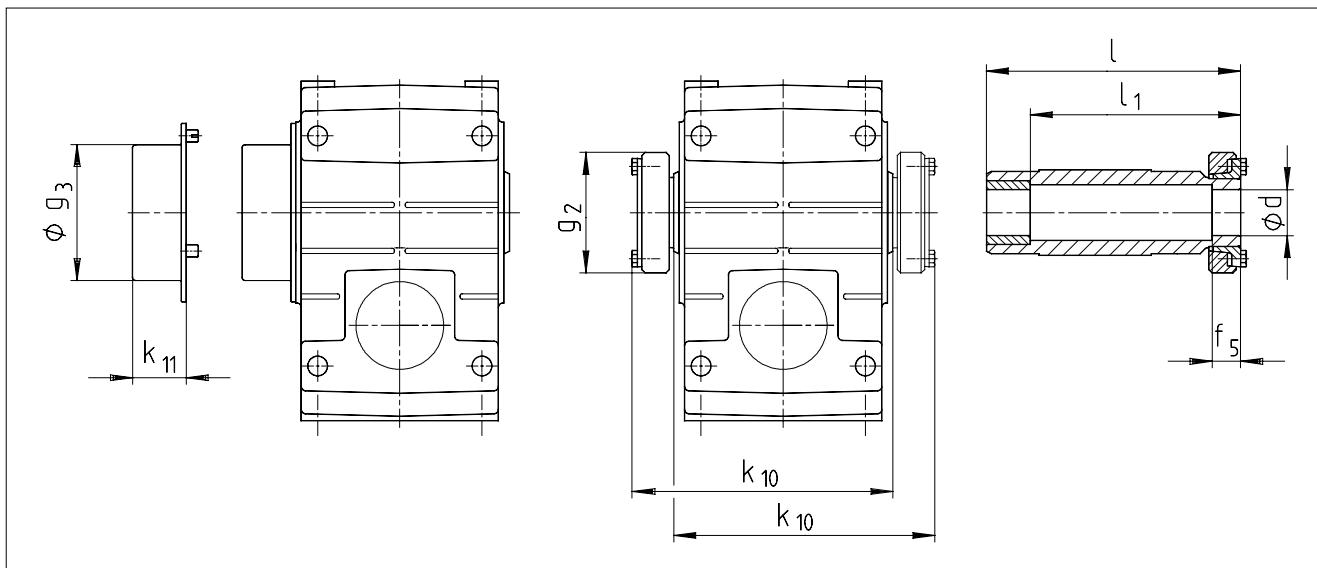
Hollow shaft with shrink disc

Bevel gearbox GKR □□



Gearbox size	Machine shaft *	Fit	l	Hollow shaft	l_1	f_5	Gearbox	k_{10}	Cover	g_3	k_{11}
04	20	h6	140		120	20	50	144		79	41

Helical-bevel gearbox GKS □□



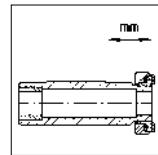
Gearbox size	Machine shaft *	Fit	l	Hollow shaft	l_1	f_5	Gearbox	k_{10}	Protection cover	g_3	k_{11}
04	25 30	h6	142		122	26	72	146		79	41
05	35	h6	168		148	28	80	171		90	43
06	40	h6	194		164	30	90	197		100	49
07	50	h6	232		192	26	110	234		124	49
09	65	h6	278		228	30	141	281		159	52
11	80	h6	338		238	42	170	344		191	65
14	100	h6	407		307	55	215	415		253	78

* Ensure sufficient shaft material strength when using the shrink disc design. When you use common steel (e.g. C45, 42CrMo4) the torques listed in the selection tables can be transmitted without any restrictions. For the use of materials of less strength, please contact Lenze.

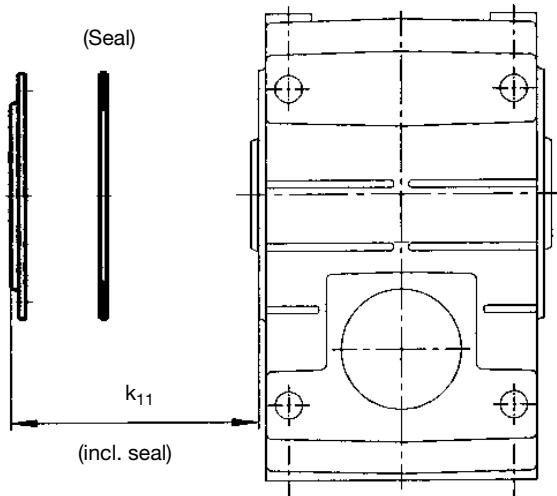
Dimensions in [mm]

Dimensions – (Helical)-bevel gearboxes

Jet-proof hollow shaft cover

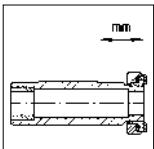


Helical-bevel gearboxes GKS □□



Gearbox size	Protection cover k_{11}
04	9
05	10
06	11
07	11
09	54
11	67
14	80

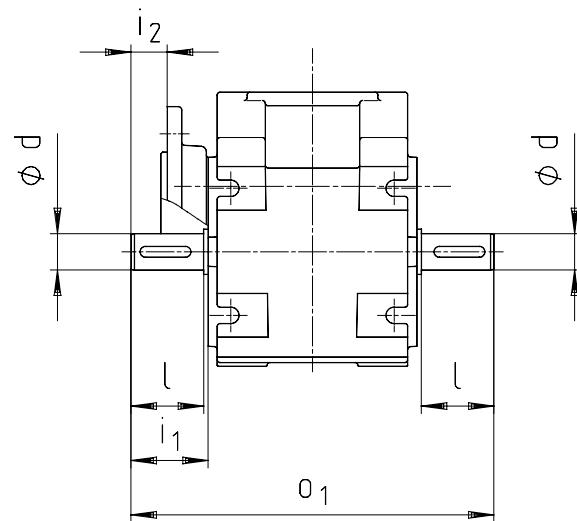
Dimensions in [mm]



Dimensions – (Helical)-bevel gearboxes

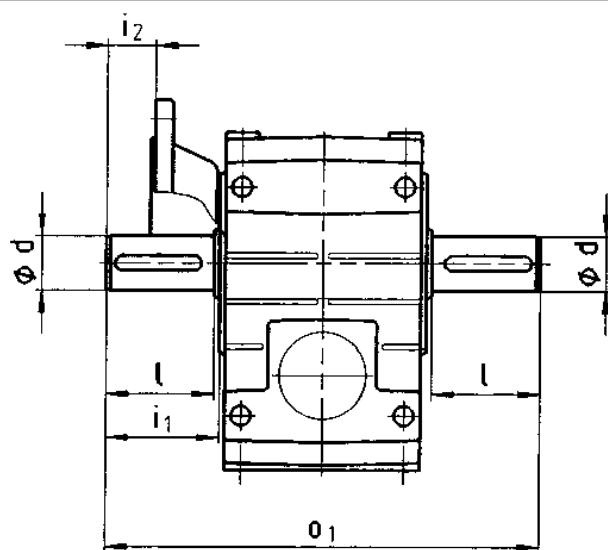
Gearboxes with 2nd output shaft end

Bevel gearbox GKR □□



Gearbox size	d	l	i ₁	i ₂	o ₁
04	20	40	42.5	19.5	200

Helical-bevel gearbox GKS □□

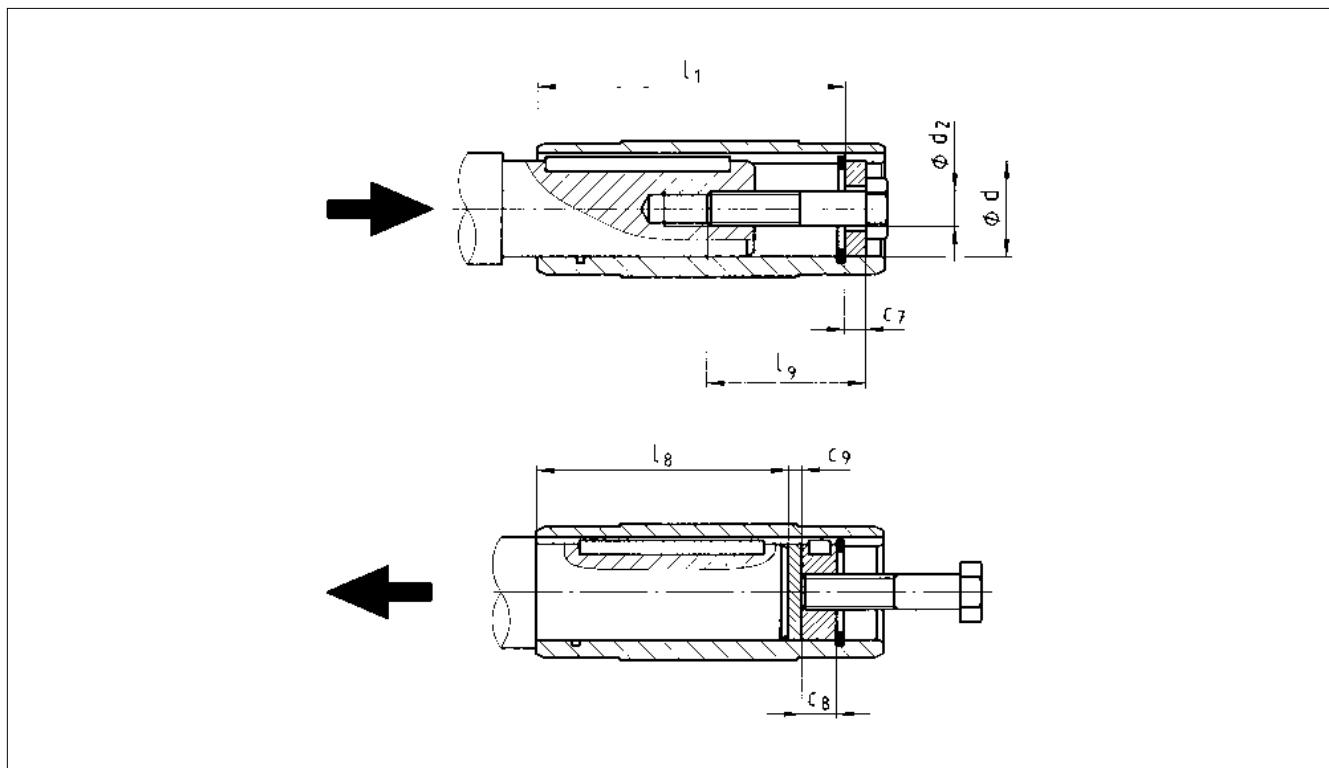
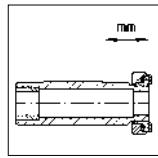


Gearbox size	d	l	i ₁	i ₂	o ₁
04	25	50	52.5	17	215
05	30	60	64	27	260
06	40	80	85	39	320
07	50	100	105	45	400
09	60	120	125	60	480
11	80	160	166	100	610
14	100	200	207	140	750

Dimensions in [mm]

Dimensions – (Helical)-bevel gearboxes

Mounting kit for hollow shaft retention – Design proposal for auxiliary tools



Bevel gearbox GKR □□

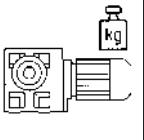
5

Gearbox size	Hollow shaft (design H)			Mounting kit for hollow shaft retention (auxiliary tool mounting)			Auxiliary tool Disassembly		Machine shaft
	I	I ₁	d H7	d ₂	I ₉	c ₇	c ₈	c ₉	max I ₈
04	120	106	20 25	M6 M10	40	4 5	6 10	3	95 92

Helical-bevel gearbox GKS □□

Gearbox size	Hollow shaft (design H)			Mounting kit for hollow shaft retention (auxiliary tool mounting)			Auxiliary tool Disassembly		Machine shaft
	I	I ₁	d H7	d ₂	I ₉	c ₇	c ₈	c ₉	max I ₈
04	115	100	25 30	M10 M10	40	5 6	10	3	85
05	140	124	30 35	M10 M12	40 50	6 7	10 12	3	107
06	160	140	40 45	M16	60	8 9	16	4	118
07	200	175	50 55	M16 M20	60 80	10 11	16 20	5	148
09	240	210	60 70	M20	80	13 14	20	5	182
11	290	250	70 80	M20	80	14 16	20	6	221
14	350	305	100	M24	100	20	24	8	270

Dimensions in [mm]



(Helical)-bevel gearboxes

Weights

Bevel gearbox GKR □□-2

Gearbox size	Geared motors GKR□□-2M H□R with motor frame size											
	063		071		080							
-1□	-3□	-1□	-3□	-1□	-3□	-1□	-3□	-1□	-3□	-1□	-3□	-1□
04	8.4		9.0		11		11		15		16	

Gearbox size	Gearbox with mounting flange for IEC standard motors GKR□□-2N H□R with drive size		
	1A	□B	□C
04	7.8	8.4	12

Additional weights GKR □□

Gearbox size	Solid shaft V□□	2n input shaft end V□□	Hollow shaft with shrink disc S□□	Flange □□K	Torque plate Pitch circle
	04	0.3	0.1	0.3	0.5

Helical-bevel gearbox GKS □□-3

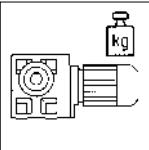
Gearbox size	Geared motors GKS□□-3M H□R with motor frame size																				
	063		071		080		090		100		112		132		160		180		200		
-1□	-3□	-1□	-3□	-1□	-3□	-1□	-3□	-1□	-3□	-12/-31	-32/41	-22/-31	-32/-41	-2□	-3□	-22	-32	-22	-32	-12	-22
04	15	16	18	18	21	22	27	30													
05			28	28	31	32	37	40	43	47											
06			42	42	45	46	51	54	57	61	74	80									
07					71	72	77	80	83	87	99	105	129	129	171	191					
09							125	128	131	135	147	153	178	178	220	240	319	346	420		
11									231	235	246	252	276	276	318	338	417	444	518	570	640
14											417	423	444	444	486	506	585	612	685	737	807

Gearbox size	Gearbox with mounting flange for IEC motors GKS□□-3N H□R with drive size												Gearbox with free input shaft GKS□□-3W H□R with drive size										
	1A	□B	□C	□D	□E	□F	1G	2G	1H	2H	3H	1K	2K	1A	1B	1C	1D	1E	1F	1G	1H	1K	
04	15	16	18	21										13	14	16							
05		25	28	31	33											24	25	27					
06		39	42	45	48	49										39	42	45	53				
07		68	71	73	75	98	95	106		102						67	71	79	84				
09			119	122	123	147	144	155	159	151	175					118	127	133	148				
11				221	222	245	242	253	257	249	273	280					226	231	246	261			
14						413	410	421	425	417	440	447					399	414	428				

Weights in [kg] with the oil filling for mounting position A, all indications as approx. values

(Helical)-bevel gearboxes

Weights



Helical-bevel gearbox GKS □□-4

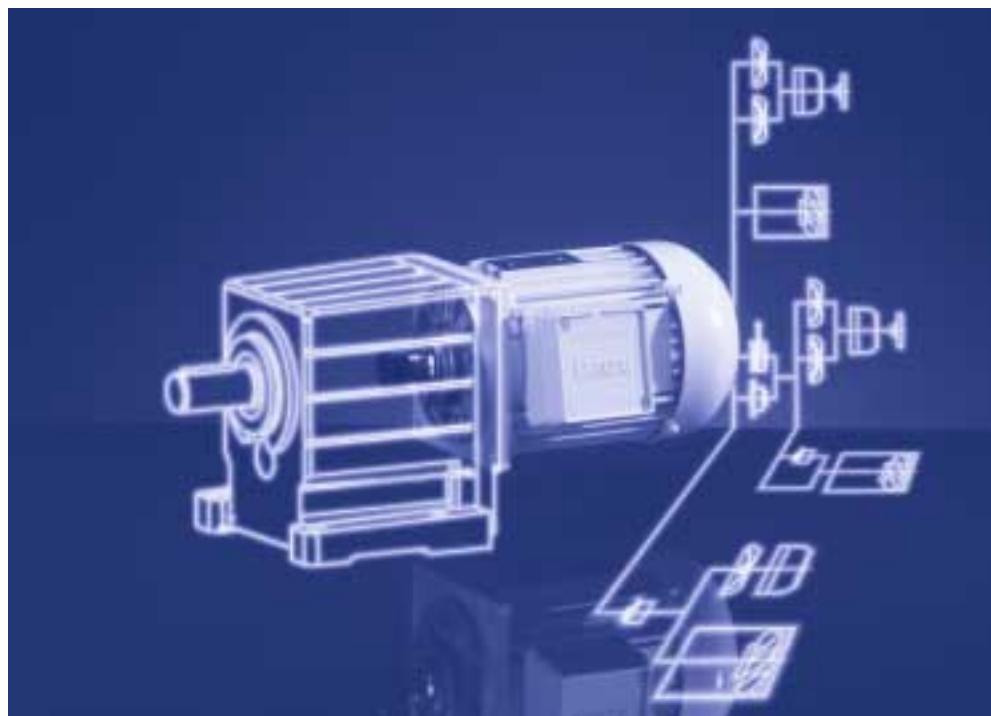
Gearbox size	Geared motors GKS□□-4M H□R with motor frame size															
	063		071		080		090		100		112		132		160	
-1□	-3□	-1□	-3□	-1□	-3□	-1□	-3□	-12/-31	-32/41	-22/-31	-32/-41	-2□	-3□	-22	-32	
05	26	27	29	29	32	33	37	40								
06	43	44	46	46	49	50	54	57								
07			76	76	79	80	85	88	91	95						
09			129	129	132	133	138	141	144	148	161	167				
11					240	241	246	249	252	256	268	274	298	298		
14						431	434	437	441	453	459	484	484	526	546	

Gearbox size	Gearbox with mounting flange for IEC motors GKS□□-4N H□R with drive size										Gearbox with free input shaft GKS□□-4W H□R with drive size								
	1A	1B	1C	1D	1E	1F	1G	2G	1H	2H	3H	1A	1B	1C	1D	1E	1F	1G	1H
05	25	26	29	32								24	24	26					
06	42	43	46	49								41	41	43					
07		73	76	79	81							72	73	75					
09		126	129	132	135	136							126	129	132	141			
11		237	240	242	244	267	264						236	240	248	253			
14			425	428	429	453	450	461	465	457				424	433	439	454		

Additional weights

Gearbox size	Solid shaft V□□		2nd input shaft end V□□		Hollow shaft with shrink disc S□□		Flange □□K		Torque plate Housing foot		Torque plate Pitch circle	
	0.6	0.2	0.3	0.8	1	1.5	3	11	16	24	33	44
04												
05	1											
06	2.5											
07	5											
09	8											
11	16											
14	33											

Weights in [kg] with the oil filling for mounting position A, all indications as approx. values



Motor options

Drive selection

Motor connection	
Terminal box	7-2
Terminal assignment	7-3
Plug-in connector HAN	7-4
Plug-in connector ICN	7-6
Motor protection	
Thermal contacts	7-7
PTC thermistors	7-7
Continuous thermistors	7-7
Separate fan	7-8
Holding systems	
Spring-operated brake	7-9
Backstop	7-11
Speed encoder	
Pulse inhibit	7-12
Resolver	7-12
Hand wheel	7-13
Increased centrifugal mass	7-14

Dimensions

Motor terminal box	7-15
Geared motor with internal fan	7-16
Geared motor with separate fan	7-17
Geared motor with hand wheel	7-18
Geared motor with 2nd shaft end	7-19
Geared motor with protection cover	7-20
Geared motor with separate fan and protection cover	7-21
Geared brake motor with manual release lever	7-22

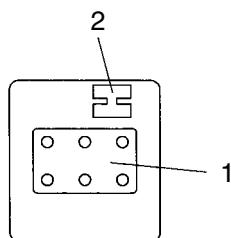


Drive selection – Motor options

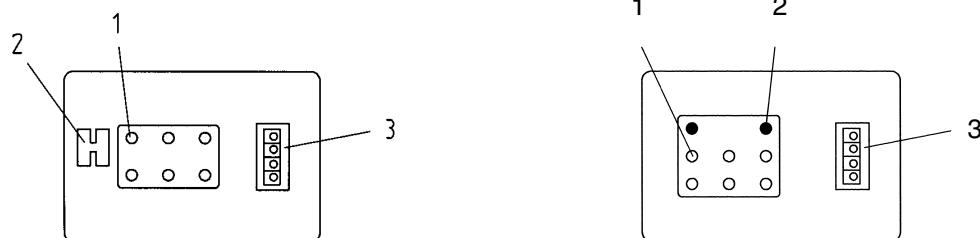
Motor connection

Position	Name
1	Motor terminal board
2	Temperature sensor connection
3	Rectifier / clamp (24 V DC) for spring-operated brake
4	Terminal strip: Speed / position encoder connection

Motor terminal box KK1

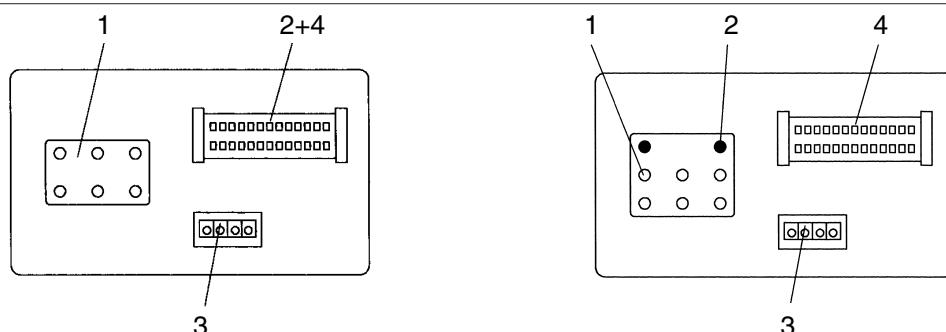


Motor terminal box KK2



7

Motor terminal box KK3



Drive selection – Motor options

Motor connection



Terminal assignment

Clamp (pos. 3)

Meaning	Name
Brake DC excited +	1
Brake DC excited -	2

Rectifier (pos. 3)

Meaning	Name	Addition
Brake AC excited	~	Bridge rectifier/half wave rectifier Connection to L1 mains
	~	Bridge rectifier Connection to N mains
	~	Half wave rectifier Connection to L2 or L3 mains
	+	Connection to brake
	-	Connection to brake

Terminal strip (pos. 4)

	Meaning	Addition	Connection cross-section	Name
1	Thermal contact (NC contact) TKO			S1
2	Thermal contact (NC contact) TKO			S2
1	PTC thermistor			P1
2	PTC thermistor			P2
1	KTY thermistor			T1
2	KTY thermistor			T2
3	Resolver Ref +		0.14 mm ²	B1
4	Resolver Ref -		0.14 mm ²	B2
5			0.14 mm ²	B3
6	Resolver cos +		0.14 mm ²	B4
7	Resolver cos -		0.14 mm ²	B5
8	Resolver sin +		0.14 mm ²	B6
9	Resolver sin -		0.14 mm ²	B7
3	Increm. encoder supply +	Supply GND (ground)	0.14 mm ²	B1
4	Increm. encoder supply -		0.14 mm ²	B2
5	Increm. encoder output channel A		0.14 mm ²	B3
6	Increm. encoder output channel A-	inverse	0.14 mm ²	B4
7	Increm. encoder output channel B		0.14 mm ²	B5
8	Increm. encoder output channel B-	inverse	0.14 mm ²	B6
9	Increm. encoder output channel C	Zero track	0.14 mm ²	B7
10	Increm. encoder output channel C-	inverse	0.14 mm ²	B8
11	Mass/sensor -		0.14 mm ²	B9
12	Shield		0.14 mm ²	B10
13	Sensor +		0.14 mm ²	B11



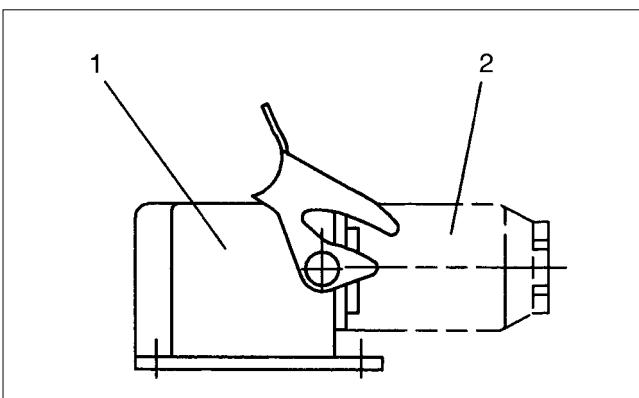
Drive selection – Motor options

Motor connection

Plug-in connector HAN

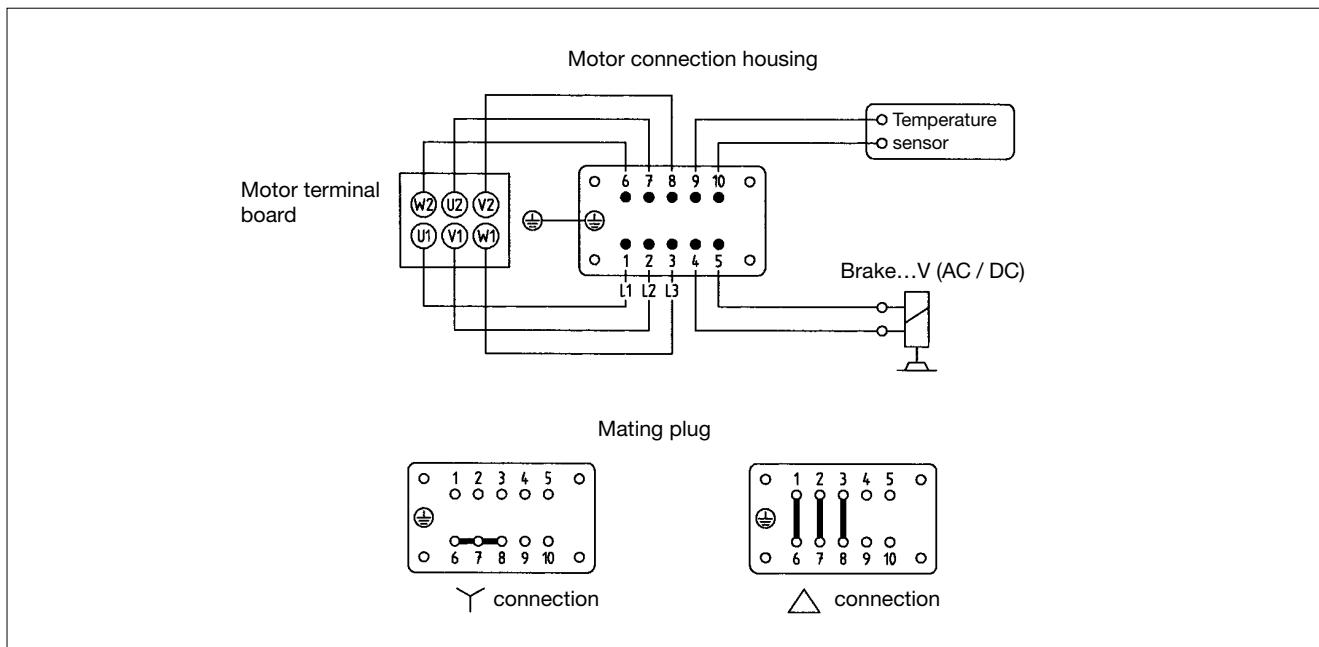
General data

Design	Plug-in connector to industry standard with quick lock. Motor connection (Y/Δ) is determined in the mating connector (not part of delivery package).
Enclosure when locked	IP 65
No. of contacts	10 + PE
Permissible rated current	16 A
Permissible rated voltage	500 V (AC)



Position	Name
1	Motor connection housing HAN
2	Mating connector (not part of delivery package)

Pin assignment

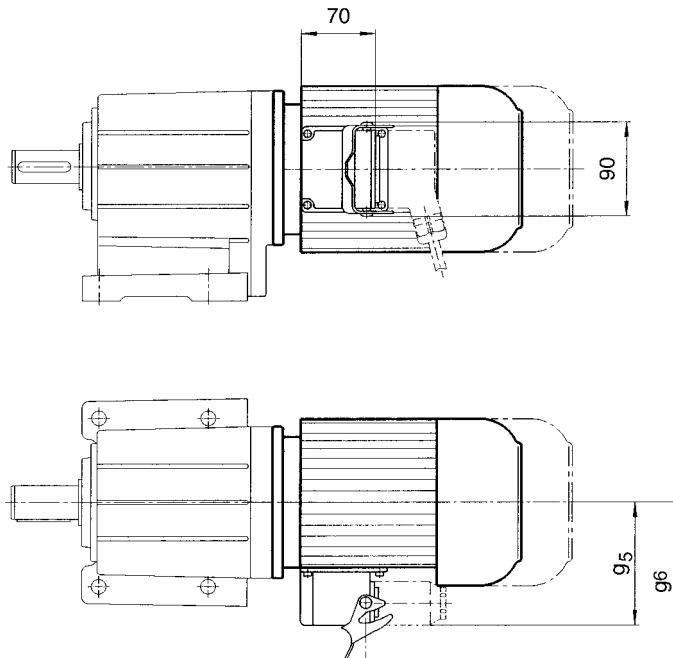


Drive selection – Motor options

Motor connection



Plug-in connector HAN



Motor frame size	g5	g6
71	128	165
80	128	165
90	140	176
100	152	188
112	165	201

Dimensions in [mm]



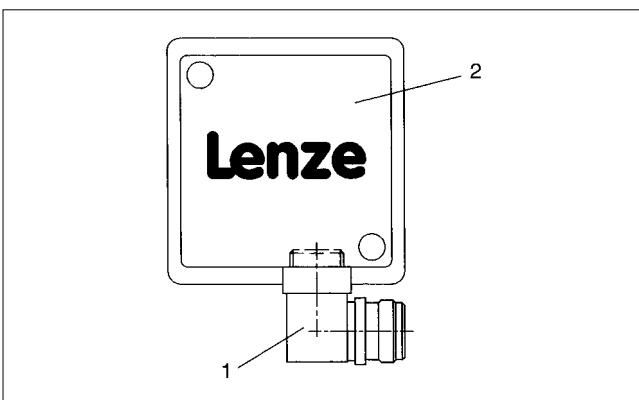
Drive selection – Motor options

Motor connection

Plug-in connector ICN

General data

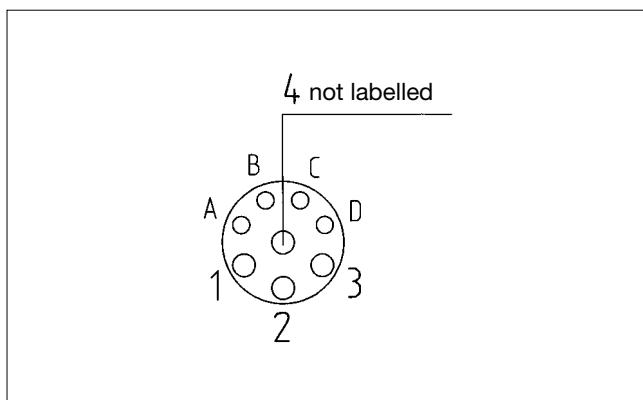
Design	Plug-in connector to industry standard with screw connection. The motor connection is determined in the terminal box and must be checked before commissioning. (The mating plug is not included in the delivery package.)	
Enclosure	IP65	
No. of contacts	Power: 3 + PE	Signal: 3 + PE
Permissible rated current	20 A	9 A
Permissible rated voltage	630 V (AC)	



Position	Name
1	Plug-in connector
2	Motor terminal box

Mating plug is not included in the delivery package

Pin assignment



Pin No.	Connection	Connection Name	Recommended lead colour	Motor frame size	Recommended connection cross-section
1	Phase	U	brown	071....112	1.5 mm ²
2	Protective earth conductor	PE	green-yellow		
3	Phase	W	black		
4	Phase	V	blue		
A	Temperature sensor	Th	white		
B	Temperature sensor	Th	white		
C	Brake	Br	blue		
D	Brake	Br	black		0.75 mm ²

Drive selection – Motor options

Motor protection



The temperature sensors are integrated into the windings.
The use of an additional motor circuit breaker is recommended for mains operation.

Thermal contacts

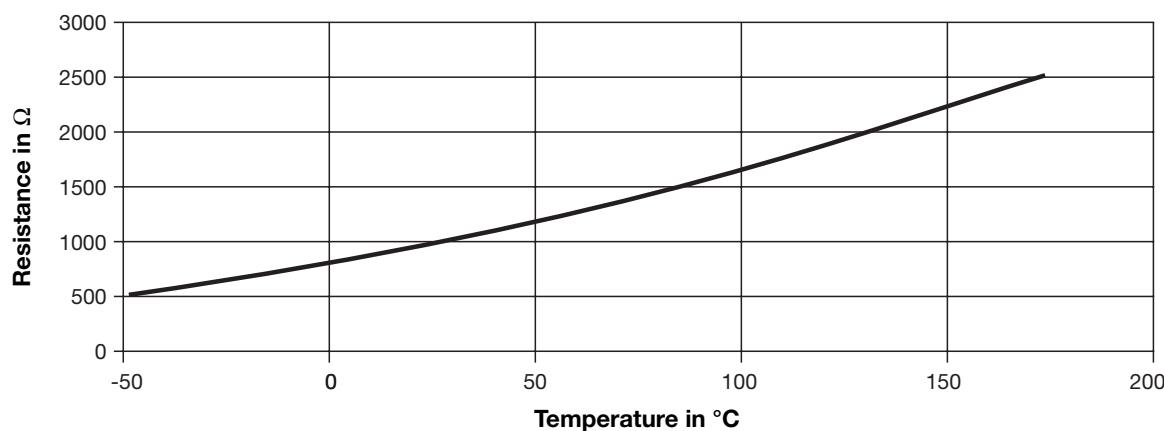
Motor type	Function	Tripping temperature [°C]	Reset temperature [°C]	Current loading capacity [A]	Permissible voltage loading capacity [V] AC
All	NC contact	150 ± 5	90-135	2.5	250

PTC thermistor

Motor type	Function	Tripping temperature [°C]	Resistance at		Standards
			155 °C [Ω]	-20...+140° [Ω]	
All	Abrupt resistance change	150 ± 5	550	30...250	DIN 44080 VDE 0660 Teil 303

Continuous temperature sensor KTY

Motor type	Function	Resistance at (see characteristic)			Permissible current loading capacity at	
		175 °C [Ω]	150 °C [Ω]	25 °C [Ω]	175 °C [mA]	25 °C [mA]
All	Continuous resistance change	2535	2225	1000	2.0	10





Drive selection – Motor options

Separate fan

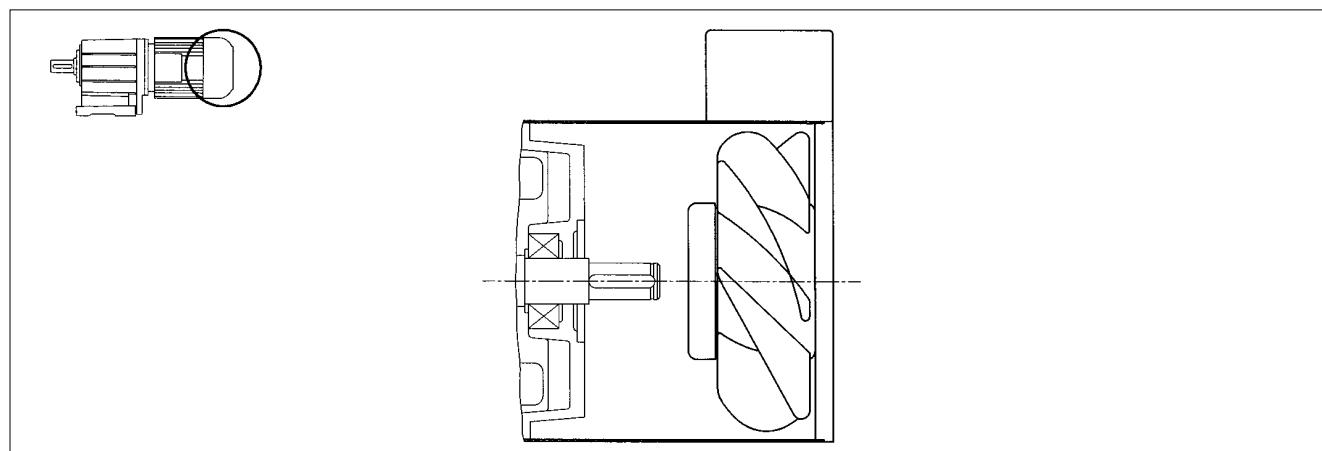
Geared motors and geared brake motors can be equipped with an axial separate fan. They are installed in an extended motor fan cover with separate terminal box.

General data

	063...160	Motor frame size	180...225
Design	1~ or 3~		3~
Type of protection	IP 55		IP 54
Thermal class	F		F
Control mode	S1		S1

Rated data

Motor frame size	Design	Connection	V_r [V]	f_r [Hz]	I_r [A]	P_r [W]	Weight m [kg]
63	1~ 3~		210-240 360-420	50 / 60	0.12 0.07	19 19	1.6
71	1~ 3~		210-240 360-420	50 / 60	0.12 0.07	19 19	1.6
80	1~ 3~		210-240 360-420	50 / 60	0.32 0.16	46 41	2.3
90	1~ 3~ 3~	Y Δ	210-240 360-530 210-305	50 / 60	0.22 0.08 0.14	50 31 31	3.1
100	1~ 3~ 3~	Y Δ	210-240 360-530 210-305	50 / 60	0.16 0.08 0.14	30 34 34	3.5
112	1~ 3~ 3~	Y Δ	210-240 360-530 210-305	50 / 60	0.30 0.14 0.24	80 61 61	3.9
132	1~ 3~ 3~	Y Δ	210-240 360-530 210-305	50 / 60	0.55 0.26 0.45	125 132 132	5.3
160	1~ 3~ 3~	Y Δ	210-240 360-530 210-305	50 / 60	0.71 0.40 0.70	160 218 218	6
180	3~ 3~	Y Δ	220-240 380-415	50 / 60	1.10 0.65	530 530	7
200	3~ 3~	Y Δ	220-240 380-415	50 / 60	1.50 0.87	590 590	10
225	3~ 3~	Y Δ	220-240 380-415	50 / 60	1.90 1.10	780 780	12





Spring-operated brakes

Brake motors are equipped with Lenze spring-operated brakes. The rectifier required for mains operation is integrated in the terminal box. It is part of the delivery package. A principle drawing of the brake is on page 7-10. The brakes are fail safe (normally-on principle).

The indicated brake torques are valid for quasi-static and low-wear operation of the brake used as holding brake. The air gap is factory set and can be readjusted if wear occurs.

General data

Design	Single-disc spring-operated brakes
Torque generation	Brake torque is generated when no voltage is applied
Enclosure	IP 54
Thermal class	F
Friction surfaces	asbestos-free
Option	<ul style="list-style-type: none"> • Manual release (see notes on page 7-22) • Low noise

Rated data

Size	P _{20°} [W]	M _B [Nm]	J _B [10 ⁻³ kgcm ²]	m [kg]	Connection voltage	Assigned brake voltage
06	20	4	0.015	0.9		
08	25	8	0.061	1.5		
10	30	16	0.20	2.6		
12	40	32	0.45	4.2		
14	50	60	0.63	5.8		
16	55	80	1.5	8.7		
18	85	150	2.9	12.6		
20	100	260	7.3	19.5		
25	110	400	20.0	31.0		

Possible combinations

Brake									
Size	06	08	10	12	14	16	18	20	25
Motor frame size									
063	●								
071	●								
080		● ¹⁾							
090		● ³⁾	●						
100			●	● ²⁾					
112				●	● ²⁾				
132					●	●			
160-22					●	●			
160-32						●			
180						●	●		
200						●	●	●	
225									●

¹⁾ With hand wheel or B-side shaft end only without adjuster nut.

²⁾ With resolver or pulse encoder only without adjuster nut.

³⁾ Low-noise design not possible.

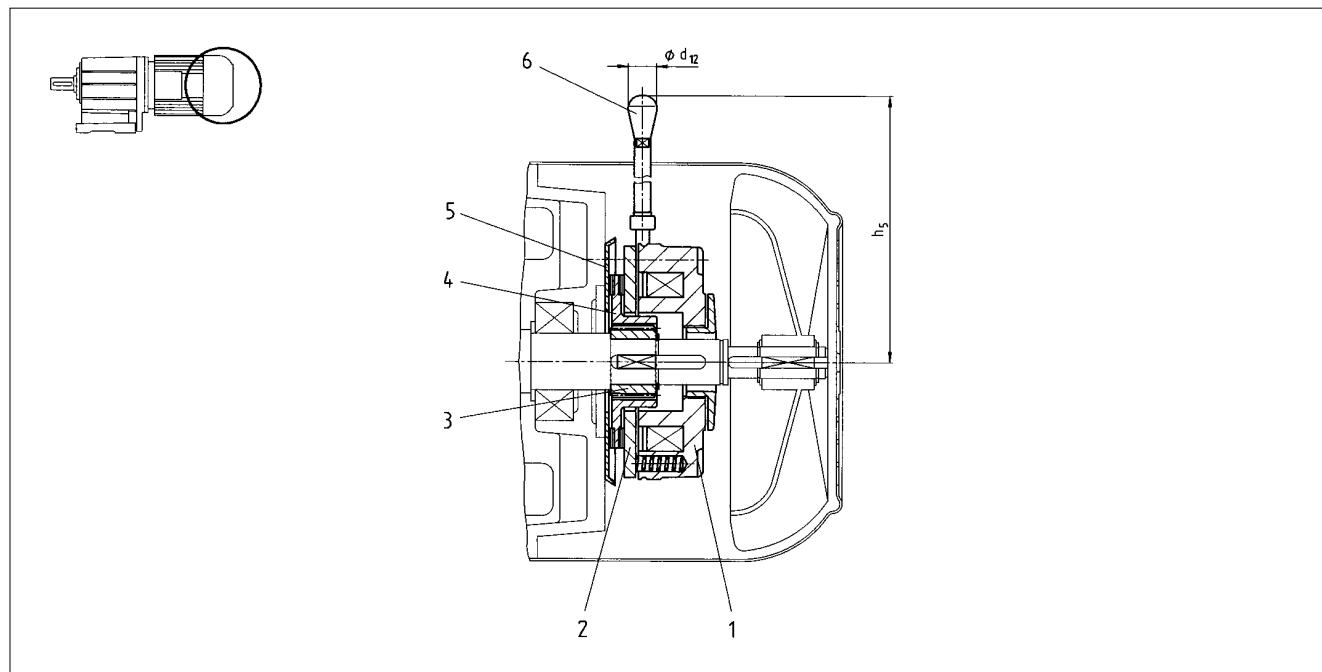


Drive selection – Motor options

Holding systems

Spring-operated brake

Position	Name
1	Stator
2	Armature plate
3	Hub
4	Rotor
5	Friction plate
6	Manual release (option)



Spring-operated brake size	d12	h5
06	13	109
08	13	118
10	13	134
12	13	164
14	24	196
16	24	240
18	24	347
20	24	418
25	24	504

Drive selection – Motor options

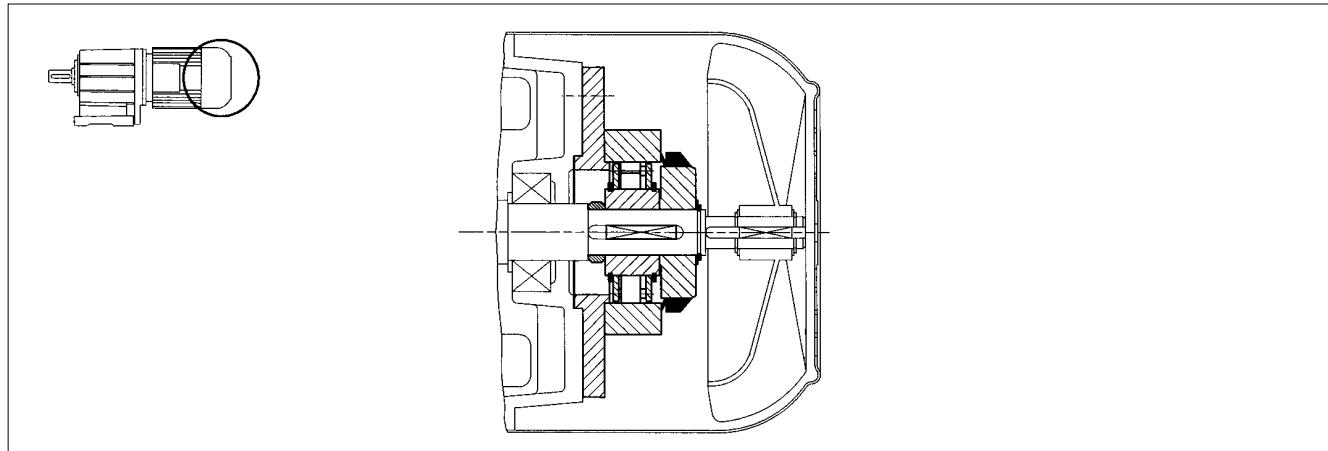
Holding systems



Backstop

Design	Clamp, lifted by centrifugal force
Function principle	Mechanically inhibited against direction of rotation during operation
Enclosure	IP 55
Technical notes	<ul style="list-style-type: none"> – Operation below lifting speed is only permitted for a short time – Indicate in your order the direction of rotation of the motor shaft with view on the fan cover – Motor start in inhibited direction not permitted!

Motor frame size	Inhibit torque static [Nm]	Backstop	m [kg]
		Lifting speed clamp [1/min]	
063	24	900	0.7
071	24	900	0.7
080	72	900	1.9
090	156	700	2.4
100	156	700	2.4
112	156	700	2.4
132	300	850	2.9



7

Direction of rotation			
GST	GFL	GKS	GSS



Drive selection – Motor options

Speed / position encoder

Incremental encoder

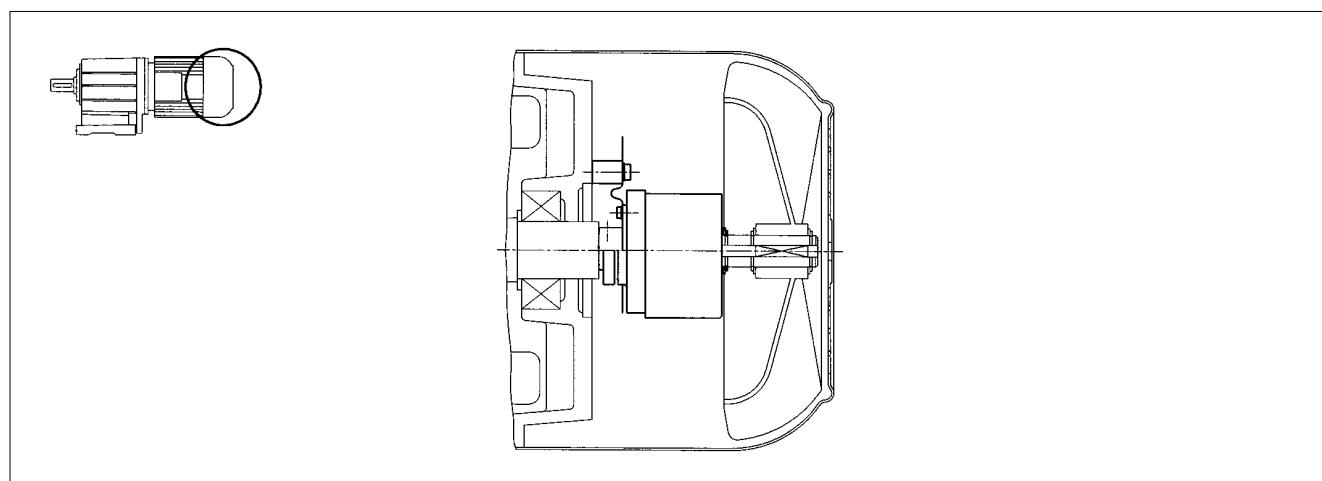
Digital detection of the actual value, directly evaluable at the 9300 servo. Zero pulse for reference when separating the positions.

Type	ITD 21 TTL	ITD 21 HTL
Design	Hollow shaft incremental encoder	
Type of protection	IP54	
Voltage level	TTL	HTL
No. of pulses	2048 or 512 pulses/revolution	
Tracks	2 tracks, 2 inverse tracks and zero pulse	
Supply voltage	5 V DC ± 5%	8 ... 30 V DC
Frequency limit	300 kHz	160 kHz
Temperature range	-20... +70 °C	

Resolver

Stator supplied resolver with 2 stator windings turned by 90° and a rotor winding with transformer winding.

Type	TS 2651
Design	Brush-less hollow-shaft resolver with bearing
Type of protection	IP 54
Input voltage	10 V amplitude
Input frequency	4 kHz
Stator/rotor ratio	0.3 ± 5 %
Rotor impedance	Zro
Stator impedance	Zs0
Impedance	Zrs
Insulation resistance	> 10 MΩ at 500 V DC
No. of pole pairs	1
Maximum phase error	± 10 angular minutes
Temperature range	-10 °C...+150 °C



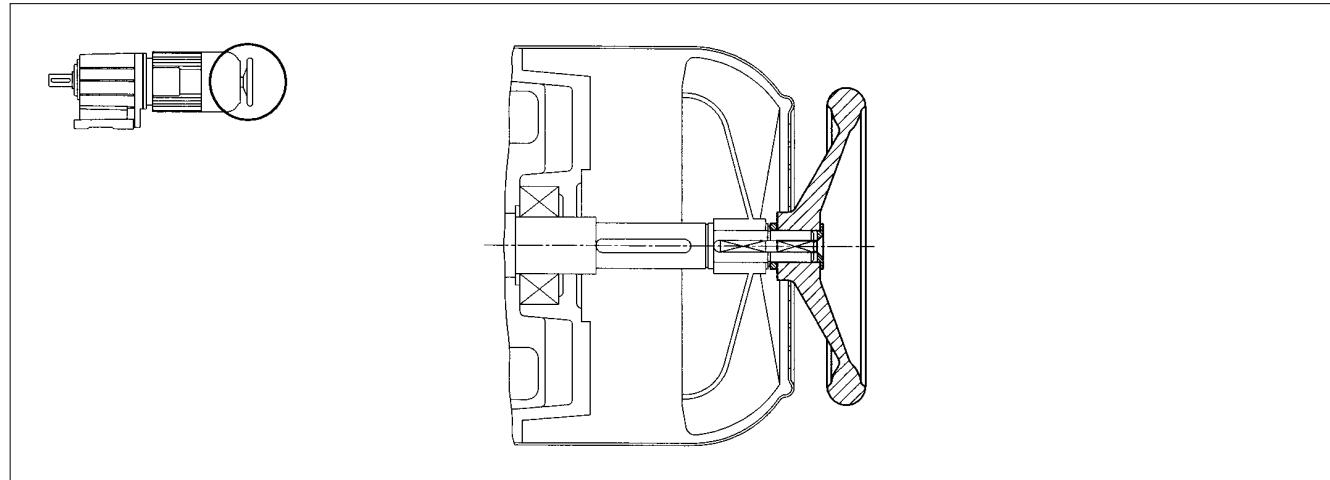
Drive selection – Motor options

Hand wheel



Design	Light metal hand wheel, smooth surface
Function	Manual operation: <ul style="list-style-type: none"> • Emergency operation • Setting-up operation of machines / systems
Technical note	The increased mass inertia is to be observed for planning! For repeated switching, especially for changes of the direction of rotation: Please contact Lenze

Motor frame size	Diameter d [mm]	Hand wheel	
		Additional mass inertia [10^{-3} kgm 2]	[kg]
071	160	1.6	0.6
080	160	1.6	0.6
090	160	1.6	0.6
100	160	1.6	0.6
112	160	1.6	0.6
132	250	13.9	1.8



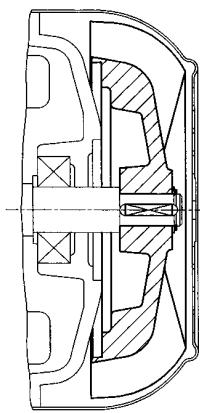
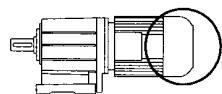


Drive selection – Motor options

Increased inertia

Design	Cast iron integral fan
Function principle	Increased motor inertia for smooth start and stop
Technical note	<p>The increased motor inertia must be observed for planning!</p> <p>For repeated switchings, especially for changes of direction of rotation:</p> <p>Please contact Lenze</p>

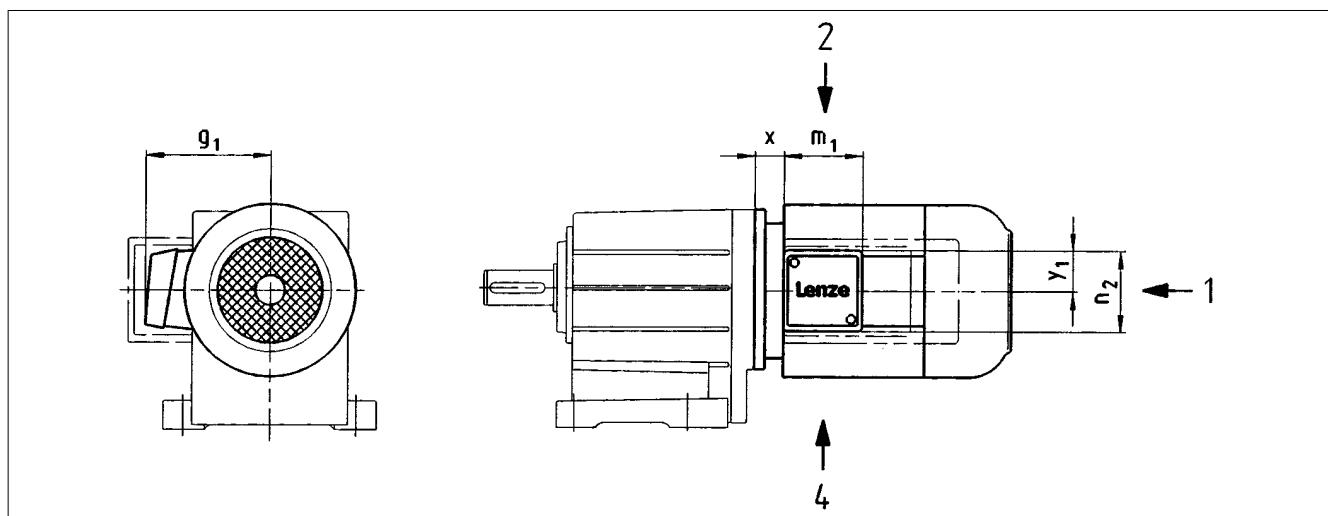
Motor frame size	Additional inertia [10^{-3} kgm 2]	m [kg]
071	1.8	0.9
080	2.4	1.4
090	5.5	1.9
100	7.7	2.5
112	15.3	3.8
132	35.6	6.0



Dimensions – Motor options

Motor terminal box

mm



Motor frame size	063	071	080	090	100	112	132	160
Terminal box KK1	g₁	105	130	130	141	154	167	202
	m₁	97	88	88	88	88	118	226
	n₂	97	96	96	92	92	131	127
	x	32	26	27	32	30	43	36
	y₁	48.5	56	56	46	46	63.5	
Cable glands	Position 1							4x M12x1.5
	Position 2							2x M16x1.5 1x M20x1.5 1x M50x1.5
	Position 4	1x M20x1.5 1x M25x1.5	2x M20x1.5	2x M20x1.5	2x M20x1.5	2x M20x1.5	2x M25x1.5	2x M16x1.5 1x M20x1.5 1x M50x1.5
Terminal box KK2	g₁	105	131	131	140	151	169	204
	m₁	97	145	145	145	145	145	226
	n₂	97	98	98	97	97	98	131
	x	32	18	18	24	21	31	36
	y₁	48.5	59	59	48,5	48,5	68	95
Cable glands	Position 1	2x M12x1.5					1x M16x1.5	4x M12x1.5
	Position 2							2x M16x1.5 1x M20x1.5 1x M50x1.5
	Position 4	1x M20x1.5 1x M25x1.5	1x M12x1.5 1x M16x1.5 2x M20x1.5	2x M25x1.5	2x M16x1.5 1x M20x1.5 1x M50x1.5			
Terminal box KK3	g₁	120	145	145	152	163	183	221
	m₁	200	200	200	200	200	200	226
	n₂	120	121	121	120	120	119	125
	x	27	17	17	23	20	30	47
	y₁	60	72	72	60	60	83	100
Cable glands	Position 1	4x M12x1.5						
	Position 2	1x M16x1.5 2x M20x1.5 1x M25x1.5	2x M16x1.5 1x M20x1.5 1x M50x1.5					
	Position 4	1x M16x1.5 2x M20x1.5 1x M25x1.5	1x M16x1.5 2x M20x1.5 1x M50x1.5	2x M16x1.5 1x M20x1.5 1x M50x1.5				

Dimensions in mm

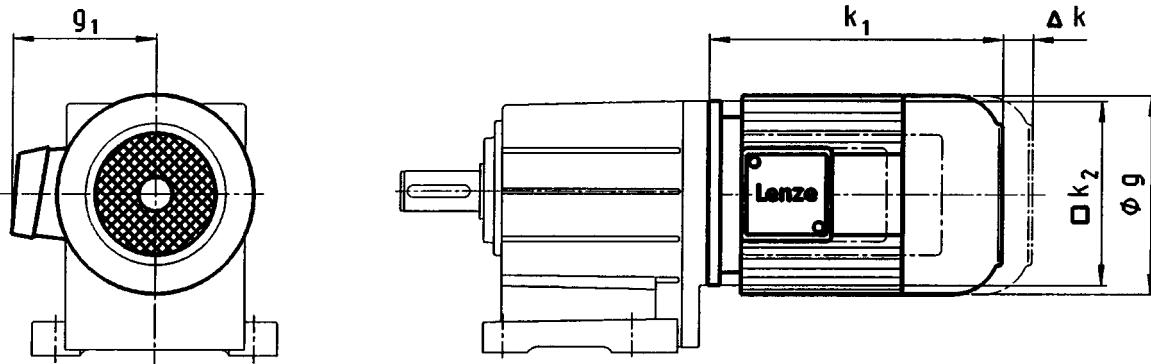
Position of the cable glands refers to terminal box in position 5.

mm



Dimensions – Motor options

Geared motor with integral fan



Motor frame size		063	071	080	090	100	112	132	160
		-1□/-3□	-1□/-3□	-1□/-3□	-1□/-3□	-12 -31 -32 -41	-22/-31 -32 -41	-2□/-3□	-22 -32
Motor	g	129	142	156	178	194	222	262	310
	g1	104	130	130	141	154	167	202	215
	KK1	104	131	131	140	151	169	204	215
	KK2	120	145	145	152	163	183	221	215
	KK3	193 204	176	225	242	280 280 310 310	323 343 323	409 458 502	
	k1¹⁾	100	145	145	180	180	222	265	300
Attachments	Motor terminal box	Δ k							
Fan	KK1	0	0	0	0	0	0	0	0
Cast iron fan	KK1	-	0	0	0	94 ²⁾	0	0	-
Brake + fan	KK2	56	66	68	74	94	101	127	113
Brake + cast iron fan	KK2	-	66	68	74	94	101	127	-
Speed/pos. encoder + fan	KK3	56	66	68	87	100	99	108	105
Backstop + fan	KK1	56	66	68	74	94	101	127	-
Backstop + cast iron fan	KK1	-	66	68	74	94	101	127	-

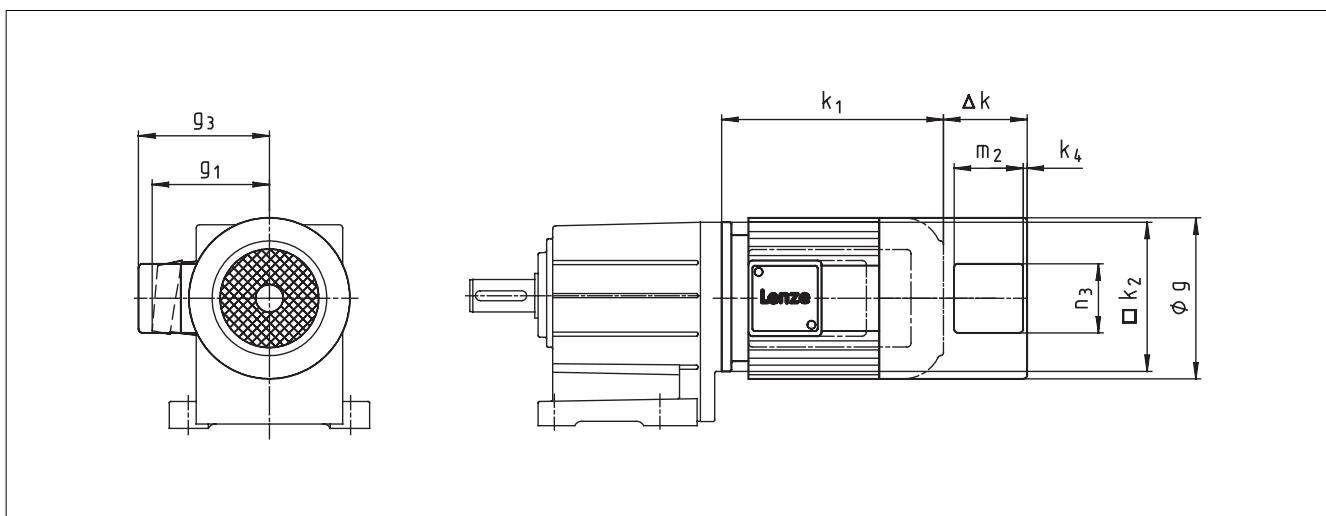
Dimensions in [mm]

¹⁾ Dimensions without options²⁾ Terminal box KK2

Dimensions – Motor options

Geared motor with separate fan

mm



Motor fan size		063 -1□ -3□	071 -1□/-3□	080 -1□/-3□	090 -1□/-3□	100 -12 -31 -32 -41	112 -22/-31 -32 -41	132 -2□/-3□	160 -22 -32
Motor	g	129	142	156	178	194	222	262	310
	g1	104	130	130	141	154	167	202	215
	KK1								
	KK2	104	131	131	140	151	169	204	215
	KK3	120	145	145	152	163	183	221	215
	g3	110	120	127	151	159	173	193	217
	k1¹⁾	193 204	176	225	242	280 280 310 310	323 343 323	409 458 502	
	k2	100	145	145	180	180	222	265	300
	k4	5	5	5	5	5	5	5	5
	m2	70	70	70	85	85	85	85	85
	n3	70	70	70	85	85	85	85	85
Cable glands	Pos. 4	M16x1.5	M16x1.5	M16x1.5	M16x1.5	M16x1.5	M16x1.5	M16x1.5	M16x1.5
Attachments	Motor terminal box	Δ k							
Separate fan	KK1	71	80	94	101	97	95	104	113
Speed/pos. encoder + separate fan	KK3	71	134	94	101	97	183	218	225
Brake + fan	KK2	118	134	150	164	169	183	218	225
Brake + speed/ pos. encoder + separate fan	KK3	118	134	150	164	169	183	218	225
Backstop + separate fan	KK1	118	134	150	164	169	183	218	-

Dimensions in [mm]

¹⁾ Dimensions without options

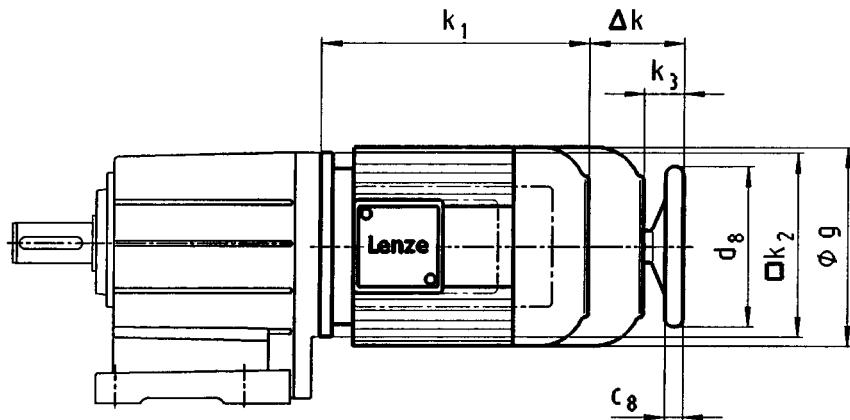
Position of the cable glands refers to terminal box in position 5.

mm



Dimensions – Motor options

Geared motor with hand wheel



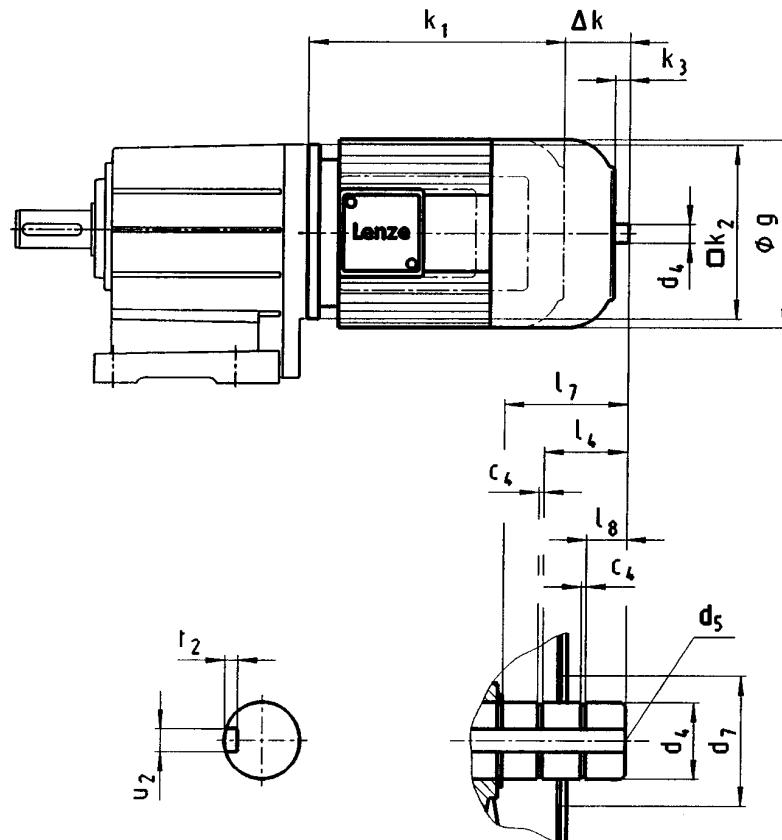
Motor frame size	071 -1□/-3□	080 -1□/-3□	090 -1□/-3□	100				112			132 -2□/-3□
Motor	g	142	156	178	194				222		
	k1	176	225	242	280	280	310	310	323	343	323
	k2	145	145	180	180				222		
	k3	35	33	32	40				39		
	Δk	85	86	87	108				116		
Hand wheel	d8	160	160	160	160				160		
	c8	18	18	18	18				18		

Dimensions in [mm]

Dimensions – Motor options

Geared motor with 2nd shaft end

mm



Motor frame size	071 -1□/-3□	080 -1□/-3□	090 -1□/-3□	100				112			132 -2□/-3□
Motor	g	142	156	178	-12	-31	-32	-41	-22/-31	-32	-41
k1	176	225	242	280	280	310	310	323	343	323	409
k2	145	145	180		180			222		222	265
k3	12	10	9		17			16		24	
Δk	62	63	64		85			93		118	
Shaft end	c4	1.1	1.1	1.1		1.3		1.3		1.3	1.6
d4	14 h6	14 h6	14 h6		20 j6			20 j6		30 j6	
d5	M5	M5	M5		M6			M6		M10	
d7 ¹⁾	32	32	32		32			32		46	
l4	-	-	-		17			17		24	
l7	19	19	19		32.5			30.5		46	
l8	3	4.5	5		10.5			7.6		12.5	
u2	5	5	5		6			6		8	
t2	3	3	3		3.5			3.5		4	

Dimensions in [mm]

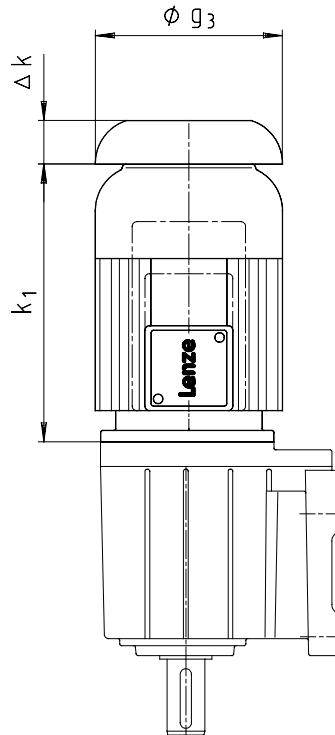
¹⁾ The opening of the fan cover must be protected against contact during operation.

mm



Dimensions – Motor options

Geared motor with protection cover



Motor frame size	071	080	090	100				112			132	160	
	-1□/-3□	-1□/-3□	-1□/-3□	-12	-31	-32	-41	-22/-31	-32	-41	-2□/-3□	-22	-22
Motor	g₃	142	156	178	194				222			262	310
	k1¹⁾	176	225	242	280	280	310	310	323	343	323	409	458 502
Attachments													
Δk													
Fan	13	17	16	18				18			21	25	
Cast iron fan	13	17	16	112				18			21	-	
Brake + fan	79	85	90	112				119			148	138	
Brake + cast iron fan	79	85	90	112				119			148	-	
Speed/pos. encoder + fan	79	85	103	118				117			129	130	
Backstop + fan	79	85	90	112				119			148	-	
Backstop + cast iron fan	79	85	90	112				119			148	-	

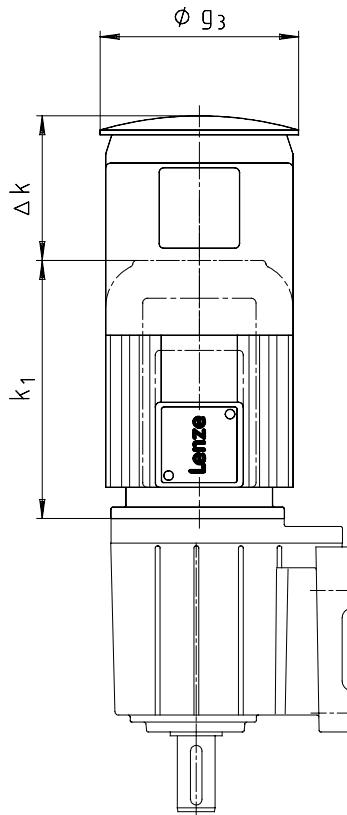
Dimensions in [mm]

¹⁾ Dimensions without options

Dimensions – Motor options

Geared motor with separate fan and protection cover

mm



Motor frame size	063	071	080	090	100	112	132	160
	-1□ -3□	-1□/-3□	-1□/-3□	-1□/-3□	-12 -31 -32 -41	-22/-31 -32 -41	-1□/-3□	-22 -32
Motor	g₃	133	150	170	188	210	249	300
	k₁¹⁾	193 204	176	225	242	280 280 310 310	323 343 323	409 458 502
Attachments								
Separate fan	121	130	144	156	147	150	159	173
Speed/pos. encoder + Separate fan	168	184	144	156	147	238	273	285
Brake + separate fan	168	184	200	219	219	238	273	285
Brake + speed/ pos. encoder + separate fan	168	184	200	219	219	238	273	285
Backstop + separate fan	168	184	200	219	219	238	273	-

Dimensions in [mm]

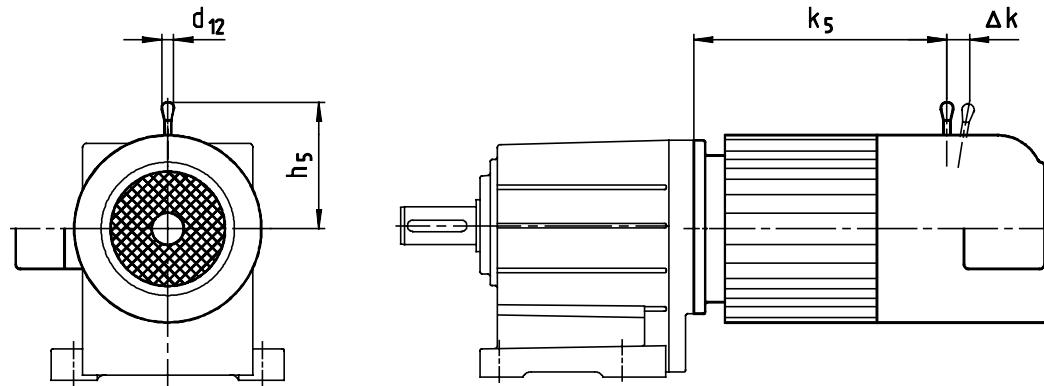
¹⁾ Dimensions without options

mm



Dimensions – Motor options

Geared brake motor with manual release lever



Motor frame size				063	071	080	090	100	112	132	160	
Brake size	d12	h5	Δ k	k5								
06	13	109	23	169	181	170						
08	13	118	21			212	224					
10	13	134	21			235	268	298				
12	13	164	29				270	300	303	323	303	
14	24	196	31						307	327	307	393
16	24	240	42								396	420
18	24	347	55								423	467

Dimensions in [mm]

Caution: Manual release lever and motor terminal box KK2 in same position only possible with = motor frame size 080!
Manual release lever and motor terminal box KK3 in same position only possible with = motor frame size 100!

Fax order form

to Lenze subsidiary

Fax No. _____

Sender

Company _____

Address _____

Date Signature _____

Customer No.

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

Order No. _____

Name of the person placing the order _____

Department _____

Telephone _____

Delivery address (if different from recipient's address)

Address _____

Invoice address (if different from recipient)

Address _____

Delivery desired by _____

Delivery notes _____

Customer No.

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

Order No.

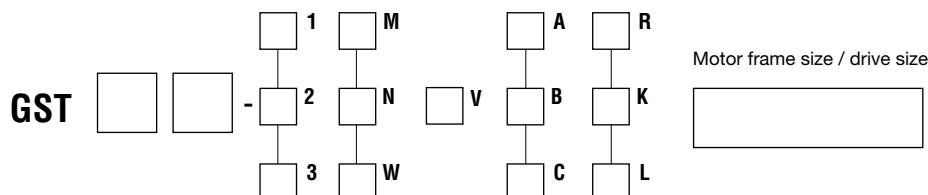
--

Pcs.

i =

--

Price per item



Further order information

Dimensions

K	L
---	---

Flange a2 = mm

Position of the system modules
(use 0 for undefined positions)

Terminal box

0 2 3 4 5

--	--	--	--	--

Mounting position

A B C D E F

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

Colour

Finishing coat RAL 9018 Primary coat grey

Options

Special lubricant

CLP-HC 320

CLP-H1 220

Special coat

RAL

--

Output shaft bearing

Reinforced bearing

Shaft seals

Viton

Design N: Mounting flange

Clamp hub

Clamping ring hub

Ventilation

Vent element
for sizes 05...07

Compensator for mounting position C
for sizes 09...14

8

For order information on motor options see page 8-6

Σ _____

Fax order form

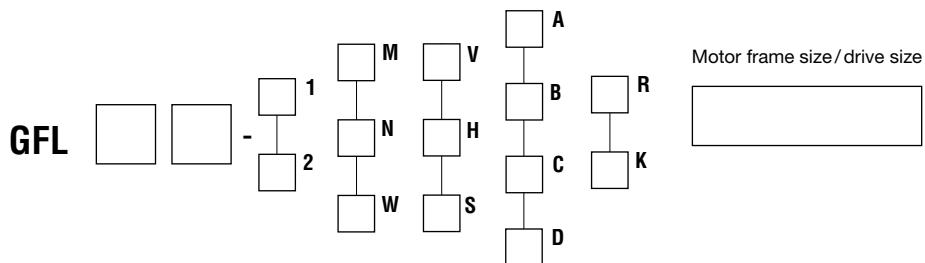
Low-profile geared motors · Low profile gearboxes

Customer No.

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

Order No.

Pcs. i = Price per item



Further order information

Dimensions

H S
Hollow shaft
dH7 =

mm

K
Flange a2 = mm

Position of the system modules (use 0 for undefined positions)

Shaft
0 6 1

Foot
0 3 4

Terminal box
0 2 3 4 5

Mounting positions

A B C D E F

Colour

Finishing coat RAL 9018 Primary coat grey

Options

Special lubricant

CLP-HC 320 CLP-H1 220

Special coat

RAL

Shaft seal

Viton

Design N: Mounting flange

Clamp hub Clamping ring hub

Accessories

Rubber buffer set for torque plate

Protection cover for shrink disc

Mounting kit for hollow shaft retention

Vent

Vent elements for sizes 05...07 Compensator for mounting position C for sizes 09...14

For more order information on motor options see page 8-6

Σ

Customer No.

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

Order No.

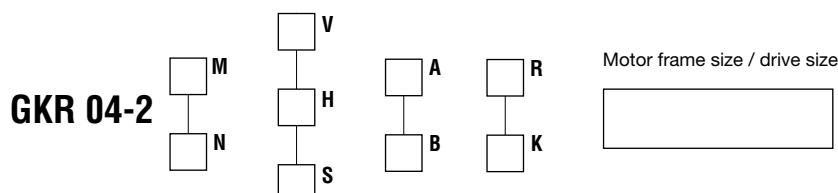
--

Pcs.

i =

--

Price per item



Further order information

Dimensions

[H] [S]
Hollow shaft
dH7 =

--

 mm

[K]
Flange a2 =

--

 mm

Position of the system modules
(use 0 for undefined positions)

Shaft
0 3 5 3+5 Flange
0 3 5 3+5

Terminal box
0 2 3 4 5

Mounting position

A B C D E F

Colour

Standard coats

Geared motor

Uncoated (aluminium housings)

Finishing coat RAL 9018

Primary coat grey

Gearbox with mounting flange

Finishing coat RAL 9018

Primary coat grey

Options

Special lubricant

CLP-HC 320

CLP-H1 220

Special coat

RAL

--

Shaft seals

Viton

Design N: mounting flange

Clamp hub

Clamping ring hub

Accessories

Rubber buffer set for torque plat

Torque plate pitch circle

2nd output shaft end

Protection cover for shrink disc

Mounting kit for hollow shaft retention

For more order information on motor options see page 8-6

Σ _____

Fax order form

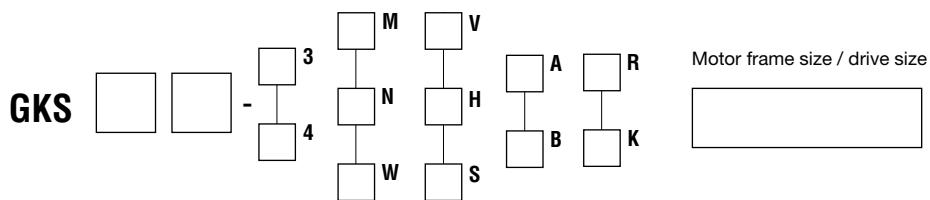
Helical-bevel geared motors · Helical bevel gearboxes

Customer No.

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

Order No.

Pcs. i = Price per item



Further order information

Dimensions

Hollow shaft dH7 = mm Flange a2 = mm

Position of system components (use 0 for undefined positions)

Shaft 0 3 5 3+5 Flange 0 3 5 3+5 Terminal box 0 2 3 4 5

Mounting position

A B C D E F

Colour

Finishing coat RAL 9018 Primary coat grey

Options

Special lubricant CLP-HC 320 CLP-H1 220

Special coat RAL

Shaft seals Viton

Design N: mounting flange Clamp hub Clamping ring hub

Accessories Torque plate at housing foot

Torque plate pitch circle

2nd output shaft end

Protection cover for shrink disc

Hollow shaft protection cover – jet proof

Mounting kit for hollow shaft retention

Vent Vent elements for sizes 05...07 Compensator for mounting position C for sizes 09...14

For order information on motor options see page Seite 8-6

Σ

Helical-worm geared motors - Helical worm gearboxes

Customer No.

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

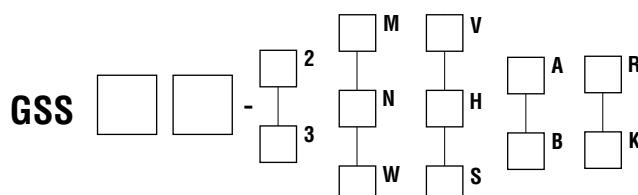
Order No.

--

Pcs.

i =	
-----	--

Price per items



Motor frame size / drive size

--

Further order information

Dimensions

H	S
Hollow shaft	dH7 =
	mm

K	
Flange a2 =	
	mm

Position of the system components
(use 0 for undefined positions)

Shaft	Flange
0 3 5 3+5	0 3 5 3+5
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Terminal box
0 2 3 4 5
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Mounting position

A B C D E F
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Colour

<input type="checkbox"/> Finishing coat RAL 9018	<input type="checkbox"/> Primary coat grey
--	--

Options

Special lubricant

<input type="checkbox"/> CLP-HC 320	<input type="checkbox"/> CLP-H1 220
-------------------------------------	-------------------------------------

Special coat

RAL	
-----	--

Shaft seals

<input type="checkbox"/> Viton

Design N: mounting flange

<input type="checkbox"/> Clamp hub	<input type="checkbox"/> Clamping ring hub
------------------------------------	--

Accessories

<input type="checkbox"/> Torque plate at housing foot

<input type="checkbox"/> Torque plate pitch circle
--

<input type="checkbox"/> 2nd output shaft end

<input type="checkbox"/> Protection cover for shrink disc

<input type="checkbox"/> Hollow shaft protection cover - jet proof
--

<input type="checkbox"/> Mounting kit for hollow shaft retention
--

Vent

<input type="checkbox"/> Vent elements for sizes 05...07

8

For order information on motor options see page 8-6

Σ _____

Fax order form

Motor options

Customer No.

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

Order No.

Combination	Price per item		
	Option 1	Option 2	Option 3
Separate fan			
Brake + Internal fan			
Brake + Separate fan			
Brake + Rotational mass			
Brake + Internal fan + Hand wheel			
Brake + Internal fan + 2nd shaft end			
Brake + Speed/pos. encoder + Separate fan			
Speed/pos. encoder + Internal fan			
Speed/pos. encoder + Separate fan			
Backstop + Internal fan			
Backstop + Internal fan + Hand wheel			
Backstop + Internal fan + 2nd shaft end			
Backstop + Separate fan			
Backstop + Rotational mass			
Backstop + Rotational mass + Hand wheel			
Backstop + Rotational mass + 2nd shaft end			
Internal fan + Hand whee			
Internal fan + 2nd shaft end			
Rotational mass (Internal fan)			
Rotational mass + Hand wheel (Internal fan)			
Rotational mass + 2nd shaft end (Internal fan)			

Separate fan 1~ 3~

Spring-operated brake

Brake size

Connection voltage

V (AC/DC)

2 3 4 5

Brake options

Manual release with lever

in position

Low-noise design

Backstop

Direction of rotation CW

Direction of rotation CCW

(when looking at the fan cover)

(when looking at the fan cover)

Speed/position encoder

Resolver

512 pulses

2048 pulses

Incremental encoder HTL

512 pulses

2048 pulses

Incremental encoder TTL

8

Motor protection

PTC

KTY

Motor connection

(Motor without additional options)

Plug-in connector HAN

1 2 3 4 5

Plug-in connector ICN

in position

More options

Y/Δ;400/230 V (only for motor frame sizes 112-32 bis 132-32 in 87 Hz operation)

Condensate drain hole

Protection cover

CSA/UL

Σ _____



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