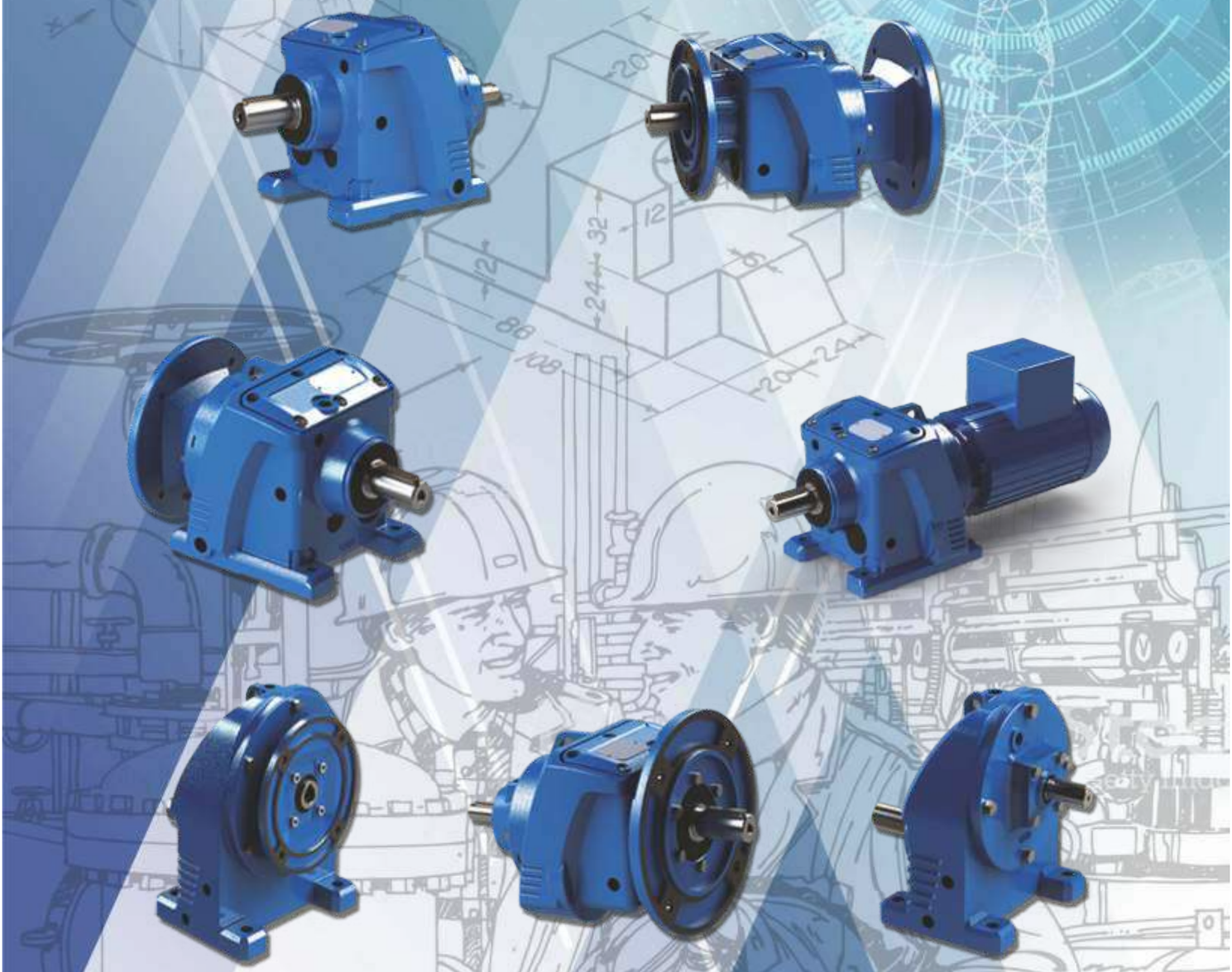
tough nut GEAR

JK Fenner

Powered by innovation, Driven by excellence

Smart Integrated Engineering Solutions



In-Line Helical Gear Reducers

Engineering Business

Smart Integrated / Engineering Solutions

JK Fenner

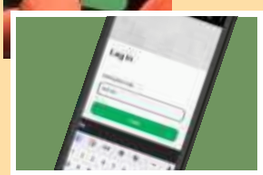
Powered by innovation, Driven by excellence

More POWER

at your fingertips!







Step 1

Scan the QR code on the product

Step 2

Receive the OTP



Step 3

Get the Authentic details of the product



• Pulleys • Couplings • Gear Boxes • Vibro Motors

Instant Verification | User friendly interface...

Digital connect through JKFDART (Feedback on Products & Services)



Download any one of the below app from the playstore

GET IT ON Google Play

Download on the App Store

JKFDART ▶ Register on App ▶ Verify ▶ Enter your Feedback ▶ Team will respond shortly

MEMBER.JK.ORG.IN

JK Fenner

Powered by innovation, Driven by excellence

Table of Contents

Introduction

1.1 Company Profile 4

1.2 Product Overview 4

1.3 Operation Manual..... 5

1.4 General Problems & Improvements 7

Product Information and Tables

2.1 Variants 8

2.2 Order Code For Helical-Bevel Gear Uinit 11

2.3 Input Combinations 12

2.4 Selection Tables [kW] 13

2.5 Determining The Service Factor 14

2.6 Tolerances 16

2.7 Mounting Positions 17

2.8 Lubrication..... 19

Helical Gear Unit FH Series

3.1 1400RPM Permitted Combinations 21

3.2 1400 RPM Selection Tables 53

4.1 Dimension Sheets 105

1

1.1 J.K. Fenner Company Profile

For over 150 years the name JK Fenner has been synonymous with the best in Mechanical Power Transmission, Sealing and Fluid Transfer Solutions. JK Fenner products, such as Transmission Belts, Oil Seals, Hoses, Pulleys, Couplings, Gear Boxes, Geared Motors, Aerators, Rubber Rolls, Belt Tensioners, Control Cables & Engine Mounts have been trusted for performance and reliability, efficiency and economy.

Today J.K, Fenner (India) Ltd is a member of the multi-crore JK Group, one of the leading industrial houses of India. This association since 1987 has put JK Fenner on the speedy growth and consolidated its position as dominant market leader. JK Fenner commenced operation in India in 1929 and put up their first manufacturing unit at Madurai in Tamilnadu in the year 1956. Currently there are 5 state-of-the-art manufacturing and 3 R&D units, situated over 5 different locations. 12 branches, and two Textile units in Karur & Salem in TN. JK Fenner has a large network of 900 Channel Partners and over 100 Application & Design engineers. JK Fenner exports to more than 50 countries globally.

JK Fenner has been maintaining highest quality standards by using the best materials available and state-of-the-art manufacturing process. JK Fenner's manufacturing facilities are ISO 9001, TS 16949 for quality, OHSAS 18001 for Health and Safety 6, ISO 14001 for Environmental protection certified.

1.2 In-line Helical Gear Reducers

Advantages

1. Design Concepts: The combination of standardization and modularization allows interchangeability with international leading brands, while keeping structure rigidity and compactness.
2. Energy Efficiency: Leveraging the advantage of high accuracy of helical gears, the reducers perform at 90% efficiency with higher stability and lower noise level.
3. Ratios Coverage: The ratio ranges between 1/1.3 ~ 1/27788, providing wide range of ratio accommodation, with 1-3 stages of reduction.
4. Loading Capacity: Available with power ranges from 1/4HP up to 150HP, depending on different requirements and applications.
5. Tensile Strength: Pinion and gears are made with 20CrMo alloy steel plus carburizing heat treatment to enhance performance; the input pinion is equipped with double bearing support to provide stability at high speed.
6. Complete Series: Vertical and horizontal mounting along various input mechanism ensure our products meet wide range of applications.
7. Installation Flexibility: All models are designed for a choice of mounting position (M1~M6) specified by customers.
8. Appearance Aesthetics: The reducers are designed with modern exterior while maintaining high rigidity.

1.3 Operation Manual

- This operation manual is to help you install and operate speed reducer correctly. To avoid damages to the speed reducers, proper installation and operation is very crucial. This manual also includes official recommendations on maintenance for an extended lifespan of speed reducers.
- Every FENNER speed reducer passed strict inspection and testing before being properly packaged for shipping. Upon receipt of the speed reducer, please check for any shortage or damage of parts during transit. Please be sure to contact Fenner for identification of responsible carrier and made record of the issue. We are committed to excellence in quality and devoted to solving problems for our clients.

I. Installation

1. Flexible couplings are preferred when input shaft connects directly to the motor; gear couplings are preferred on the output shaft's connection to the application.
2. Install on a stable base with good air ventilation; the accessibility of oil filling / draining should be considered.
3. The input shaft of the reducer and the motor shaft should be in alignment within the tolerance allowance.
4. After installation, please turn the input shaft manually first to check for any locking.
5. No-load running test should be performed first; any abnormality should be corrected prior to regular operation.

II. Lubrication

1. The first oil change should be performed after 500 hrs of operation; subsequent oil change is needed every 2,500 hrs of operation. Nevertheless, a regular check on oil level and conditions are recommended.
2. Please fill only with compatible specifications of oil and do not mix oil of different specifications in a single unit.
3. The interior of the reducer should be flushed and drained before filling with fresh oil.
4. Please shut the reducer immediately for inspection if the temperature rises above 80°C or any abnormal noise occurred. Restart only after the issues identified and cleared.
5. Lubricant recommendation: MOBIL Gear 632, SHELL Omala 320, MOBIL Mobilube HD80W-90, SHELL Spirax E.P 90.
6. Unless specified otherwise by the customer, every FENNER speed reducer is supplied with appropriate amount of lubrication according to different installation position before shipping. If customer prefers to fill in the lubricant oil post shipment, please follow the instruction section of this catalog.

III. Storage

1. If the speed reducer is not for immediate installation, please keep the unit away from humidity and heat sources. After extended period of storage, please contact our service personnel for instruction on restoring the original performance prior to installation.

IV. Attachments the parts on reducer's shaft

1. Notice: Avoid heavy impact on shafts! It may cause bearing damages and undermines bearing performances. If bearings are to be replaced, we recommend heating method, which heats the bearing above 80℃ , that would allow a clear fit on the shafts and reduce the damage to the bearing. For the tolerance of shaft's diameter, please refer to the specification in catalog.
2. While installing the coupling, make sure to check the alignment of coupling and shaft of speed reducer properly to eliminate the damage on bearings and reduce to vibration frequency and abnormal wear.
3. To avoid overload on the bearings of output shaft, please refer to the OHL (overhung loading) in catalog. For exceeding axial load, please contact our service engineer for consultation.
4. The actual application of following factors such as input and output speed, direction of rotation, installation site and over axial and radial loading should be carefully examined.

V. Installation & Operation

1. The underlying factors should be taken into consideration:
   * Ambient temperature below 40℃
   * Location with good air ventilation
   * Proper positions for oil plug and drain plug
   * Sufficient space for periodical inspection, maintenance, and replacement
2. It is necessary for the unit to be installed on a flat, stable and rigid base for accurate alignment to prevent damages to the reducer's housing.
3. The suggested tolerance of flatness on base:
   * For size 50 or smaller, < 0.1mm/m
   * For size 60 or bigger, <0.2mm/m
4. To avoid the lubricant splash out during the transportation, breather plug with red pin inserted into air breathing hole. Please remove the red pin before start-up.
5. Before installation, please check the input horsepower and ratio to be the same as the punched name plate of reducer.

VI. Caution

Caution! The power should be turned off before removal or replacement of the reducer.

1. Oil level and quality lubricant is key point of daily maintenance. Please refer to our suggestion to change the lubricant periodically according to operation frequency site situation.
2. Check the alignment of coupling, the tightness of chain, and nuts and keep the reducer away from excessive dust and grease externally .

1.4: General Problems & Improvements

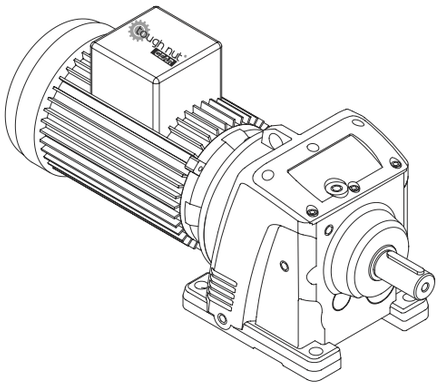
The following lists are general problem situations. In case that other problems happen, please contact us directly to get more information.

CAUSE	REASON	IMPROVEMENT
I. Overheat	1. Overload 2. Lubricant oil overfill or shortage 3. Improper lubricant oil 4. Extra friction on oil seal (lack of lubricant)	1. Adjust to proper loading 2. Add lubricant to the level of oil gauge 3. Chang proper lubricant oil 4. Lip lubricant at oil seal
II. Noise	1. Consistent noise { improper gears contact; bearing damaged 2. Screaming noise { bearing gap too small; lubricant oil shortage 3. Inconsistent noise { some object insert bearing damaged	1. { Repair gears; Replace bearing 2. { Replace bearing; Fill in lubricant oil 3. { Remove debris & replace lubricant oil: Replace bearing
III. Vibration	1. Gear wear 2. Debris inside 3. Bearing worn-out or damaged 4. Bolt loose	1. Replace gear 2. Remove debris & replace lubricant oil 3. Replace bearing 4. Tighten bolt
IV. Oil Leakage	1. Oil seal damage 2. Gasket damage 3. Loose drain plug 4. Loose covers or flange	1. Replace oil seal 2. Replace gasket 3. Tighten drain plug 4. Tighten the bolts
V. Input and Output Shaft Fail	1. Gear-bound caused by overheat 2. Bearing damage 3. Debris between gears	1. Adjust or replace gears 2. Replace bearing 3. Remove debris; clean inside then replace lubricant oil
VI. Input shaft fail to drive output shaft	1. Gear wear 2. Damage to key connecting gear and output shaft 3. Input shaft rupture 4. Output shaft rupture	1. Replace gears 2. Replace key 3. Replace input shaft 4. Replace output shaft
VII. Gear Worn-out	1. Overload 2. Improper lubricant oil 3. Lubricant oil shortage 4. Excessive ambient temperature	1. Adjust to proper loading 2. Change proper lubricant oil 3. Refill lubricant oil 4. Ventilation improvement

2.1 Variants

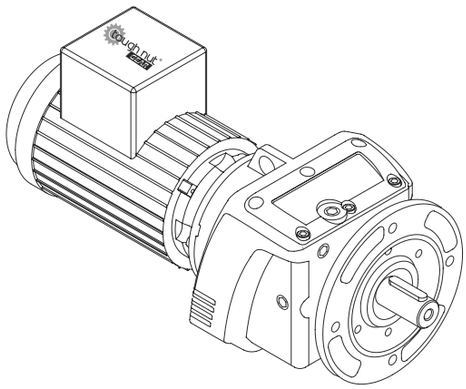
Couple with Motor

FH...



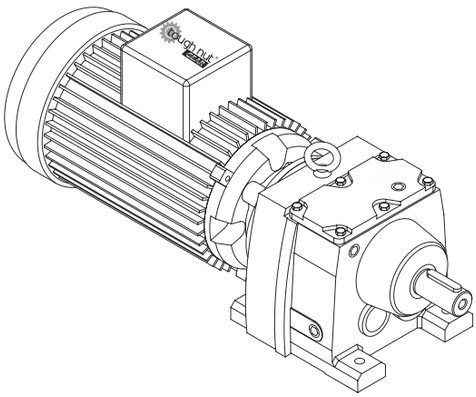
LFOM

Foot Mounted Motorised



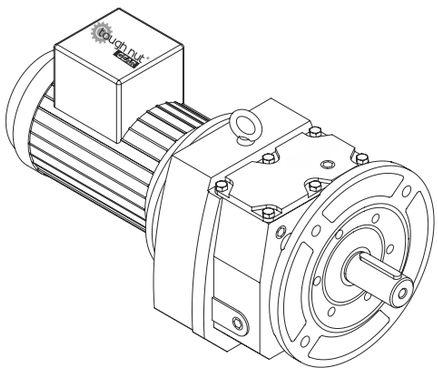
LFLM

Flange Mounted Motorised



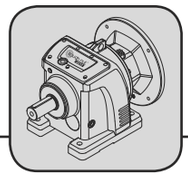
MFOM

Foot Mounted Motorised



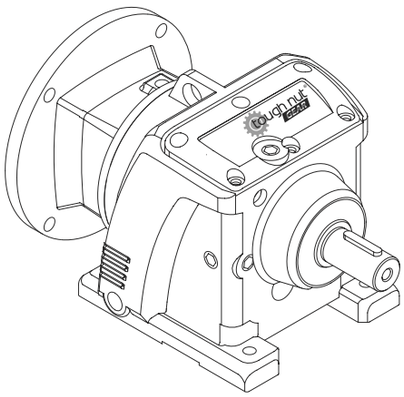
MFLM

Flange Mounted Motorised

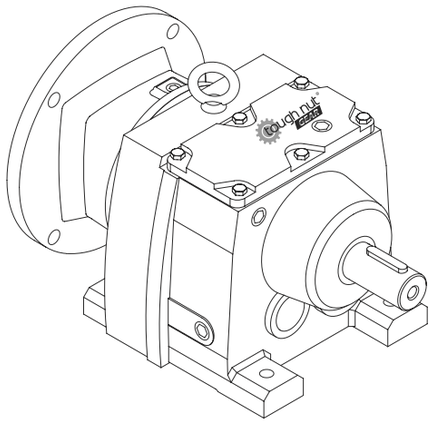


Input Flange

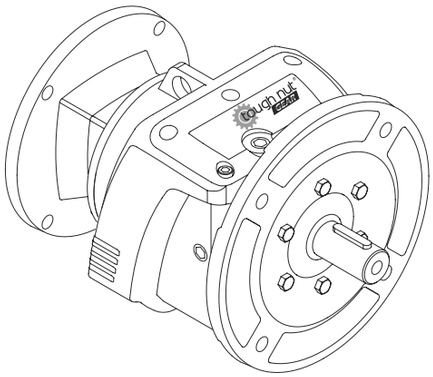
FH...



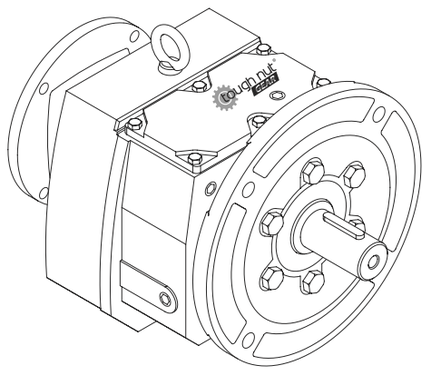
LFO - Foot Mounted



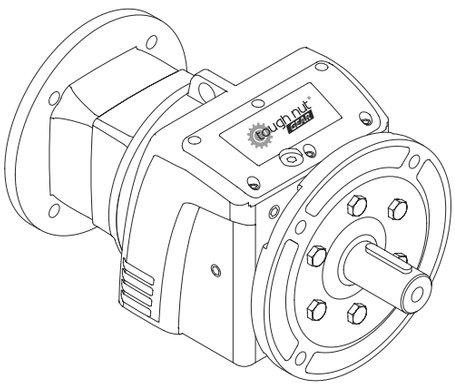
MFO - Foot Mounted



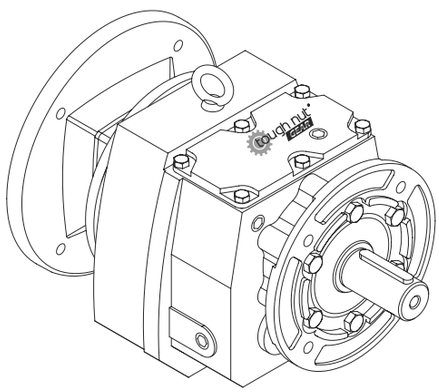
LFLV - Flange Mounted



MFLV - Flange Mounted



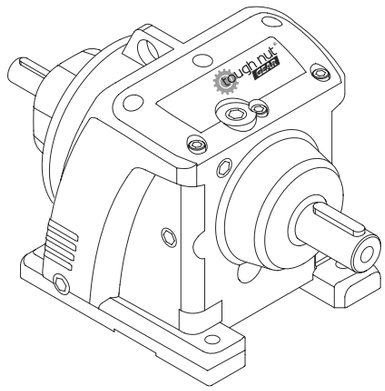
LFLW - Flange Mounted



MFLW - Flange Mounted

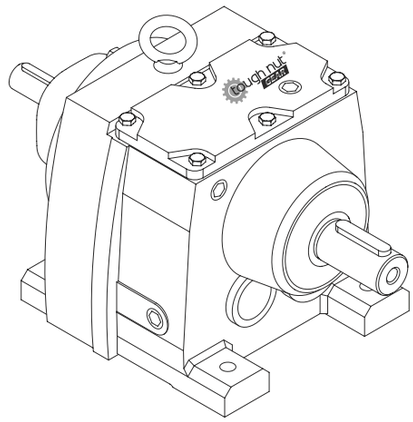
Solid Input Shaft

FH...



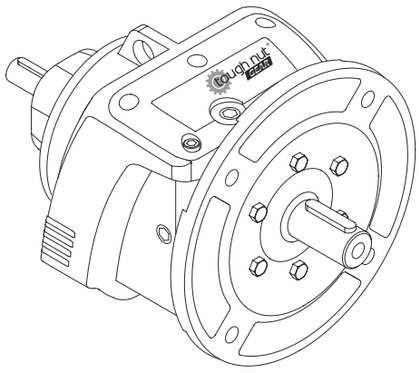
LFO SISO

Solid Input, Solid Output



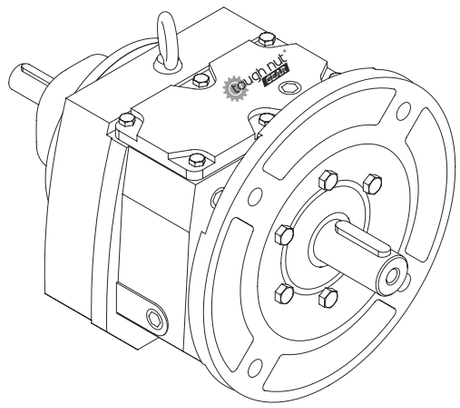
MFO SISO

Solid Input, Solid Output



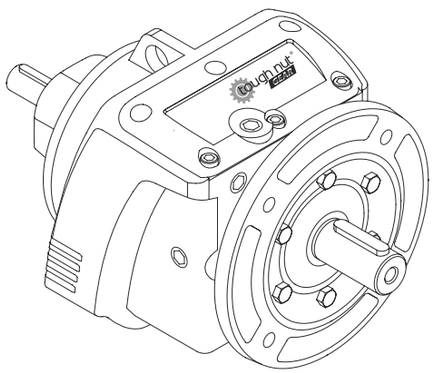
LFLV SISO

Solid Input, Solid Output



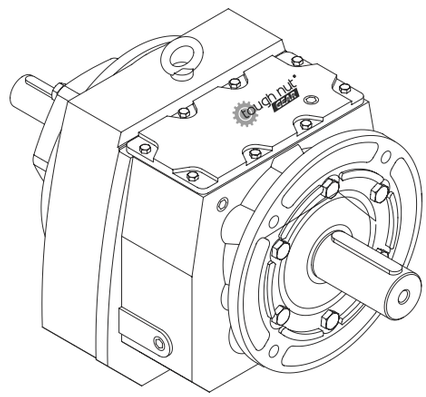
MFLV SISO

Solid Input, Solid Output



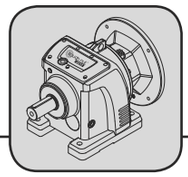
LFLW SISO

Solid Input, Solid Output

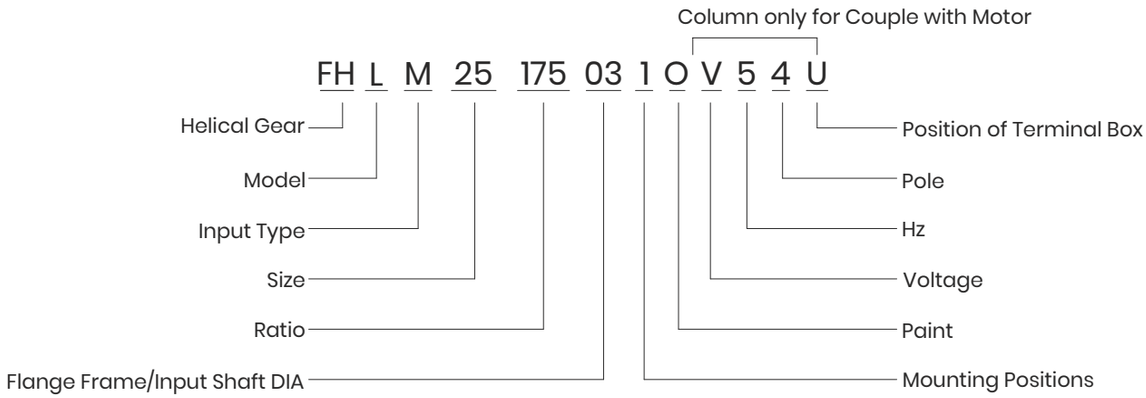


MFLW SISO

Solid Input, Solid Output



2.2 Order Code



Model-FH

L (25-60)
LFO (Foot Mounting)
LFL (Flange Mounting)
MH (20, 70-120)
MFO (Foot Mounting)
MFL (Flange Mounting)

Input Type

F Input Flange IEC B5
B Input Flange IEC B14
D Solid Input Shaft
M Couple With Motor

Size

20
25
30
35
35*
40
50
60
70
90
110
120

Ratio

1/1.3 ~ 1/27788

Flange Frame/ Input Shaft DIA

IEC Standard 4-Pole Input Shaft DIA

QQ : 1/4HP	25 : 25HP	16 : Ø16
HH : 1/2HP	30 : 30HP	19 : Ø19
01 : 1HP	40 : 40HP	24 : Ø24
02 : 2HP	50 : 50HP	28 : Ø28
03 : 3HP	60 : 60HP	38 : Ø38
05 : 5HP	75 : 75HP	42 : Ø42
07 : 7.5HP	100 : 100HP	48 : Ø48
10 : 10HP	125 : 125HP	55 : Ø55
15 : 15HP	150 : 150HP	70 : Ø70
20 : 20HP		

Mounting Positions

M1 ´ M2 ´ M3 ´ M4 ´ M5 ´ M6

Paint

O : Blue

No. of Pole

2 : 2P
4 : 4P
6 : 6P
8 : 8P

Position of Terminal Box

U ´ D ´ L ´ R

2.3 Input Combinations

FH40, ne=1400 1/min									750 Nm	Input shaft mm
na [1/min]	Mamax [Nm]	FRa [N]	I	71	80	90L	100L	112M	132S	
7	750	8620	194.80							Ø19
8	750	8620	170.05							
9	750	8620	153.87							
10	750	8620	140.70							
11	750	8620	124.34							
13	750	8620	109.54							
16	750	8620	89.80							
17	750	8620	84.62							
19	750	8100	73.05							
24	750	7320	57.73							
26	750	7060	53.24							
30	750	6670	46.90							
36	665	6100	39.31							

Gear unit reduction ratio

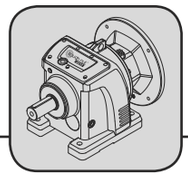
Permitted overhung load at maximum output torque

Maximum output torque

Output speed

Standard

Input Flange / Solid Input Shaft - Standard
Couple with motor - Customization accepted
Please contact out customer service



2.4 Selection Tables

L/M/FH/..M

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]

[1] Rated power driving motor

[2] Output speed

[3] Output torque

[4] Gear unit reduction ratio

[5] Permissible overhung load output side

[6] Service factor

[7] Gear unit size

[8] Motor type

[9] Weight

L / M / FH ... SISO

i	na [1/min]	Mamax [Nm]	Pe [N]	FRa [N]	FRe [N]			m [kg]
FH37								200Nm
[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]

[1] Gear unit reduction ratio

[2] Output speed

[3] Maximum permitted output torque

[4] Calculated drive power of the gear unit

[5] Permitted overhung load at maximum output torque

[6] Permitted overhung load on the input side

[7] Gear unit size

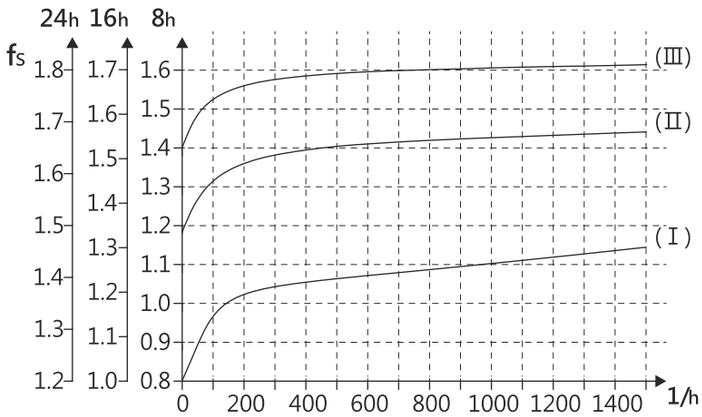
[8] Input shaft diameter

[9] Weight

2.5 Determining The Service Factor

The service factor is determined along with the daily operating time (hours/day), operating condition (continuous or intermittent) and level of load; for a proper gear selection, please determine the service factor accordingly.

$$Ma \times fs \leqq Mamax$$



Service Factor

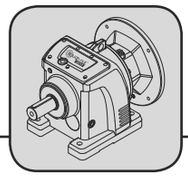
Load Classification

I Light shocks : mass acceleration factor ≤ 0.2

II Moderate shocks : mass acceleration factor ≤ 3

III Heavy shocks : mass acceleration factor ≤ 10

$$\text{Mass acceleration factor} = \frac{\text{all exterior moments of inertia}}{\text{moments of inertia drive motors}}$$



[All exterior moments of inertia] - recalculated to motor speed, formula

$$J_X = J \times \left(\frac{n}{n_M}\right)^2$$

J_x : mass moment of inertia scaled down to the motor shaft

J : mass moment of inertia with reference to the output speed of the gear unit

n : output speed of the gear unit

n_M : motor speed

Calculation of service factor

$$\mathbf{fs} = \frac{\mathbf{Mamax}}{\mathbf{Ma}}$$

Mamax : the maximum permitted continuous torque

Ma : output torque of the gear unit

Ex

If the mass acceleration factor is 2.5 (Moderate shocks II), the operating time is 14 hours per day in an intermittent condition by 300 times per hour. We can acquire fs=1.51 from the fs chart; according to selection tables, we will know to select the gear unit with fs ≥ 1.51.

2.6 Tolerances

Shaft heights

The following tolerances apply to the indicated dimensions:

h ≥ 250 mm ® -0.5 mm

h > 250 mm ® -1 mm

Foot-mounted gear units : Check the mounted motor because it may project below the mounting surgace.

Shaft ends

Diameter tolerance:

Ø > 50 mm ® k6

Ø > 50 mm ® m6

Center bores

Ø > 24...30 mm ® M10

Ø > 30...38 mm ® M12

Ø > 38...50 mm ® M16

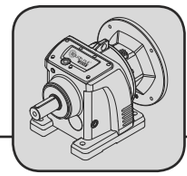
Ø > 50...85 mm ® M20

Ø > 85...130 mm ® M24

output Flanges

Centering shoulder tolerance:

Ø h7

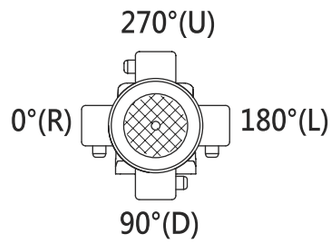


2.7 Mounting Positions

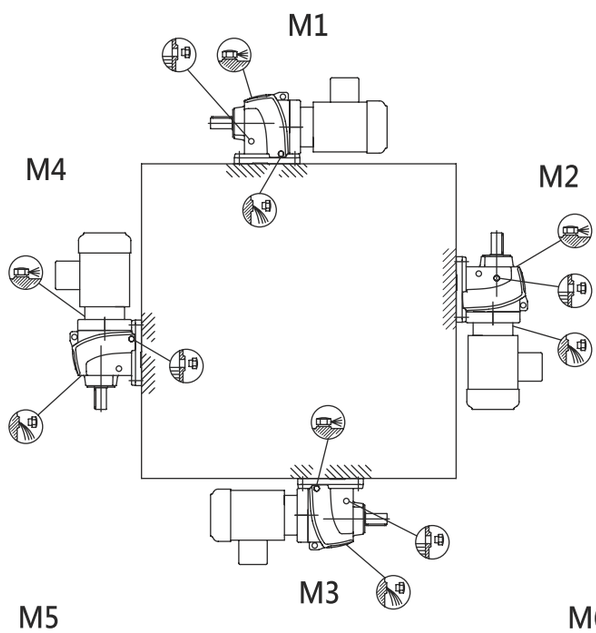
FH LFO ... 37-97
MFO ... 17
MFO ... 107-167

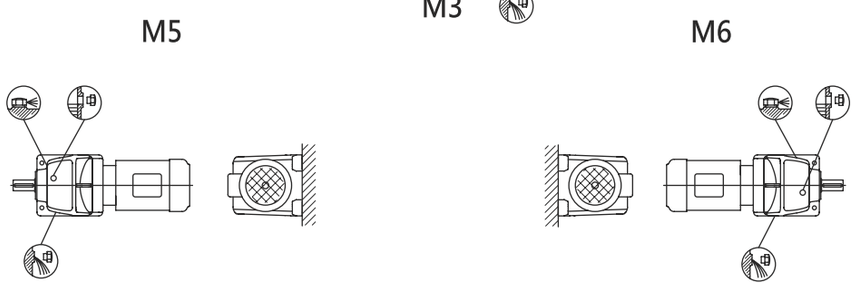
Position of Terminal Box

Standard position "U", unless specific requirements





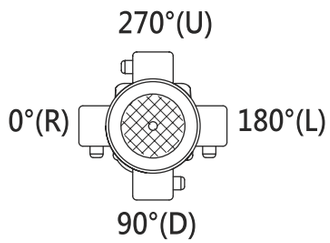




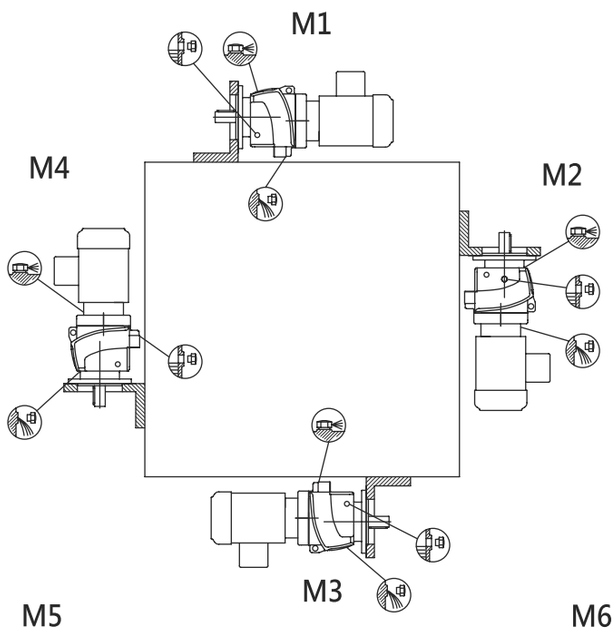
FH LFLV / LFLW ... 37-97
MFLV ... 17
MFLV / MFLW ... 107-167

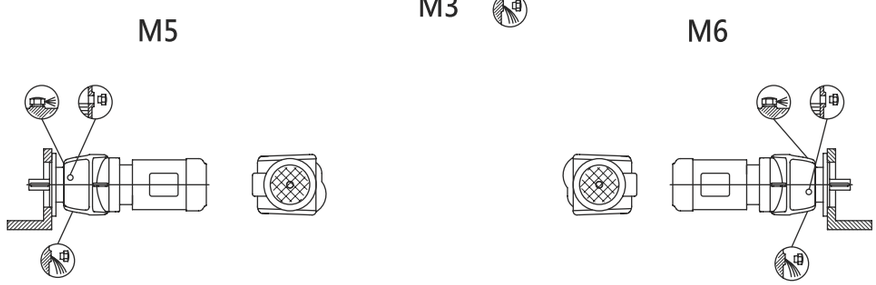
Position of Terminal Box

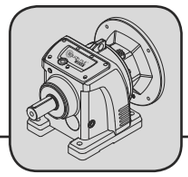
Standard position "U", unless specific requirements











2.8 Lubricant Volume

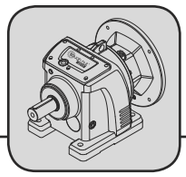
FH type - Foot Mounted (L,M)

Gearunits	Oil Volume (liters)					
	M1	M1	M3	M4	M5	M6
FH20	0.25	0.55	0.35	0.55	0.35	0.35
FH25	0.30	0.85	0.95	1.05	0.75	0.95
FH30	0.70	1.60	1.50	1.65	1.50	1.50
FH35	0.80	1.90	1.70	2.10	1.70	1.70
FH35*	1.10	2.60	2.80	3.20	1.80	2.00
FH40	1.20	3.80	3.60	4.10	2.50	3.40
FH50	2.30	6.70	7.20	7.70	6.30	6.50
FH60	4.60	11.70	11.70	13.40	11.30	11.70
FH70	6.00	16.30	16.90	19.20	13.20	15.90
FH90	10.00	28.00	29.50	31.50	25.00	25.00
FH110	15.40	46.50	48.00	52.00	39.50	41.00
FH120	27.00	82.00	78.00	88.00	66.00	69.00

FH type - Flange Mounted (V,W)

Gearunits	Oil Volume (liters)					
	M1	M1	M3	M4	M5	M6
FH20	0.25	0.55	0.35	0.55	0.35	0.35
FH25	0.35	0.90	0.20	1.05	0.75	0.95
FH30	0.65	1.60	1.50	1.65	1.50	1.50
FH35	0.80	1.80	1.70	2.00	1.70	1.70
FH35*	1.20	2.70	2.70	2.60	1.90	2.10
FH40	1.20	3.80	3.30	4.10	2.40	3.00
FH50	2.40	6.80	7.10	7.70	6.30	6.40
FH60	5.10	11.90	11.20	14.00	11.20	11.80
FH70	6.30	15.90	17.00	19.20	13.10	15.90
FH90	9.50	27.00	29.00	32.50	25.00	25.00
FH110	16.40	47.00	48.00	52.00	42.00	42.00
FH120	26.00	82.00	78.00	88.00	65.00	71.00

* Recommandations

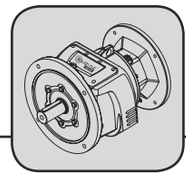


Lubricant Volume & Lubricant Selection

Standard Load, Input 600 RPM or more.				
Temperature (C°)	CPC	ISO VG	Mobil	Shell
-30~ -15	HD 100	VG 100	Mobilgear 627	Omala 100
-15~ -3	HD 150	VG 150	Mobilgear 629	Omala 150
-3~ -23	HD 220	VG 220	Mobilgear 630	Omala 220
-23~ -40	HD 320	VG 320	Mobilgear 632	Omala 320
-40~ -80	HD 460	VG 460	Mobilgear 634	Omala 460

Heavy Load, Input 600 RPM or more.				
Temperature (C°)	CPC	ISO VG	Mobil	Shell
-30~ -15	HD 150	VG 150	Mobilgear 629	Omala 150
-15~ -3	HD 220	VG 220	Mobilgear 630	Omala 220
-3~ -23	HD 320	VG 320	Mobilgear 632	Omala 320
-23~ -40	HD 460	VG 460	Mobilgear 634	Omala 460
-40~ -80	HD 680	VG 680	Mobilgear 636	Omala 680

output RPM<100R.P.M, please use CPC HD-220 E.P. lubricant or equivalent
output PRM<100R.P.M, please use CPC HD-320 E.P. lubricant or equivalent



3.1 1400Rpm Input Combinations

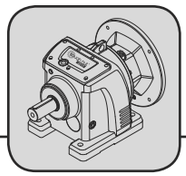
FH Series

FH20 , ne=1400 1/min								85 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	56	63	71	80	Input shaft mm
		3						
18	85	1770	79.85					Ø16
20	85	1770	68.70					
24	85	1770	59.23					
28	85	1770	49.90					
31	85	1770	45.45					
35	85	1770	39.61					
40	85	1770	35.17					
48	85	1630	29.36					
57	85	1480	24.76					
71	85	1290	19.69					
		2						
93	71	1270	15.02					Ø16
111	67	1210	12.65					
139	61	1130	10.04					
188	54	1030	7.44					
280	47	920	4.99					
346	43	860	4.05					

Standard

Input Flange / Solid Input Shaft - Standard

Not available



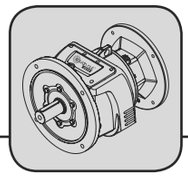
Helical Gear Units

Input Combinations

1400 Input Rpm

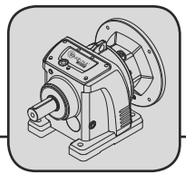
FH25 , ne=1400 1/min								200 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	63	71	80	90L	Input shaft mm
		3						
10	200	4950	138.36					Ø16
12	200	4950	119.28					
14	200	4950	100.51					
15	200	4950	91.53					
18	200	4920	79.77					
18	200	4840	76.66					
20	200	4660	69.81					
23	200	4410	60.84					
26	200	4200	54.03					
27	200	4060	52.24					
32	200	3770	44.01					
35	200	3630	40.08					Ø19
40	200	3410	34.93					
45	200	3240	31.02					
54	200	2990	25.89					
		2						
57	197	3010	24.50					Ø19
63	193	2890	22.09					
70	189	2780	19.95					
78	188	2650	17.89					
89	189	2500	15.75					
107	181	2330	13.07					
119	175	2250	11.73					
140	166	2130	10.02					
165	157	2020	8.50					
208	133	1880	6.74					
243	126	1780	5.75					
287	119	1690	4.88					
350	112	1580	4.00					

Standard Input Flange / Solid Input Shaft - Standard Not available



FH30 , ne=1400 1/min										300 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	63	71	80	90L	100L	112M	Input shaft mm
		3								
8	300	5420	178.83							Ø16
9	300	5420	160.40							
10	300	5420	138.19							
11	300	5420	126.22							
13	300	5420	110.34							
14	300	5420	99.46							
16	300	5420	89.82							
17	300	5420	80.58							
18	300	5420	77.84							
20	300	5420	70.91							Ø19
22	300	5420	63.37							
24	300	5420	58.84							
26	300	5420	52.84							
31	300	5420	45.13							
34	300	5420	41.51							
38	300	5420	37.28							
44	300	4900	31.83							
51	300	4570	27.19							
56	300	4400	25.01							
62	300	4200	22.46							
		2								
57	300	4620	24.70							Ø19
61	300	4480	23.02							
68	300	4260	20.49							
76	300	4070	18.37							
92	300	3740	15.18							
124	285	3330	11.27							
174	255	2980	8.06							Ø24
206	215	2760	6.79							
288	191	2470	4.85							
351	178	2310	3.99							

Standard Input Flange / Solid Input Shaft - Standard Not available



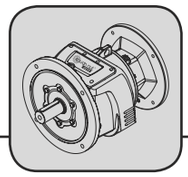
Helical Gear Units

Input Combinations

1400 Input Rpm

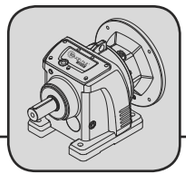
FH35 , ne=1400 1/min										450 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	63	71	80	90L	100L	112M	Input shaft mm
		3								
8	450	7110	182.99							Ø16
9	450	7110	164.13							
10	450	7110	141.40							
11	450	7110	129.16							
12	450	7110	112.90							
14	450	7110	101.77							
15	450	7110	91.91							
17	450	6920	82.45							
18	450	6830	79.65							
19	450	6560	72.56							Ø19
22	450	6250	64.84							
23	450	6060	60.21							
26	450	5780	54.07							
30	450	5390	46.18							
33	450	5190	42.48							
37	439	4990	38.14							
43	363	4640	32.33							
51	345	4400	27.61							
55	335	4280	25.40							
61	324	4130	22.81							
		2								
55	382	4350	25.27							Ø19
59	373	4250	23.55							
67	359	4090	20.96							
74	346	3940	18.80							
90	325	3700	15.53							
121	294	3350	11.53							
170	263	3000	8.24							Ø24
203	217	2770	6.89							
284	194	2480	4.93							
345	182	2320	4.06							

Standard Input Flange / Solid Input Shaft - Standard Not available



FH35* , ne=1400 1/min										600 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	63	71	80	90L	100L	112M	Input shaft mm
		3								
7	600	7560	199.88							Ø19
8	600	7560	169.10							
9	600	7560	151.03							
10	600	7560	140.75							
11	600	7560	125.28							
12	600	7560	112.34							
14	600	7560	98.69							
15	600	7560	92.80							
18	600	7390	78.59							
20	600	6980	68.90							
22	600	6320	63.07							
24	600	6480	58.23							
27	600	6170	52.21							
31	600	5820	45.87							
34	500	5570	41.22							
36	490	5460	38.75							
44	560	5070	32.02							
49	440	4940	28.77							
61	500	4540	22.90							Ø24
		2								
58	510	4620	24.14							Ø19
66	490	4430	21.33							
74	470	4250	18.79							
91	440	3980	15.41							
112	410	3710	12.53							Ø24
141	380	3430	9.90							
231	260	2940	6.06							
267	250	2800	5.23							
338	230	2590	4.14							

Standard Input Flange / Solid Input Shaft - Standard Not available



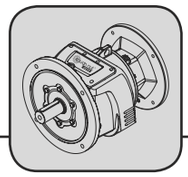
Helical Gear Units

Input Combinations

1400 Input Rpm

FH40 , ne=1400 1/min										750 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	71	80	90L	100L	112M	132S	Input shaft mm
		3								
7	750	8620	194.80							Ø19
8	750	8620	170.05							
9	750	8620	153.87							
10	750	8620	140.70							
11	750	8620	124.34							
13	750	8620	109.54							
16	750	8620	89.80							
17	750	8620	84.62							
19	750	8100	73.05							
24	750	7320	57.73							
26	750	7060	53.24							
30	750	6670	46.90							
36	665	6100	39.31							
39	655	5980	36.23							
44	625	5700	31.97							
55	575	5270	25.27							Ø24
		2								
60	660	5080	23.31							Ø19
77	605	4670	18.08							
94	570	4370	14.83							Ø24
106	545	4200	13.21							Ø38
118	525	4050	11.85							
128	515	3940	10.91							
152	485	3730	9.21							
242	350	3220	5.78							
293	330	3020	4.78							
347	310	2860	4.03							

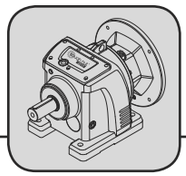
Standard Input Flange / Solid Input Shaft - Standard Not available



1400 Input Rpm

FH50 , ne=1400 1/min											1550 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	80	90L	100L	112M	132S	132M	160M	Input shaft mm
		3									
7	1550	16900	201.38								Ø19
8	1550	16900	179.70								
9	1550	16900	161.11								
10	1550	16900	137.42								
11	1550	16900	122.17								
12	1550	16900	112.52								
16	1550	16900	87.27								
20	1485	16900	71.60								
22	1430	16900	63.77								Ø28
23	1415	16900	61.54								
26	1360	16900	54.81								
28	1310	16500	49.16								
31	1275	16100	45.27								Ø38
37	1205	15200	38.20								
44	950	14400	31.73								
58	870	13100	24.29								
70	815	12300	20.06								
		2									
61	1015	12800	22.83								Ø38
71	970	12200	19.83								
80	930	11700	17.51								
92	890	11200	15.29								Ø42
108	840	10600	12.98								
124	805	10100	11.33								
131	785	9930	10.66								
153	750	9440	9.15								
207	570	8590	6.78								
243	540	8130	5.75								
296	505	7610	4.73								
345	480	7240	4.06								

Standard Input Flange / Solid Input Shaft - Standard Not available



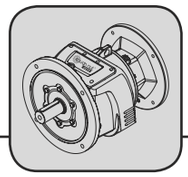
Helical Gear Units

Input Combinations

1400 Input Rpm

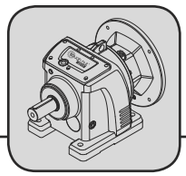
FH60 , ne=1400 1/min											3000 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	100L	112M	132S	132M	160M	160L	180M	Input shaft mm
			3								
7	3000	18100	199.06								Ø28
8	3000	18100	181.06								
8	3000	18100	166.33								
10	3000	18100	144.53								
11	3000	18100	127.61								
13	3000	18100	111.42								
14	3000	18100	97.76								
15	3000	18100	94.59								
16	3000	18100	85.35								Ø38
17	3000	18100	82.59								
18	3000	18100	77.70								
19	3000	18100	72.46								
21	3000	18100	66.71								
22	3000	18100	63.27								
24	3000	18100	59.52								
27	3000	18100	51.10								
31	2850	17500	44.57								
37	2760	16400	37.84								Ø42
48	2525	15000	28.98								
55	2415	14300	25.31								
			2								
42	2785	16700	33.00								Ø42
48	2720	15800	29.10								
66	2570	14000	21.23								
83	2545	12600	16.96								Ø48
103	2375	11700	13.56								
140	2145	10500	10.00								
165	1670	9980	8.49								
206	1545	9260	6.78								
258	1435	8590	5.42								
350	1300	7760	4.00								

Standard Input Flange / Solid Input Shaft - Standard Not available



FH70 , ne=1400 1/min													4300 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	132S	132M	160M	160L	180M	180L	200L	225S	225M	Input shaft mm
		3											
12	4300	29500	115.50	■									Ø38
13	4300	29500	106.76	■									
14	4300	29500	103.02	■									
16	4300	29500	86.50	■									
18	4300	28600	79.95	■	■								
21	4300	26400	68.27	■	■								
22	4300	25700	62.90	■	■								Ø42
26	4300	23600	53.71	■	■	■							
26	4300	23900	53.00	■	■	■							
31	4300	21800	44.50	■	■	■	■						Ø48
35	4300	20800	39.52	■	■	■	■						
41	4130	19500	34.23	■	■	■	■	■					
48	3805	18500	29.23	■	■	■	■	■					
55	3745	17700	25.52	■	■	■	■	■	■				
64	3450	16800	21.79	■	■	■	■	■	■				
107	2600	14200	13.09	■	■	■	■	■	■	■			
		2											
57	3795	17400	24.40	■	■	■							Ø48
64	3650	16700	21.77	■	■	■							
97	3090	14600	14.38	■	■	■	■	■	■	■			
134	2860	13100	10.44	■	■	■	■	■	■	■	■		
311	1820	9980	4.50	■	■	■	■	■	■	■	■	■	
350	1755	9600	4.00	■	■	■	■	■	■	■	■	■	

■ Standard ■ Input Flange / Solid Input Shaft - Standard □ Not available



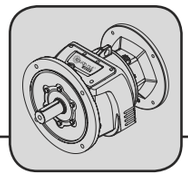
Helical Gear Units

Input Combinations

1400 Input Rpm

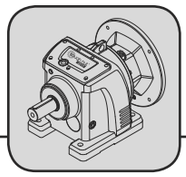
FH90 , ne=1400 1/min												7000 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	160M	160L	180M	180L	200L	225S	225M	250M	Input shaft mm
		3										
12	7000	37500	117.25	■								Ø42
13	7000	37500	107.80	■								
14	7000	37500	99.66	■								
15	7000	37500	91.63	■								
18	7000	37400	79.05	■								
20	7000	35600	70.35	■	■							
24	7000	32900	59.14	■	■	■						Ø48
26	7000	31500	54.38	■	■	■						
28	7000	29800	50.13	■	■	■	■					
31	7000	28600	44.49	■	■	■	■					
32	7000	27700	43.25	■	■	■	■					
40	7000	25000	35.39	■	■	■	■	■				
43	7000	24100	32.81	■	■	■	■	■				Ø55
58	6250	20500	24.24	■	■	■	■	■	■			
68	5930	19500	20.68	■	■	■	■	■	■	■		
96	5280	17300	14.60	■	■	■	■	■	■	■	■	
		2										
60	2790	28500	23.45	■	■	■						Ø42
65	2870	27400	21.56	■	■	■						
82	2770	24900	17.15	■	■	■	■	■	■	■		
94	4330	21000	14.96	■	■	■	■	■	■	■	■	
102	4250	20200	13.75	■	■	■	■	■	■	■	■	Ø55
138	4470	17100	10.12	■	■	■	■	■	■	■	■	
174	3710	16400	8.05	■	■	■	■	■	■	■	■	
288	2270	15000	4.87	■	■	■	■	■	■	■	■	
347	2220	13900	4.04	■	■	■	■	■	■	■	■	

■ Standard ■ Input Flange / Solid Input Shaft - Standard ☐ Not available



FH110 , ne=1400 1/min														13000 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	Input shaft mm
		3												
12	13000	62700	117.29	■	■									Ø42
13	13000	62700	109.03	■	■									
14	13000	62700	99.44	■	■	■								Ø48
16	13000	62700	89.86	■	■	■	■							
17	13000	62700	83.30	■	■	■	■							
20	13000	62700	70.80	■	■	■	■							
23	13000	61300	60.38	■	■	■	■	■						
28	12990	56800	50.49	■	■	■	■	■	■					Ø55
31	12500	54600	44.98	■	■	■	■	■	■	■				
34	12190	53200	41.70	■	■	■	■	■	■	■				
40	11550	50400	35.44	■	■	■	■	■	■	■				
46	10950	47800	30.23	■	■	■	■	■	■	■	■			
55	10320	45100	25.27	■	■	■	■	■	■	■	■			Ø70
70	9540	41700	19.99	■	■	■	■	■	■	■	■	■		
		2												
90	8785	38400	15.62	■	■	■	■	■	■	■	■			Ø70
105	8335	36400	13.32	■	■	■	■	■	■	■	■	■	■	
137	7460	33400	10.24	■	■	■	■	■	■	■	■	■	■	
280	5875	26300	5.00	■	■	■	■	■	■	■	■	■	■	
337	5525	24700	4.16	■	■	■	■	■	■	■	■	■	■	

■ Standard ■ Input Flange / Solid Input Shaft - Standard □ Not available



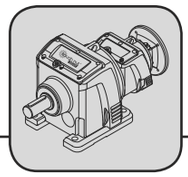
Helical Gear Units

Input Combinations

1400 Input Rpm

FH120 , ne=1400 1/min															18000 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	315S	Input shaft mm
			3												
8	18000	88200	178.17	■	■										Ø42
8	18000	88200	169.42	■	■										
9	18000	88200	158.37	■	■										
10	18000	88200	139.60	■	■	■									
12	18000	88200	121.56	■	■	■	■								Ø48
13	18000	86000	109.89	■	■	■	■								
14	18000	83400	101.64	■	■	■	■	■							
16	18000	78700	88.17	■	■	■	■	■							
17	18000	75800	80.58	■	■	■	■	■							
20	18000	71400	69.80	■	■	■	■	■	■						
23	18000	67300	60.56	■	■	■	■	■	■	■					Ø55
26	18000	61700	53.92	■	■	■	■	■	■	■					
29	18000	58900	48.52	■	■	■	■	■	■	■	■				
32	18000	56200	43.86	■	■	■	■	■	■	■	■				
40	18000	50800	35.19	■	■	■	■	■	■	■	■	■			Ø70
50	16900	46800	27.86	■	■	■	■	■	■	■	■	■	■		
66	15400	42700	21.19	■	■	■	■	■	■	■	■	■	■	■	
			2												
59	18000	44500	23.78	■	■	■	■	■	■	■	■	■	■		Ø55
70	17400	41400	19.89	■	■	■	■	■	■	■	■	■	■	■	Ø70
89	16100	38400	15.77	■	■	■	■	■	■	■	■	■	■	■	
103	15400	36600	13.66	■	■	■	■	■	■	■	■	■	■	■	
135	14000	33400	10.39	■	■	■	■	■	■	■	■	■	■	■	
275	9600	26500	5.10	■	■	■	■	■	■	■	■	■	■	■	
356	7600	25700	3.93	■	■	■	■	■	■	■	■	■	■	■	

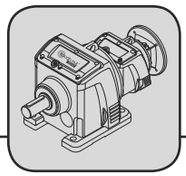
■ Standard ■ Input Flange / Solid Input Shaft - Standard □ Not available



Double Reduction

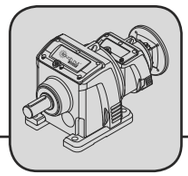
FH30 FH25 , ne=1400 1/min						300 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	63	71	80
		3	3			
0.10	300	5420	13761			
0.11	300	5420	12428			
0.12	300	5420	11863			
0.13	300	5420	10714			
0.15	300	5420	9103			
0.18	300	5420	7933			
0.20	300	5420	6943			
0.23	300	5420	6051			
0.26	300	5420	5373			
0.29	300	5420	4853			
0.32	300	5420	4378			
0.35	300	5420	3987			
0.40	300	5420	3474			
0.45	300	5420	3085			
0.54	300	5420	2575			
		2	3			
0.49	300	5420	2835			
0.55	300	5420	2542			
0.57	300	5420	2444			
0.64	300	5420	2191			
0.83	300	5420	1682			
0.96	300	5420	1465			
1.09	300	5420	1283			
1.25	300	5420	1118			
1.26	300	5420	1107			
1.41	300	5420	993			
1.73	300	5420	809			
1.90	300	5420	736			
2.18	300	5420	642			
2.46	300	5420	570			
2.94	300	5420	476			

Standard Input Flange / Solid Input Shaft - Standard Not available



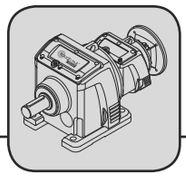
FH30 FH25, ne=1400 1/min						300 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	63	71	80
			3 2			
0.57	300	5420	2437			
0.64	300	5420	2197			
0.71	300	5420	1984			
0.79	300	5420	1780			
0.89	300	5420	1566			
1.08	300	5420	1300			
1.20	300	5420	1167			
1.40	300	5420	997			
1.66	300	5420	845			
2.09	300	5420	670			
2.45	300	5420	572			
2.89	300	5420	485			
3.52	300	5420	398			
			2 2			
3.11	300	5420	450			
3.45	300	5420	406			
3.82	300	5420	366			
4.26	300	5420	329			
4.84	300	5420	289			
5.83	300	5420	240			
6.49	300	5420	216			
7.60	300	5420	184			
8.97	300	5420	156			
11.31	300	5420	124			
13.24	300	5420	106			

Standard Input Flange / Solid Input Shaft - Standard Not available



FH35 FH25 , ne=1400 1/min						450 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	63	71	80
		3	**3**			
0.10	450	7110	14081			
0.12	450	7110	12139			
0.14	450	7110	10228			
0.15	450	7110	9315			
0.17	450	7110	8413			
0.19	450	7110	7331			
0.22	450	7110	6417			
0.25	450	7110	5498			
0.29	450	7110	4801			
0.31	450	7110	4479			
0.34	450	7110	4079			
0.39	450	7110	3555			
0.44	450	7110	3157			
0.53	450	7110	2635			
0.59	450	7110	2380			
0.68	450	7110	2062			
		2	**3**			
0.46	450	7110	3015			
0.50	450	7110	2809			
0.55	450	7110	2540			
0.61	450	7110	2313			
0.69	450	7110	2016			
0.79	450	7110	1764			
0.91	450	7110	1538			
1.03	450	7110	1365			
1.26	450	7110	1112			
1.38	450	7110	1013			
1.59	450	7110	883			
1.79	450	7110	784			
2.14	450	7110	654			
2.30	450	7110	610			
2.58	450	7110	543			
2.88	450	7110	487			
3.48	450	7110	402			

Standard Input Flange / Solid Input Shaft - Standard Not available



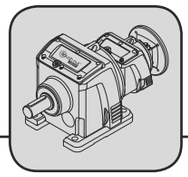
Helical Gear Units

Input Combinations

1400 Input Rpm

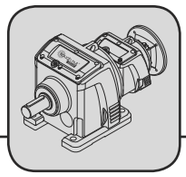
FH35 FH25 , ne=1400 1/min							450 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	63	71	80	90L
			3 2				
0.77	450	7110	1821				
0.80	450	7110	1759				
0.85	450	7110	1645				
0.97	450	7110	1447				
1.05	450	7110	1330				
1.17	450	7110	1194				
1.37	450	7110	1020				
1.62	450	7110	865				
2.04	450	7110	686				
2.39	450	7110	586				
2.82	450	7110	496				
3.44	450	7110	407				
3.81	450	7110	368				
			2 2				
3.77	450	7110	371				
4.24	450	7110	330				
4.55	450	7110	308				
5.07	450	7110	276				
5.93	450	7110	236				
6.52	450	7110	215				
8.82	450	7110	159				
9.63	450	7110	145				
10.33	450	7110	136				

Standard Input Flange / Solid Input Shaft - Standard Not available



FH35* FH25 , ne=1400 1/min						600 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	63	71	80
		3	3			
0.09	600	7560	15543			
0.10	600	7560	13400			
0.12	600	7560	11290			
0.14	600	7560	10282			
0.15	600	7560	9033			
0.18	600	7560	7843			
0.20	600	7560	6835			
0.24	600	7560	5868			
0.27	600	7560	5155			
0.31	600	7560	4503			
0.36	600	7560	3924			
0.40	600	7560	3485			
0.48	600	7560	2908			
0.58	600	7560	2403			
		2	3			
0.55	600	7560	2545			
0.65	600	7560	2144			
0.72	600	7560	1953			
0.82	600	7560	1702			
0.86	600	7560	1635			
0.94	600	7560	1489			
1.08	600	7560	1298			
1.21	600	7560	1153			
1.49	600	7560	939			
1.64	600	7560	855			
1.88	600	7560	745			
2.12	600	7560	662			
2.53	600	7560	552			
2.88	600	7560	487			

Standard Input Flange / Solid Input Shaft - Standard Not available



Helical Gear Units

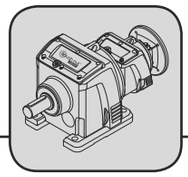
Input Combinations

1400 Input Rpm

3

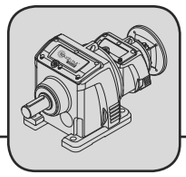
FH35* FH25 , ne=1400 1/min							600 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	63	71	80	90L
		3	2				
0.64	600	7560	2180				
0.70	600	7560	2010				
0.76	600	7560	1851				
0.79	600	7560	1769				
0.90	600	7560	1554				
0.95	600	7560	1468				
1.06	600	7560	1318				
1.24	600	7560	1126				
1.47	600	7560	954				
1.67	600	7560	839				
1.85	600	7560	757				
2.17	600	7560	646				
2.55	600	7560	548				
3.12	600	7560	449				
3.77	600	7560	371				
		2	2				
3.29	600	7560	426				
3.67	600	7560	382				
4.17	600	7560	336				
4.73	600	7560	296				
5.02	600	7560	279				
5.59	600	7560	250				
6.35	600	7560	221				
6.55	600	7560	214				
7.72	600	7560	181				
8.77	600	7560	160				

Standard Input Flange / Solid Input Shaft - Standard Not available



FH40 FH25 , ne=1400 1/min						750 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	63	71	80
			3 3			
0.08	750	8620	16783			
0.09	750	8620	14831			
0.11	750	8620	13066			
0.11	750	8620	12497			
0.12	750	8620	11381			
0.14	750	8620	9918			
0.16	750	8620	8680			
0.19	750	8620	7565			
0.21	750	8620	6717			
0.24	750	8620	5918			
0.28	750	8620	4984			
0.32	750	8620	4343			
0.36	750	8620	3857			
0.43	750	8620	3219			
0.49	750	8620	2836			
			2 3			
0.43	750	8620	3225			
0.50	750	8620	2780			
0.60	750	8620	2343			
0.66	750	8620	2134			
0.75	750	8620	1859			
0.78	750	8620	1787			
0.86	750	8620	1627			
0.99	750	8620	1418			
1.11	750	8620	1259			
1.27	750	8620	1100			
1.36	750	8620	1026			
1.50	750	8620	934			
1.72	750	8620	814			
1.94	750	8620	723			
2.32	750	8620	603			
2.50	750	8620	561			

Standard Input Flange / Solid Input Shaft - Standard Not available



Helical Gear Units

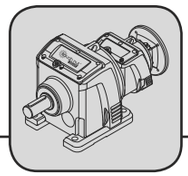
Input Combinations

1400 Input Rpm

3

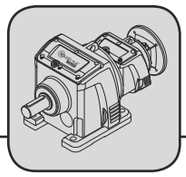
FH40 FH25 , ne=1400 1/min							750 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	63	71	80	90L
		3	2				
0.58	750	8620	2419				
0.63	750	8620	2225				
0.72	750	8620	1958				
0.76	750	8620	1838				
0.86	750	8620	1625				
0.96	750	8620	1459				
1.12	750	8620	1246				
1.33	750	8620	1056				
1.50	750	8620	931				
1.67	750	8620	838				
1.96	750	8620	715				
2.31	750	8620	607				
2.62	750	8620	534				
2.81	750	8620	497				
3.20	750	8620	438				
3.77	750	8620	371				
4.45	750	8620	315				
		2	2				
2.72	750	8620	515				
3.01	750	8620	465				
3.36	750	8620	417				
3.81	750	8620	367				
4.60	750	8620	305				
5.12	750	8620	273				
5.99	750	8620	234				
7.07	750	8620	198				

Standard Input Flange / Solid Input Shaft - Standard Not available



FH50 FH35 , ne=1400 1/min							1550 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	63	71	80	90L
		3	3				
0.08	1550	16900	17276				
0.09	1550	16900	15969				
0.11	1550	16900	14323				
0.11	1550	16900	12340				
0.12	1550	16900	11271				
0.17	1550	16900	8021				
0.19	1550	16900	7195				
0.22	1550	16900	6332				
0.25	1550	16900	5659				
0.30	1550	16900	4718				
0.38	1550	16900	3707				
0.42	1550	16900	3329				
0.50	1550	16900	2821				
0.58	1550	16900	2410				
0.63	1550	16900	2216				
		2	3				
0.43	1550	16900	3228				
0.47	1550	16900	2948				
0.54	1550	16900	2577				
0.60	1550	16900	2323				
0.67	1550	16900	2098				
0.74	1550	16900	1882				
0.77	1550	16900	1818				
0.85	1550	16900	1656				
0.95	1550	16900	1480				
1.02	1550	16900	1374				
1.13	1550	16900	1234				
1.33	1550	16900	1054				
1.53	1550	16900	916				
1.66	1550	16900	842				
1.85	1550	16900	756				
2.18	1550	16900	548				
2.56	1550	16900	548				

Standard Input Flange / Solid Input Shaft - Standard Not available



Helical Gear Units

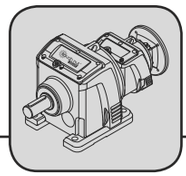
Input Combinations

1400 Input Rpm

3

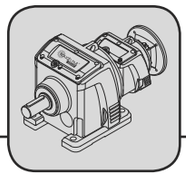
FH50 FH35 , ne=1400 1/min									1550 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	63	71	80	90L	100L	112M
		3	2						
0.85	1550	16900	1641						
1.03	1550	16900	1355						
1.26	1550	16900	1112						
1.39	1550	16900	1006						
1.70	1550	16900	826						
1.90	1550	16900	735						
2.22	1550	16900	632						
2.37	1550	16900	590						
2.68	1550	16900	522						
2.84	1550	16900	494						
3.18	1550	16900	440						
3.71	1550	16900	378						
4.49	1550	16900	312						
5.32	1550	16900	263						
6.05	1550	16900	231						
6.99	1550	16900	200						
		2	2						
2.60	1550	16900	538						
2.93	1550	16900	479						
3.39	1550	16900	412						
3.89	1550	16900	360						
4.55	1550	16900	308						
5.32	1550	16900	263						
6.12	1550	16900	229						
6.93	1550	16900	202						

Standard Input Flange / Solid Input Shaft - Standard Not available



FH60 FH35 , ne=1400 1/min						3000 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	63	71	80
			3 **3**			
0.07	3000	18100	20389			
0.08	3000	18100	18287			
0.09	3000	18100	15755			
0.10	3000	18100	14391			
0.11	3000	18100	12580			
0.12	3000	18100	11339			
0.14	3000	18100	10241			
0.16	3000	18100	8875			
0.21	3000	18100	6709			
0.23	3000	18100	5146			
0.27	3000	18100	5146			
0.18	3000	18100	7786			
0.31	3000	18100	4514			
0.35	3000	18100	4018			
0.40	3000	18100	3477			
			2 **3**			
0.30	3000	18100	4666			
0.33	3000	18100	4262			
0.38	3000	18100	3726			
0.47	3000	18100	3002			
0.52	3000	18100	2675			
0.58	3000	18100	2397			
0.65	3000	18100	2161			
0.80	3000	18100	1750			
0.83	3000	18100	1691			
0.91	3000	18100	1541			
1.02	3000	18100	1377			
1.10	3000	18100	1278			
1.27	3000	18100	1099			
1.43	3000	18100	980			
1.53	3000	18100	917			
1.73	3000	18100	810			
1.91	3000	18100	733			

Standard Input Flange / Solid Input Shaft - Standard Not available



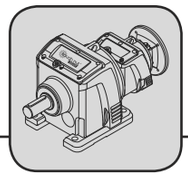
Helical Gear Units

Input Combinations

1400 Input Rpm

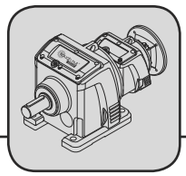
FH60 FH35 , ne=1400 1/min									3000 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	63	71	80	90L	100L	112M
		3	2						
0.47	3000	18100	3006						
0.50	3000	18100	2816						
0.60	3000	18100	2336						
0.67	3000	18100	2095						
0.76	3000	18100	1838						
0.81	3000	18100	1730						
0.90	3000	18100	1553						
1.00	3000	18100	1402						
1.09	3000	18100	1285						
1.28	3000	18100	1091						
1.47	3000	18100	952						
1.68	3000	18100	835						
1.82	3000	18100	768						
2.08	3000	18100	674						
2.38	3000	18100	588						
2.80	3000	18100	500						
3.21	3000	18100	436						
3.65	3000	18100	384						
4.18	3000	18100	335						
4.77	3000	18100	293						
5.80	3000	18100	241						
6.76	3000	18100	207						
		2	2						
2.29	3000	18100	610						
2.56	3000	18100	547						
3.10	3000	18100	452						
3.68	3000	18100	380						
4.17	3000	18100	336						
4.93	3000	18100	284						
5.72	3000	18100	245						
6.15	3000	18100	228						

Standard Input Flange / Solid Input Shaft - Standard Not available



FH70 FH40 , ne=1400 1/min								4300 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	71	80	90L	100L	112M
		3	3					
0.07	4300	29500	20068					
0.08	4300	29500	17519					
0.10	4300	29500	14495					
0.11	4300	29500	12810					
0.12	4300	29500	11285					
0.15	4300	29500	9251					
0.16	4300	29500	8718					
0.18	4300	29500	7767					
0.21	4300	29500	6765					
0.24	4300	29500	5947					
0.28	4300	29500	4993					
0.30	4300	29500	4605					
0.35	4300	29500	4049					
0.37	4300	29500	3816					
0.41	4300	29500	3400					
0.47	4300	29500	2961					
0.52	4300	29500	2683					
0.60	4300	29500	2330					
		2	3					
0.38	4300	29500	3701					
0.42	4300	29500	3349					
0.46	4300	29500	3062					
0.52	4300	29500	2706					
0.59	4300	29500	2384					
0.72	4300	29500	1955					
0.76	4300	29500	1842					
0.78	4300	29500	1788					
0.88	4300	29500	1590					
1.11	4300	29500	1256					
1.21	4300	29500	1159					
1.37	4300	29500	1021					
1.64	4300	29500	856					
1.74	4300	29500	806					
2.01	4300	29500	696					
2.55	4300	29500	550					

Standard Input Flange / Solid Input Shaft - Standard Not available



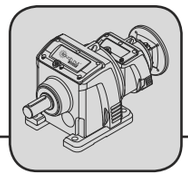
Helical Gear Units

Input Combinations

1400 Input Rpm

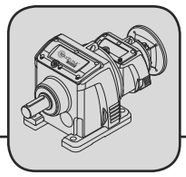
FH70 FH40 , ne=1400 1/min									4300 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	71	80	90L	100L	112M	132S
		3	2						
0.75	4300	18100	1862						
0.92	4300	29500	1528						
1.03	4300	29500	1361						
1.15	4300	29500	1221						
1.25	4300	29500	1124						
1.48	4300	29500	949						
1.76	4300	29500	796						
2.35	4300	29500	596						
2.85	4300	29500	492						
3.37	4300	29500	415						
4.02	4300	29500	349						
4.66	4300	29500	300						
5.52	4300	29500	253						
6.55	4300	29500	214						
7.42	4300	29500	189						
		2	2						
3.17	4300	29500	441						
3.56	4300	29500	393						
4.18	4300	29500	335						
4.84	4300	29500	289						
5.90	4300	29500	237						
6.23	4300	29500	225						
6.99	4300	29500	200						
7.37	4300	29500	190						
8.22	4300	29500	170						

Standard Input Flange / Solid Input Shaft - Standard Not available



FH90 FH40 , ne=1400 1/min								7000 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	71	80	90L	100L	112M
		3	3					
0.06	7000	37500	22840					
0.07	7000	37500	19938					
0.08	7000	37500	18041					
0.08	7000	37500	16497					
0.10	7000	37500	14579					
0.11	7000	37500	12843					
0.13	7000	37500	10529					
0.16	7000	37500	8565					
0.19	7000	37500	7280					
0.21	7000	37500	6769					
0.22	7000	37500	6243					
0.24	7000	37500	5739					
0.28	7000	37500	5056					
0.33	7000	37500	4237					
0.35	7000	37500	3993					
0.41	7000	37500	3447					
0.48	7000	37500	2930					
		2	3					
0.31	7000	37500	4568					
0.35	7000	37500	3988					
0.39	7000	37500	3608					
0.42	7000	37500	3299					
0.48	7000	37500	2916					
0.55	7000	37500	2569					
0.66	7000	37500	2106					
0.77	7000	37500	1824					
0.82	7000	37500	1713					
0.89	7000	37500	1575					
1.03	7000	37500	1354					
1.12	7000	37500	1249					
1.27	7000	37500	1100					
1.52	7000	37500	922					
1.61	7000	37500	869					
1.87	7000	37500	750					
2.03	7000	37500	689					

Standard Input Flange / Solid Input Shaft - Standard Not available



Helical Gear Units

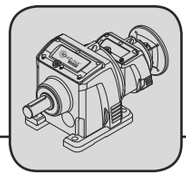
Input Combinations

1400 Input Rpm

3

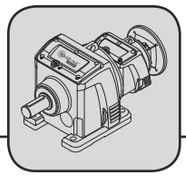
FH90 FH40 , ne=1400 1/min									7000 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	71	80	90L	100L	112M	132S
		3	2						
0.51	7000	37500	2733						
0.56	7000	37500	2513						
0.60	7000	37500	2323						
0.66	7000	37500	2120						
0.78	7000	37500	1802						
0.90	7000	37500	1549						
1.01	7000	37500	1389						
1.09	7000	37500	1279						
1.30	7000	37500	1080						
1.53	7000	37500	918						
1.68	7000	37500	834						
1.92	7000	37500	728						
2.06	7000	37500	678						
2.50	7000	37500	560						
2.96	7000	37500	473						
3.22	7000	37500	434						
3.79	7000	37500	369						
4.39	7000	37500	319						
4.94	7000	37500	284						
5.87	7000	37500	238						
6.93	7000	37500	202						
7.81	7000	37500	179						
		2	2						
2.56	7000	37500	547						
2.79	7000	37500	503						
3.30	7000	37500	424						
3.59	7000	37500	390						
4.02	7000	37500	348						
4.52	7000	37500	310						
4.92	7000	37500	285						

Standard Input Flange / Solid Input Shaft - Standard Not available



FH110 FH40 , ne=1400 1/min									13000 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	71	80	90L	100L	112M	132S
		3	3						
0.06	13000	62700	22847						
0.07	13000	62700	21238						
0.08	13000	62700	18540						
0.08	13000	62700	16776						
0.09	13000	62700	15340						
0.10	13000	62700	13556						
0.12	13000	62700	11942						
0.14	13000	62700	9791						
0.17	13000	62700	8415						
0.19	13000	62700	7264						
0.22	13000	62700	6294						
0.26	13000	62700	5294						
0.30	13000	62700	4664						
0.35	13000	62700	4038						
0.40	13000	62700	3486						
0.49	13000	62700	2873						
		3	2						
0.55	13000	62700	2541						
0.60	13000	62700	2318						
0.71	13000	62700	1971						
0.78	13000	62700	1798						
0.87	13000	62700	1617						
0.97	13000	62700	1440						
1.08	13000	62700	1292						
1.18	13000	62700	1190						
1.39	13000	62700	1004						
1.67	13000	62700	839						
1.96	13000	62700	716						
2.22	13000	62700	630						
2.69	13000	62700	520						
3.26	13000	62700	429						
2.69	13000	62700	521						
2.95	13000	62700	475						
3.38	13000	62700	414						

Standard Input Flange / Solid Input Shaft - Standard Not available



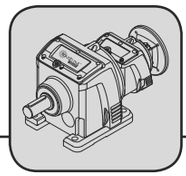
Helical Gear Units

Input Combinations

1400 Input Rpm

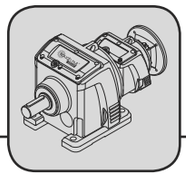
FH110 FH50 , ne=1400 1/min							13000 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	112M	132S	132M	160M
		3	2				
2.72	13000	62700	515				
3.17	13000	62700	442				
3.47	13000	62700	403				
3.84	13000	62700	365				
4.18	13000	62700	335				
4.87	13000	62700	287				
5.72	13000	62700	245				
6.59	13000	62700	213				
7.67	13000	62700	182				
8.28	13000	62700	169				

Standard Input Flange / Solid Input Shaft - Standard Not available



FH120 FH60 , ne=1400 1/min										18000 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	100L	112M	132S	132M	160M	160L	180M
		3	3							
0.05	18000	88200	27788							
0.06	18000	88200	22010							
0.07	18000	88200	20220							
0.08	18000	88200	17569							
0.09	18000	88200	15513							
0.10	18000	88200	14023							
0.11	18000	88200	12244							
0.12	18000	88200	11324							
0.13	18000	88200	10394							
0.15	18000	88200	9379							
0.16	18000	88200	8539							
0.18	18000	88200	7897							
0.20	18000	88200	6952							
0.23	18000	88200	6050							
0.25	18000	88200	5578							
0.31	18000	88200	4505							
0.34	18000	88200	4118							
0.39	18000	88200	3591							
0.46	18000	88200	3049							
		3	2							
0.54	18000	88200	2581							
0.59	18000	88200	2367							
0.68	18000	88200	2061							
0.75	18000	88200	1863							
0.85	18000	88200	1648							
0.94	18000	88200	1490							
1.15	18000	88200	1216							
1.36	18000	88200	1032							
1.50	18000	88200	933							
1.70	18000	88200	825							
1.88	18000	88200	745							
2.12	18000	88200	659							
2.54	18000	88200	551							
2.93	18000	88200	478							
3.41	18000	88200	411							
3.70	18000	88200	378							
4.26	18000	88200	328							
4.87	18000	88200	287							

Standard Input Flange / Solid Input Shaft - Standard Not available



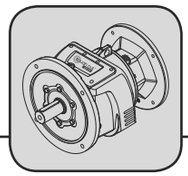
Helical Gear Units

Input Combinations

1400 Input Rpm

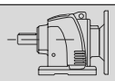
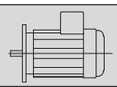
FH120 FH70 , ne=1400 1/min														18000 Nm
na [1/min]	Mamax [Nm]	FRa [N]	I	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M
		2	3											
0.51	18000	88200	2747											
0.55	18000	88200	2539											
0.57	18000	88200	2450											
0.61	18000	88200	2297											
0.68	18000	88200	2057											
0.74	18000	88200	1901											
0.86	18000	88200	1624											
0.94	18000	88200	1496											
1.03	18000	88200	1358											
1.11	18000	88200	1261											
1.32	18000	88200	1058											
1.49	18000	88200	940											
1.72	18000	88200	814											
2.01	18000	88200	695											
2.31	18000	88200	607											
2.70	18000	88200	518											
		3	2											
3.97	18000	88200	353											
4.81	18000	88200	291											
5.14	18000	88200	272											
6.33	18000	88200	221											
7.10	18000	88200	197											
8.85	18000	88200	158											
		2	2											
2.89	18000	88200	485											
3.64	18000	88200	385											
4.20	18000	88200	333											
4.90	18000	88200	286											
5.64	18000	88200	248											
6.74	18000	88200	208											
8.50	18000	88200	165											

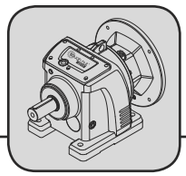
Standard Input Flange / Solid Input Shaft - Standard Not available



3.2 1400Rpm Selection Tables

FR..F/..M

Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
0.12	0.07	14475	21238	62700	0.90			
(0.16HP)	0.08	12635	18540	62700	1.03			
	0.08	11433	16776	62700	1.14			
	0.09	10454	15340	62700	1.24			
	0.10	9239	13556	62700	1.41	FMH110 FH40		404
	0.12	8139	11942	62700	1.60	FMV110 FH40	63	396
	0.14	6672	9791	62700	1.95	FMV110 FH40		380
	0.17	5735	8415	62700	2.27			
	0.19	4951	7264	62700	2.63			
	0.22	4289	6294	62700	3.03			
	0.26	3608	5294	62700	3.60			
	0.11	8753	12843	37500	0.80			
	0.13	7176	10529	37500	0.98			
	0.16	5837	8565	37500	1.20	FMH90 FH40		264
	0.19	4962	7280	37500	1.41	FMV90 FH40	63	275
	0.21	4613	6769	37500	1.52	FMW90 FH40		259
	0.22	4254	6243	37500	1.65			
	0.24	3911	5739	37500	1.79			
	0.28	3446	5056	37500	2.03			
	0.18	5293	7767	29500	0.81			
	0.21	4610	6765	29500	0.93			
	0.24	4053	5947	29500	1.06			
	0.28	3403	4993	29500	1.26	FMH70 FH40		182
	0.30	3138	4605	29500	1.37	FMV70 FH40	63	185
	0.35	2760	4049	29500	1.56	FMW70 FH40		174
	0.37	2600	3816	29500	1.65			
	0.41	2317	3400	29500	1.86			
	0.47	2018	2961	29500	2.13			
	0.38	2600	3701	29500	1.65			
	0.42	2353	3349	29500	1.83	FMH70 FH40		171
	0.46	2152	3062	29500	2.00	FMV70 FH40	63	175
	0.52	1901	2706	29500	2.26	FMW70 FH40		164
	0.59	1675	2384	29500	2.57			
	0.72	1373	1955	29500	3.13			
	0.31	3077	4514	18100	0.98	FLM60 FH35		110
	0.35	2738	4018	18100	1.10	FLV60 FH35	63	117
	0.40	2370	3477	18100	1.27	FLW60 FH35		106
	0.30	3278	4666	18100	0.92			
	0.33	2995	4262	18100	1.00			
	0.38	2618	3726	18100	1.15			
	0.47	2109	3002	18100	1.42	FLM60 FH35		108
	0.52	1879	2675	18100	1.60	FLV60 FH35	63	112
	0.58	1684	2397	18100	1.78	FLW60 FH35		101
	0.65	1518	2161	18100	1.98			
	0.80	1230	1750	18100	2.44			
	0.83	1188	1691	18100	2.53			
	0.47	2112	3006	18100	1.42			
	0.50	1978	2816	18100	1.52			

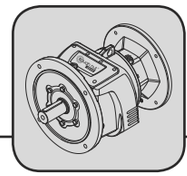


Helical Gear Units

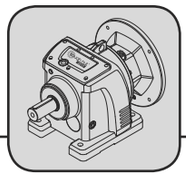
Selection Tables[kW]

1400 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
0.12	0.60	1641	2336	18100	1.83			
(0.16HP)	0.67	1472	2095	18100	2.04	FLM60 FH35		109
	0.76	1291	1838	18100	2.32	FLV60 FH35	63	116
	0.81	1216	1730	18100	2.47	FLW60 FH35		105
	0.90	1091	1553	18100	2.75			
	1.00	985	1402	18100	3.05			
	1.09	903	1285	18100	3.32			
	1.28	766	1091	18100	3.92			
	0.58	1642	2410	16900	0.91	FLH50 FH35		77
	0.63	1511	2216	16900	0.99	FLV50 FH35	63	81
	0.71	1347	1977	16900	1.11	FLW50 FH35		77
	0.54	1811	2577	16900	0.83			
	0.60	1632	2323	16900	0.92	FLH50 FH35		75
	0.67	1474	2098	16900	1.02	FLV50 FH35	63	79
	0.74	1322	1882	16900	1.13	FLW50 FH35		75
	0.77	1277	1818	16900	1.17			
	0.85	1164	1656	16900	1.29			
	0.85	1153	1641	16900	1.30			
	1.03	952	1355	16900	1.58			
	1.26	781	1112	16900	1.92	FLH50 FH35		77
	1.39	707	1006	16900	2.12	FLV50 FH35	63	80
	1.70	580	826	16900	2.59	FLW50 FH35		76
	1.90	517	735	16900	2.90			
	2.22	444	632	16900	3.38			
	2.37	415	590	16900	3.62			
	1.11	885	1259	8620	0.85	FLH40 FH25		39
	1.27	773	1100	8620	0.97	FLV40 FH25	63	45
	1.36	721	1026	8620	1.04	FLW40 FH25		41
	1.50	656	934	8620	1.14			
	1.12	876	1246	8620	0.86			
	1.33	742	1056	8620	1.01	FLH40 FH25		40
	1.50	654	931	8620	1.15	FLV40 FH25	63	46
	1.67	589	838	8620	1.27	FLW40 FH25		42
	1.96	503	715	8620	1.49			
	2.31	426	607	8620	1.76			
	2.72	373	515	8620	2.01			
	3.01	337	465	8620	2.23	FLH40 FH25		38
	3.36	302	417	8620	2.48	FLV40 FH25	63	44
	3.81	266	367	8620	2.82	FLW40 FH25		40
	4.60	221	305	8620	3.40			
	1.64	601	855	7560	1.00			
	1.88	600	745	7560	1.15	FLH35* FH25		34
	2.12	465	662	7560	1.29	FLV35* FH25	63	35
	2.53	388	552	7560	1.55	FLW35* FH25		33
	2.88	342	487	7560	1.76			
	1.67	589	839	7560	1.02			
	1.85	532	757	7560	1.13	FLH35* FH25		35
	2.17	454	646	7560	1.32	FLV35* FH25	63	36
	2.55	385	548	7560	1.56	FLW35* FH25		34
	3.12	316	449	7560	1.90			
	3.77	261	371	7560	2.30			



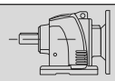
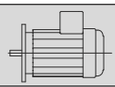
Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
0.12	1.79	551	784	7110	0.82	FLH35 FH25		28
(0.16HP)	2.14	460	654	7110	0.98	FLV35 FH25	63	31
	2.30	428	610	7110	1.05	FLW35 FH25		29
	2.04	482	686	7110	0.93			
	2.39	411	586	7110	1.09	FLH35 FH25		28
	2.82	349	496	7110	1.29	FLV35 FH25	63	31
	3.44	286	407	7110	1.57	FLW35 FH25		29
	3.81	258	368	7110	1.74			
	3.77	269	371	7110	1.68			
	4.24	239	330	7110	1.88	FLH35 FH25		28
	4.55	223	308	7110	2.02	FLV35 FH25	63	30
	5.07	200	276	7110	2.25	FLW35 FH25		28
	5.93	171	236	7110	2.63			
	6.52	156	215	7110	2.89			
	2.89	341	485	5420	0.88	FLH30 FH25		27
	3.52	280	398	5420	1.07	FLV30 FH25	63	27
						FLW30 FH25		26
	3.11	326	450	5420	0.92			
	3.45	294	406	5420	1.02		63	
	3.82	265	366	5420	1.13	FLH30 FH25		26
	4.26	238	329	5420	1.26			
	4.84	210	289	5420	1.43	FLV30 FH25		26
	5.83	174	240	5420	1.73	FLW30 FH25	63	25
	6.49	156	216	5420	1.92			
	7.60	133	184	5420	2.25			
	7.00	149	199.88	7560	4.02			26
	8.28	126	169.10	7560	4.75	FH-F35		24
	9.27	113	151.03	7560	5.32	FH-F35*	63	22
	9.95	105	140.75	7560	5.71			
	7.65	137	182.99	7110	3.29			
	8.53	123	164.13	7110	3.67			20
	9.90	106	141.40	7110	4.26	FH-F35	63	23
	10.84	96	129.16	7110	4.67	FH-F35*		21
	12.40	84	112.90	7110	5.34			
	13.76	76	101.77	7110	5.92			
	7.83	134	178.83	5420	2.25			
	8.73	120	160.40	5420	2.50			
	10.13	103	138.19	5420	2.91			
	11.09	94	126.22	5420	3.18			
	12.69	82	110.34	5420	3.64	FH-F30		19
	14.08	74	99.46	5420	4.04	FH-FL30	63	17
	15.59	67	89.82	5420	4.47			17
	17.37	60	80.58	5420	4.99			
	17.99	58	77.84	5420	5.16			
	19.74	53	70.91	5420	5.67			
	10.12	103	138.36	4950	1.94			
	11.74	89	119.28	4950	2.25			
	13.93	75	100.51	4950	2.66			
	15.30	68	91.53	4950	2.93			11
	17.55	60	79.77	4950	3.36	FH-F25	63	12
	18.26	57	76.66	4950	3.49	FH-FL25		11

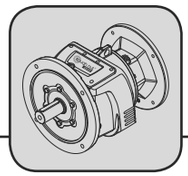


Helical Gear Units

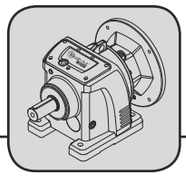
Selection Tables[kW]

1400 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
0.12	20.05	52	69.81	4950	3.84			
(0.16HP)	23.01	45	60.84	4950	4.40			
	25.91	40	54.03	4950	4.96			
	26.80	39	52.24	4930	5.13			
	23.64	44	59.23	1770	1.92			
	28.05	37	49.90	1770	2.28			
	30.80	34	45.45	1770	2.50			
	35.35	30	39.61	1770	2.87	FH20		8
	39.81	26	35.17	1770	3.24	FH-FL20	63	8
	47.69	22	29.36	1770	3.88			
	56.53	18	24.76	1770	4.60			
	71.10	15	19.69	1770	5.78			
0.18	0.09	15681	15340	62700	0.83			
(0.25HP)	0.10	13858	13556	62700	0.94			
	0.12	12208	11942	62700	1.06			
	0.14	10008	9791	62700	1.30			
	0.17	8602	8415	62700	1.51	FMH110 FH40		404
	0.19	7426	7264	62700	1.75	FMV110 FH40	63	396
	0.22	6434	6294	62700	2.02	FMW110 FH40		380
	0.26	5412	5294	62700	2.40			
	0.30	4768	4664	62700	2.73			
	0.35	4128	4038	62700	3.15			
	0.40	3564	3486	62700	3.65			
	0.16	8756	8565	37500	0.80			
	0.19	7442	7280	37500	0.94			
	0.21	6919	6769	37500	1.01	FMH90 FH40		264
	0.22	6381	6243	37500	1.10	FMV90 FH40	63	275
	0.24	5867	5739	37500	1.19	FMW90 FH40		259
	0.28	5169	5056	37500	1.35			
	0.33	4332	4237	37500	1.62			
	0.35	4082	3993	37500	1.71			
	0.31	4814	4568	37500	1.45			
	0.35	4203	3988	37500	1.67	FMH90 FH40		252
	0.39	3803	3608	37500	1.84	FMV90 FH40	63	264
	0.42	3477	3299	37500	2.01	FMW90 FH40		248
	0.48	3073	2916	37500	2.28			
	0.30	4708	4605	29500	0.91	FMH70 FH40		182
	0.37	3901	3816	29500	1.10	FMV70 FH40	63	185
	0.47	3027	2961	29500	1.42	FMW70 FH40		174
	0.38	3901	3701	29500	1.10			
	0.42	3529	3349	29500	1.22	FMH70 FH40		171
	0.46	3227	3062	29500	1.33	FMV70 FH40	63	175
	0.52	2852	2706	29500	1.51	FMW70 FH40		164
	0.59	2513	2384	29500	1.71			
	0.72	2060	1955	29500	2.09			
	0.75	1963	1862	29500	2.19	FMH70 FH40		180
	0.92	1610	1528	29500	2.67	FMV70 FH40	63	183
	1.03	1434	1361	29500	3.00	FMW70 FH40		172
	1.15	1287	1221	29500	3.34			
	0.52	2819	2675	18100	1.06			
	0.58	2526	2397	18100	1.19			
	0.65	2277	2161	18100	1.32			
	0.80	1845	1750	18100	1.63			
	0.83	1782	1691	18100	1.68			



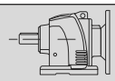
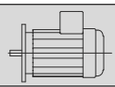
Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
0.18	0.91	1624	1541	18100	1.85	FLH60 FH35		108
(0.25HP)	1.02	1451	1377	18100	2.07	FLV60 FH35	63	112
	1.10	1347	1278	18100	2.23	FLW60 FH35		101
	1.27	1159	1099	18100	2.59			
	1.43	1033	980	18100	2.90			
	1.53	966	917	18100	3.11			
	1.73	853	810	18100	3.52			
	1.91	772	733	18100	3.88			
	0.50	2968	2816	18100	1.01	FLH60 FH35		109
	0.60	2462	2336	18100	1.22	FLV60 FH35	63	116
	0.67	2207	2095	18100	1.36	FLW60 FH35		105
	0.95	1560	1480	16900	0.96			
	1.02	1448	1374	16900	1.04	FLH50 FH35		75
	1.13	1301	1234	16900	1.15	FLV50 FH35	63	79
	1.33	1111	1054	16900	1.35	FLW50 FH35		75
	1.53	965	916	16900	1.55			
	1.66	888	842	16900	1.69			
	0.85	1729	1641	16900	0.87			
	1.03	1428	1355	16900	1.05	FLH50 FH35		77
	1.26	1172	1112	16900	1.28	FLV50 FH35	63	80
	1.39	1060	1006	16900	1.41	FLW50 FH35		76
	1.70	870	826	16900	1.72			
	1.90	775	735	16900	1.94			
	1.72	858	814	8620	0.87	FLH40 FH25		39
	1.94	762	723	8620	0.98	FLV40 FH25	63	45
	2.32	636	603	8620	1.18	FLW40 FH25		41
	2.50	591	561	8620	1.27			
	1.67	883	838	8620	0.85	FLH40 FH25		40
	1.96	754	715	8620	0.99	FLV40 FH25	63	46
	2.31	639	607	8620	1.17	FLW40 FH25		42
	2.72	559	515	8620	1.34			
	3.01	505	465	8620	1.48	FLH40 FH25		38
	3.36	453	417	8620	1.66	FLV40 FH25	63	44
	3.81	399	367	8620	1.88	FLW40 FH25		40
	4.60	331	305	8620	2.27			
	5.12	297	273	8620	2.52			
	2.53	582	552	7560	1.03	FLH35* FH25		34
	2.88	513	487	7560	1.17	FLV35* FH25	63	35
		0				FLW35* FH25		33
	2.17	681	646	7560	0.88	FLH35* FH25		35
	2.55	578	548	7560	1.04	FLV35* FH25	63	36
	3.12	474	449	7560	1.27	FLW35* FH25		34
	3.77	391	371	7560	1.53			
	3.29	462	426	7560	1.30			
	3.67	415	382	7560	1.45	FLH35* FH25		28
	4.17	365	336	7560	1.64	FLV35* FH25	63	31
	4.73	322	296	7560	1.87	FLW35* FH25		29
	5.02	303	279	7560	1.98			
	2.88	513	487	7110	0.88			
	3.48	424	402	7110	1.06	FLH35 FH25		28
	2.82	523	496	7110	0.86	FLV35 FH25	63	31
	3.44	429	407	7110	1.05	FLW35 FH25		29
	3.81	387	368	7110	1.16			

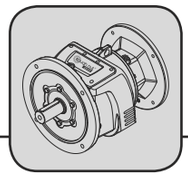


Helical Gear Units

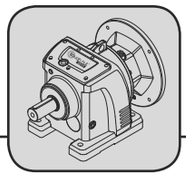
Selection Tables[kW]

1400 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
0.18	3.77	403	371	7110	1.12			
(0.25HP)	4.24	359	330	7110	1.25			
	4.55	334	308	7110	1.35	FLH35 FH25		28
	5.07	300	276	7110	1.50	FLV35 FH25	63	30
	5.93	256	236	7110	1.75	FLW35 FH25		28
	6.52	233	215	7110	1.93			
	8.82	172	159	7110	2.61			
	4.26	357	329	5420	0.84			
	4.84	314	289	5420	0.95	FLH30 FH25		26
	5.83	261	240	5420	1.15	FLV30 FH25	63	26
	6.49	234	216	5420	1.28	FLW30 FH25		25
	7.60	200	184	5420	1.50			
	7.00	224	199.88	7560	2.68			
	8.28	189	169.10	7560	3.17			
	9.27	169	151.03	7560	3.55			
	9.95	158	140.75	7560	3.81	FH-F35*		26
	11.17	140	125.28	7560	4.28	FH-FL35*	63	24
	12.46	126	112.34	7560	4.77			22
	14.19	111	98.69	7560	5.43			
	15.09	104	92.80	7560	5.77			
	7.65	205	182.99	7110	2.20			
	8.53	184	164.13	7110	2.45			
	9.90	158	141.40	7110	2.84			
	10.84	145	129.16	7110	3.11	FH-F35		20
	12.40	126	112.90	7110	3.56	FH-FL35	63	23
	13.76	114	101.77	7110	3.95			21
	15.23	103	91.91	7110	4.37			
	17.58	89	79.65	7110	5.04			
	19.29	81	72.56	7110	5.54			
	7.83	200	178.83	5420	1.50			
	8.73	180	160.40	5420	1.67			
	10.13	155	138.19	5420	1.94			
	11.09	141	126.22	5420	2.12	FH-F30		19
	12.69	124	110.34	5420	2.43	FH-FL30	63	17
	14.08	111	99.46	5420	2.69			
	15.59	101	89.82	5420	2.98			
	17.37	90	80.58	5420	3.32			
	17.99	87	77.84	5420	3.44			
	19.74	79	70.91	5420	3.78			
	22.09	71	63.37	5420	4.23			
	23.79	66	58.84	5420	4.55			
	26.50	59	52.84	5420	5.07			
	31.02	51	45.13	5420	5.93			
	10.12	155	138.36	4950	1.29			
	11.74	134	119.28	4950	1.50			
	13.93	113	100.51	4950	1.78			
	15.30	103	91.53	4950	1.95			
	17.55	89	79.77	4950	2.24			
	18.26	86	76.66	4950	2.33			
	20.05	78	69.81	4950	2.56	FH-F25		11
	23.01	68	60.84	4950	2.93	FH-FL25	63	12
	25.91	61	54.03	4895	3.31			11
	26.80	59	52.24	4825	3.42			
	31.81	49	44.01	4590	4.06			



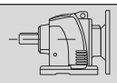
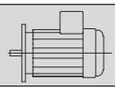
Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
0.18	34.93	45	40.08	4465	4.45			
(0.25HP)	40.08	39	34.93	4285	5.11			
	45.13	35	31.02	4135	5.76			
	23.64	66	59.23	1770	1.28			
	28.05	56	49.90	1770	1.52			
	30.80	51	45.45	1770	1.67			
	35.35	44	39.61	1770	1.92	FH-F20		8
	39.81	39	35.17	1770	2.16	FH-FL20	63	8
	47.69	33	29.36	1770	2.59			
	56.53	28	24.76	1770	3.06			
	71.10	22	19.69	1770	3.85			
0.25	0.14	13901	9791	62700	0.94			
(0.34HP)	0.17	11947	8415	62700	1.09			
	0.19	10314	7264	62700	1.26			
	0.22	8936	6294	62700	1.45	FMH110 FH40		404
	0.26	7517	5294	62700	1.73	FMV110 FH40	71	396
	0.30	6622	4664	62700	1.96	FMW110 FH40		380
	0.35	5733	4038	62700	2.27			
	0.40	4950	3486	62700	2.63			
	0.49	4079	2873	62700	3.19			
	0.24	8149	5739	37500	0.86	FMH90 FH40		264
	0.28	7179	5056	37500	0.98	FMV90 FH40	71	275
	0.33	6016	4237	37500	1.16	FMW90 FH40		259
	0.35	5669	3993	37500	1.23			
	0.31	6686	4568	37500	1.05			
	0.35	5837	3988	37500	1.20	FMH90 FH40		252
	0.39	5281	3608	37500	1.33	FMV90 FH40	71	264
	0.42	4829	3299	37500	1.45	FMW90 FH40		248
	0.48	4268	2916	37500	1.64			
0.18	0.51	4000	2733	37500	1.75			
(0.34HP)	0.56	3678	2513	37500	1.90			
	0.60	3400	2323	37500	2.06	FMH90 FH40		261
	0.66	3103	2120	37500	2.26	FMV90 FH40	71	273
	0.78	2637	1802	37500	2.65	FMW90 FH40		257
	0.90	2267	1549	37500	3.09			
	1.01	2034	1389	37500	3.44			
	1.09	1873	1279	37500	3.74			
	0.47	4204	2961	29500	1.02	FMH70 FH40		182
						FMV70 FH40	71	185
						FMW70 FH40		174
	0.46	4482	3062	29500	0.96	FMH70 FH40		171
						FMV70 FH40	71	175
						FMW70 FH40		164
	0.75	2726	1862	29500	1.58			
	0.92	2237	1528	29500	1.92			
	1.03	1992	1361	29500	2.16	FMH70 FH40		180
	1.15	1787	1221	29500	2.41	FMV70 FH40	71	183
	1.25	1645	1124	29500	2.61	FMW70 FH40		172
	1.48	1388	949	29500	3.10			
	1.76	1166	796	29500	3.69			
	0.80	2562	1750	18100	1.17	FLH60 FH35		108
	0.83	2475	1691	18100	1.21	FLV60 FH35	71	112
						FLW60 FH35		101

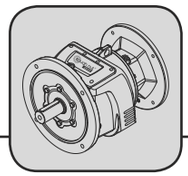


Helical Gear Units

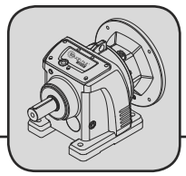
Selection Tables[kW]

1400 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
0.18	0.76	2690	1838	18100	1.12			
(0.34HP)	0.81	2533	1730	18100	1.18			
	0.90	2272	1553	18100	1.32			
	1.00	2052	1402	18100	1.46	FLH60 FH35		109
	1.09	1880	1285	18100	1.60	FLV60 FH35	71	116
	1.28	1596	1091	18100	1.88	FLW60 FH35		105
	1.47	1394	952	18100	2.15			
	1.68	1223	835	18100	2.45			
	1.82	1124	768	18100	2.67			
	2.08	986	674	18100	3.04			
	1.13	1806	1234	16900	0.83	FLH50 FH35		75
	1.33	1543	1054	16900	0.97	FLV50 FH35	71	79
	1.53	1341	916	16900	1.12	FLW50 FH35		75
	1.66	1233	842	16900	1.22			
	1.26	1628	1112	16900	0.92			
	1.70	1208	826	16900	1.24			
	1.90	1076	735	16900	1.39	FLH50 FH35		77
	2.22	925	632	16900	1.62	FLV50 FH35	71	80
	2.37	864	590	16900	1.74	FLW50 FH35		76
	2.68	764	522	16900	1.96			
	3.18	644	440	16900	2.33			
	5.32	385	263	16900	3.89			
	2.50	821	561	8620	0.91	FLH40 FH25		39
						FLV40 FH25	71	45
						FLW40 FH25		41
	2.62	782	534	8620	0.96			
	2.81	728	497	8620	1.03	FLH40 FH25		40
	3.20	641	438	8620	1.17	FLV40 FH25	71	46
	3.77	543	371	8620	1.38	FLW40 FH25		42
	4.45	461	315	8620	1.63			
	2.72	777	515	8620	0.97			
	3.01	702	465	8620	1.07			
	3.36	629	417	8620	1.19	FLH40 FH25		38
	3.81	554	367	8620	1.35	FLV40 FH25	71	44
	4.60	460	305	8620	1.63	FLW40 FH25		40
	5.12	413	273	8620	1.82			
	5.99	353	234	8620	2.13			
0.25	3.77	543	371	7560	1.10	FLH35* FH25		35
(0.34HP)						FLV35* FH25	71	36
						FLW35* FH25		34
	3.29	642	426	7560	0.93			
	3.67	576	382	7560	1.04			
	4.17	507	336	7560	1.18			
	4.73	447	296	7560	1.34	FLH35* FH25		33
	5.02	421	279	7560	1.43	FLV35* FH25	71	35
	5.59	378	250	7560	1.59	FLW35* FH25		33
	6.35	333	221	7560	1.80			
	6.55	323	214	7560	1.86			
	7.72	274	181	7560	2.19			
	8.77	241	160	7560	2.49			
	4.24	498	330	7110	0.90			
	4.55	464	308	7110	0.97			
	5.07	417	276	7110	1.08	FLH35 FH25		28
	5.93	356	236	7110	1.26	FLV35 FH25	71	30
	6.52	324	215	7110	1.39	FLW35 FH25		28
	8.82	239	159	7110	1.88			



Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
	9.63	219	145	7110	2.05			
	5.83	362	240	5420	0.83	FLH30 FH25		26
	6.49	325	216	5420	0.92	FLV30 FH25	71	26
	7.60	278	184	5420	1.08	FLW30 FH25		25
	8.97	236	156	5420	1.27			
	7.19	303	194.80	8620	2.47			
	8.23	265	170.05	8620	2.84			
	9.10	239	153.87	8620	3.13			
	9.95	219	140.70	8620	3.43	FH-F40		32
	11.26	193	124.34	8620	3.88	FH-FL40	71	37
	12.78	170	109.54	8620	4.40			33
	15.59	140	89.80	8620	4.80			
	16.54	132	84.62	8620	4.80			
	7.00	311	199.88	7560	1.93			
	8.28	263	169.10	7560	2.28			
	9.27	235	151.03	7560	2.55			
	9.95	219	140.75	7560	2.74			26
	11.17	195	125.28	7560	3.08	FH-F35*	71	24
	12.46	175	112.34	7560	3.43	FH-FL35*		22
	14.19	154	98.69	7560	3.91			
	15.09	144	92.80	7560	4.16			
	17.81	122	78.59	7560	4.80			
	20.32	107	68.90	7560	4.80			
	7.65	285	182.99	7110	1.58			
	8.53	255	164.13	7110	1.76			
	9.90	220	141.40	7110	2.05			
	10.84	201	129.16	7110	2.24			
	12.40	176	112.90	7110	2.56			
	13.76	158	101.77	7110	2.84	FH-F35		20
	15.23	143	91.91	7110	3.15	FH-FL35	71	23
	16.98	128	82.45	7110	3.51			21
	17.58	124	79.65	7110	3.63			
	19.29	113	72.56	7110	3.99			
	21.59	101	64.84	7110	4.46			
	23.25	94	60.21	7110	4.80			
	25.89	84	54.07	7110	4.80			
	7.83	278	178.83	5420	1.08			
	8.73	250	160.40	5420	1.20			
	10.13	215	138.19	5420	1.40			
	11.09	196	126.22	5420	1.53			
	12.69	172	110.34	5420	1.75			
	14.08	155	99.46	5420	1.94			
	15.59	140	89.82	5420	2.15			
	17.37	125	80.58	5420	2.39			
	17.99	121	77.84	5420	2.48			
	19.74	110	70.91	5420	2.72	FH-F30		19
	22.09	99	63.37	5420	3.04	FH-FL30	71	17
	23.79	92	58.84	5420	3.28			17
	26.50	82	52.84	5420	3.65			
	31.02	70	45.13	5420	4.27			
	33.73	65	41.51	5420	4.65			
	37.56	58	37.28	5420	4.80			
	10.12	215	138.36	4950	0.93			
	11.74	186	119.28	4950	1.08			

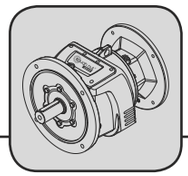


Helical Gear Units

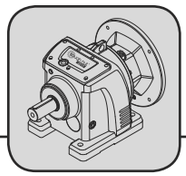
Selection Tables[kW]

1400 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
0.25	13.93	156	100.51	4950	1.28			
(0.34HP)	15.30	142	91.53	4950	1.40			
	17.55	124	79.77	4950	1.61			
	18.26	119	76.66	4950	1.68			
	20.05	109	69.81	4950	1.84	FH-F25		11
	23.01	95	60.84	4935	2.11	FH-FL25	71	12
	25.91	84	54.03	4780	2.38			11
	26.80	81	52.24	4705	2.46			
	31.81	68	44.01	4485	2.92			
	34.93	62	40.08	4370	3.21			
	40.08	54	34.93	4205	3.68			
	45.13	48	31.02	4060	4.14			
	54.07	40	25.89	3855	4.80			
	57.14	39	24.50	3800	5.01	FH-F25		11
	63.39	35	22.09	3680	5.44	FH-FL25	71	11
	70.19	32	19.95	3570	5.92			10
	39.81	55	35.17	1770	1.55			
	47.69	46	29.36	1770	1.86	FH-F20		8
	56.53	39	24.76	1770	2.21	FH-FL20	71	8
	71.10	31	19.69	1770	2.77			
	93.22	24	15.02	1770	2.97			
	110.64	20	12.65	1770	3.29	FH-F20		8
	139.40	16	10.04	1690	3.79	FH-FL20	71	7
	188.09	12	7.44	1570	4.56			
	280.41	8	4.99	1400	5.82			
	223.29	10	6.27	3000	4.15			
	255.94	9	5.47	2870	4.80			
	282.83	8	4.95	2750	4.80	FX25	71	12
	309.05	7	4.53	2690	4.80			
	397.73	6	3.52	2470	14.95			
	514.71	4	2.72	2280	19.77			
	255.94	9	5.47	2480	4.08			
	286.89	8	4.88	2400	4.72			
	307.69	8	4.55	2320	4.80			
	345.68	7	4.05	2260	4.80			
	385.67	6	3.63	2160	10.84			
	438.87	5	3.19	2075	12.08	FX20	71	10
	466.67	5	3.00	2035	12.44			
	627.80	4	2.23	1850	14.32			
	880.50	3	1.59	1660	16.20			
	1068.70	2	1.31	1565	19.32			
0.37	0.19	15264	7264	62700	0.85			
(0.5HP)	0.22	13225	6294	62700	0.98			
	0.26	11125	5294	62700	1.17	FMH110 FH40		404
	0.30	9801	4664	62700	1.33	FMV110 FH40	71	396
	0.35	8486	4038	62700	1.53	FMW110 FH40		380
	0.40	7325	3486	62700	1.77			
	0.49	6037	2873	62700	2.15			
	0.35	8390	3993	37500	0.83	FMH90 FH40		264
						FMV90 FH40	71	275
						FMW90 FH40		259
	0.35	8639	3988	37500	0.81			
	0.39	7816	3608	37500	0.90	FMH90 FH40		252
	0.42	7147	3299	37500	0.98	FMV90 FH40	71	264



Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
	0.48	6316	2916	37500	1.11	FMW90 FH40		248
	0.55	5564	2569	37500	1.26			
	0.66	4562	2106	37500	1.53			
	0.51	5921	2733	37500	1.18			
	0.56	5443	2513	37500	1.29			
	0.60	5032	2323	37500	1.39			
	0.66	4592	2120	37500	1.52	FMH90 FH40		261
	0.78	3903	1802	37500	1.79	FMV90 FH40	71	273
	0.90	3356	1549	37500	2.09	FMW90 FH40		257
	1.01	3010	1389	37500	2.33			
	1.09	2771	1279	37500	2.53			
	1.30	2339	1080	37500	2.99			
	1.53	1988	918	37500	3.52			
	0.72	4234	1955	29500	1.02			
	0.76	3990	1842	29500	1.08			
	0.78	3872	1788	29500	1.11	FMH70 FH40		171
	0.88	3444	1590	29500	1.25	FMV70 FH40	71	175
	1.11	2722	1256	29500	1.58	FMW70 FH40		164
	1.21	2510	1159	29500	1.71			
	1.37	2211	1021	29500	1.94			
	0.75	4035	1862	29500	1.07			
	0.92	3310	1528	29500	1.30			
	1.03	2948	1361	29500	1.46	FMH70 FH40		180
	1.15	2645	1221	29500	1.63	FMV70 FH40	71	183
	1.25	2435	1124	29500	1.77	FMW70 FH40		172
	1.48	2055	949	29500	2.09			
	1.76	1725	796	29500	2.49			
	1.10	2769	1278	18100	1.08	FLH60 FH35		108
	1.27	2382	1099	18100	1.26	FLV60 FH35	71	112
						FLW60 FH35		101
	1.00	3037	1402	18100	0.99			
	1.09	2783	1285	18100	1.08			
	1.28	2362	1091	18100	1.27			
	1.47	2063	952	18100	1.45			
	1.68	1810	835	18100	1.66	FLH60 FH35		109
	1.82	1664	768	18100	1.80	FLV60 FH35	71	116
	2.08	1460	674	18100	2.05	FLW60 FH35		105
	2.38	1275	588	18100	2.35			
	2.80	1082	500	18100	2.77			
	3.21	945	436	18100	3.18			
	3.65	831	384	18100	3.61			
	4.18	726	335	18100	4.13			
	1.66	1825	842	16900	0.82	FLH50 FH35		75
	1.85	1639	756	16900	0.92	FLV50 FH35	71	79
	2.18	1389	641	16900	1.08	FLW50 FH35		75
	1.90	1593	735	16900	0.94			
	2.22	1369	632	16900	1.10			
	2.37	1279	590	16900	1.17	FLH50 FH35		77
	2.68	1131	522	16900	1.33	FLV50 FH35	71	80
	3.18	952	440	16900	1.57	FLW50 FH35		76
	5.32	570	263	16900	2.63			
	6.05	501	231	16900	2.99			
	2.60	1201	538	16900	1.25	FLH50 FH35		74
	2.93	1069	479	16900	1.40	FLV50 FH35	71	78

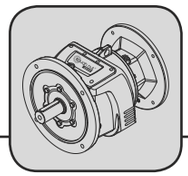


Helical Gear Units

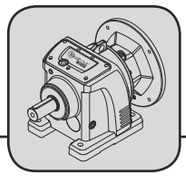
Selection Tables[kW]

1400 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
0.37 (0.5HP)	3.39	921	412	16900	1.63	FLW50 FH35		74
	3.89	804	360	16900	1.87			
	3.77	804	371	8620	0.93	FLH40 FH25		40
	4.45	682	315	8620	1.10	FLV40 FH25	71	46
						FLW40 FH25		42
	3.36	931	417	8620	0.81			
	3.81	820	367	8620	0.91	FLH40 FH25		38
	4.60	680	305	8620	1.10	FLV40 FH25	71	44
	5.12	611	273	8620	1.23	FLW40 FH25		40
	5.99	522	234	8620	1.44			
	7.07	442	198	8620	1.70			
	4.73	661	296	7560	0.91			
	5.02	623	279	7560	0.96	FLH35* FH25		33
	5.59	559	250	7560	1.07	FLV35* FH25	71	35
	6.35	492	221	7560	1.22	FLW35* FH25		33
	6.55	477	214	7560	1.26			
	7.19	448	194.80	8620	1.67			
	8.23	392	170.05	8620	1.92			
	9.10	354	153.87	8620	2.12			
	9.95	324	140.70	8620	2.32			
	11.26	286	124.34	8620	2.62	FH-F40		32
	12.78	252	109.54	8620	2.97	FH-FL40	71	37
	15.59	207	89.80	8620	3.24			33
	16.54	195	84.62	8620	3.24			
	19.17	168	73.05	8620	4.46			
	24.25	133	57.73	8620	5.64			
	7.00	460	199.88	7560	1.30			
	8.28	389	169.10	7560	1.54			
	9.27	348	151.03	7560	1.73			
	9.95	324	140.75	7560	1.85			
	11.17	288	125.28	7560	2.08			
	12.46	259	112.34	7560	2.32			
	14.19	227	98.69	7560	2.64	FH-F35*		26
	15.09	214	92.80	7560	2.81	FH-FL35*	71	24
	17.81	181	78.59	7560	3.24			22
	20.32	159	68.90	7560	3.24			
	22.20	145	63.07	7560	3.24			
	24.04	134	58.23	7560	3.24			
	26.81	120	52.21	7560	3.24			
	30.52	106	45.87	7560	5.68			
	33.97	95	41.22	7310	5.28			
	36.12	89	38.75	7175	5.50			
	7.65	421	182.99	7110	1.07			
	8.53	378	164.13	7110	1.19			
	9.90	326	141.40	7110	1.38			
	10.84	297	129.16	7	110 1.51			
	12.40	260	112.90	7110	1.73			
	13.76	234	101.77	7110	1.92			
	15.23	212	91.91	7110	2.13			
	16.98	190	82.45	7110	2.37			
	17.58	183	79.65	7110	2.45	FH-F35		20
	19.29	167	72.56	7110	2.69	FH-FL35	71	23
	21.59	149	64.84	7110	3.01 21			
	23.25	139	60.21	7110	3.24			



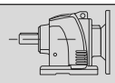
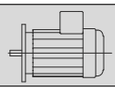
Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
0.37	25.89	124	54.07	7090	3.24			
(0.5HP)	30.32	106	46.18	6775	3.24			
	32.96	98	42.48	6610	3.24			
	36.70	88	38.14	6405	3.24			
	43.31	74	32.33	6035	4.88			
	50.70	64	27.61	5760	5.42			
	55.12	58	25.40	5615	5.73			
	8.73	369	160.40	5420	0.81			
	10.13	318	138.19	5420	0.94			
	11.09	291	126.22	5420	1.03			
	12.69	254	110.34	5420	1.18			
	14.08	229	99.46	5420	1.31			
	15.59	207	89.82	5420	1.45			
	17.37	186	80.58	5420	1.62			
	17.99	179	77.84	5420	1.67			
	19.74	163	70.91	5420	1.84	FH-F30		19
	22.09	146	63.37	5420	2.06	FH-FL30	71	17
	23.79	135	58.84	5420	2.21 17			
	26.50	122	52.84	5420	2.47			
	31.02	104	45.13	5420	2.89			
	33.73	96	41.51	5420	3.14			
	37.56	86	37.28	5420	3.24			
	43.98	73	31.83	5420	4.09			
	51.49	63	27.19	5420	4.79			
	55.98	58	25.01	5420	5.21			
	62.34	52	22.46	5410	5.80			
	56.68	59	24.70	5420	5.12	FH-F30		18
	60.82	55	23.02	5420	5.49	FH-FL30		17
								16
	13.93	231	100.51	4950	0.86			
	15.30	211	91.53	4950	0.95			
	17.55	184	79.77	4950	1.09			
	18.26	176	76.66	4950	1.13			
	20.05	161	69.81	4860	1.24			
	23.01	140	60.84	4705	1.43	FH-F25		11
	25.91	124	54.03	4575	1.61	FH-FL25		12
	26.80	120	52.24	4490	1.66			11
	31.81	101	44.01	4310	1.97			
	34.93	92	40.08	4210	2.17			
	40.08	80	34.93	4060	2.49			
	45.13	71	31.02	3935	2.80			
	54.07	60	25.89	3750	3.24			
	57.14	58	24.50	3705	3.24			
	63.39	52	22.09	3595	3.24	FH-F25		11
	70.19	47	19.95	3495	3.24	FH-FL25	71	11
	78.24	42	17.89	3385	3.24			10
	88.90	37	15.75	3260	5.06			
	107.14	31	13.07	3085	5.83			
	39.81	81	35.17	1770	1.05			
	47.69	68	29.36	1770	1.26	FH-F20		8
	56.53	57	24.76	1770	1.49	FH-FL20	71	8
	71.10	45	19.69	1770	1.87			
	93.22	36	15.02	1720	2.00			
	110.64	30	12.65	1670	2.22			

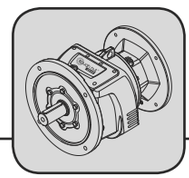


Helical Gear Units

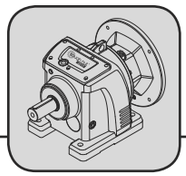
Selection Tables[kW]

1400 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
	139.40	24	10.04	1600	2.56	FH-F20		8
	188.09	18	7.44	1490	3.08	FH-FL20	71	7
	280.41	12	4.99	1350	3.93			
	345.74	10	4.05	1280	4.46			
0.55	0.30	14569	4664	62700	0.89	FMH110 FH40		406
(0.74HP)	0.35	12614	4038	62700	1.03	FMV110 FH40	80	398
	0.40	10889	3486	62700	1.19	FMW110 FH40		382
	0.49	8974	2873	62700	1.45			
	0.55	8184	2541	62700	1.59			
	0.60	7464	2318	62700	1.74			
	0.71	6347	1971	62700	2.05	FMH110 FH40		404
	0.78	5789	1798	62700	2.25	FMV110 FH40	80	395
	0.87	5208	1617	62700	2.50	FMW110 FH40		380
	0.97	4638	1440	62700	2.80			
	1.08	4161	1292	62700	3.12			
	1.18	3831	1190	62700	3.39			
	0.55	8271	2569	37500	0.85	FMH90 FH40		254
						FMV90 FH40	80	265
						FMW90 FH40		250
	0.51	8801	2733	37500	0.80			
	0.56	8092	2513	37500	0.87			
	0.60	7481	2323	37500	0.94			
	0.66	6826	2120	37500	1.03			
	0.78	5802	1802	37500	1.21	FMH90 FH40		263
	0.90	4988	1549	37500	1.40	FMV90 FH40	80	275
	1.01	4474	1389	37500	1.56	FMW90 FH40		259
	1.09	4120	1279	37500	1.70			
	1.30	3476	1080	37500	2.01			
	1.53	2955	918	37500	2.37			
	1.68	2685	834	37500	2.61			
	1.11	4046	1256	29500	1.06			
	1.21	3732	1159	29500	1.15	FMH70 FH40		173
	1.37	3287	1021	29500	1.31	FMV70 FH40	80	176
	1.64	2755	856	29500	1.56	FMW70 FH40		166
	1.74	2596	806	29500	1.66			
	2.01	2241	696	29500	1.92			
	0.92	4921	1528	29500	0.87			
	1.03	4383	1361	29500	0.98	FMH70 FH40		181
	1.15	3931	1221	29500	1.09	FMV70 FH40	80	185
	1.25	3620	1124	29500	1.19	FMW70 FH40		174
	1.48	3054	949	29500	1.41			
	1.76	2564	796	29500	1.68			
	1.73	2608	810	18100	1.15	FLH60 FH35		110
	1.91	2360	733	18100	1.27	FLV60 FH35	80	114
						FLW60 FH35		103
	1.28	3512	1091	18100	0.85			
	1.47	3066	952	18100	0.98			
	1.68	2690	835	18100	1.12			
	1.82	2474	768	18100	1.21			
	2.08	2170	674	18100	1.38	FLH60 FH35		111
	2.38	1895	588	18100	1.58	FLV60 FH35	80	118
	2.80	1609	500	18100	1.87	FLW60 FH35		107
	3.21	1404	436	18100	2.14			
	3.65	1235	384	18100	2.43			



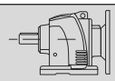
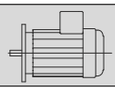
Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
0.37 (0.5HP)	4.18	1079	335	18100	2.78			
	4.77	945	293	18100	3.18			
	5.80	777	241	18100	3.86			
	2.68	1681	522	16900	0.89			
	2.84	1590	494	16900	0.94	FLH50 FH35		79
	3.18	1416	440	16900	1.06	FLV50 FH35	80	82
	3.71	1217	378	16900	1.23	FLW50 FH35		78
	4.49	1005	312	16900	1.49			
	2.93	1589	479	16900	0.94	FLH50 FH35		76
	3.39	1369	412	16900	1.10	FLV50 FH35	80	80
	3.89	1196	360	16900	1.25	FLW50 FH35		76
	5.12	908	273	8620	0.83	FLH40 FH25		40
	5.99	776	234	8620	0.97	FLV40 FH25	80	46
	7.07	657	198	8620	1.14	FLW40 FH25		42
	6.95	689	201.38	16900	2.18			
	7.79	615	179.70	16900	2.18			
	8.69	551	161.11	16900	2.18	FL-F50		63
	10.19	470	137.42	16900	2.18	FL-FL50	80	67
	11.46	418	122.17	16900	3.71			61
	12.44	385	112.52	16900	4.03			
	16.04	299	87.27	16900	5.19			
	9.10	527	153.87	8620	1.42			
	9.95	482	140.70	8620	1.56			
	11.26	426	124.34	8620	1.76			
	12.78	375	109.54	8620	2.00			
	15.59	307	89.80	8620	2.18			
	16.54	290	84.62	8620	2.18	FL-F40		34
	19.17	250	73.05	8620	3.00	FL-FL40	80	39
	24.25	198	57.73	8620	3.80			35
	26.30	182	53.24	8620	4.12			
	29.85	161	46.90	8490	4.67			
	35.62	135	39.31	7995	4.96			
	38.64	127	36.23	7855	5.16			
	43.78	109	31.97	7520	5.69			
	11.17	429	125.28	7560	1.40			
	12.46	384	112.34	7560	1.56			
	14.19	338	98.69	7560	1.78			
	15.09	318	92.80	7560	1.89			
	17.81	269	78.59	7560	2.18			
	20.32	236	68.90	7560	2.18	FL-F35*		28
	22.20	216	63.07	7560	2.18	FL-FL35*	80	25
	24.04	199	58.23	7560	2.18			23
	26.81	179	52.21	7560	2.18			
	30.52	157	45.87	7425	3.82			
	33.97	141	41.22	7110	3.55			
	36.12	133	38.75	6990	3.70			
	43.72	110	32.02	6695	5.08			
	48.66	98	28.77	6420	4.51			
	57.99	85	24.14	6145	5.95	FL-F35*		27
						FL-FL35*	80	24
								23
	15.23	315	91.91	7110	1.43			
	16.98	282	82.45	7110	1.59			
	17.58	273	79.65	7110	1.65			

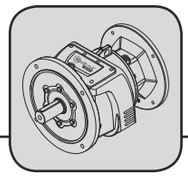


Helical Gear Units

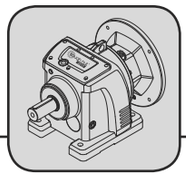
Selection Tables[kW]

1400 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
0.37	19.29	248	72.56	7110	1.81			
(0.5HP)	21.59	222	64.84	7110	2.03	FL-F35		80
	23.25	206	60.21	7040	2.18	FL-FL35	80	22
	25.89	185	54.07	6845	2.18			24
	30.32	158	46.18	6565	2.18			23
	32.96	145	42.48	6420	2.18			
	36.70	131	38.14	6230	2.18			
0.55	43.31	111	32.33	5860	3.28			
(0.74HP)	50.70	95	27.61	5610	3.65			
	55.12	87	25.40	5480	3.86			
	61.38	78	22.81	5315	4.14			
	55.39	89	25.27	5530	4.29			
	59.44	83	23.55	5420	4.49	FH-F35		21
	66.78	74	20.96	5235	4.86	FH-FL35	80	21
	74.47	66	18.80	5070	5.22			20
	90.15	55	15.53	4785	5.93			
	22.09	217	63.37	5420	1.38			
	23.79	201	58.84	5420	1.49			
	26.50	181	52.84	5420	1.66			
	31.02	154	45.13	5420	1.94	FH-F30		20
	33.73	142	41.51	5420	2.11	FH-FL30	80	19
	37.56	128	37.28	5420	2.18			18
	43.98	109	31.83	5420	2.75			
	51.49	93	27.19	5420	3.22			
	55.98	86	25.01	5420	3.51			
	62.34	77	22.46	5290	3.90			
	56.68	87	24.70	5420	3.44			
	60.82	81	23.02	5375	3.69	FH-F30		19
	68.33	72	20.49	5195	4.15	FH-FL30	80	18
	76.20	65	18.37	5030	4.63			17
	92.25	54	15.18	4750	5.60			
	34.93	137	40.08	3965	1.46	FH-F25		14
	40.08	120	34.93	3850	1.67	FH-FL25	80	13
	45.13	106	31.02	3750	1.88			12
	54.07	89	25.89	3590	2.18			
	57.14	86	24.50	3560	2.18			
	63.39	78	22.09	3470	2.18			
	70.19	70	19.95	3380	2.18			
	78.24	63	17.89	3280	2.18	FH-F25		13
	88.90	56	15.75	3170	3.40	FH-FL25	80	13
	107.14	46	13.07	3010	3.93			12
	119.32	41	11.73	2920	4.22			
	139.69	35	10.02	2790	4.68			
	164.77	30	8.50	2655	5.23			
	207.81	24	6.74	2470	5.60			
	93.22	53	15.02	1500	1.35			
	110.64	45	12.65	1490	1.50			
	139.40	35	10.04	1450	1.72	FH-F20		9
	188.09	26	7.44	1390	2.07	FH-FL20	80	8
	280.41	18	4.99	1280	2.64			
	345.74	14	4.05	1220	3.00			
0.75	0.55	11159	2541	62700	1.16			
(1HP)	0.60	10178	2318	62700	1.28			
	0.71	8655	1971	62700	1.50	FMH110 FH40		404



Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
0.75 (1HP)	0.78	7894	1798	62700	1.65	FMV110 FH40	80	395
	0.87	7101	1617	62700	1.83	FMW110 FH40		380
	0.97	6325	1440	62700	2.06			
	1.08	5673	1292	62700	2.29			
	1.18	5224	1190	62700	2.49			
	0.77	8011	1824	37500	0.87			
	0.82	7522	1713	37500	0.93	FMH90 FH40		254
	0.89	6916	1575	37500	1.01	FMV90 FH40	80	265
	1.03	5944	1354	37500	1.18	FMW90 FH40		250
	1.12	5482	1249	37500	1.28			
	0.78	7912	1802	37500	0.88			
	0.90	6802	1549	37500	1.03			
	1.01	6101	1389	37500	1.15	FMH90 FH40		263
	1.09	5618	1279	37500	1.25	FMV90 FH40	80	275
	1.30	4740	1080	37500	1.48	FMW90 FH40		259
	1.53	4029	918	37500	1.74			
	1.68	3661	834	37500	1.91			
	1.92	3196	728	37500	2.19			
	1.37	4483	1021	29500	0.96	FMH70 FH40		173
	1.64	3757	856	29500	1.14	FMV70 FH40	80	176
	1.74	3540	806	29500	1.21	FMW70 FH40		166
	1.48	4165	949	29500	1.03			
	1.76	3497	796	29500	1.23	FMH70 FH40		181
	2.35	2616	596	29500	1.64	FMV70 FH40	80	185
	2.85	2161	492	29500	1.99	FMW70 FH40		174
	3.37	1823	415	29500	2.36			
	4.02	1531	349	29500	2.81			
	2.08	2959	674	18100	1.01			
	2.38	2584	588	18100	1.16			
	2.80	2194	500	18100	1.37	FLH60 FH35		111
	3.21	1915	436	18100	1.57	FLV60 FH35	80	118
	3.65	1685	384	18100	1.78	FLW60 FH35		107
	4.18	1471	335	18100	2.04			
	4.77	1288	293	18100	2.33			
	5.80	1060	241	18100	2.83			
	3.71	1659	378	16900	0.90	FLH50 FH35		79
	4.49	1370	312	16900	1.09	FLV50 FH35	80	82
	5.32	1156	263	16900	1.30	FLW50 FH35		78
	6.05	1016	231	16900	1.48			
	3.89	1630	360	16900	0.92	FLH50 FH35	80	76
	4.55	1394	308	16900	1.08	FLV50 FH35		80
	5.32	1191	263	16900	1.26	FLW50 FH35		78
	6.95	940	201.38	16900	1.60			
	7.79	839	179.70	16900	1.60			
	8.69	752	161.11	16900	1.60			
	10.19	641	137.42	16900	1.60			
	11.46	570	122.17	16900	2.72			
	12.44	525	112.52	16900	2.95	FH-F50		63
	16.04	407	87.27	16900	3.81	FH-FL50	80	67
	19.55	334	71.60	16900	4.45			61
	21.95	298	63.77	16900	4.80			
	22.75	287	61.54	16900	4.92			
	25.54	256	54.81	16900	5.31			
	28.48	229	49.16	16900	5.71			

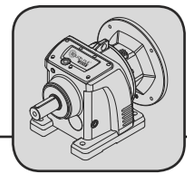


Helical Gear Units

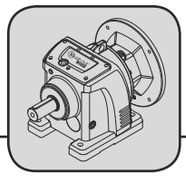
Selection Tables[kW]

1400 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
0.75 (1HP)	9.10	718	153.87	8620	1.04			
	9.95	657	140.70	8620	1.14			
	11.26	580	124.34	8620	1.29			
	12.78	511	109.54	8620	1.47			
	15.59	419	89.80	8620	1.60			
	16.54	395	84.62	8620	1.60	FH-F40		34
	19.17	341	73.05	8620	2.20	FH-FL40	80	39
	24.25	269	57.73	8620	2.78			35
	26.30	248	53.24	8605	3.02			
	29.85	219	46.90	8310	3.43			
	35.62	183	39.31	7820	3.64			
	38.64	173	36.23	7690	3.78			
	43.78	149	31.97	7375	4.17			
	55.40	118	25.27	6890	4.88			
	60.06	112	23.31	6770	5.89	FH-F40		32
						FH-FL40	80	38
								34
	11.17	585	125.28	7560	1.03			
	12.46	524	112.34	7560	1.14			
	14.19	461	98.69	7560	1.30			
	15.09	433	92.80	7560	1.39			
	17.81	367	78.59	7560	1.60			
	20.32	322	68.90	7560	1.60			
	22.20	294	63.07	7560	1.60	FH-F35*		28
	24.04	272	58.23	7560	1.60	FH-FL35*	80	25
	26.81	244	52.21	7465	1.60			23
	30.52	214	45.87	7220	2.80			
	33.97	192	41.22	6890	2.60			
	36.12	181	38.75	6785	2.71			
	43.72	149	32.02	6550	3.72			
	48.66	134	28.77	6270	3.31			
	61.14	107	22.90	5955	4.66			
	57.99	116	24.14	6035	4.36	FH-F35*		27
	65.63	103	21.33	5820	4.73	FH-FL35*	80	24
	74.49	90	18.79	5610	5.15			23
	90.87	74	15.41	5290	5.88			
	15.23	429	91.91	7110	1.05			
	16.98	385	82.45	7110	1.17			
	17.58	372	79.65	7110	1.21			
	19.29	339	72.56	7010	1.33			
	21.59	303	64.84	6845	1.49			
	23.25	281	60.21	6735	1.60	FH-F35		22
	25.89	252	54.07	6575	1.60	FH-FL35	80	24
	30.32	216	46.18	6335	1.60			23
	32.96	198	42.48	6205	1.60			
	36.70	178	38.14	6040	1.60			
	43.31	151	32.33	5665	2.41			
	50.70	129	27.61	5445	2.68			
	55.12	119	25.40	5325	2.83			
	61.38	106	22.81	5175	3.04			
	55.39	122	25.27	5400	3.14			
	59.44	113	23.55	5300	3.30	FH-F35		21
	66.78	101	20.96	5130	3.56	FH-FL35	80	21
	74.47	90	18.80	4975	3.83			20
	90.15	75	15.53	4710	4.35			
	121.43	55	11.53	4310	5.31			



Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
0.75 (1HP)	9.10	718	153.87	8620	1.04			
	9.95	657	140.70	8620	1.14			
	11.26	580	124.34	8620	1.29			
	12.78	511	109.54	8620	1.47			
	15.59	419	89.80	8620	1.60			
	16.54	395	84.62	8620	1.60	FH-F40		34
	19.17	341	73.05	8620	2.20	FH-FL40	80	39
	24.25	269	57.73	8620	2.78			35
	26.30	248	53.24	8605	3.02			
	29.85	219	46.90	8310	3.43			
	35.62	183	39.31	7820	3.64			
	38.64	173	36.23	7690	3.78			
	43.78	149	31.97	7375	4.17			
	55.40	118	25.27	6890	4.88			
	60.06	112	23.31	6770	5.89	FH-F40		32
						FH-FL40	80	38
								34
	11.17	585	125.28	7560	1.03			
	12.46	524	112.34	7560	1.14			
	14.19	461	98.69	7560	1.30			
	15.09	433	92.80	7560	1.39			
	17.81	367	78.59	7560	1.60			
	20.32	322	68.90	7560	1.60			
	22.20	294	63.07	7560	1.60	FH-F35*		28
	24.04	272	58.23	7560	1.60	FH-FL35*	80	25
	26.81	244	52.21	7465	1.60			23
	30.52	214	45.87	7220	2.80			
	33.97	192	41.22	6890	2.60			
	36.12	181	38.75	6785	2.71			
	43.72	149	32.02	6550	3.72			
	48.66	134	28.77	6270	3.31			
	61.14	107	22.90	5955	4.66			
	57.99	116	24.14	6035	4.36	FH-F35*		27
	65.63	103	21.33	5820	4.73	FH-FL35*	80	24
	74.49	90	18.79	5610	5.15			23
	90.87	74	15.41	5290	5.88			
	15.23	429	91.91	7110	1.05			
	16.98	385	82.45	7110	1.17			
	17.58	372	79.65	7110	1.21			
	19.29	339	72.56	7010	1.33			
	21.59	303	64.84	6845	1.49			
	23.25	281	60.21	6735	1.60	FH-F35		22
	25.89	252	54.07	6575	1.60	FH-FL35	80	24
	30.32	216	46.18	6335	1.60			23
	32.96	198	42.48	6205	1.60			
	36.70	178	38.14	6040	1.60			
	43.31	151	32.33	5665	2.41			
	50.70	129	27.61	5445	2.68			
	55.12	119	25.40	5325	2.83			
	61.38	106	22.81	5175	3.04			
	55.39	122	25.27	5400	3.14			
	59.44	113	23.55	5300	3.30	FH-F35		21
	66.78	101	20.96	5130	3.56	FH-FL35	80	21
	74.47	90	18.80	4975	3.83			20
	90.15	75	15.53	4710	4.35			
	121.43	55	11.53	4310	5.31			

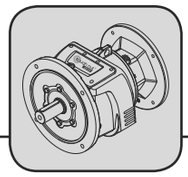


Helical Gear Units

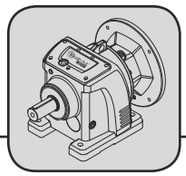
Selection Tables[kW]

1400 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
0.75	22.09	296	63.37	5420	1.01			
(1HP)	23.79	275	58.84	5420	1.09			
	26.50	247	52.84	5420	1.22			
	31.02	211	45.13	5420	1.42	FH-F30		20
	33.73	194	41.51	5420	1.55	FH-FL30	80	19
	37.56	174	37.28	5420	1.60			18
	43.98	149	31.83	5420	2.02			
	51.49	127	27.19	5415	2.36			
	55.98	117	25.01	5300	2.57			
	62.34	105	22.46	5150	2.86			
	56.68	119	24.70	5360	2.52			
	60.82	111	23.02	5255	2.71	FH-F30		19
	68.33	99	20.49	5090	3.04	FH-FL30	80	18
	~~76.20~~	~~88~~	~~18.37~~	~~4935~~	~~3.39~~			~~17~~
	92.25	73	15.18	4670	4.11			
	124.25	54	11.27	4280	5.27			
	~~34.93~~	~~187~~	~~40.08~~	~~3695~~	~~1.07~~	~~FH-F25~~		~~14~~
	40.08	163	34.93	3615	1.23	FH-FL25	8	13
	45.13	145	31.02	3540	1.38			12
	54.07	121	25.89	3415	1.60			
	57.14	118	24.50	3405	1.60			
	63.39	106	22.09	3325	1.60			
	70.19	96	19.95	3250	1.60			
	78.24	86	17.89	3165	1.60			
	88.90	76	15.75	3070	2.50			
	107.14	63	13.07	2925	2.88	FH-F25		13
	119.32	56	11.73	2845	3.09	FH-FL25	80	13
	139.69	48	10.02	2725	3.44			12
	164.77	41	8.50	2600	3.83			
	207.81	32	6.74	2425	4.10			
	243.29	28	5.75	2315	4.56			
	286.98	23	4.88	2205	5.09			
	350.00	19	4.00	2080	5.81			
	93.22	72	15.02	1260	0.99			
	110.64	61	12.65	1280	1.10			
	139.40	48	10.04	1290	1.26	FH-F20		9
	188.09	36	7.44	1270	1.52	FH-FL20	80	8
	280.41	24	4.99	1200	1.94			
	345.74	19	4.05	1160	2.20			
1.1	0.60	14928	2318.00	62700	0.87			
(1.5HP)	0.71	12694	1971.00	62700	1.02			
	0.78	11578	1798.00	62700	1.12			
	0.87	10415	1617.00	62700	1.25	FMH110 FH40		404
	0.97	9276	1440.00	62700	1.40	FMV110 FH40	90L	395
	1.08	8321	1292.00	62700	1.56	FMW110 FH40		380
	1.18	7661	1190.00	62700	1.70			
	1.39	6465	1004.00	62700	2.01			
	1.67	5403	839.00	62700	2.41			
	1.96	4609	716.00	62700	2.82			
	1.03	8718	1354.00	37500	0.80			
	1.12	8041	1249.00	37500	0.87	FMH90 FH40		254
	1.27	7084	1100.00	37500	0.99	FMV90 FH40	90L	265
	1.52	5936	922.00	37500	1.18	FMW90 FH40		250
	1.61	5594	869.00	37500	1.25			



Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
1.1 (1.5HP)	1.09	8239	1279.00	37500	0.85			
	1.30	6952	1080.00	37500	1.01			
	1.53	5910	918.00	37500	1.18	FMH90 FH40		263
	1.68	5369	834.00	37500	1.30	FMV90 FH40	90L	275
	1.92	4688	728.00	37500	1.49	FMW90 FH40		259
	2.06	4367	678.00	37500	1.60			
	2.50	3606	560.00	37500	1.94			
	2.96	3043	473.00	37500	2.30			
	2.01	4482	696.00	29500	0.96	FMH70 FH40		173
						FMV70 FH40	90L	176
						FMW70 FH40		166
	2.35	3837	596.00	29500	1.12			
	2.85	3169	492.00	29500	1.36	FMH70 FH40		181
	3.37	2674	415.00	29500	1.61	FMV70 FH40	90L	185
	4.02	2245	349.00	29500	1.92	FMW70 FH40		174
	4.66	1935	300.00	29500	2.22			
	5.52	1632	253.00	29500	2.63			
	3.10	3000	452.00	18100	1.00			
	3.68	2526	380.00	18100	1.19	FLH60 FH35		109
	4.17	2228	336.00	18100	1.35	FLV60 FH35	90L	113
	4.92	1887	284.00	18100	1.59	FLW60 FH35		102
	5.72	1625	245.00	18100	1.85			
	6.15	1510	228.00	18100	1.99			
	5.32	1696	263.00	16900	0.88	FLH50 FH35		79
	6.05	1490	231.00	16900	1.01	FLV50 FH35	90L	82
	6.99	1290	200.00	16900	1.16	FLW50 FH35		78
	5.32	1747	263.00	16900	0.86	FLH50 FH35		79
	6.12	1518	229.00	16900	0.99	FLV50 FH35	90L	80
	6.93	1341	202.00	16900	1.12	FLW50 FH35		76
	11.46	836	122.17	16900	1.85			
	12.44	770	112.52	16900	2.01			
	16.04	597	87.27	16900	2.59			
	19.55	490	71.60	16900	3.03			
	21.95	437	63.77	16900	3.27			
	22.75	421	61.54	16900	3.35	FH-F50		63
	25.54	375	54.81	16900	3.62	FH-FL50	90L	67
	28.48	337	49.16	16900	3.89			61
	30.93	310	45.27	16900	4.12			
	36.65	261	38.20	16900	4.61			
	44.12	217	31.73	16640	4.37			
	57.64	166	24.29	15325	5.23			
	69.79	137	20.06	14435	5.94			
	19.17	500	73.05	8620	1.50			
	24.25	395	57.73	8410	1.90			
	26.30	364	53.24	8250	2.06	FH-F40		34
	29.85	321	46.90	7995	2.34	FH-FL40	90L	39
	35.62	269	39.31	7515	2.48			35
	38.64	254	36.23	7405	2.58			
	43.78	219	31.97	7130	2.85			
	55.40	173	25.27	6695	3.33			
	60.06	164	23.31	6610	4.02	FH-F40		32
	77.44	128	18.08	6145	4.76	FH-FL40	90L	38
	94.38	105	14.83	5800	5.43			34
	105.97	93	13.21	5600	5.86			

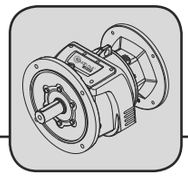


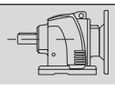
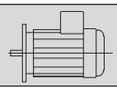
Helical Gear Units

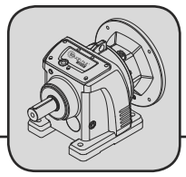
Selection Tables[kW]

1400 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
1.1 (1.5HP)	26.81	357	52.21	7050	1.09			
	30.52	314	45.87	6855	1.91			
	33.97	282	41.22	6505	1.77	FH-F35*		28
	36.12	265	38.75	6420	1.85	FH-FL35*	90L	25
	43.72	219	32.02	6300	2.54			23
	48.66	197	28.77	6000	2.25			
	61.14	157	22.90	5775	3.17			
	65.63	151	21.33	5650	3.23			
	74.49	133	18.79	5460	3.51	FH-F35*		27
	90.87	109	15.41	5165	4.01	FH-FL35*	90L	24
	111.70	88	12.53	4870	4.60			23
	141.35	70	9.90	4545	5.38			
	30.32	316	46.18	5930	1.09			
	32.96	291	42.48	5835	1.09			
	36.70	261	38.14	5705	1.09	FH-F35		22
	43.31	221	32.33	5325	1.64	FH-FL35	90L	24
	50.70	189	27.61	5150	1.82			23
	55.12	174	25.40	5060	1.93			
	61.38	156	22.81	4935	2.07			
	74.47	133	18.80	4805	2.61			
	90.15	110	15.53	4565	2.97	FH-F35		21
	121.43	81	11.53	4205	3.62	FH-FL35	90L	21
	169.82	58	8.24	3820	4.52			20
	203.08	49	6.89	3585	4.46			
	284.01	35	4.93	3250	5.58			
	43.98	218	31.83	5295	1.38			20
	51.49	186	27.19	5125	1.61	FH-F30	90L	19
	55.98	171	25.01	5030	1.75	FH-FL30		18
	62.34	154	22.46	4910	1.95			
	76.20	130	18.37	4765	2.31			
	92.25	107	15.18	4530	2.80			19
	124.25	80	11.27	4175	3.60	FH-F30		18
	173.77	57	8.06	3790	4.50	FH-FL30	90L	17
	206.25	48	6.79	3565	4.45			
	288.44	34	4.85	3230	5.56			
	88.90	111	15.75	2890	1.70			
	107.14	92	13.07	2775	1.96			
	119.32	83	11.73	2710	2.11			
	139.69	71	10.02	2610	2.34	FH-F25		13
	164.77	60	8.50	2505	2.61	FH-FL25	90L	13
	207.81	48	6.74	2340	2.80			12
	243.29	41	5.75	2245	3.11			
	286.98	34	4.88	2145	3.47			
	350.00	28	4.00	2030	3.96			
1.5 (2HP)	2.72	4525	515	62700	2.87	FMH110 FH50		382
	3.17	3884	442	62700	3.35	FMV110 FH50	90L	374
	3.47	3543	403	62700	3.67	FMW110 FH50		358
	0.78	15788	1798	62700	0.82			
	0.87	14203	1617	62700	0.92			
	0.97	12649	1440	62700	1.03			
	1.08	11347	1292	62700	1.15	FMH110 FH40		404
	1.18	10447	1190	62700	1.24	FMV110 FH40	90L	395
	1.39	8816	1004	62700	1.47	FMW110 FH40		380
	1.67	7368	839	62700	1.76			
	1.96	6284	716	62700	2.07			
	2.22	5537	630	62700	2.35			
	2.69	4563	520	62700	2.85			



Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
1.5 (2HP)	1.52	8095	922	37500	0.86	FMH90 FH40		254
	1.61	7628	869	37500	0.92	FMV90 FH40	90L	265
	1.87	6585	750	37500	1.06	FMW90 FH40		250
	2.03	6054	689	37500	1.16			
	1.53	8058	918	37500	0.87			
	1.68	7322	834	37500	0.96			
	1.92	6392	728	37500	1.10			
	2.06	5954	678	37500	1.18	FMH90 FH40		263
	2.50	4918	560	37500	1.42	FMV90 FH40	90L	275
	2.96	4150	473	37500	1.69	FMW90 FH40		259
	3.22	3815	434	37500	1.83			
	3.79	3243	369	37500	2.16			
	4.39	2798	319	37500	2.50			
	2.85	4321	492	29500	1.00	FMH70 FH40		181
						FMV70 FH40	90L	185
						FMW70 FH40		174
	3.17	3994	441	29500	1.08	FMH70 FH40		171
	3.56	3562	393	29500	1.21	FMV70 FH40	90L	174
	4.18	3034	335	29500	1.42	FMW70 FH40		163
	4.17	3038	336	18100	0.99	FLH60 FH35		109
	4.92	2574	284	18100	1.17	FLV60 FH35	90L	113
	5.72	2216	245	18100	1.35	FLW60 FH35		102
	6.15	2060	228	18100	1.46			
	11.46	1140	122.17	16900	1.36			
	12.44	1050	112.52	16900	1.48			
	16.04	815	87.27	16900	1.90			
	19.55	668	71.60	16900	2.22			
	21.95	595	63.77	16900	2.40			
	22.75	574	61.54	16900	2.46	FH-F50		63
	25.54	512	54.81	16900	2.66	FH-FL50	90L	67
	28.48	459	49.16	16900	2.86			61
	30.93	423	45.27	16900	3.02			
	36.65	357	38.20	16900	3.38			
	44.12	296	31.73	16395	3.21			
	57.64	227	24.29	15135	3.83			
	69.79	187	20.06	14280	4.35			
	61.34	220	22.83	14930	4.62	FH-F50		60
	70.59	191	19.83	14295	5.07	FH-FL50	90L	65
	79.95	169	17.51	13750	5.51			59
	19.17	682	73.05	8310	1.10			
	24.25	539	57.73	7965	1.39			
	26.30	497	53.24	7840	1.51	FH-F40		34
	29.85	438	46.90	7635	1.71	FH-FL40	90L	39
	35.62	367	39.31	7165	1.82			35
	38.64	346	36.23	7075	1.89			
	43.78	298	31.97	6845	2.09			
	55.40	236	25.27	6470	2.44			
	60.06	224	23.31	6425	2.95			
	77.44	174	18.08	6000	3.49			
	94.38	143	14.83	5680	3.98	FH-F40		32
	105.97	127	13.21	5495	4.30	FH-FL40	90L	38
	118.14	114	11.85	5330	4.62			34
	128.31	105	10.91	5200	4.89			
	152.06	89	9.21	4950	5.47			

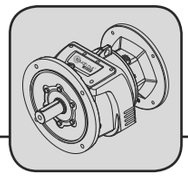


Helical Gear Units

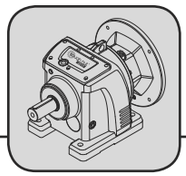
Selection Tables[kW]

1400 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
1.5 (2HP)	26.81	487	52.21	6580	0.80			
	30.52	428	45.87	6440	1.40			
	33.97	385	41.22	6065	1.30	FH-F35*		28
	36.12	362	38.75	6010	1.36	FH-FL35*	90L	25
	43.72	299	32.02	6010	1.86			23
	48.66	269	28.77	5695	1.65			
	61.14	214	22.90	5570	2.33			
	65.63	205	21.33	5450	2.37			
	74.49	181	18.79	5280	2.58			
	90.87	148	15.41	5020	2.94	FH-F35*		27
	111.70	121	12.53	4750	3.37	FH-FL35*		24
	141.35	95	9.90	4450	3.95			23
	230.90	58	6.06	3825	4.53			
	267.48	50	5.23	3660	5.00			
	338.46	40	4.14	3415	5.84			
	30.32	431	46.18	5465	0.80			
	32.96	396	42.48	5405	0.80			
	36.70	356	38.14	5325	0.80	FH-F35		22
	43.31	302	32.33	4935	1.20	FH-FL35	90L	24
	50.70	258	27.61	4820	1.34			23
	55.12	237	25.40	4755	1.41			
	61.38	213	22.81	4660	1.52			
	74.47	181	18.80	4610	1.92			
	90.15	149	15.53	4405	2.18			
	121.43	111	11.53	4090	2.65	FH-F35		21
	169.82	79	8.24	3735	3.32	FH-FL35	90L	21
	203.08	66	6.89	3500	3.27			20
	284.01	47	4.93	3185	4.09			
	345.18	39	4.06	3015	4.66			
	43.98	297	31.83	4910	1.01			20
	51.49	254	27.19	4795	1.18	FH-F30	90L	19
	55.98	233	25.01	4730	1.29	FH-FL30		18
	62.34	210	22.46	4640	1.43			
	76.20	177	18.37	4570	1.70			
	92.25	146	15.18	4370	2.05			
	124.25	108	11.27	4055	2.64	FH-F30		19
	173.77	78	8.06	3705	3.30	FH-FL30	90L	18
	206.25	65	6.79	3480	3.26			17
	288.44	47	4.85	3170	4.08			
	350.58	38	3.99	2995	4.65			
	88.90	152	15.75	2685	1.25			
	107.14	126	13.07	2610	1.44			
	119.32	113	11.73	2560	1.55			
	139.69	96	10.02	2480	1.72			13
	164.77	82	8.50	2395	1.92	FH-F25	90L	13
	207.81	65	6.74	2250	2.05	FH-FL25		12
	243.29	55	5.75	2165	2.28			
	286.98	47	4.88	2080	2.55			
	350.00	38	4.00	1975	2.91			
2.2 (3HP)	0.85	21225	1648	88200	0.85			
	0.94	19187	1490	88200	0.94			
	1.15	15658	1216	88200	1.15			



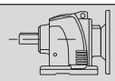
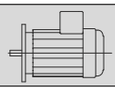
Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
2.2 (3HP)	1.36	13297	1032	88200	1.35	FMH120 FH60		609
	1.50	12020	933	88200	1.50	FMV120 FH60	100L	608
	1.70	10620	825	88200	1.69			
	1.88	9600	745	88200	1.87			
	2.12	8490	659	88200	2.12			
	2.72	6636	515	62700	1.96			
	3.17	5697	442	62700	2.28	FMH110 FH50		385
	3.47	5196	403	62700	2.50	FMV110 FH50	100L	376
	3.84	4695	365	62700	2.77	FMW110 FH50		361
	4.18	4309	335	62700	3.02			
	1.18	15323	1190	62700	0.85			
	1.39	12930	1004	62700	1.01			
	1.67	10807	839	62700	1.20	FMH110 FH40		406
	1.96	9217	716	62700	1.41	FMV110 FH40	100L	398
	2.22	8121	630	62700	1.60	FMW110 FH40		382
	2.69	6693	520	62700	1.94			
	3.26	5528	429	62700	2.35			
	2.06	8733	678	37500	0.80	FMH90 FH40		266
	2.50	7213	560	37500	0.97	FMV90 FH40	100L	277
		0				FMW90 FH40		261
	2.56	7258	547	37500	0.96			
	2.79	6673	503	37500	1.05			
	3.30	5629	424	37500	1.24	FMH90 FH40		255
	3.59	5176	390	37500	1.35	FMV90 FH40	100L	266
	4.02	4619	348	37500	1.52	FMW90 FH40		250
	4.52	4114	310	37500	1.70			
	4.92	3782	285	37500	1.85			
	4.02	4490	349	29500	0.96	FMH70 FH40		184
	4.66	3869	300	29500	1.11	FMV70 FH40	100L	187
	5.52	3265	253	29500	1.32	FMW70 FH40		177
	6.55	2751	214	29500	1.56			
	4.18	4450	335	29500	0.97	FMH70 FH40		173
						FMV70 FH40	100L	177
						FMW70 FH40		166
	6.76	2670	207	18100	1.12	FMH60 FH35		114
						FMV60 FH35	100L	121
						FMW60 FH35		110
	7.03	2725	199.06	18100	1.10			
	7.73	2479	181.06	18100	1.21			
	8.42	2277	166.33	18100	1.32			
	9.69	1979	144.53	18100	1.52			
	10.97	1747	127.61	18100	1.72			
	12.56	1525	111.42	18100	1.97			
	14.32	1338	97.76	18100	2.24			
	14.80	1295	94.59	18100	2.32			99
	16.40	1168	85.35	18100	2.57	FH-F60	100L	106
	16.95	1131	82.59	18100	2.65	FH-FL60		114
	18.02	1064	77.70	18100	2.82			
	19.32	992	72.46	18100	3.02			
	20.99	913	66.71	18100	3.29			
	22.13	866	63.27	18100	3.46			
	23.52	815	59.52	18100	3.68			
	27.40	700	51.10	18100	4.29			
	31.41	610	44.57	18100	4.67			
	37.00	518	37.84	18100	5.33			
	42.42	466	33.00	18100	5.98	FH-F60		95
						FH-FL60	100L	102
								93

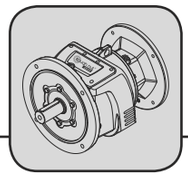


Helical Gear Units

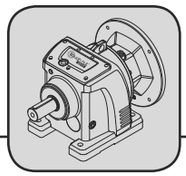
Selection Tables[kW]

1400 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
2.2 (3HP)	12.44	1540	112.52	16900	1.01			
	16.04	1195	87.27	16900	1.30			
	19.55	980	71.60	16900	1.52			
	21.95	873	63.77	16900	1.64			
	22.75	842	61.54	16900	1.68			66
	25.54	750	54.81	16900	1.81	FH-F50	100L	70
	28.48	673	49.16	16900	1.95	FH-FL50		64
	30.93	620	45.27	16900	2.06			
	36.65	523	38.20	16900	2.30			
	44.12	434	31.73	15970	2.19			
	57.64	333	24.29	14810	2.61			
	69.79	275	20.06	14010	2.97			
	61.34	322	22.83	14650	3.15			
	70.59	280	19.83	14055	3.46			
	79.95	247	17.51	13540	3.76			
	91.56	216	15.29	12995	4.12			63
	107.86	183	12.98	12365	4.59	FH-F50	100L	68
	123.53	160	11.33	11860	5.02	FH-FL50		62
	131.30	150	10.66	11635	5.23			
	152.94	129	9.15	11095	5.79			
	206.60	96	6.78	10055	5.94			
	29.85	642	46.90	7000	1.17			
	35.62	538	39.31	6560	1.24			37
	38.64	507	36.23	6500	1.29	FH-F40	100L	41
	43.78	438	31.97	6350	1.42	FH-FL40		37
	55.40	346	25.27	6080	1.66			
	60.06	329	23.31	6100	2.01			
	77.44	255	18.08	5750	2.38			
	94.38	209	14.83	5475	2.71	FH-F40		35
	105.97	186	13.21	5315	2.93	FH-FL40	100L	41
	118.14	167	11.85	5165	3.15			37
	128.31	154	10.91	5050	3.33			
	152.06	130	9.21	4820	3.73			
	242.11	82	5.78	4180	4.31			
	293.14	67	4.78	3955	4.90			
	347.40	57	4.03	3765	5.49			
	43.72	438	32.02	5500	1.27	FH-F35*		31
	48.66	394	28.77	5155	1.13	FH-FL35*	100L	29
	61.14	313	22.90	5205	1.59			27
	74.49	265	18.79	4975	1.76			
	90.87	217	15.41	4770	2.00			
	111.70	177	12.53	4545	2.30	FH-F35*		30
	141.35	140	9.90	4290	2.69	FH-FL35*	100L	28
	230.90	86	6.06	3705	3.09			26
	267.48	74	5.23	3560	3.41			
	338.46	58	4.14	3335	3.98			
	61.38	312	22.81	4180	1.04	FH-F35		25
						FH-FL35	100L	28
								26
	121.43	163	11.53	3880	1.81			
	169.82	116	8.24	3585	2.26	FH-F35		24
	203.08	97	6.89	3350	2.23	FH-FL35	100L	25
	284.01	70	4.93	3080	2.79			23
	345.18	57	4.06	2925	3.18			



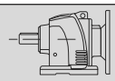
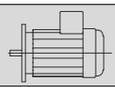
Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
2.2	124.25	159	11.27	3850	1.80			
(3HP)	173.77	114	8.06	3560	2.25	FH-F30		22
	206.25	96	6.79	3330	2.22	FH-FL30	100L	21
	288.44	68	4.85	3065	2.78			20
	350.58	56	3.99	2910	3.17			
3	1.15	21352	1216	88200	0.84			
(4HP)	1.36	18133	1032	88200	0.99			
	1.50	16391	933	88200	1.10	FMH120 FH60		609
	1.70	14482	825	88200	1.24	FMV120 FH60	100L	608
	1.88	13091	745	88200	1.37			
	2.12	11578	659	88200	1.55			
	2.54	9680	551	88200	1.86			
	2.72	9049	515	62700	1.44			
	3.17	7769	442	62700	1.67	FMH110 FH50		385
	3.47	7086	403	62700	1.83	FMV110 FH50	100L	376
	3.84	6403	365	62700	2.03	FMW110 FH50		361
	4.18	5876	335	62700	2.21			
	4.87	5045	287	62700	2.58			
	2.69	9127	520	62700	1.42	FMH110 FH40		406
	3.26	7538	429	62700	1.72	FMV110 FH40	100L	398
						FMW110 FH40		382
	2.96	8300	473	37500	0.84			
	3.22	7631	434	37500	0.92	FMH90 FH40		266
	3.79	6486	369	37500	1.08	FMV90 FH40	100L	277
	4.39	5596	319	37500	1.25	FMW90 FH40		261
	4.94	4980	284	37500	1.41			
	5.87	4186	238	37500	1.67			
	3.59	7058	390	37500	0.99	FMH90 FH40		255
						FMV90 FH40	100L	266
						FMW90 Fh40		250
	5.52	4452	253	29500	0.97	FMH70 FH40		184
	6.55	3752	214	29500	1.15	FMV70 FH40	100L	187
	7.42	3315	189	29500	1.30	FMW70 FH40		177
	5.90	4300	237	29500	1.00	FMH70 FH40		173
						FMV70 FH40	100L	177
						FMW70 FH40		166
	7.03	3716	199.06	18100	0.81			
	7.73	3380	181.06	18100	0.89			
	8.42	3105	166.33	18100	0.97			
	9.69	2698	144.53	18100	1.11			
	10.97	2382	127.61	18100	1.26			
	12.56	2080	111.42	18100	1.44			
	14.32	1825	97.76	18100	1.64			
	14.80	1766	94.59	18100	1.70			
	16.40	1593	85.35	18100	1.88			99
	16.95	1542	82.59	18100	1.95	FH-F60	100L	106
	18.02	1451	77.70	18100	2.07	FH-FL60		114
	19.32	1353	72.46	18100	2.22			
	20.99	1245	66.71	18100	2.41			
	22.13	1181	63.27	18100	2.54			
	23.52	1111	59.52	18100	2.70			
	27.40	954	51.10	18100	3.14			
	31.41	832	44.57	18100	3.42			
	37.00	706	37.84	18100	3.91			

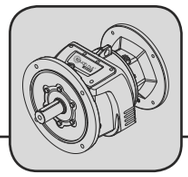


Helical Gear Units

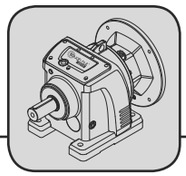
Selection Tables[kW]

1400 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
3 (4HP)	48.30	541	28.98	18100	4.67			
	55.32	472	25.31	18100	5.11			
	42.42	635	33.00	18100	4.38	FH-F60		95
	48.11	560	29.10	18100	4.86	FH-FL60	100L	102
								93
	16.04	1629	87.27	16900	0.95			
	19.55	1337	71.60	16900	1.11			
	21.95	1190	63.77	16900	1.20			
	22.75	1149	61.54	16900	1.23			
	25.54	1023	54.81	16900	1.33	FH-F50		66
	28.48	918	49.16	16900	1.43	FH-FL50	100L	70
	30.93	845	45.27	16900	1.51			64
	36.65	713	38.20	16510	1.69			
	44.12	592	31.73	15475	1.60			
	57.64	453	24.29	14435	1.92			
	69.79	374	20.06	13700	2.18			
	61.34	439	22.83	14340	2.31			
	70.59	382	19.83	13785	2.54			
	79.95	337	17.51	13300	2.76			
	91.56	294	15.29	12785	3.02			
	107.86	250	12.98	12185	3.37	FH-F50		63
	123.53	218	11.33	11700	3.68	FH-FL50	100L	68
	131.30	205	10.66	11490	3.84			62
	152.94	176	9.15	10970	4.25			
	206.60	130	6.78	9945	4.35			
	243.37	111	5.75	9455	4.86			
	296.26	91	4.73	8895	5.54			
	29.85	876	46.90	6280	0.86			
	35.62	734	39.31	5860	0.91	FH-F40		37
	38.64	691	36.23	5845	0.95	FH-FL40	100L	41
	43.78	597	31.97	5785	1.04			37
	55.40	472	25.27	5635	1.22			
	60.06	449	23.31	5730	1.47			
	77.44	348	18.08	5465	1.74			
	94.38	285	14.83	5240	1.99			
	105.97	254	13.21	5105	2.15			35
	118.14	228	11.85	4975	2.31	FH-F40	100L	41
	128.31	210	10.91	4875	2.44	FH-FL40		37
	152.06	177	9.21	4675	2.74			
	242.11	111	5.78	4075	3.16			
	293.14	92	4.78	3870	3.59			
	347.40	78	4.03	3690	4.03			
	43.72	598	32.02	4925	0.93			31
	48.66	537	28.77	4540	0.83	FH-F35*	100L	29
	61.14	427	22.90	4790	1.16	FH-FL35*		27
	74.49	362	18.79	4625	1.29			
	90.87	297	15.41	4480	1.47			
	111.70	241	12.53	4315	1.69	FH-F35*		30
	141.35	191	9.90	4105	1.97	FH-FL35*	100L	28
	230.90	117	6.06	3570	2.26			26
	267.48	101	5.23	3445	2.50			
	338.46	80	4.14	3245	2.92			
	121.43	222	11.53	3640	1.33			



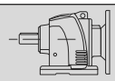
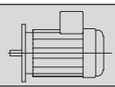
Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
3	169.82	159	8.24	3415	1.66	FH-F35		24
(4HP)	203.08	133	6.89	3180	1.64	FH-FL35	100L	25
	284.01	95	4.93	2955	2.05			23
	345.18	78	4.06	2825	2.33			
	124.25	217	11.27	3610	1.32			
	173.77	155	8.06	3390	1.65			22
	206.25	131	6.79	3160	1.63	FH-F30	100L	21
	288.44	93	4.85	2940	2.04	FH-FL30		20
	350.58	77	3.99	2810	2.32			
4	1.70	19310	825	88200	0.93			
(5.4HP)	1.88	17455	745	88200	1.03			
	2.12	15437	659	88200	1.17	FMH120 FH60		609
	2.54	12906	551	88200	1.39	FMV120 FH60	112M	608
	2.93	11196	478	88200	1.61			
	3.41	9619	411	88200	1.87			
	3.70	8863	378	88200	2.03			
	2.72	12066	515	62700	1.08			
	3.17	10358	442	62700	1.26			
	3.47	9448	403	62700	1.38			
	3.84	8537	365	62700	1.52	FMH110 FH50		385
	4.18	7835	335	62700	1.66	FMV110 FH50	112M	376
	4.87	6726	287	62700	1.93	FMW110 FH50		361
	5.72	5737	245	62700	2.27			
	6.59	4978	213	62700	2.61			
	7.67	4273	182	62700	3.04			
	8.28	3961	169	62700	3.28			
	2.69	12169	520	62700	1.07	FMH110 FH40		406
	3.26	10050	429	62700	1.29	FMV110 FH40	112M	398
						FMW110 FH40		382
	3.79	8648	369	37500	0.81	FMH90 FH40		266
	4.39	7461	319	37500	0.94	FMV90 FH40	112M	277
	4.94	6640	284	37500	1.05	FMW90 FH40		261
	5.87	5582	238	37500	1.25			
	4.02	8398	348	37500	0.83	FMH90 FH40		255
	4.52	7480	310	37500	0.94	FMV90 FH40	112M	266
	4.92	6877	285	37500	1.02	FMW90 FH40		250
	7.42	4420	189	29500	0.97	FMH70 FH40		184
						FMV70 FH40	112M	187
						FMW70 FH40		177
	7.37	4586	190	29500	0.94	FMH70 FH40		173
	8.22	4113	170	29500	1.05	FMV70 FH40	112M	177
						FMW70 FH40		166
	10.97	3176	127.61	18100	0.94			
	12.56	2773	111.42	18100	1.08			
	14.32	2433	97.76	18100	1.23			
	14.80	2354	94.59	18100	1.27			
	16.40	2124	85.35	18100	1.41			
	16.95	2056	82.59	18100	1.46			
	18.02	1934	77.70	18100	1.55			99
	19.32	1804	72.46	18100	1.66	FH-F60	112M	106
	20.99	1660	66.71	18100	1.81	FH-FL60		114
	22.13	1575	63.27	18100	1.91			
	23.52	1482	59.52	18100	2.02			
	27.40	1272	51.10	18100	2.36			

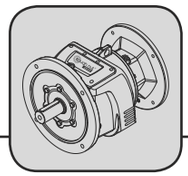


Helical Gear Units

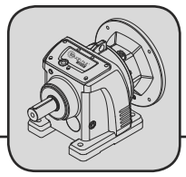
Selection Tables[kW]

1400 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
4 (5.4HP)	31.41	1109	44.57	18100	2.57			
	37.00	942	37.84	18100	2.93			
	48.30	721	28.98	18100	3.50			
	55.32	630	25.31	18100	3.83			
	42.42	847	33.00	18100	3.29			95
	48.11	747	29.10	18100	3.64	FH-F60	112M	102
	65.94	545	21.23	18100	4.71	FH-FL60		93
	82.56	435	16.96	17600	5.85			
	21.95	1587	63.77	16900	0.90			
	22.75	1532	61.54	16900	0.92			
	25.54	1364	54.81	16900	1.00			
	28.48	1224	49.16	16755	1.07	FH-F50		66
	30.93	1127	45.27	16470	1.13	FH-FL50	112M	70
	36.65	951	38.20	15875	1.27			64
	44.12	790	31.73	14865	1.20			
	57.64	605	24.29	13960	1.44			
	69.79	499	20.06	13310	1.63			
	70.59	509	19.83	13440	1.90			
	79.95	449	17.51	13000	2.07			
	91.56	392	15.29	12525	2.26	FH-F50	112M	63
	107.86	333	12.98	11960	2.52			
	123.53	291	11.33	11505	2.76			
	131.30	274	10.66	11305	2.88			
	152.94	235	9.15	10810	3.19			
	206.60	174	6.78	9810	3.27	FH-FL50		68
	243.37	148	5.75	9340	3.64		112M	62
	296.26	121	4.73	8805	4.15			
	345.10	104	4.06	8400	4.60			
	94.38	381	14.83	4945	1.49			
	105.97	339	13.21	4845	1.61			
	118.14	304	11.85	4740	1.73			35
	128.31	280	10.91	4660	1.83	FH-F40	112M	41
	152.06	236	9.21	4490	2.05	FH-FL40		37
	242.11	148	5.78	3945	2.37			
	293.14	123	4.78	3760	2.70			
	347.40	103	4.03	3595	3.02			
	111.70	322	12.53	4020	1.27			
	141.35	254	9.90	3875	1.48			30
	230.90	156	6.06	3405	1.70	FH-F35*	112M	28
	267.48	134	5.23	3300	1.87	FH-FL35*		26
	111.70	322	12.53	4020	1.27			
	141.35	254	9.90	3875	1.48			30
	230.90	156	6.06	3405	1.70	FH-F35*	112M	28
	267.48	134	5.23	3300	1.87	FH-FL35*		26
	338.46	106	4.14	3130	2.19			
	169.82	212	8.24	3205	1.24			24
	203.08	177	6.89	2965	1.23	FH-F35	112M	25
	284.01	126	4.93	2805	1.53	FH-FL35		23
	345.18	104	4.06	2695	1.75			
	173.77	207	8.06	3175	1.24			22
	206.25	174	6.79	2950	1.22	FH-F30	112M	21
	288.44	125	4.85	2790	1.53	FH-FL30		20
	350.58	102	3.99	2685	1.74			
	254.55	145	5.50	4880	1.46			



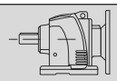
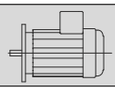
Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
4 (5.4HP)	288.66	128	4.85	4740	1.69	FX40	112M	37
	316.03	117	4.43	4600	2.47			
	371.35	100	3.77	4550	3.06			
	524.34	71	2.67	2550	1.87			
	588.24	63	2.38	2755	2.14			
	657.28	56	2.13	2805	2.32	FX30	112M	23
	714.29	52	1.96	2650	2.22			
	843.37	44	1.66	2610	2.35			
	514.71	72	2.72	805	1.24			
	595.74	62	2.35	910	1.32			
	752.69	49	1.86	1095	1.50	FX25	112M	17
	864.20	43	1.62	1085	1.54			
	1000.00	37	1.40	1140	1.65			
	880.50	42	1.59	205	1.01	FX20	112M	15
	1068.70	35	1.31	530	1.21			
5.5 (7.4HP)	12.12	3953	115.50	29500	1.09			
	13.11	3654	106.76	29500	1.18			
	13.59	3526	103.02	29500	1.22			
	16.19	2960	86.50	29500	1.45			
	17.51	2736	79.95	29500	1.57			
	20.51	2336	68.27	29500	1.84			
	22.26	2153	62.90	29500	2.00	FH-F70		167
	26.07	1838	53.71	29500	2.34	FH-FL70	132S	182
	26.41	1814	53.00	29500	2.37			182
	31.46	1523	44.50	28325	2.82			
	35.43	1352	39.52	27565	3.18			
	40.90	1172	34.23	26480	3.52			
	47.90	1000	29.23	25325	3.80			
	54.86	873	25.52	24460	4.29			
	64.24	746	21.79	23355	4.62			
	106.95	448	13.09	20035	5.81			
	57.37	861	24.40	24145	4.41	FH-F70		161
	64.32	768	21.77	23385	4.76	FH-FL70	132S	176
								176
	16.40	2921	85.35	18100	1.03			
	16.95	2827	82.59	18100	1.06			
	18.02	2659	77.70	18100	1.13			
	19.32	2480	72.46	18100	1.21			
	20.99	2283	66.71	18100	1.31	FH-F60		104
	22.13	2165	63.27	18100	1.39	FH-FL60	132S	112
	23.52	2037	59.52	18100	1.47			103
	27.40	1749	51.10	18100	1.72			
	31.41	1525	44.57	18100	1.87			
	37.00	1295	37.84	18100	2.13			
	48.30	992	28.98	18100	2.55			
	55.32	866	25.31	18100	2.79			
	65.94	749	21.23	18100	3.43	FH-F60		101
	82.56	598	16.96	17200	4.25	FH-FL60	132S	108
	103.28	478	13.56	16100	4.97			99
	164.86	300	8.49	13910	5.57			
	30.93	1549	45.27	15340	0.82			
	36.65	1307	38.20	14915	0.92	FH-F50		71
	44.12	1086	31.73	13945	0.87	FH-FL50	132S	76
	57.64	831	24.29	13260	1.05			70
	69.79	687	20.06	12730	1.19			

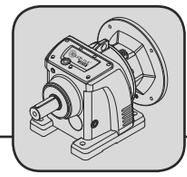


Helical Gear Units

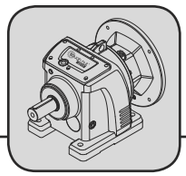
Selection Tables[kW]

1400 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
5.5 (7.4HP)	79.95	618	17.51	12545	1.50			
	91.56	539	15.29	12130	1.65			
	107.86	458	12.98	11625	1.84			
	123.53	400	11.33	11215	2.01			69
	131.30	376	10.66	11030	2.09	FH-F50	132S	73
	152.94	323	9.15	10575	2.32	FH-FL50		67
	206.60	239	6.78	9605	2.37			
	243.37	203	5.75	9170	2.65			
	296.26	167	4.73	8660	3.02			
	345.10	143	4.06	8280	3.34			
	105.97	466	13.21	4450	1.17			
	118.14	418	11.85	4390	1.26			
	128.31	385	10.91	4335	1.33			42
	152.06	325	9.21	4220	1.49	FH-F40	132S	48
	242.11	204	5.78	3745	1.73	FH-FL40		44
	293.14	169	4.78	3595	1.96			
	347.40	142	4.03	3460	2.20			
7.5 (10HP)	2.93	20992	478	88200	0.86			
	3.41	18036	411	88200	1.00	FMH120 FH60		615
	3.70	16619	378	88200	1.08	FMV120 FH60	132M	613
	4.26	14419	328	88200	1.25			
	4.87	12614	287	88200	1.43			
	4.18	14691	335	62700	0.88			
	4.87	12612	287	62700	1.03	FMH110 FH50		391
	5.72	10757	245	62700	1.21	FMV110 FH50	132M	382
	6.59	9333	213	62700	1.39	FMW110 FH50		367
	7.67	8013	182	62700	1.62			
	8.28	7428	169	62700	1.75			
	17.51	3731	79.95	29500	1.15			
	20.51	3186	68.27	29080	1.35			
	22.26	2935	62.90	28885	1.46			
	26.07	2507	53.71	27910	1.72			
	26.41	2474	53.00	28130	1.74			167
	31.46	2077	44.50	27015	2.07	FH-F70	132M	182
	35.43	1844	39.52	26430	2.33	FH-FL70		182
	40.90	1598	34.23	25475	2.58			
	47.90	1364	29.23	24440	2.79			
	54.86	1191	25.52	23710	3.14			
	64.24	1017	21.79	22700	3.39			
	106.95	611	13.09	19595	4.26			
	57.37	1174	24.40	23420	3.23			161
	64.32	1047	21.77	22735	3.49	FH-F70	132M	176
	97.38	692	14.38	20270	4.47	FH-FL70		176
	134.06	502	10.44	18535	5.69			
	22.13	2953	63.27	18100	1.02			
	23.52	2778	59.52	18100	1.08			
	27.40	2385	51.10	18100	1.26			104
	31.41	2080	44.57	18100	1.37	FH-F60	132M	112
	37.00	1766	37.84	18100	1.56	FH-FL60		103
	48.30	1353	28.98	18100	1.87			
	55.32	1181	25.31	17900	2.04			
	65.94	1021	21.23	17600	2.51			
	82.56	816	16.96	16700	3.12	FH-F60		
	103.28	652	13.56	15700	3.64	FH-FL60	132M	101



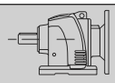
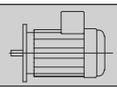
Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
7.5 (10HP)	164.86	409	8.49	13590	4.08	FH-F60		99
	206.41	326	6.78	12760	4.74	FH-FL60		
	258.20	261	5.42	11970	5.50			
	69.79	936	20.06	11955	0.87	FH-F50		71
						FH-FL50	132M	76
								70
	79.95	843	17.51	11945	1.10			
	91.56	736	15.29	11600	1.21			
	107.86	625	12.98	11180	1.35			
	123.53	545	11.33	10825	1.47			69
	131.30	513	10.66	10665	1.53	FH-F50	132M	73
	152.94	440	9.15	10260	1.70	FH-FL50		67
	206.60	326	6.78	9340	1.74			
	243.37	277	5.75	8940	1.94			
	296.26	227	4.73	8475	2.21			
	345.10	195	4.06	8120	2.45			
9.2 (12.4HP)	3.70	20386	378.00	88200	0.88	FMH120 FH60		615
	4.26	17687	328.00	88200	1.02	FMV120 FH60	132M	613
	4.87	15474	287.00	88200	1.16			
	4.87	15470	287.00	62700	0.84			
	5.72	13195	245.00	62700	0.99	FMH110 FH50		391
	6.59	11449	213.00	62700	1.14	FMV110 FH50	132M	382
	7.67	9829	182.00	62700	1.32	FMW110 FH50		367
	8.28	9111	169.00	62700	1.43			
	17.51	4577	79.95	27980	0.94			
	20.51	3908	68.27	27330	1.10			
	22.26	3601	62.90	27310	1.19			
	26.07	3075	53.71	26525	1.40			
	26.41	3034	53.00	26840	1.42			167
	31.46	2548	44.50	25900	1.69	FH-F70	132M	182
	35.43	2262	39.52	25465	1.90	FH-FL70		182
	40.90	1960	34.23	24615	2.11			
	47.90	1673	29.23	23690	2.27			
	54.86	1461	25.52	23070	2.56			
	64.24	1248	21.79	22135	2.76			
	106.95	749	13.09	19225	3.47			
	57.37	1440	24.40	22810	2.63			161
	64.32	1285	21.77	22190	2.84	FH-F70	132M	176
	97.38	848	14.38	19900	3.64	FH-FL70		176
	134.06	616	10.44	18270	4.64			
	22.13	3622	63.27	18100	0.83			
	23.52	3408	59.52	18100	0.88		132M	
	27.40	2925	51.10	18100	1.03	FH-F60		104
	31.41	2551	44.57	18100	1.12	FH-FL60		112
	37.00	2166	37.84	18100	1.27	FH-F60		103
	48.30	1659	28.98	17500	1.52	FH-FL60		
	55.32	1449	25.31	17100	1.67			
	65.94	1253	21.23	17100	2.05			
	82.56	1001	16.96	16200	2.54			
	103.28	800	13.56	15400	2.97	FH-F60		101
	140.00	590	10.00	14200	3.64	FH-FL60	132M	108
	164.86	501	8.49	13330	3.33			99
	206.41	400	6.78	12550	3.87			
	258.20	320	5.42	11800	4.49			
	350.00	236	4.00	10810	5.50			

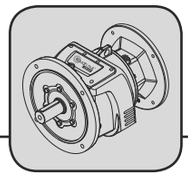


Helical Gear Units

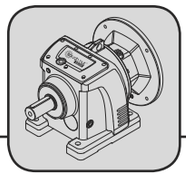
Selection Tables[kW]

1400 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
9.2	79.95	1034	17.51	11435	0.90			
(12.4HP)	91.56	902	15.29	11155	0.98			
	107.86	766	12.98	10800	1.10			
	123.53	669	11.33	10490	1.20	FH-F50		69
	131.30	629	10.66	10350	1.25	FH-FL50	132M	73
	152.94	540	9.15	9995	1.39			67
	206.60	400	6.78	9110	1.42			
	243.37	340	5.75	8745	1.58			
	296.26	279	4.73	8315	1.81			
	345.10	239	4.06	7980	2.00			
(15HP)	113.97	22738	353.00	88200	0.79			
5.14	4.81	18739	291.00	88200	0.96			
	17539	272.00	88200	1.03	FMH120	FH70		643
	6.33	14253	221.00	88200	1.26	FMV120 FH70	160M	641
	7.10	12704	197.00	88200	1.42			
	8.85	10193	158.00	88200	1.77			
	4.90	18982	286.00	88200	0.95	FMH120 FH70		602
	6.74	13788	208.00	88200	1.31	FMV120 FH70	160M	600
	8.50	10932	165.00	88200	1.65			
	4.26	21148	328.00	88200	0.85	FMH120 FH60		626
	4.87	18501	287.00	88200	0.97	FMV120 FH60	160M	624
	5.72	1610	245.00	62700	0.82	FMH110 FH50		402
	6.59	1397	213.00	62700	0.95	FMV110 FH50	160M	393
	7.67	1199	182.00	62700	1.11	FMW110 FH50		378
	8.28	1112	169.00	62700	1.19			
11	7.86	12196	178.17	88200	1.48			
(15HP)	8.26	11596	169.42	88200	1.55			
	8.84	10840	158.37	88200	1.66			
	10.03	9555	139.60	88200	1.88			
	11.52	8321	121.56	88200	2.16			
	12.74	7522	109.89	88200	2.39			
	13.77	6957	101.64	88200	2.59	FH-F120		604
	15.88	6035	88.17	88200	2.98	FH-FL120	160M	613
	17.37	5516	80.58	88200	3.26			
	20.06	4778	69.80	84600	3.77			
	23.12	4145	60.56	81100	4.34			
	25.96	3691	53.92	77900	4.88			
	28.85	3321	48.52	75500	5.42			
	11.94	8028	117.29	62700	1.62			
	12.84	7463	109.03	62700	1.74			
	14.08	6807	99.44	62700	1.91			
	15.58	6151	89.86	62700	2.11			
	16.81	5702	83.30	62700	2.28			
	19.77	4846	70.80	62700	2.68	FH-F110		399
	23.18	4133	60.38	62700	3.15	FH-FL110	160M	394
	27.73	3456	50.49	62700	3.76			394
	31.13	3079	44.98	62700	4.06			
	33.58	2854	41.70	62700	4.27			
	39.51	2426	35.44	62700	4.76			
	46.32	2069	30.23	60015	5.29			
	55.39	1730	25.27	56835	5.96			
	11.94	8030	117.25	42700	0.87			
	12.99	7380	107.80	42200	0.95			
	14.05	6820	99.66	41900	1.03			
	15.28	6270	91.63	41300	1.12			
	17.71	5410	79.05	40300	1.29			



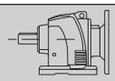
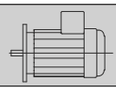
Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
11	19.90	4820	70.35	39600	1.45			
(15HP)	23.67	4050	59.14	38300	1.73			273
	25.75	3720	54.38	37600	1.88	FH-F90	160M	307
	27.93	3430	50.13	36700	2.04	FH-FL90		307
	31.47	3050	44.49	36000	2.30			
	32.37	2960	43.25	35500	2.36			
	39.56	2420	35.39	33900	2.89			
	42.67	2250	32.81	33300	3.12			
	57.76	1660	24.24	30400	3.77			
	67.71	1420	20.68	29200	4.19			
	95.92	1000	14.60	26600	5.29			
	59.70	1650	23.45	30600	1.68			
	64.94	1520	21.56	29900	1.89			262
	81.63	1210	17.15	28000	2.29	FH-F90	160M	297
	93.61	1060	14.96	27000	4.11	FH-FL90		297
	101.82	970	13.75	26300	4.38			
	26.07	3676	53.71	25065	1.17			
	26.41	3628	53.00	25465	1.19			
	31.46	3046	44.50	24720	1.41			
	35.43	2705	39.52	24445	1.59			177
	40.90	2343	34.23	23710	1.76	FH-F70	160M	192
	47.90	2001	29.23	22895	1.90	FH-FL70		192
	54.86	1747	25.52	22390	2.14			
	64.24	1492	21.79	21540	2.31			
	106.95	896	13.09	18825	2.90			
	97.38	1015	14.38	19505	3.05	FH-F70		171
	134.06	737	10.44	17995	3.88	FH-FL70	160M	186
	311.32	317	4.50	14020	5.74			186
	37.00	2590	37.84	16900	1.07	FH-F60		116
	48.30	1984	28.98	16500	1.27	FH-FL60	160M	123
	55.32	1732	25.31	16300	1.39			114
	65.94	1498	21.23	16500	1.71			
	82.56	1197	16.96	15800	2.13			
	103.28	957	13.56	15000	2.48			112
	140.00	706	10.00	13930	3.04	FH-F60	160M	119
	164.86	599	8.49	13050	2.78	FH-FL60		110
	206.41	479	6.78	12330	3.23			
	258.20	383	5.42	11620	3.75			
	350.00	282	4.00	10680	4.60			
	91.56	1079	15.29	10680	0.82			
	107.86	916	12.98	10395	0.92			
	123.53	800	11.33	10140	1.00			
	131.30	752	10.66	10020	1.05	FH-F50		81
	152.94	646	9.15	9710	1.16	FH-FL50	160M	85
	206.60	478	6.78	8865	1.19			79
	243.37	406	5.75	8540	1.32			
	296.26	333	4.73	8145	1.51			
	345.10	286	4.06	7835	1.67			
	285.71	355	4.90	7890	1.92			
	338.98	300	4.13	7610	2.65			
15	6.33	19436	331.00	88200	0.93	FMH120 Fh90	160L	643
(20HP)	7.10	17324	197.00	88200	1.04	FMV120 Fh90		641
	8.85	13899	158.00	88200	1.30			

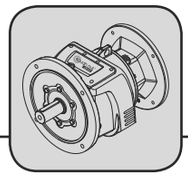


Helical Gear Units

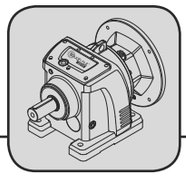
Selection Tables[kW]

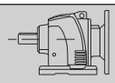
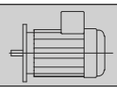
1400 Input Rpm

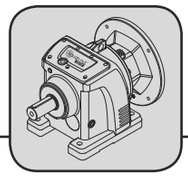
Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
15 (20HP)	5.64	22488	248.00	88200	0.80	FMH120 FH90		602
	6.74	18801	208.00	88200	0.96	FMV120 FH90	160L	600
	7.86	16630	178.17	88200	1.08			
	8.26	15813	169.42	88200	1.14			
	8.84	14782	158.37	88200	1.22			
	10.03	13030	139.60	88200	1.38			
	11.52	11347	121.56	88200	1.59			
	12.74	10257	109.89	88200	1.75			
	13.77	9487	101.64	88200	1.90	FH-F120		604
	15.88	8229	88.17	88200	2.19	FH-FL120	160L	613
	17.37	7521	80.58	86300	2.39			
	20.06	6515	69.80	82900	2.76			
	23.12	5653	60.56	79600	3.18			
	25.96	5033	53.92	76400	3.58			
	28.85	4529	48.52	74100	3.97			
	31.92	4094	43.86	72000	4.40			
	39.78	3285	35.19	67500	5.48			
	11.94	10947	117.29	62700	1.19			
	12.84	10176	109.03	62700	1.28			
	14.08	9282	99.44	62700	1.40			
	15.58	8387	89.86	62700	1.55			
	16.81	7775	83.30	62700	1.67			
	19.77	6608	70.80	62700	1.97			399
	23.18	5636	60.38	62700	2.31	FH-F110	160L	394
	27.73	4713	50.49	62700	2.76	FH-FL110		394
	31.13	4198	44.98	62700	2.98			
	33.58	3892	41.70	62700	3.13			
	39.51	3308	35.44	61735	3.49			
	46.32	2821	30.23	58980	3.88			
	55.39	2359	25.27	55980	4.37			
	70.03	1866	19.99	52200	5.11			
	89.65	1503	15.62	48370	5.85	FH-F110		386
						FH-FL110	160L	381
								381



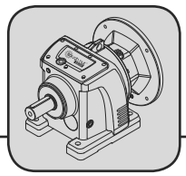
Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
15 (20HP)	19.90	6570	70.35	36400	1.07			
	23.67	5520	59.14	35600	1.27			
	25.75	5080	54.38	35100	1.38			
	27.93	4680	50.13	34300	1.50			
	31.47	4150	44.49	33900	1.69	FH-F90		273
	32.37	4040	43.25	33400	1.73	FH-FL90		307
	39.56	3300	35.39	32200	2.12			307
	42.67	3060	32.81	31700	2.29			
	57.76	2260	24.24	29100	2.76			
	67.71	1930	20.68	28100	3.07			
	95.92	1360	14.60	25800	3.88			
	59.70	2260	23.45	29500	1.23			
	64.94	2070	21.56	28800	1.38			
	81.63	1650	17.15	27100	1.68			
	93.61	1440	14.96	26300	3.01	FH-F90		262
	101.82	1320	13.75	25700	3.21	FH-FL90	160L	297
	138.34	970	10.12	23600	4.59			297
	173.91	770	8.05	22100	4.79			
	287.75	470	4.87	18900	4.84			
	346.18	390	4.04	17900	5.69			
	31.46	4154	44.50	22095	1.04			
	35.43	3688	39.52	22175	1.17			
	40.90	3195	34.23	21695	1.29	FH-F70		177
	47.90	2728	29.23	21130	1.39	FH-FL70	160L	192
	54.86	2382	25.52	20890	1.57			192
	64.24	2034	21.79	20225	1.70			
	106.95	1222	13.09	17950	2.13			
	97.38	1383	14.38	18635	2.23			171
	134.06	1005	10.44	17375	2.84	FH-F70	160L	186
	311.32	433	4.50	13710	4.21	FH-FL70		186
	349.61	385	4.00	13275	4.55			
	55.32	2362	25.31	14500	1.02	FH-F60		116
						FH-FL60	160L	123
								114
	65.94	2043	21.23	15200	1.26			
	82.56	1632	16.96	14700	1.56	FH-F60		112
	103.28	1304	13.56	14200	1.82	FH-FL60	160L	119
	140.00	962	10.00	13330	2.23			110
	164.86	817	8.49	12420	2.04			
18.5 (25HP)	10.03	16070	139.60	88200	1.12			
	11.52	13994	121.56	88200	1.29			
	12.74	12650	109.89	88200	1.42			
	13.77	11700	101.64	88200	1.54			
	15.88	10150	88.17	86500	1.77			
	17.37	9277	80.58	84500	1.94	FH-F120		611
	20.06	8035	69.80	81400	2.24	FH-FL120	180M	632
	23.12	6971	60.56	78300	2.58			
	25.96	6207	53.92	75000	2.90			
	28.85	5586	48.52	72900	3.22			
	31.92	5050	43.86	70900	3.56			
	39.78	4051	35.19	66600	4.44			
	50.25	3207	27.86	62200	5.27			
	14.08	11448	99.44	62700	1.14			
	15.58	10344	89.86	62700	1.26			



Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
18.5	16.81	9589	83.30	62700	1.36			
(25HP)	19.77	8150	70.80	62700	1.60			
	23.18	6951	60.38	62700	1.87			407
	27.73	5812	50.49	62700	2.24	FH-F110	180M	403
	31.13	5178	44.98	62700	2.41	FH-FL110		403
	33.58	4800	41.70	62700	2.54			
	39.51	4080	35.44	60680	2.83			
	46.32	3480	30.23	58075	3.15			
	55.39	2910	25.27	55220	3.55			
	70.03	2301	19.99	51600	4.15			
	89.65	1853	15.62	47890	4.74	FH-F110		395
	105.11	1581	13.32	45665	5.27	FH-FL110	180M	390
								390
	23.67	6810	59.14	33200	1.03			
	25.75	6260	54.38	32800	1.12			
	27.93	5770	50.13	32200	1.21	FH-F90		
	31.47	5120	44.49	32100	1.37	FH-FL90	180M	282
	32.37	4980	43.25	31600	1.41			316
	39.56	4070	35.39	30700	1.72			316
	42.67	3780	32.81	30300	1.85			
	57.76	2790	24.24	28000	2.24			
	67.71	2380	20.68	27100	2.49			
	95.92	1680	14.60	25100	3.14			
	93.61	1770	14.96	25700	2.44			
	101.82	1630	13.75	25100	2.60			271
	138.34	1200	10.12	23200	3.72	FH-F90	180M	306
	173.91	960	8.05	21700	3.88	FH-FL90		306
	287.75	580	4.87	18700	3.92			
	346.18	480	4.04	17700	4.62			
	40.90	3941	34.23	19930	1.05			
	47.90	3365	29.23	19585	1.13	FH-F70		187
	54.86	2938	25.52	19575	1.27	FH-FL70	180M	202
	64.24	2509	21.79	19070	1.37			202
	106.95	1507	13.09	17190	1.73			
	97.38	1706	14.38	17870	1.81			181
	134.06	1239	10.44	16830	2.31	FH-F70	180M	196
	311.32	534	4.50	13440	3.41	FH-FL70		196
	349.61	475	4.00	13030	3.69			
	82.56	2012	16.96	13800	1.26			
	103.28	1609	13.56	13500	1.48			119
	140.00	1187	10.00	12800	1.81	FH-F60	180M	128
	206.41	805	6.78	11390	1.92	FH-FL60		119
	258.20	644	5.42	10870	2.23			
	350.00	475	4.00	10130	2.73			
22	11.52	16642	121.56	88200	1.08			
(30HP)	12.74	15043	109.89	88200	1.20			
	13.77	13914	101.64	87400	1.29			
	15.88	12070	88.17	84600	1.49			
	17.37	11032	80.58	82800	1.63			
	20.06	9555	69.80	79900	1.88			
	23.12	8290	60.56	77000	2.17	FH-F120		611
	25.96	7382	53.92	73700	2.44	FH-FL120	180L	632
	28.85	6643	48.52	71700	2.71			
	31.92	6005	43.86	69800	3.00			



Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
20 (30HP)	39.78	4818	35.19	65700	3.74			
	50.25	3814	27.86	61500	4.43			
	66.06	2901	21.19	56800	5.31			
	58.86	3357	23.78	59100	5.36	FH-F120		589
						FH-FL120	180L	606
	15.58	12301	89.86	62700	1.06			
	16.81	11403	83.30	62700	1.14			
	19.77	9692	70.80	62700	1.34	FH-F110		407
	23.18	8266	60.38	62700	1.57	FH-FL110	180L	403
	27.73	6912	50.49	62700	1.88			
	31.13	6158	44.98	62700	2.03			
	33.58	5708	41.70	62135	2.14			
	39.51	4851	35.44	59625	2.38	FH-F110		
	46.32	4138	30.23	57175	2.65	FH-FL110	180L	403
	55.39	3460	25.27	54465	2.98			
	70.03	2737	19.99	51005	3.49			
	89.65	2204	15.62	47410	3.99	FH-F110		395
	105.11	1880	13.32	45250	4.43	FH-FL110	180L	390
	136.75	1445	10.24	41790	5.16			390
	27.93	6860	50.13	30100	1.02			
	31.47	6090	44.49	30300	1.15			
	32.37	5920	43.25	29800	1.18	FH-F90		282
	39.56	4840	35.39	29200	1.44	FH-FL90	180L	316
	42.67	4490	32.81	28900	1.56			316
	57.76	3320	24.24	26800	1.88			
	67.71	2830	20.68	26100	2.10			
	95.92	2000	14.60	24400	2.64			
	93.61	2110	14.96	25100	2.05			
	101.82	1940	13.75	24500	2.19	FH-F90		271
	138.34	1430	10.12	22800	3.13	FH-FL90	180L	306
	173.91	1140	8.05	21400	3.27			306
	287.75	690	4.87	18400	3.30			
	346.18	570	4.04	17500	3.88			
	54.86	3494	25.52	18255	1.07	FH-F70		187
	64.24	2983	21.79	17920	1.16	FH-FL70	180L	202
	106.95	1792	13.09	16420	1.45			202
	97.38	2029	14.38	17105	1.52	FH-F70		181
	134.06	1474	10.44	16290	1.94	FH-FL70	180L	196
	311.32	635	4.50	13165	2.87			196
	349.61	565	4.00	12790	3.10			
30 (40HP)	15.88	16459	88.17	80200	1.09			
	17.37	15043	80.58	78800	1.20			
	20.06	13030	69.80	76400	1.38			
	23.12	11305	60.56	74000	1.59			
	25.96	10066	53.92	70700	1.79	FH-F120		611
	28.85	9058	48.52	69000	1.99	FH-FL120	200L	632
	31.92	8189	43.86	67300	2.20			
	39.78	6570	35.19	63700	2.74			
	50.25	5201	27.86	60000	3.25			
	66.06	3956	21.19	55600	3.89			
	58.86	4577	23.78	57900	3.93	FH-F120		589
	70.40	3827	19.89	55000	4.55	FH-FL120	200L	606
	88.80	3034	15.77	51400	5.31			
	102.52	2628	13.66	49300	5.86			

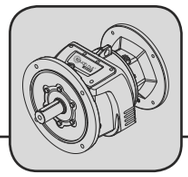


Helical Gear Units

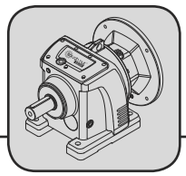
Selection Tables[kW]

1400 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
30 (40HP)	23.18	11272	60.38	62700	1.15			
	27.73	9426	50.49	61645	1.38			
	31.13	8397	44.98	60235	1.49	FH-F110		407
	33.58	7784	41.70	59285	1.57	FH-FL110	200L	403
	39.51	6616	35.44	57205	1.75			403
	46.32	5643	30.23	55105	1.94			
	55.39	4718	25.27	52740	2.19			
	70.03	3732	19.99	49645	2.56			
	89.65	3005	15.62	46315	2.92	FH-F110		395
	105.11	2563	13.32	44315	3.25	FH-FL110	200L	390
	136.75	1970	10.24	41055	3.79			390
	39.56	6610	35.39	25800	1.06			
	42.67	6130	32.81	25800	1.14	FH-F90		282
	57.76	4520	24.24	24200	1.38	FH-FL90	200L	316
	67.71	3860	20.68	23900	1.54			316
	95.92	2720	14.60	22800	1.94			
	93.61	2880	14.96	23600	1.51			
	101.82	2650	13.75	23200	1.60			271
	138.34	1950	10.12	21800	2.30	FH-F90	200L	305
	173.91	1550	8.05	20600	2.39	FH-FL90		305
	287.75	940	4.87	17900	2.42			
	346.18	780	4.04	17000	2.85			
	106.95	2444	13.09	14670	1.06	FH-F70		187
						FH-FL70	200L	202
								202
	97.38	2767	14.38	15360	1.12			181
	134.06	2010	10.44	15055	1.42	FH-F70	200L	196
	311.32	865	4.50	12550	2.11	FH-FL70		196
	349.61	771	4.00	12240	2.27			
37 (50HP)	20.06	16070	69.80	73400	1.12			
	23.12	13943	60.56	71400	1.29			
	25.96	12414	53.92	68000	1.45			
	28.85	11172	48.52	66600	1.61	FH-F120		620
	31.92	10099	43.86	65200	1.78	FH-FL120	225S	643
	39.78	8103	35.19	62000	2.22			
	50.25	6415	27.86	58600	2.63			
	66.06	4879	21.19	54600	3.16			
	58.86	5645	23.78	56800	3.19			
	70.40	4720	19.89	54100	3.69	FH-F120		598
	88.80	3742	15.77	50700	4.30	FH-FL120	225S	617
	102.52	3241	13.66	48700	4.75			
	134.78	2465	10.39	44900	5.68			
	27.73	11625	50.49	58630	1.12			
	31.13	10356	44.98	57555	1.21			
	33.58	9600	41.70	56800	1.27	FH-F110		416
	39.51	8159	35.44	55085	1.42	FH-FL110	225S	429
	46.32	6959	30.23	53300	1.57			429
	55.39	5819	25.27	51235	1.77			
	70.03	4603	19.99	48450	2.07			
	89.65	3707	15.62	45350	2.37			
	105.11	3162	13.32	43490	2.64	FH-F110		404
	136.75	2430	10.24	40410	3.07	FH-FL110	225S	416
	280.00	1187	5.00	32840	4.95			416
	336.78	987	4.16	31060	5.60			



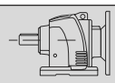
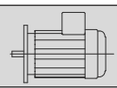
Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
37	57.76	5580	24.24	22000	1.12	FH-F90		290
(30HP)	67.71	4760	20.68	22000	1.25	FH-FL90	225S	342
	95.92	3360	14.60	21500	1.57			342
	93.61	3550	14.96	22400	1.22			
	101.82	3260	13.75	22100	1.30			279
	138.34	2400	10.12	20900	1.86	FH-F90	225S	332
	173.91	1910	8.05	19900	1.94	FH-FL90		332
	287.75	1150	4.87	17400	1.96			
	346.18	960	4.04	16700	2.31			
	134.06	2479	10.44	13970	1.15	FH-F70		188
	311.32	1067	4.50	12005	1.71	FH-FL70	225S	191
	349.61	950	4.00	11755	1.84			191
45	23.12	16958	60.56	68300	1.06			
(60HP)	25.96	15099	53.92	65000	1.19			
	28.85	13588	48.52	63900	1.32	FH-F120		620
	31.92	12283	43.86	62700	1.47	FH-FL120	225M	643
	39.78	9855	35.19	60000	1.83			
	50.25	7802	27.86	57000	2.17			
	66.06	5934	21.19	53400	2.60			
	58.86	6866	23.78	55600	2.62			
	70.40	5740	19.89	53100	3.03	FH-F120		598
	88.80	4551	15.77	49900	3.54	FH-FL120	225M	617
	102.52	3942	13.66	48000	3.91			
	134.78	2999	10.39	44400	4.67			
	31.13	12595	44.98	54480	0.99			
	33.58	11675	41.70	53950	1.04			416
	39.51	9923	35.44	52660	1.16	FH-F110	225M	429
	46.32	8464	30.23	51240	1.29	FH-FL110		429
	55.39	7077	25.27	49505	1.46			
	70.03	5598	19.99	47085	1.70			
	89.65	4508	15.62	44245	1.95			
	105.11	3845	13.32	42555	2.17	FH-F110		404
	136.75	2955	10.24	39675	2.52	FH-FL110	225M	416
	280.00	1443	5.00	32485	4.07			416
	336.78	1200	4.16	30760	4.61			
	67.71	5790	20.68	19800	1.02	FH-F90		290
	95.92	4090	14.60	19900	1.29	FH-FL90	225M	342
								342
	93.61	4320	14.96	21000	1.00			
	101.82	3970	13.75	20700	1.07			279
	138.34	2920	10.12	20000	1.53	FH-F90	225M	332
	173.91	2320	8.05	19100	1.60	FH-FL90		332
	287.75	1400	4.87	16900	1.61			
	346.18	1170	4.04	16200	1.90			
	311.32	1298	4.50	11385	1.40	FH-F70		188
	349.61	1156	4.00	11205	1.52	FH-FL70	225M	191
								191
55	28.85	16607	48.52	60400	1.08			
(75HP)	31.92	15012	43.86	59600	1.20	FH-F120		639
	39.78	12045	35.19	57600	1.49	FH-FL120	250M	662
	50.25	9535	27.86	55100	1.77			
	66.06	7253	21.19	51900	2.12			
	58.86	8392	23.78	54100	2.14			
	70.40	7016	19.89	51800	2.48			

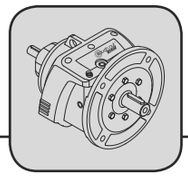


Helical Gear Units

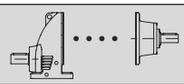
Selection Tables[kW]

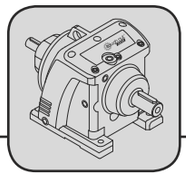
1400 Input Rpm

Pm [kW]	na [1/min]	Ma [Nm]	I	FRa [N]	fs			m [kg]
55 (75HP)	88.80	5563	15.77	48900	2.89	FH-F120		617
	102.52	4818	13.66	47100	3.20	FH-FL120	250M	637
	134.78	3665	10.39	43700	3.82			
	274.68	1798	5.10	35300	5.34			
	355.97	1388	3.93	32700	5.48			
	46.32	10345	30.23	48665	1.06	FH-F110		434
	55.39	8650	25.27	47345	1.19	FH-FL110	250M	444
	70.03	6842	19.99	45370	1.39			444
	89.65	5510	15.62	42875	1.59			
	105.11	4700	13.32	41385	1.77	FH-F110		421
	136.75	3612	10.24	38750	2.07	FH-FL110	250M	431
	280.00	1764	5.00	32030	3.33			431
	336.78	1467	4.16	30390	3.77			
	95.92	5000	14.60	17900	1.06			
	138.34	3570	10.12	18800	1.25	FH-F90		297
	173.91	2840	8.05	18100	1.31	FH-FL90	250M	297
	287.75	1720	4.87	16200	1.32			297
	346.18	1430	4.04	15600	1.55			
75 (100HP)	39.78	16425	35.19	52600	1.10	FH-F120		650
	50.25	13003	27.86	51100	1.30	FH-FL120	280S	674
	66.06	9890	21.19	48900	1.56			
	58.86	11443	23.78	51000	1.57			
	70.40	9567	19.89	49300	1.82			
	88.80	7586	15.77	46900	2.12	FH-F120		629
	102.52	6570	13.66	45300	2.34	FH-FL120	280S	649
	134.78	4998	10.39	42400	2.80			
	274.68	2452	5.10	34600	3.91			
	355.97	1892	3.93	32100	4.02			
	70.03	9330	19.99	41965	1.02	FH-F110		449
						FH-FL110	280S	299
								299
	105.11	6409	13.32	39035	1.30			436
	136.75	4926	10.24	36915	1.51	FH-F110	280S	285
	280.00	2406	5.00	31135	2.44	FH-FL110		285
	336.78	2000	4.16	29645	2.76			
90 (125HP)	50.25	15603	27.86	48200	1.08	FH-F120		650
	66.06	11868	21.19	46700	1.30	FH-FL120	280M	671
	58.86	13732	23.78	48700	1.31			
	70.40	11481	19.89	47400	1.52			
	88.80	9103	15.77	45400	1.77	FH-F120		629
	102.52	7885	13.66	44000	1.95	FH-FL120	280M	649
	134.78	5997	10.39	41400	2.33			
	274.68	2943	5.10	34000	3.26			
	355.97	2271	3.93	31700	3.35			
	105.11	7690	13.32	37280	1.08			436
	136.75	5911	10.24	35535	1.26	FH-F110	280M	285
	280.00	2887	5.00	30460	2.04	FH-FL110		285
	336.78	2400	4.16	29085	2.30			
110 (150HP)	66.06	14506	21.19	43700	1.06	FH-F120		672
						FH-FL120	315S	687
	70.40	14032	19.89	44800	1.24			
	88.80	11125	15.77	43300	1.45			
	102.52	9637	13.66	42300	1.60	FH-F120		650
	134.78	7330	10.39	40100	1.91	FH-FL120	315S	662
	274.68	3597	5.10	33300	2.67			
	355.97	2775	3.93	31100	2.74			



FR..D

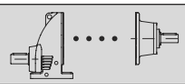
I	na [1/min]	Mamax [Nm]	Pe [kW]	FRa [N]	FRe [N]			m [kg]
FH20								85Nm
79.85	18	85	0.17	1770	690			
68.70	20	85	0.20	1770	680			
59.23	24	85	0.23	1770	670			
49.90	28	85	0.27	1770	650			
45.45	31	85	0.30	1770	660	FH-F20		8
39.61	35	85	0.34	1770	650	FH-FL20	Ø16	8
35.17	40	85	0.39	1770	630			
29.36	48	85	0.47	1630	610			
24.76	57	85	0.55	1480	580			
19.69	71	85	0.69	1290	530			
15.02	93	71	0.74	1270	280			
12.65	111	67	0.82	1210	280			
10.04	139	61	0.95	1130	310	FH-F20		8
7.44	188	54	1.1	1030	300	FH-FL20	Ø16	8
4.99	280	47	1.5	920	290			
4.05	346	43	1.7	860	300			
FH25								200Nm
138.36	10	200	0.23	4950	600			
119.28	12	200	0.27	4950	600			
100.51	14	200	0.32	4950	580			
91.53	15	200	0.35	4950	580			
79.77	18	200	0.40	4920	570	FH-F25		10
76.66	18	200	0.42	4840	480	FH-FL25	Ø16	11
69.81	20	200	0.46	4660	490			11
60.84	23	200	0.53	4410	480			
54.03	26	200	0.59	4200	470			
52.24	27	200	0.62	4060	370			
44.01	32	200	0.73	3770	350			
40.08	35	200	0.80	3630	630			11
34.93	40	200	0.92	3410	630	FH-F25	Ø19	12
31.02	45	200	1.0	3240	610	FH-FL25		11
25.89	54	193	1.2	2990	590			
24.50	57	189	1.2	3010	450			
22.09	63	170	1.2	2890	470			
19.95	70	154	1.2	2780	440			
17.89	78	138	1.2	2650	460			
15.75	89	189	1.9	2500	400			
13.07	107	181	2.2	2330	390	FH-F25		10
11.73	119	175	2.3	2250	400	FH-FL25	Ø19	11
10.02	140	166	2.6	2130	420			11
8.50	165	157	2.9	2020	360			
6.74	208	133	3.1	1880	320			
5.75	243	126	3.4	1780	290			
4.88	287	119	3.8	1690	220			
4.00	350	112	4.4	1580	180			

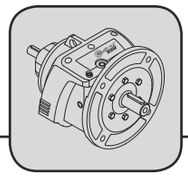


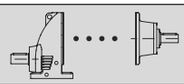
Helical Gear Units

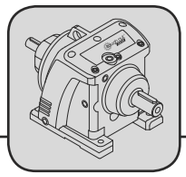
Selection Tables[kW]

1400 Input Rpm

I	na [1/min]	Mamax [Nm]	Pe [kW]	FRa [N]	FRe [N]			m [kg]
FH30								300Nm
178.83	8	300	0.27	5420	700			
160.40	9	300	0.30	5420	690			
138.19	10	300	0.35	5420	690			
126.22	11	300	0.38	5420	690			17
110.34	13	300	0.44	5420	670	FH-F30	Ø16	17
99.46	14	300	0.48	5420	680	FH-FL30		17
89.82	16	300	0.54	5420	660			
80.58	17	300	0.60	5420	670			
77.84	18	300	0.62	5420	580			
70.91	20	300	0.68	5420	640			
63.37	22	300	0.76	5420	790			
58.84	24	300	0.82	5420	810			
52.84	27	300	0.91	5420	810			
45.13	31	300	1.1	5420	810			17
41.51	34	300	1.2	5420	770	FH-F30	Ø19	18
37.28	38	278	1.2	5420	760	FH-FL30		17
31.83	44	300	1.5	4895	740			
27.19	51	300	1.8	4570	740			
25.01	56	300	1.9	4400	660			
22.46	62	300	2.2	4195	660			
24.70	57	300	1.9	4615	590			
23.02	61	300	2.0	4480	560			17
20.49	68	300	2.3	4260	570	FH-F30	Ø19	17
18.37	76	300	2.6	4065	540	FH-FL30		16
15.18	92	300	3.1	3740	510			
11.27	124	286	4.0	3325	480			
8.06	174	256	5.0	2975	420			19
6.79	206	213	4.9	2760	310	FH-F30	Ø24	19
4.85	288	190	6.1	2465	280	FH-FL30		18
3.99	351	179	7.0	2310	320			
FH35								450Nm
182.99	8	450	0.40	7110	610			
164.13	9	450	0.44	7110	600			
141.40	10	450	0.51	7110	600			
129.16	11	450	0.56	7110	600			19
112.90	12	450	0.64	7110	570	FH-F35	Ø16	21
101.77	14	450	0.71	7110	580	FH-FL35		19
91.91	15	450	0.79	7110	560			
82.45	17	450	0.88	6920	570			
79.65	18	450	0.91	6830	460			
72.56	19	450	1.0	6560	530			
64.84	22	450	1.1	6250	720			
60.21	23	450	1.2	6060	760			
54.07	26	404	1.2	5780	760			
46.18	30	345	1.2	5390	760			19
42.48	33	317	1.2	5190	690	FH-F35	Ø19	22
38.14	37	285	1.2	4990	700	FH-FL35		20
32.33	43	363	1.8	4640	700			
27.61	51	345	2.0	4400	710			
25.40	55	335	2.1	4280	640			
22.81	61	324	2.3	4130	640			



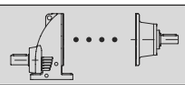
i	na [1/min]	Mamax [Nm]	Pe [kW]	FRa [N]	FRe [N]			m [kg]
FH35								450Nm
25.27	55	382	2.4	4350	500			
23.55	59	373	2.5	4250	480			19
20.96	67	359	2.7	4090	510	FH-F35	Ø19	21
18.80	74	346	2.9	3940	490	FH-FL35		19
15.53	90	325	3.3	3700	490			
11.53	121	294	4.0	3350	480			
8.24	170	263	5.0	3000	410			21
6.89	203	217	4.9	2770	310	FH-F35	Ø24	23
4.93	284	194	6.1	2480	280	FH-FL35		21
4.06	345	182	7.0	2320	320			
FH35*								600Nm
199.88	7	600	0.48	7560	800			
169.10	8	600	0.57	7560	850			
151.03	9	600	0.64	7560	910			
140.75	10	600	0.69	7560	930			
125.28	11	600	0.77	7560	980			
112.34	12	600	0.86	7560	970			
98.69	14	600	0.98	7560	990			
92.80	15	600	1.0	7560	1020			26
78.59	18	600	1.2	7390	580	FH-F35*	Ø19	28
68.90	20	514	1.2	6980	1030	FH-FL35*		25
63.07	22	471	1.2	6320	570			
58.23	24	435	1.2	6480	680			
52.21	27	390	1.2	6170	660			
45.87	31	600	2.1	5820	670			
41.22	34	501	2.0	5570	770			
38.75	36	490	2.0	5455	800			
32.02	44	556	2.8	5075	750			
28.77	49	444	2.5	4940	870			
22.90	61	498	3.5	4540	750	FH-F35*		28
						FH-FL35*	Ø24	29
								27
24.14	58	506	3.3	4620	410			25
21.33	66	486	3.6	4430	420	FH-F35*	Ø19	26
18.79	74	466	3.9	4250	450	FH-FL35*		24
15.41	91	436	4.4	3975	490			
12.53	112	407	5.1	3710	500			
9.90	141	376	5.9	3430	520	FH-F35*		26
6.06	231	264	6.8	2940	290	FH-FL35*	Ø24	28
5.23	267	252	7.5	2800	310			25
4.14	338	233	8.8	2590	340			

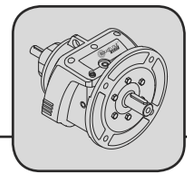


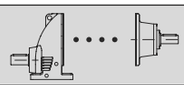
Helical Gear Units

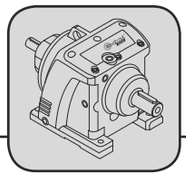
Selection Tables[kW]

1400 Input Rpm

I	na [1/min]	Mamax [Nm]	Pe [kW]	FRa [N]	FRe [N]			m [kg]
FH40								750Nm
194.80	7	750	0.62	8620	690			
170.05	8	750	0.71	8620	750			
153.87	9	750	0.78	8620	770			
140.70	10	750	0.86	8620	830			
124.34	11	750	0.97	8620	840			
109.54	13	750	1.1	8620	870			34
89.80	16	671	1.2	8620	900	FH-F40	Ø19	40
84.62	17	632	1.2	8620	920	FH-FL40		36
73.05	19	750	1.7	8100	920			
57.73	24	750	2.1	7320	910			
53.24	26	750	2.3	7060	460			
46.90	30	750	2.6	6670	470			
39.31	36	667	2.7	6100	560			
37.04	38	654	2.8	5980	570			
31.97	44	623	3.1	5700	600			34
25.27	55	576	3.7	5270	650		Ø24	40
								36
23.31	60	661	4.4	5080	230			32
18.08	77	607	5.2	4670	330		Ø19	38
								34
14.83	94	568	6.0	4370	320			32
							Ø24	38
								34
13.21	106	547	6.5	4200	1570			
11.85	118	527	6.9	4050	1590			
10.91	128	513	7.3	3940	1580			37
9.21	152	485	8.2	3730	1590		Ø38	43
5.78	242	352	9.5	3220	1420			39
4.78	293	330	10.8	3020	1420			
4.03	347	312	12.1	2860	1430			



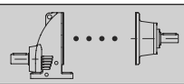
I	na [1/min]	Mamax [Nm]	Pe [kW]	FRa [N]	FRe [N]			m [kg]
FH50								1550Nm
201.38	7	1504	1.2	16900	590			
179.70	8	1342	1.2	16900	570			
161.11	9	1203	1.2	16900	570			62
137.42	10	1026	1.2	16900	560	FH-F50	Ø19	65
122.17	11	1550	2.0	16900	510	FH-FL50		61
112.52	12	1550	2.2	16900	500			
87.27	16	1550	2.9	16900	500			
71.60	20	1486	3.3	16900	450			
63.77	22	1429	3.6	16900	450			63
61.54	23	1413	3.7	16900	370		Ø28	67
54.81	26	1359	4.0	16900	400			63
49.16	28	1311	4.3	16500	410			
45.27	31	1275	4.5	16100	1590			
38.20	37	1205	5.1	15200	1580			67
31.73	44	950	4.8	14400	1440		Ø38	71
24.29	58	869	5.8	13100	1400			67
20.06	70	815	6.5	12300	1380			
22.83	61	1015	6.9	12800	1080			65
19.83	71	968	7.6	12200	1080		Ø38	69
17.51	80	929	8.3	11700	1100			65
15.29	92	888	9.1	11200	3380			
12.98	108	841	10.1	10600	3440			
11.33	124	804	11.1	10100	3380			
10.66	131	787	11.5	9930	3410			73
9.15	153	748	12.7	9440	3390		Ø42	77
6.78	207	568	13.1	8590	2620			73
5.75	243	538	14.6	8130	2650			
4.73	296	504	16.6	7610	2630			
4.06	345	479	18.4	7240	2600			

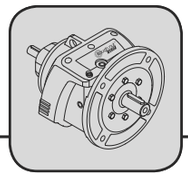


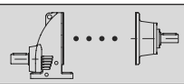
Helical Gear Units

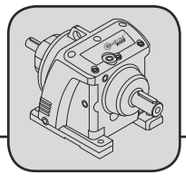
Selection Tables[kW]

1400 Input Rpm

i	na [1/min]	Mamax [Nm]	Pe [kW]	FRa [N]	FRe [N]			m [kg]
FH60								3000Nm
199.06	7	3000	2.4	18100	620			
181.06	8	3000	2.7	18100	620			
166.33	8	3000	2.9	18100	550			101
144.53	10	3000	3.3	18100	530	FH-F60	Ø28	108
127.61	11	3000	3.8	18100	520	FH-FL60		97
111.42	13	3000	4.3	18100	510			
97.76	14	3000	4.9	18100	390			
94.59	15	3000	5.1	18100	500			
85.35	16	3000	5.7	18100	1590			
82.59	17	3000	5.8	18100	1650			
77.70	18	3000	6.2	18100	1660			
72.46	19	3000	6.7	18100	1580			104
66.71	21	3000	7.2	18100	1620		Ø38	111
63.27	22	3000	7.6	18100	1530			100
59.52	24	3000	8.1	18100	1530			
51.10	27	3000	9.4	18100	1490			
44.57	31	2849	10.3	17500	1200			
37.84	37	2759	11.7	16400	3580			113
28.98	48	2525	14.0	15000	3210		Ø42	120
25.31	55	2413	15.3	14300	3150			109
33.00	42	2784	13.2	16700	2500			110
29.10	48	2720	14.6	15800	2500		Ø42	114
21.23	66	2568	18.9	14000	2480			103
16.96	83	2545	23	12600	3330			
13.56	103	2376	27	11700	3310			
10.00	140	2147	33	10500	3280			117
8.49	165	1668	31	9980	2760		Ø48	121
6.78	206	1547	36	9260	2750			110
5.42	258	1436	41	8590	2740			
4.00	350	1298	51	7760	2690			
FH70								4300Nm
115.50	12	4300	6.0	29500	1590			
106.76	13	4300	6.5	29500	1560			160
103.02	14	4300	6.7	29500	1440	FH-F70	Ø38	163
86.50	16	4300	8.0	29500	1320	FH-FL70		152
79.95	18	4300	8.6	28600	1260			
68.27	21	4300	10.1	26400	1120			
62.90	22	4300	11.0	25700	4040			168
53.71	26	4300	12.9	23600	3790		Ø42	171
53.00	26	4300	13.0	23900	3760			161
44.50	31	4300	15.5	21800	4900			
39.52	35	4300	17.5	20800	4630			
34.23	41	4128	19.4	19500	5330			174
29.23	48	3803	21	18500	5190		Ø48	177
25.52	55	3743	24	17700	4960			167
21.79	64	3449	25	16800	4800			
13.09	107	2601	32	14200	4230			
24.40	57	3793	24	17400	3200			
21.77	64	3652	26	16700	2840			164
14.38	97	3092	34	14600	3110		Ø48	167
10.44	134	2859	43	13100	3590			156
4.50	311	1822	63	9980	2930			
4.00	350	1753	68	9600	2610			



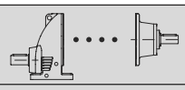
I	na [1/min]	Mamax [Nm]	Pe [kW]	FRa [N]	FRe [N]			m [kg]
FH90								7000Nm
117.25	12	7000	9.6	37500	3750			
107.80	13	7000	10.4	37500	3590			254
99.66	14	7000	11.3	37500	3440	FH-F90	Ø42	266
91.63	15	7000	12.3	37500	3260	FH-FL90		250
79.05	18	7000	14.2	37400	2900			
70.35	20	7000	16.0	35600	2650			
59.14	24	7000	19.0	32900	4340			
54.38	26	7000	21	31500	4110			260
50.13	28	7000	22	29800	3860		Ø48	271
44.49	31	7000	25	28600	3460			255
43.25	32	7000	26	27700	3370			
35.39	40	7000	32	25000	3130			
32.81	43	7000	34	24100	6240			272
24.24	58	6254	41	20500	5960		Ø55	284
20.68	68	5932	46	19500	6110			268
14.60	96	5282	58	17300	5720			
23.45	60	2786	18.5	28500	2520			243
21.56	65	2868	21	27400	2410		Ø42	255
17.15	82	2771	25	24900	2180			239
14.96	94	4335	45	21000	5820			
13.75	102	4247	48	20200	5700			261
10.12	138	4472	69	17100	5380		Ø55	272
8.05	174	3710	72	16400	5280			257
4.87	288	2266	73	15000	5260			
4.04	346	2216	85	13900	5130			
FH110								13000Nm
117.29	12	13000	17.8	62700	2800	FH-F110		398
109.03	13	13000	19.2	62700	2740	FH-FL110	Ø42	390
								374
99.44	14	13000	21	62700	4170			
89.86	16	13000	23	62700	4100			402
83.30	17	13000	25	62700	4020		Ø48	394
70.80	20	13000	30	62700	3880			378
60.38	23	13000	35	61300	3770			
50.49	28	12994	41	56800	6560			
44.98	31	12501	45	54600	5940			416
41.70	34	12189	47	53200	5930		Ø55	407
35.44	40	11546	52	50400	5950			392
30.23	46	10950	58	47800	5970			
25.27	55	10316	66	45100	8450			439
19.99	70	9541	77	41700	8450		Ø70	431
								415
15.62	90	8787	88	38400	7440			
13.32	105	8333	98	36400	7480			439
10.24	137	7462	114	33400	7070		Ø70	431
5.00	280	5877	183	26300	6910			415
4.16	337	5526	207	24700	6810			

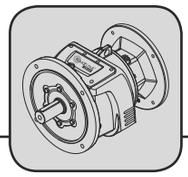


Helical Gear Units

Selection Tables[kW]

1400 Input Rpm

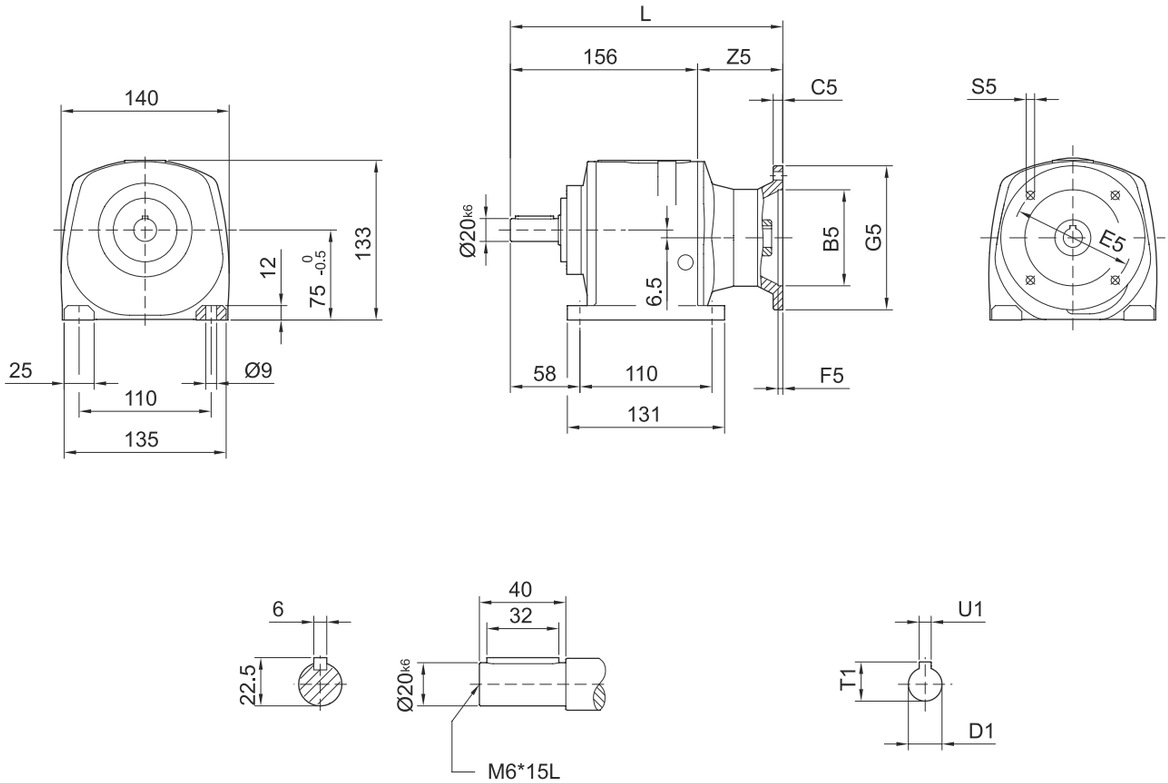
I	na [1/min]	Mamax [Nm]	Pe [kW]	FRa [N]	FRe [N]			m [kg]
FH120								18000Nm
178.17	8	18000	16.2	88200	2870			
169.42	8	18000	17.1	88200	2890	FH-F120		579
158.37	9	18000	18.3	88200	2860	FH-FL120	Ø42	578
139.60	10	18000	21	88200	2790			
121.56	12	18000	24	88200	4110			
109.89	13	18000	26	86000	4140			
101.64	14	18000	28	83400	4030			588
88.17	16	18000	33	78700	3940		Ø48	586
80.58	17	18000	36	75800	3850			
69.80	20	18000	41	71400	3730			
60.56	23	18000	48	67300	6570			
53.92	26	18000	54	61700	5860			598
48.52	29	18000	60	58900	5420		Ø55	596
43.86	32	18000	66	56200	5460			
35.19	40	18000	82	50800	7860			617
27.86	50	16900	97	46800	7850		Ø70	615
21.19	66	15400	117	42700	7820			
23.78	59	18000	118	44500	3300			639
							Ø55	637
19.89	70	17400	136	41400	6100			
15.77	89	16100	159	38400	6150			
13.66	103	15400	176	36600	6190			658
10.39	135	14000	210	33400	6140		Ø70	656
5.10	275	9600	294	26500	4640			
3.93	356	7600	301	25700	5340			



4.1 Dimension Sheets

FH..

MFO 20



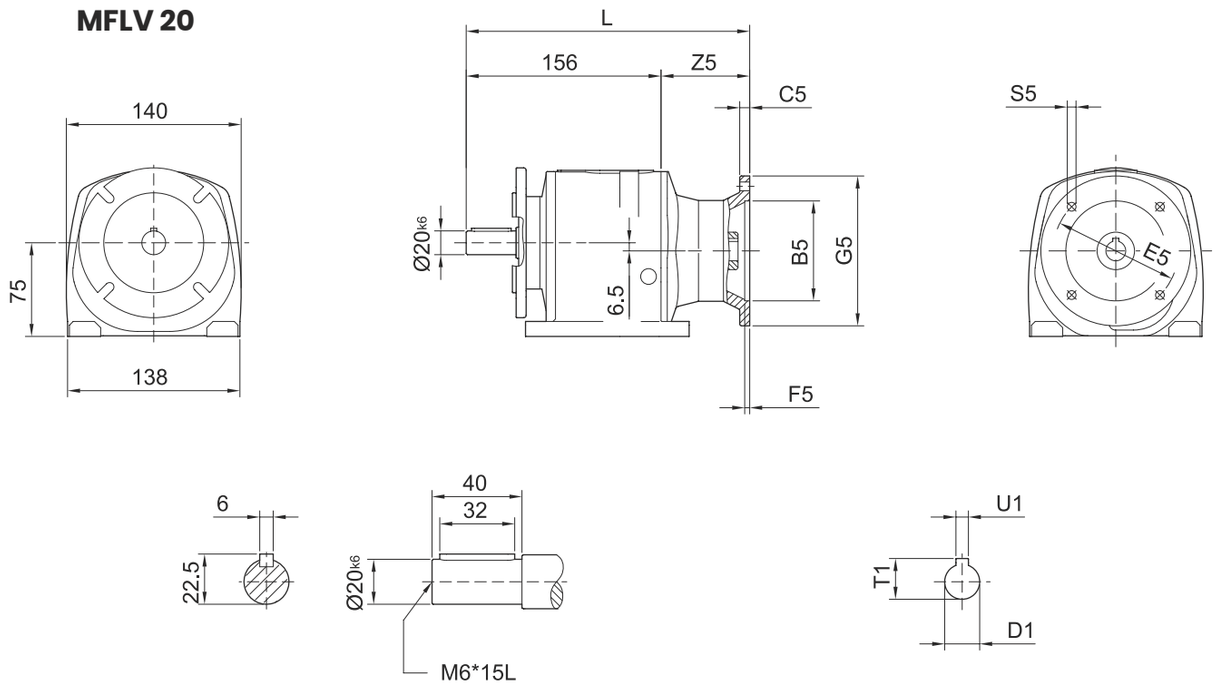
4

For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 56	50	8	65	3	80	212.5	6	56.5	9	10.4	3
IEC 63	60	8	75	3.5	90	212.5	6	56.5	11	12.8	4
IEC 71	70	8	85	3.5	105	212.5	7	56.5	14	16.3	5
IEC 80	80	8	100	4	120	227	7	71	19	21.8	6

FH

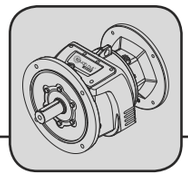
MFLV 20



4

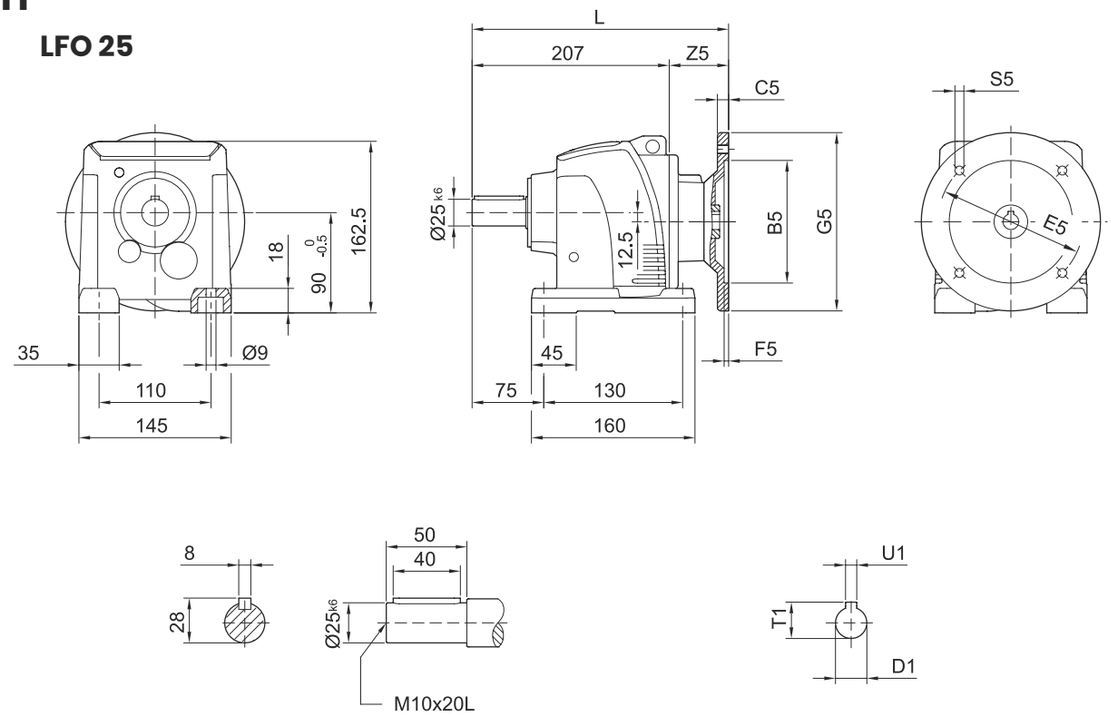
For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 56	50	8	65	3	80	212.5	6	56.5	9	10.4	3
IEC 63	60	8	75	3.5	90	212.5	6	56.5	11	12.8	4
IEC 71	70	8	85	3.5	105	212.5	7	56.5	14	16.3	5
IEC 80	80	8	100	4	120	227	7	71	19	21.8	6



FH

LFO 25

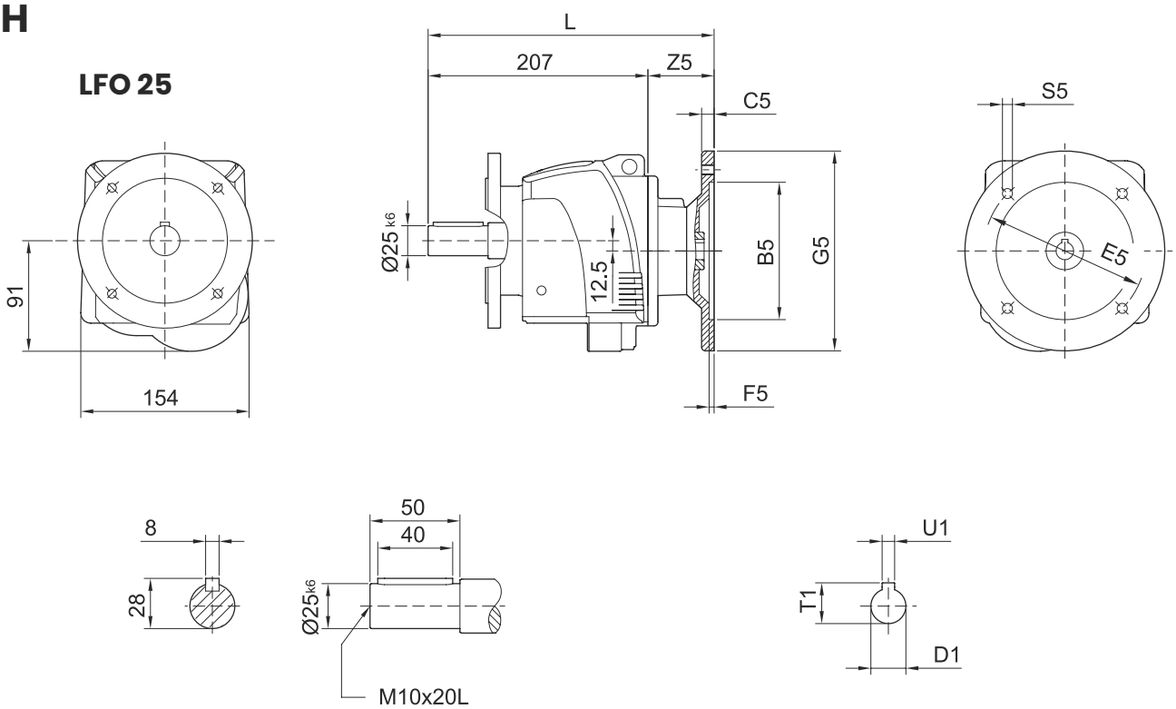


For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

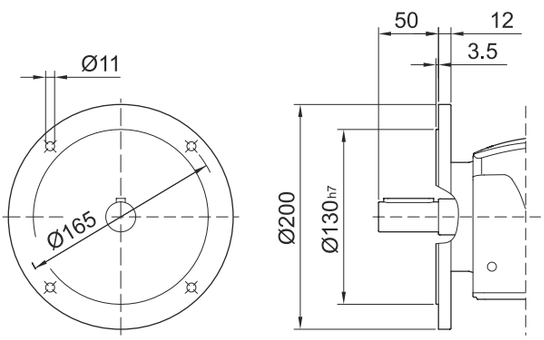
FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 63*	95	10	115	4	140	260	M8	53	11	12.8	4
IEC 71	110	10	130	4	160	260	M8	53	14	16.3	5
IEC 80	130	12	165	5	200	278	M10	71	19	21.8	6
IEC 90	130	12	165	5	200	278	M10	71	24	27.3	8

FH

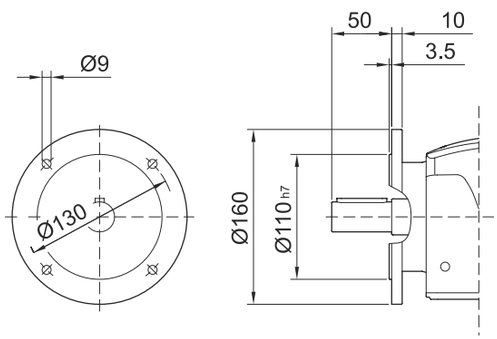
LFO 25



LFLV 25



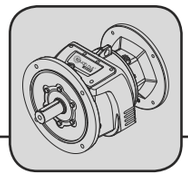
LFLW 25



4

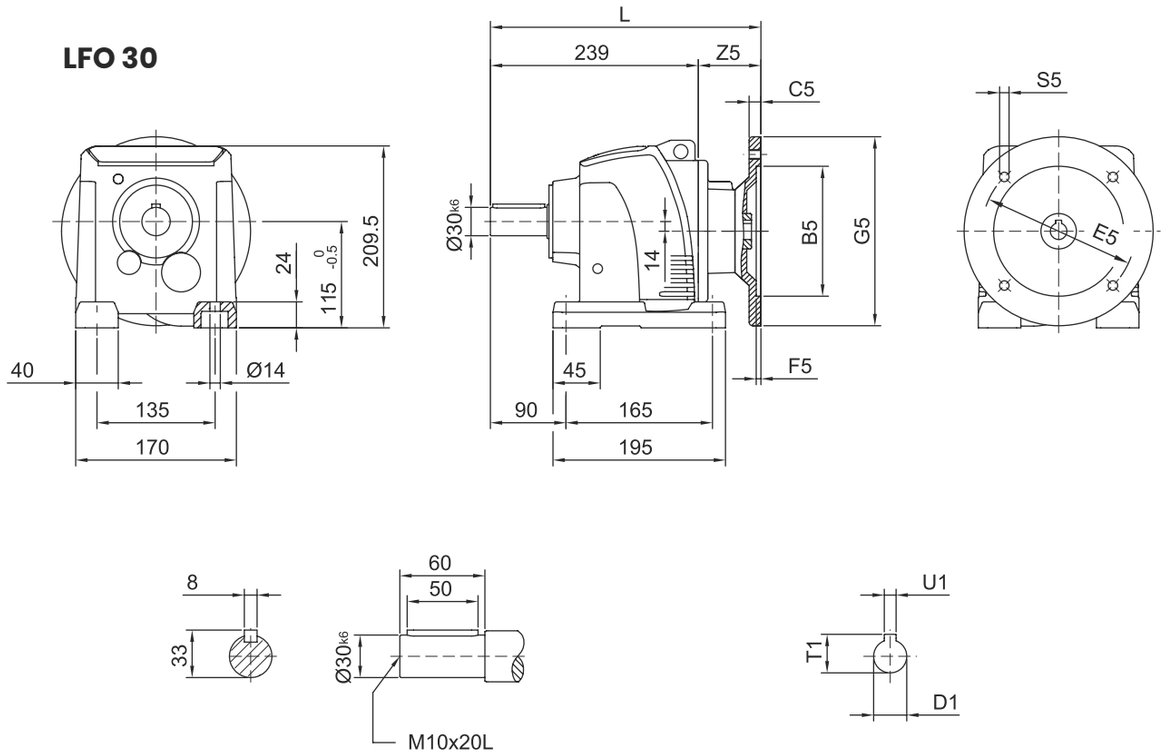
For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 63*	95	10	115	4	140	260	M8	53	11	12.8	4
IEC 71	110	10	130	4	160	260	M8	53	14	16.3	5
IEC 80	130	12	165	5	200	278	M10	71	19	21.8	6
IEC 90	130	12	165	5	200	278	M10	71	24	27.3	8



FH

LFO 30

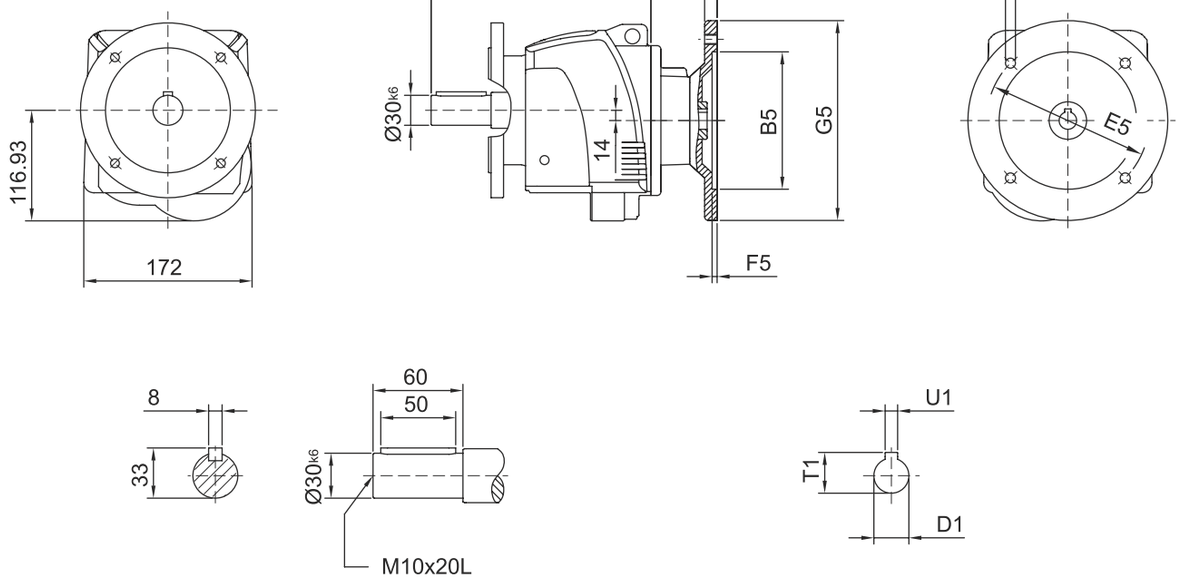


For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

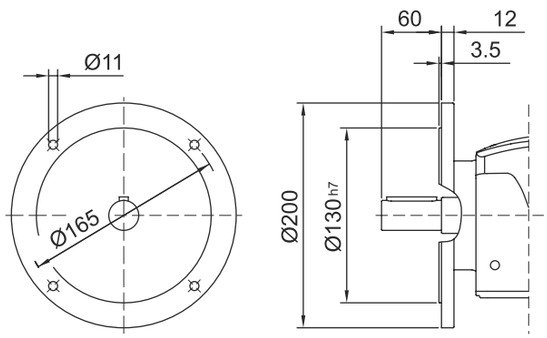
FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 63*	95	10	115	4	140	287.5	M8	48.5	11	12.8	4
IEC 71	110	10	130	4	160	287.5	M8	48.5	14	16.3	5
IEC 80	130	12	165	5	200	305.5	M10	66.5	19	21.8	6
IEC 90	130	12	165	5	200	305.5	M10	66.5	24	27.3	8
IEC 100	180	15	215	5	250	322	M12	83	28	31.3	8

FH

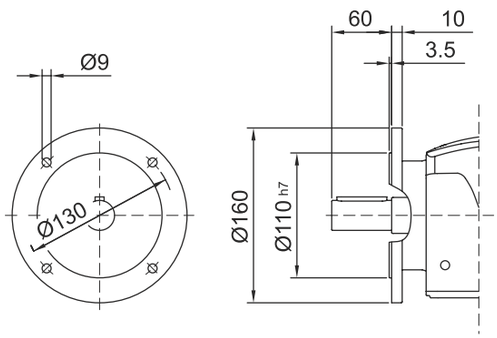
LFO30



LFLV30



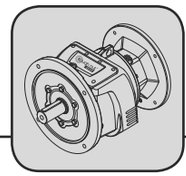
LFLW30



4

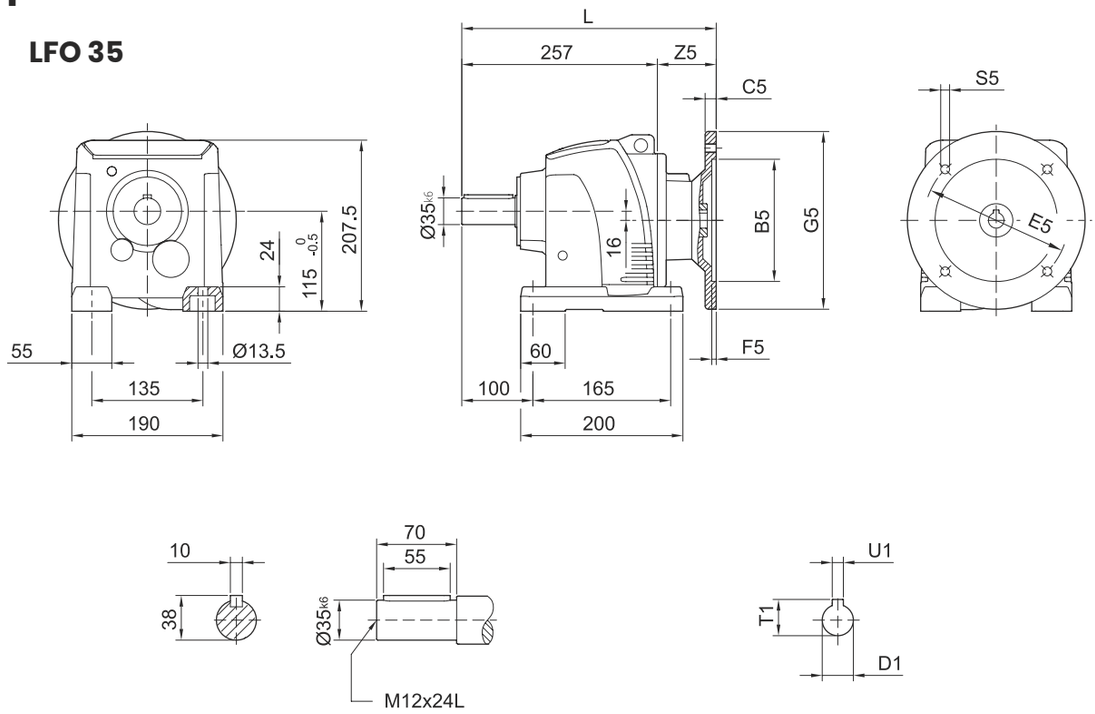
For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 63*	95	10	115	4	140	287.5	M8	48.5	11	12.8	4
IEC 71	110	10	130	4	160	287.5	M8	48.5	14	16.3	5
IEC 80	130	12	165	5	200	305.5	M10	66.5	19	21.8	6
IEC 90	130	12	165	5	200	305.5	M10	66.5	24	27.3	8
IEC 100	180	15	215	5	250	322	M12	83	28	31.3	8



FH

LFO 35

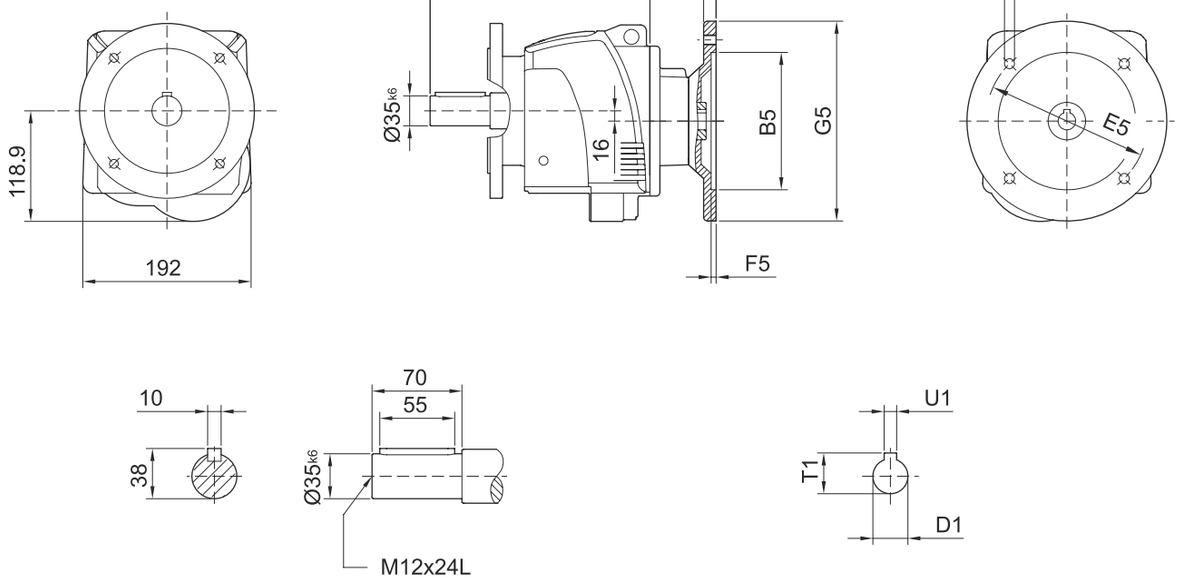


For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

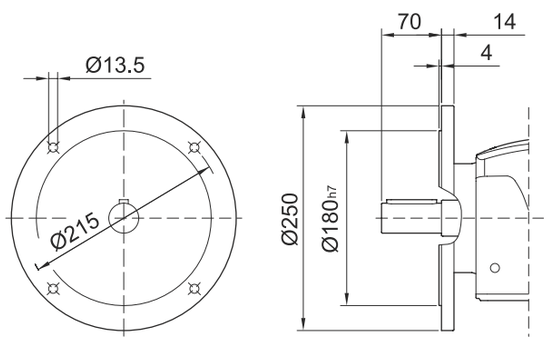
FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 63*	95	10	115	4	140	305.5	M8	48.5	11	12.8	4
IEC 71	110	10	130	4	160	305.5	M8	48.5	14	16.3	5
IEC 80	130	12	165	5	200	323.5	M10	66.5	19	21.8	6
IEC 90	130	12	165	5	200	323.5	M10	66.5	24	27.3	8
IEC 100	180	15	215	5	250	340	M12	83	28	31.3	8
IEC 112	180	15	215	5	250	340	M12	83	28	31.3	8

FH

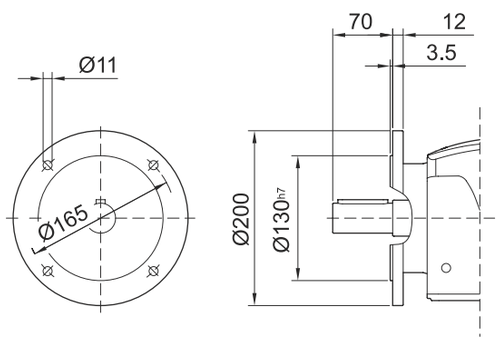
LFO35



LFLV35



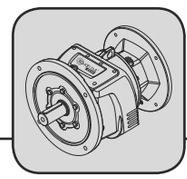
LFLW35



4

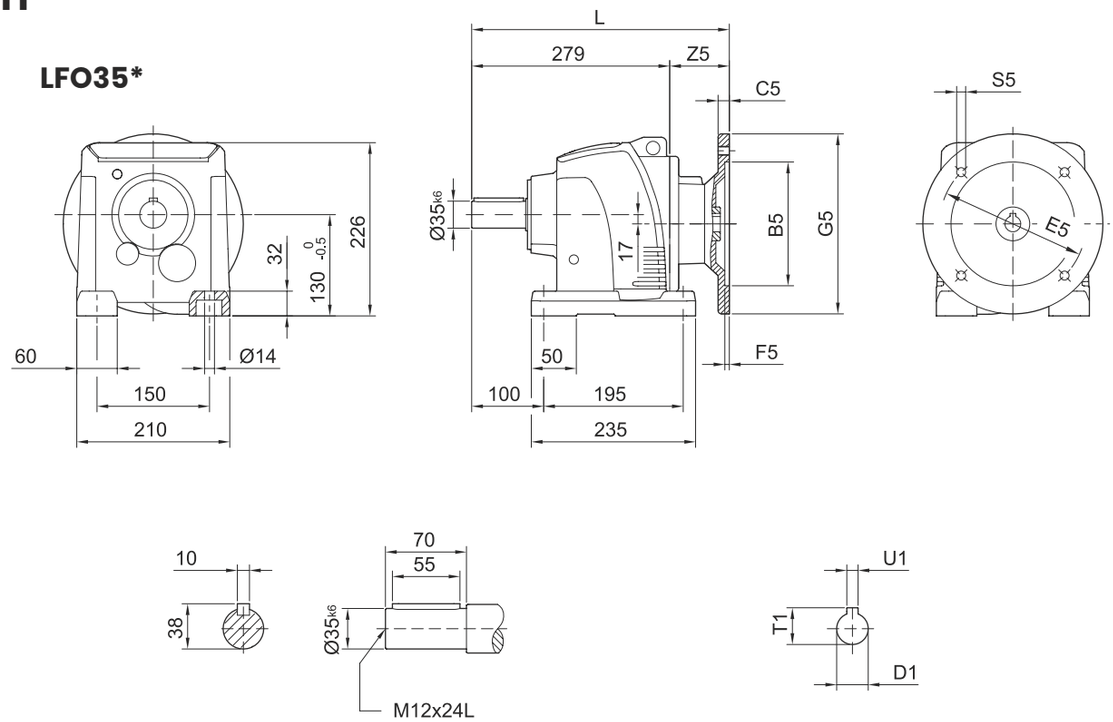
For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 63*	95	10	115	4	140	305.5	M8	48.5	11	12.8	4
IEC 71	110	10	130	4	160	305.5	M8	48.5	14	16.3	5
IEC 80	130	12	165	5	200	323.5	M10	66.5	19	21.8	6
IEC 90	130	12	165	5	200	323.5	M10	66.5	24	27.3	8
IEC 100	180	15	215	5	250	340	M12	83	28	31.3	8
IEC 112	180	15	215	5	250	340	M12	83	28	31.3	8



FH

LFO35*

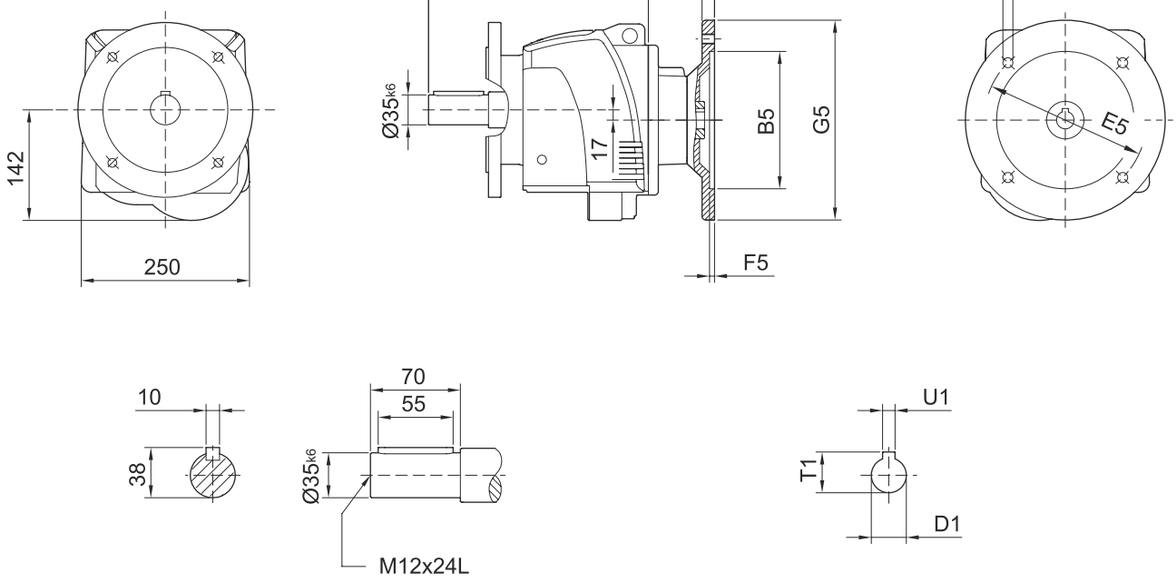


For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

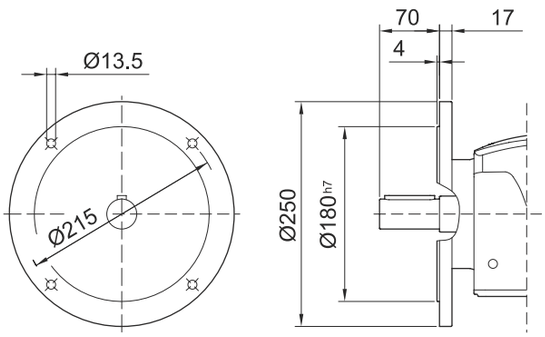
FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 63*	95	10	115	4	140	325.5	M8	46.5	11	12.8	4
IEC 71	110	10	130	4	160	325.5	M8	46.5	14	16.3	5
IEC 80	130	12	165	5	200	343.5	M10	64.5	19	21.8	6
IEC 90	130	12	165	5	200	343.5	M10	64.5	24	27.3	8
IEC 100	180	15	215	5	250	360	M12	81	28	31.3	8
IEC 112	180	15	215	5	250	360	M12	81	28	31.3	8

FH

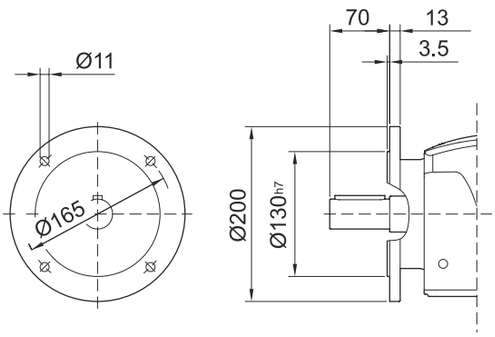
LFO35*



LFLV35*



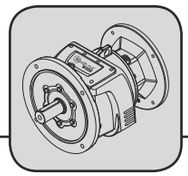
LFLW35*



4

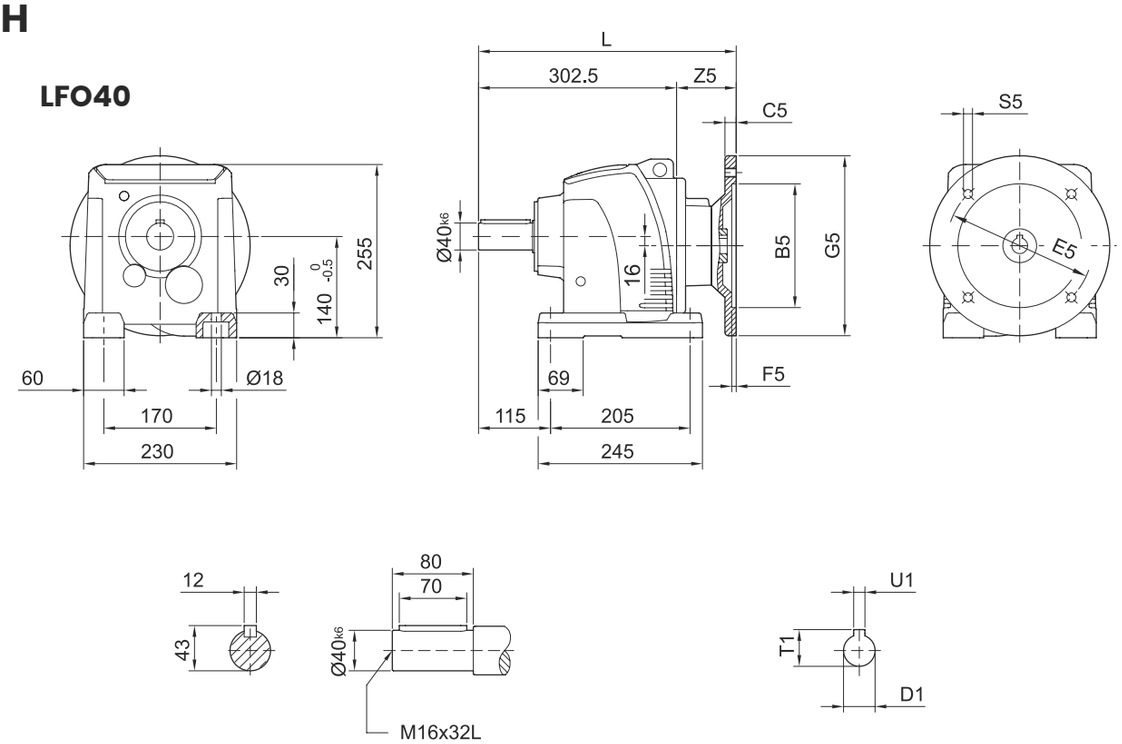
For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 63*	95	10	115	4	140	325.5	M8	46.5	11	12.8	4
IEC 71	110	10	130	4	160	325.5	M8	46.5	14	16.3	5
IEC 80	130	12	165	5	200	343.5	M10	64.5	19	21.8	6
IEC 90	130	12	165	5	200	343.5	M10	64.5	24	27.3	8
IEC 100	180	15	215	5	250	360	M12	81	28	31.3	8
IEC 112	180	15	215	5	250	360	M12	81	28	31.3	8



FH

LFO40

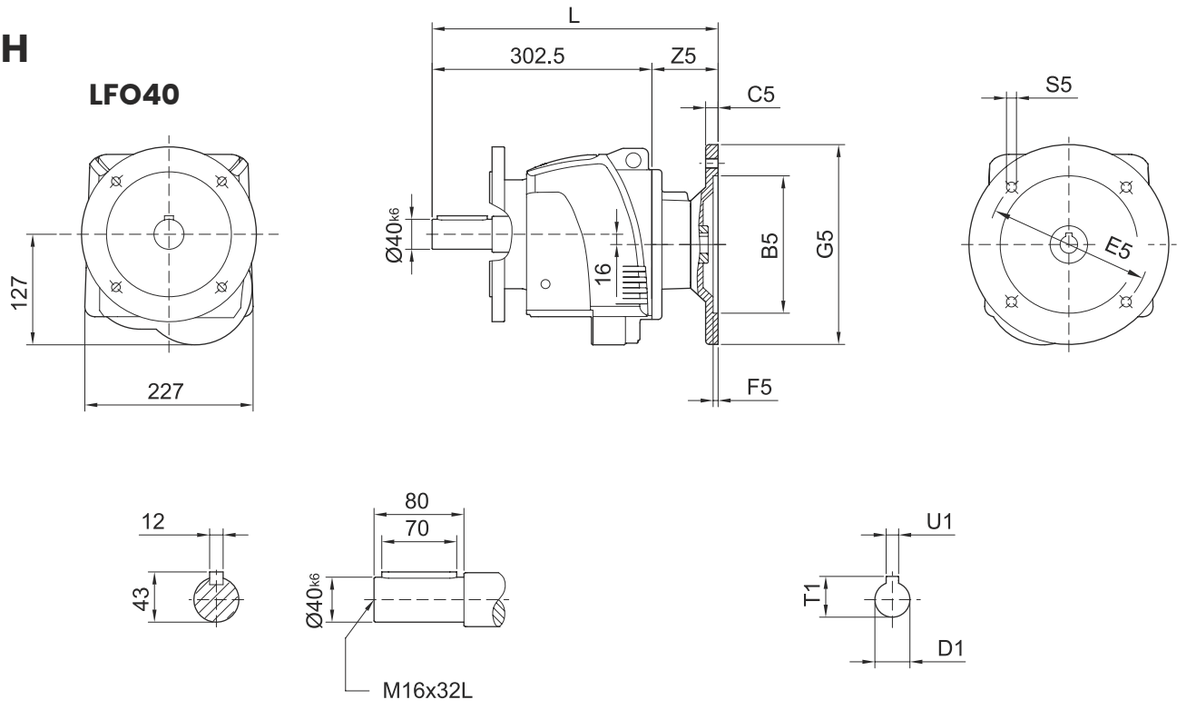


For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

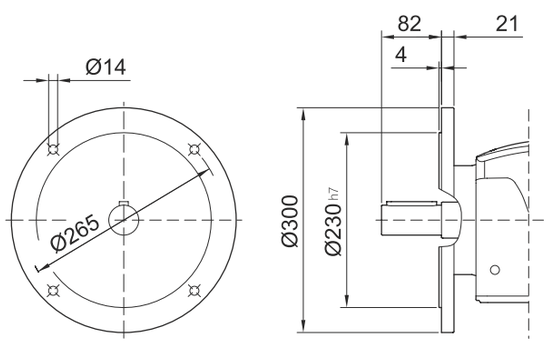
FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 71	110	10	130	4	160	353.5	M8	51	14	16.3	5
IEC 80	130	12	165	5	200	361.5	M10	59	19	21.8	6
IEC 90	130	12	165	5	200	361.5	M10	59	24	27.3	8
IEC 100	180	15	215	5	250	378	M12	75.5	28	31.3	8
IEC 112	180	15	215	5	250	378	M12	75.5	28	31.3	8
IEC 132	230	16	265	6	300	426.5	M12	124	38	41.3	10

FH

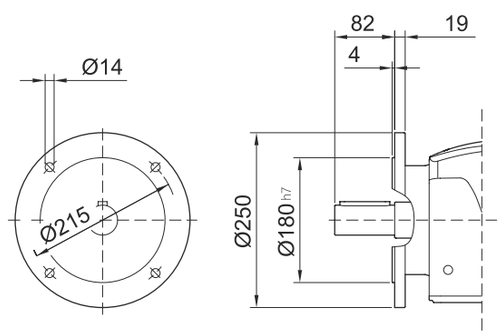
LFO40



LFLV40



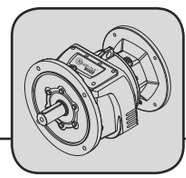
LFLW40



4

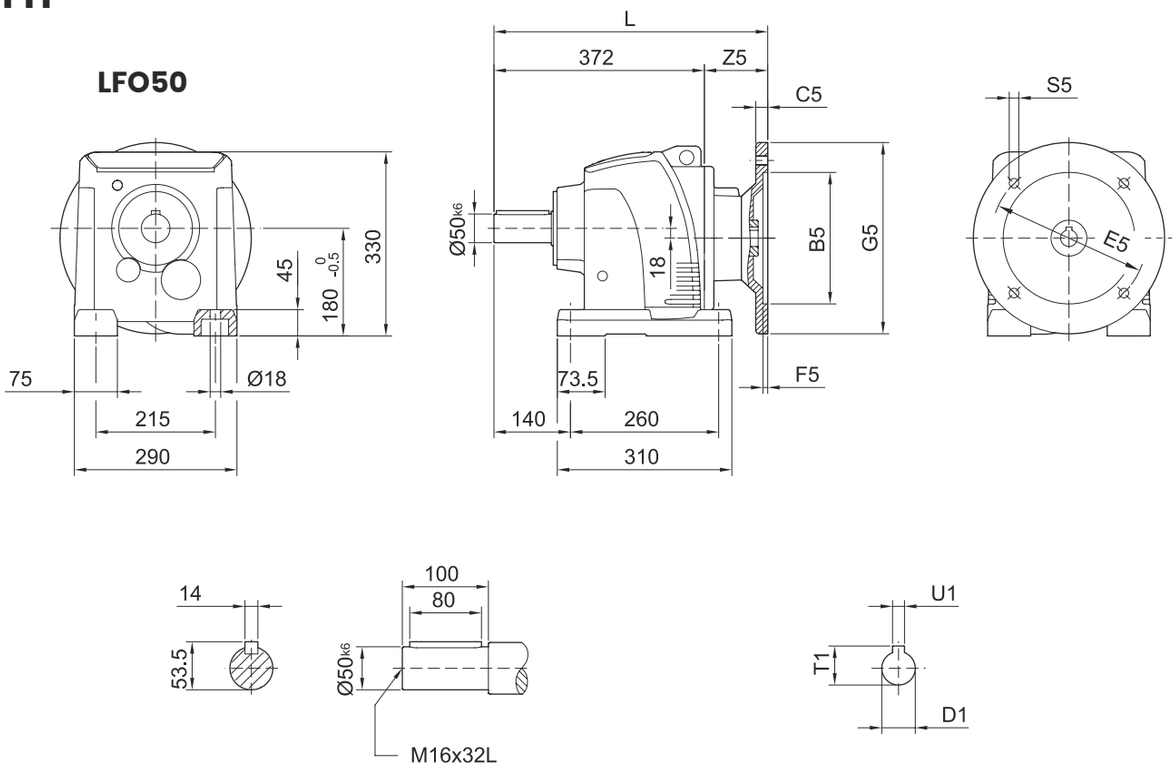
For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 71	110	10	130	4	160	353.5	M8	51	14	16.3	5
IEC 80	130	12	165	5	200	361.5	M10	59	19	21.8	6
IEC 90	130	12	165	5	200	361.5	M10	59	24	27.3	8
IEC 100	180	15	215	5	250	378	M12	75.5	28	31.3	8
IEC 112	180	15	215	5	250	378	M12	75.5	28	31.3	8
IEC 132	230	16	265	6	300	426.5	M12	124	38	41.3	10



FH

LFO50

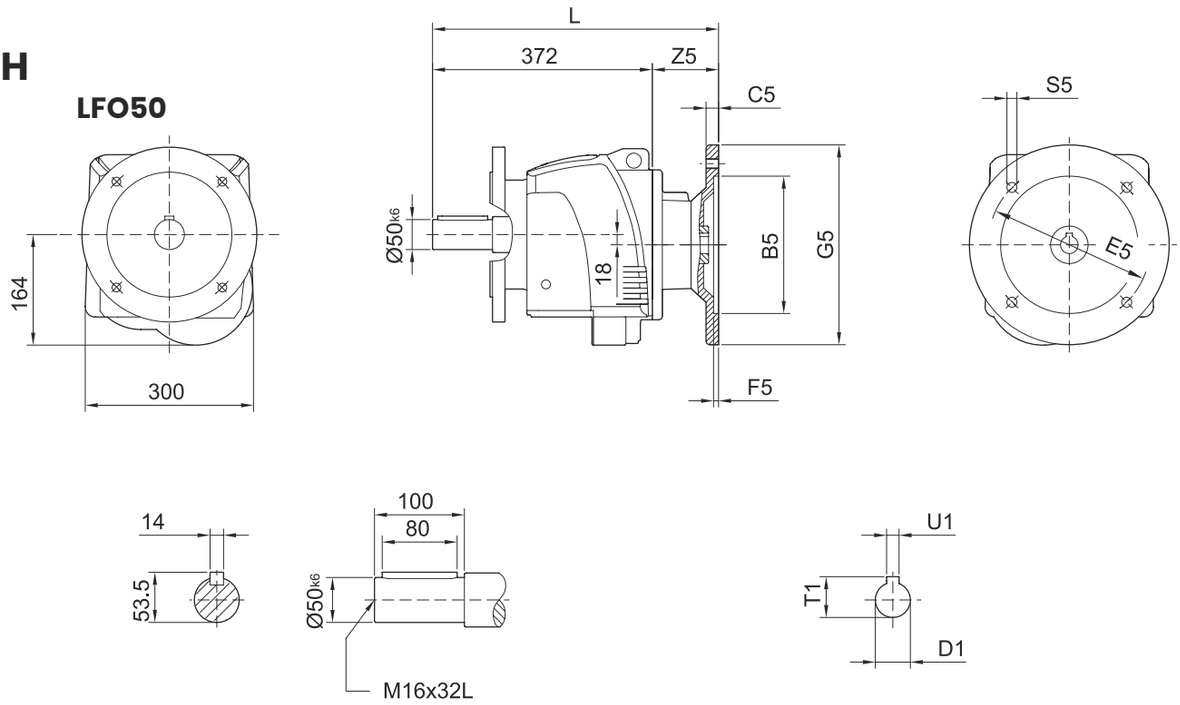


For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

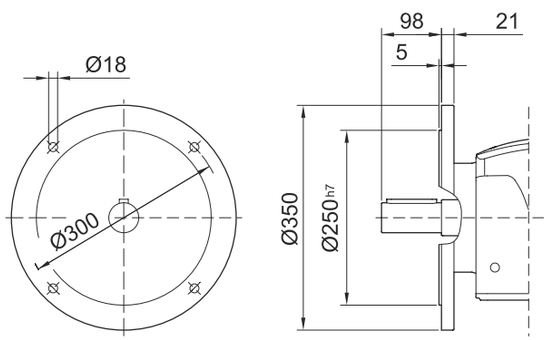
FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 80	130	12	165	5	200	437	M10	65	19	21.8	6
IEC 90	130	12	165	5	200	437	M10	65	24	27.3	8
IEC 100	180	15	215	5	250	438	M12	66	28	31.3	8
IEC 112	180	15	215	5	250	438	M12	66	28	31.3	8
IEC 132	230	16	265	6	300	486.5	M12	114.5	38	41.3	10
IEC 160	250	20	300	6	350	522.5	M16	150.5	42	45.3	12

FH

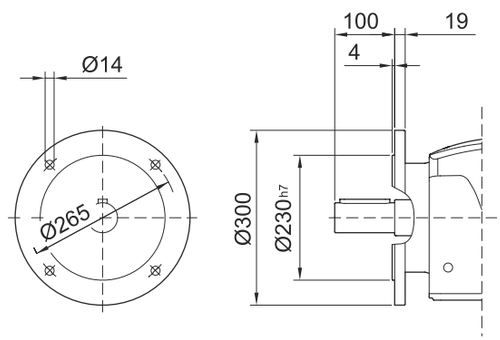
LFO50



LFLV50



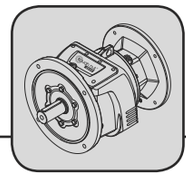
LFLW50



4

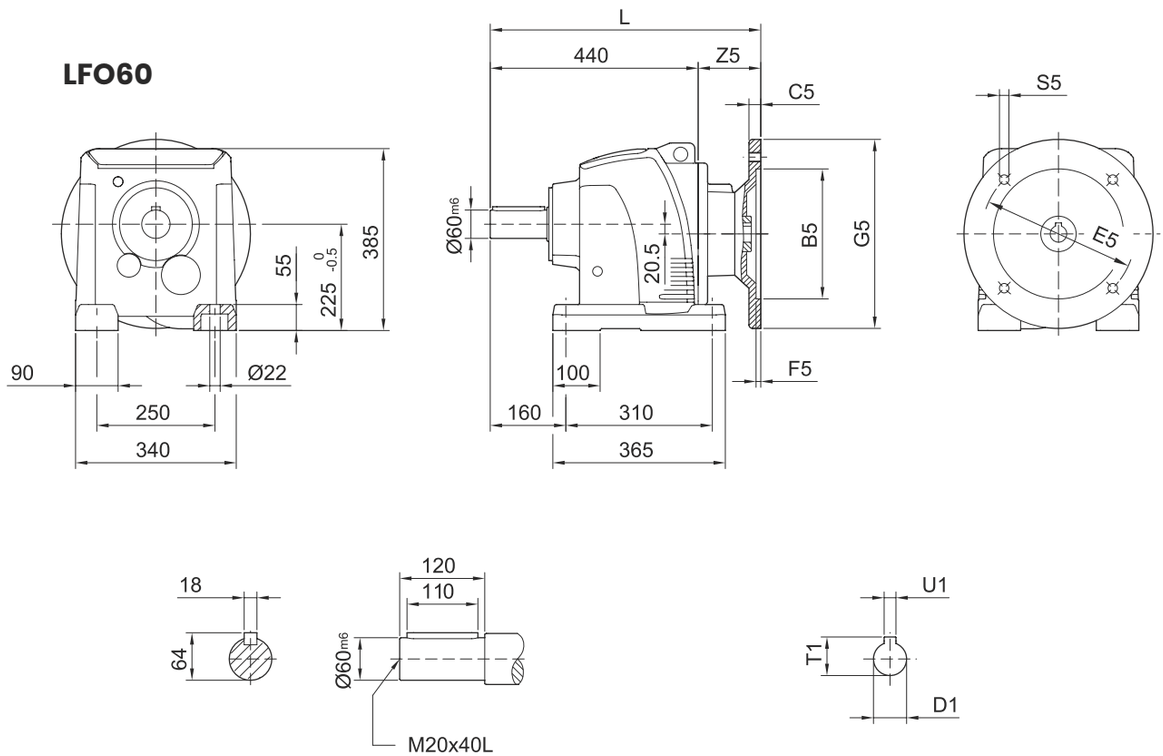
For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 80	130	12	165	5	200	437	M10	65	19	21.8	6
IEC 90	130	12	165	5	200	437	M10	65	24	27.3	8
IEC 100	180	15	215	5	250	438	M12	66	28	31.3	8
IEC 112	180	15	215	5	250	438	M12	66	28	31.3	8
IEC 132	230	16	265	6	300	486.5	M12	114.5	38	41.3	10
IEC 160	250	20	300	6	350	522.5	M16	150.5	42	45.3	12



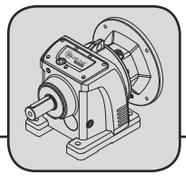
FH

LFO60



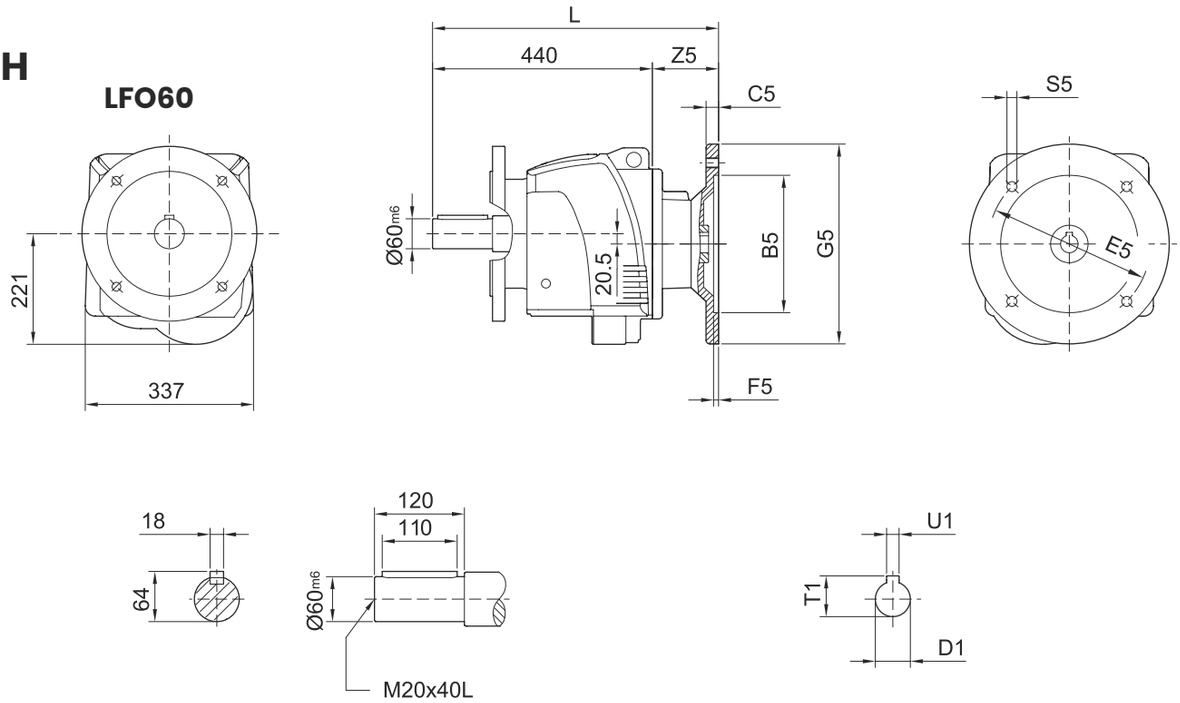
For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 100	180	15	215	5	250	502	M12	62	28	31.3	8
IEC 112	180	15	215	5	250	502	M12	62	28	31.3	8
IEC 132	230	16	265	6	300	546.5	M12	106.5	38	41.3	10
IEC 160	250	20	300	6	350	582.5	M16	142.5	42	45.3	12
IEC 180*	250	20	300	6	350	591.5	M16	151.5	48	51.8	14

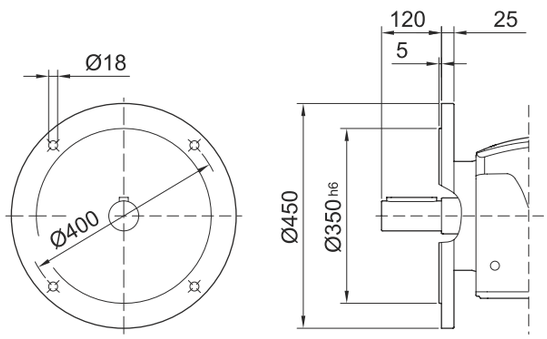


FH

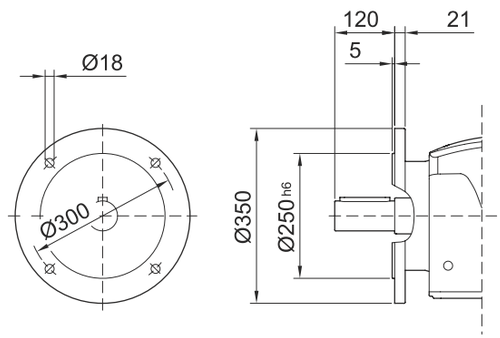
LFO60



LFLV60



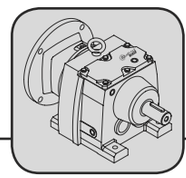
LFLW60



4

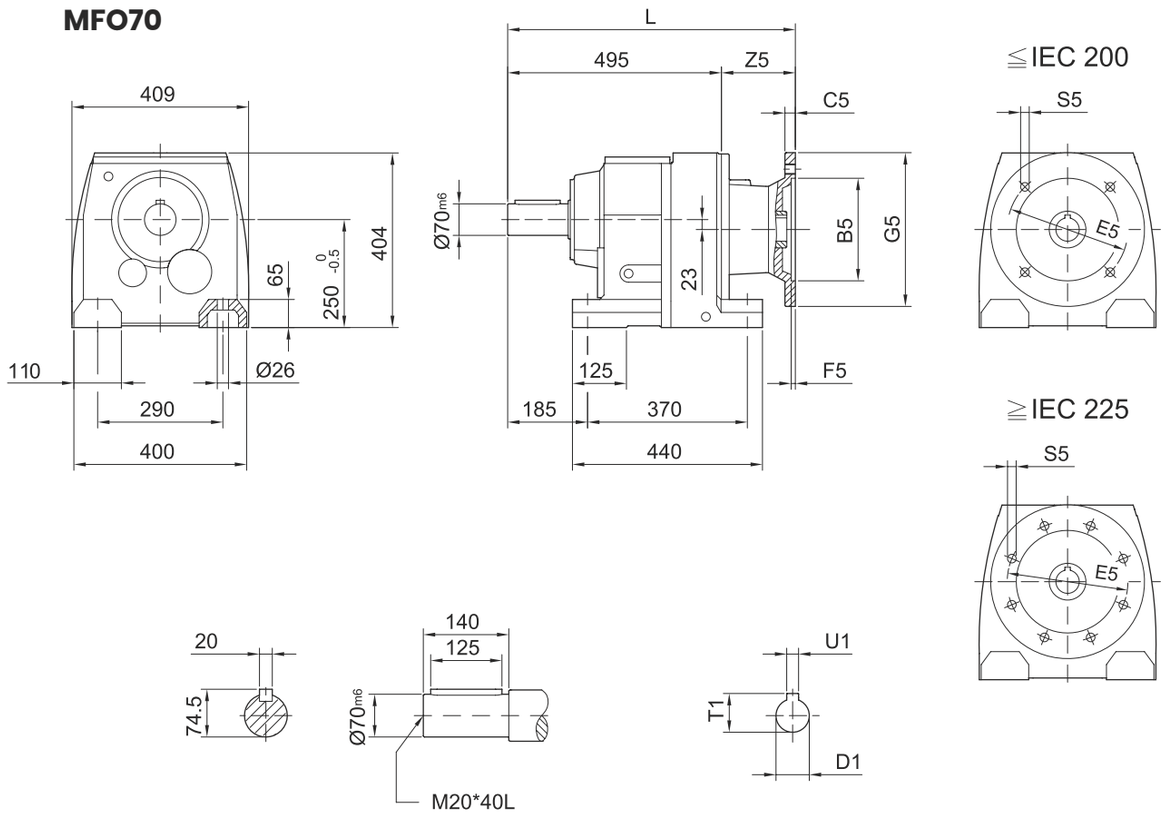
For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 100	180	15	215	5	250	502	M12	62	28	31.3	8
IEC 112	180	15	215	5	250	502	M12	62	28	31.3	8
IEC 132	230	16	265	6	300	546.5	M12	106.5	38	41.3	10
IEC 160	250	20	300	6	350	582.5	M16	142.5	42	45.3	12
IEC 180*	250	20	300	6	350	591.5	M16	151.5	48	51.8	14



FH

MFO70



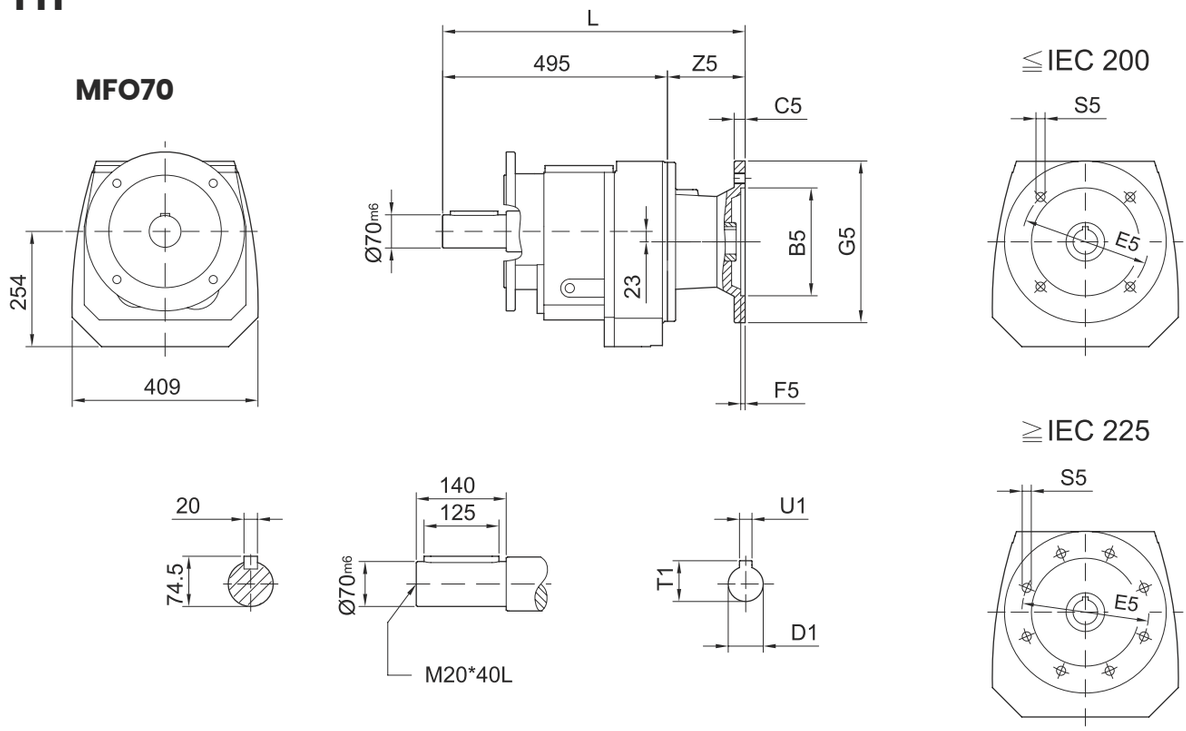
4

For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

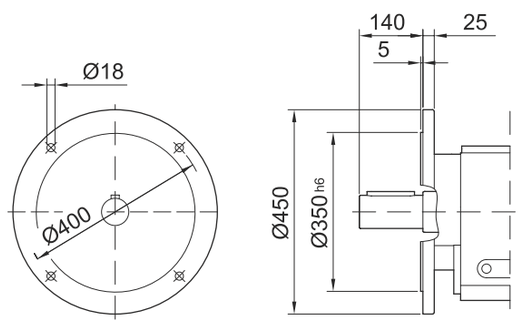
FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 132	230	16	265	6	300	592	M12	97	38	41.3	10
IEC 160	250	20	300	6	350	628	M16	133	42	45.3	12
IEC 180*	250	20	300	6	350	637	M16	142	48	51.8	14
IEC 200*	300	20	350	6	400	637	M16	142	55	59.3	16
IEC 225*	350	20	400	6	450	668	M16	173	60	64.4	18

FH

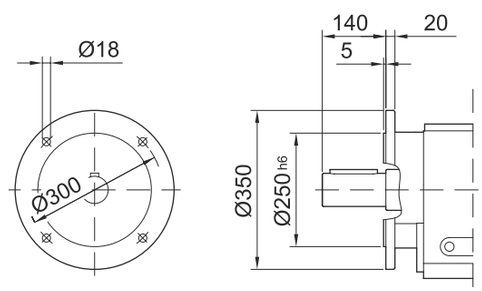
MFO70



MFLV70



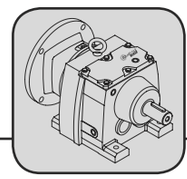
MFLW70



4

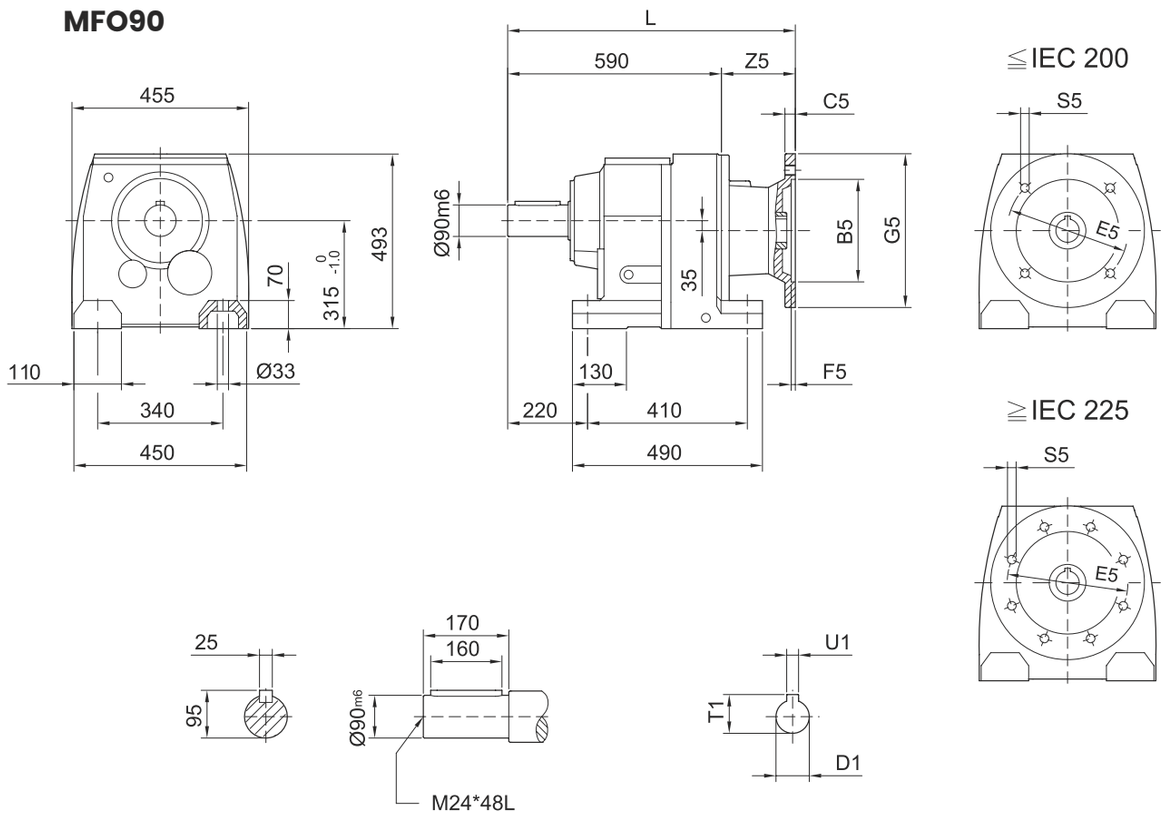
For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 132	230	16	265	6	300	592	M12	97	38	41.3	10
IEC 160	250	20	300	6	350	628	M16	133	42	45.3	12
IEC 180*	250	20	300	6	350	637	M16	142	48	51.8	14
IEC 200*	300	20	350	6	400	637	M16	142	55	59.3	16
IEC 225*	350	20	400	6	450	668	M16	173	60	64.4	18



FH

MFO90



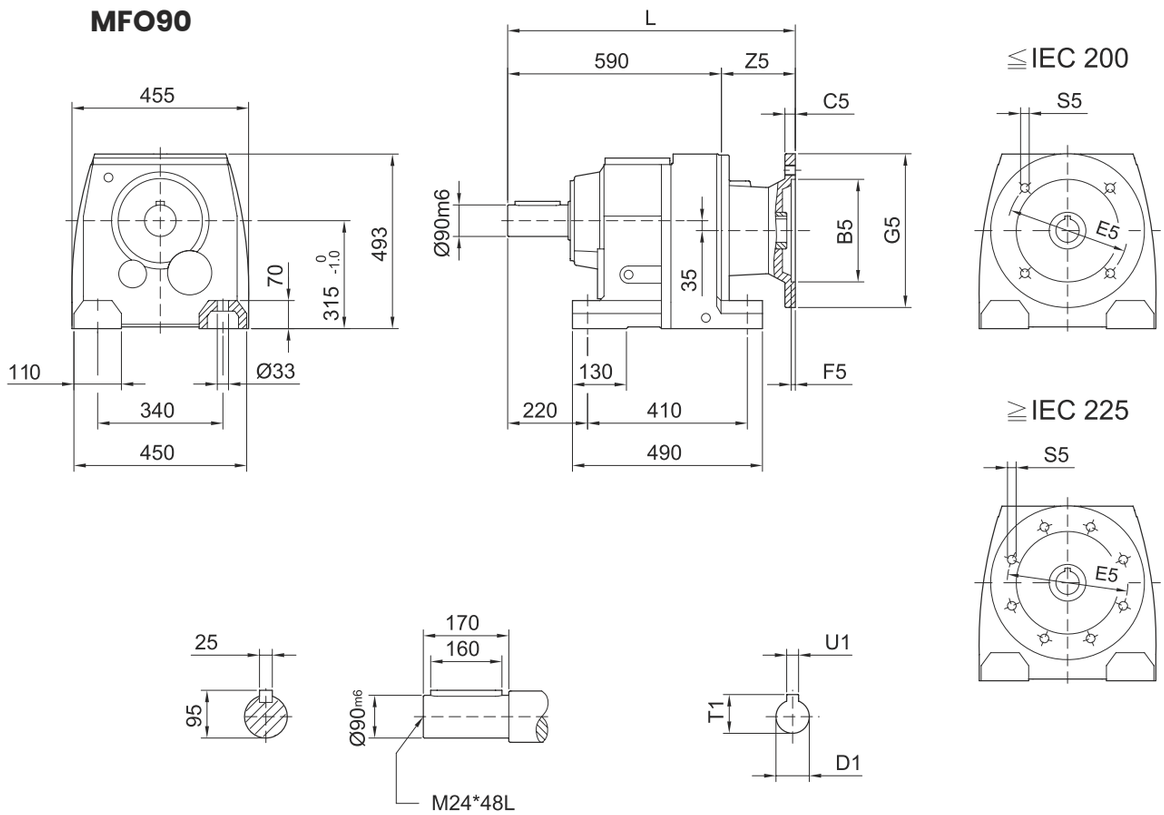
4

For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 160	250	20	300	6	350	713	M16	123	42	45.3	12
IEC 180*	250	20	300	6	350	721	M16	131	48	51.8	14
IEC 200*	300	20	350	6	400	721	M16	131	55	59.3	16
IEC 225*	350	20	400	6	450	752	M16	162	60	64.4	18
IEC 250*	450	22	500	6	550	769	M16	179	65	69.4	18

FH

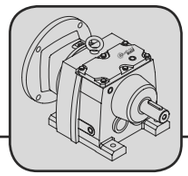
MFO90



4

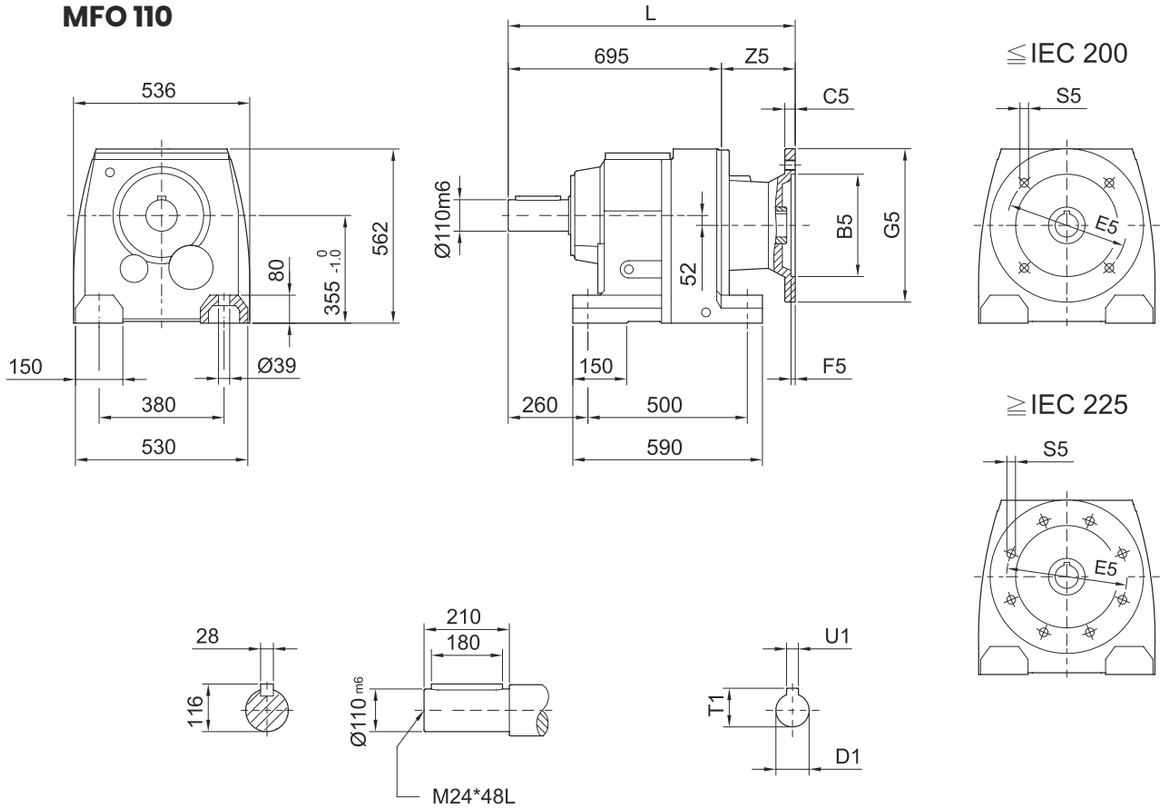
For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 160	250	20	300	6	350	713	M16	123	42	45.3	12
IEC 180*	250	20	300	6	350	721	M16	131	48	51.8	14
IEC 200*	300	20	350	6	400	721	M16	131	55	59.3	16
IEC 225*	350	20	400	6	450	752	M16	162	60	64.4	18
IEC 250*	450	22	500	6	550	769	M16	179	65	69.4	18



FH

MFO 110

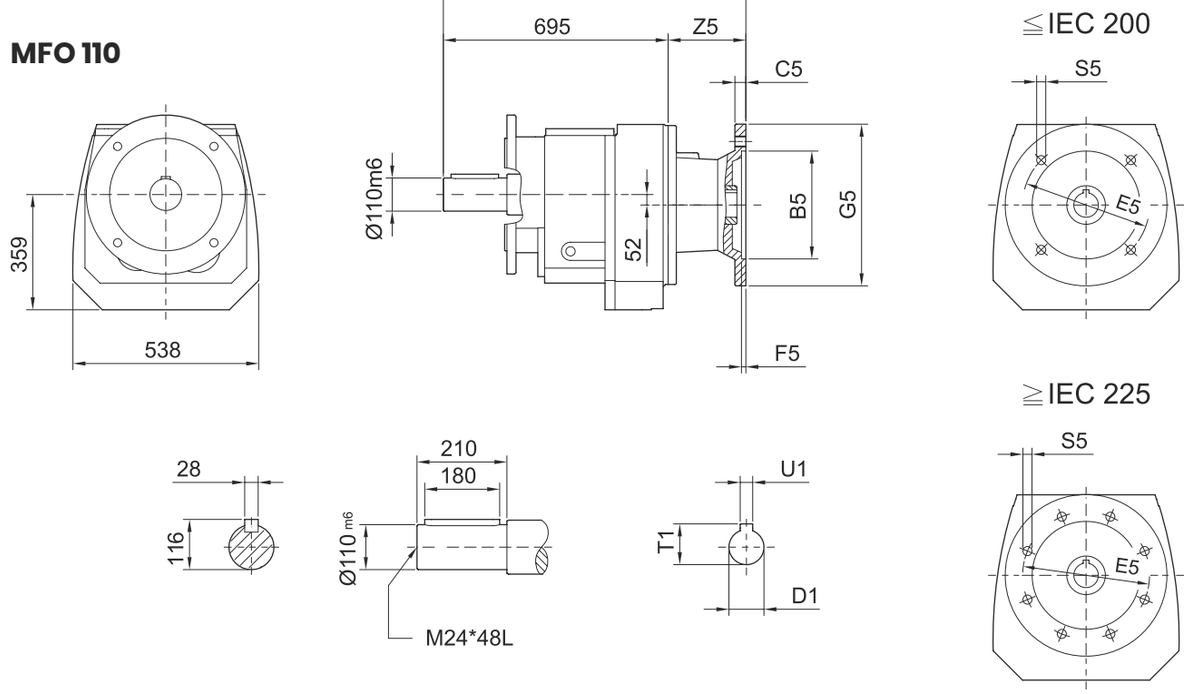


For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

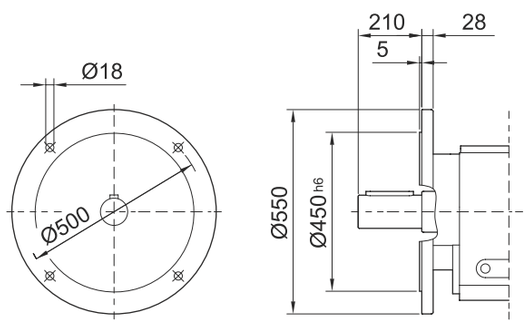
FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 160	250	20	300	6	350	810	M16	115	42	45.3	12
IEC 180*	250	20	300	6	350	818	M16	123	48	51.8	14
IEC 200*	300	20	350	6	350	818	M16	123	55	59.3	16
IEC 225*	350	20	400	6	400	853	M16	158	60	64.4	18
IEC 250*	450	22	500	6	550	870	M16	175	65	69.4	18
IEC 280*	450	22	500	6	550	910	M16	213	75	79.9	20

FH

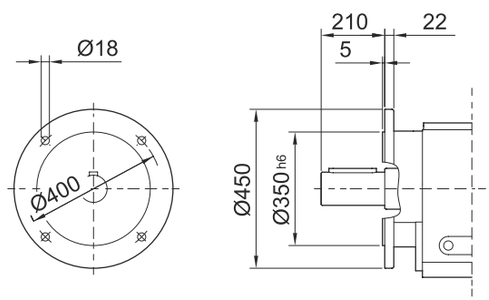
MFO 110



MFLV 110



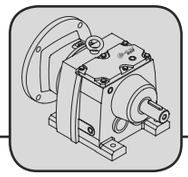
MFLW 110



4

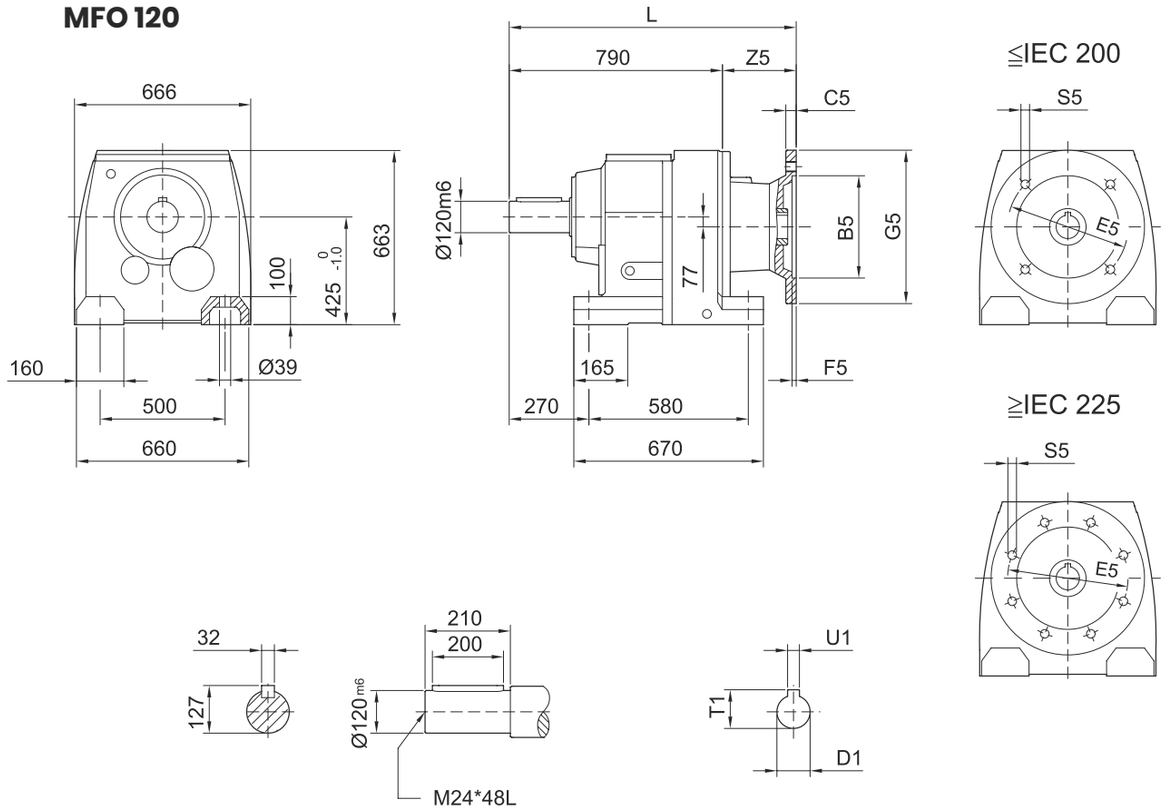
For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 160	250	20	300	6	350	810	M16	115	42	45.3	12
IEC 180*	250	20	300	6	350	818	M16	123	48	51.8	14
IEC 200*	300	20	350	6	400	818	M16	123	55	59.3	16
IEC 225*	350	20	400	6	450	853	M16	158	60	64.4	18
IEC 250*	450	22	500	6	550	870	M16	175	65	69.4	18
IEC 280*	450	22	500	6	550	910	M16	213	75	79.9	20



FH

MFO 120



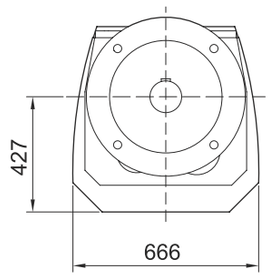
4

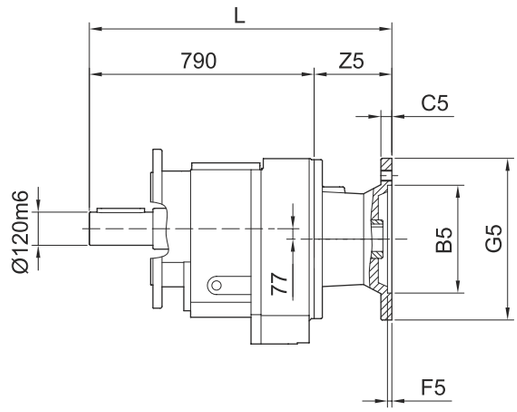
For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 160	250	20	300	6	350	904	M16	114	42	45.3	12
IEC 180*	250	20	300	6	350	913	M16	123	48	51.8	14
IEC 200*	300	20	350	6	400	913	M16	123	55	59.4	16
IEC 225*	350	20	400	6	450	939	M16	149	60	64.4	18
IEC 250*	450	22	500	6	550	956	M16	166	65	69.5	18
IEC 280*	450	22	500	6	550	996	M16	206	75	80.0	20
IEC 315*	550	22	600	6	660	1010	Ø24	220	85	90.4	22

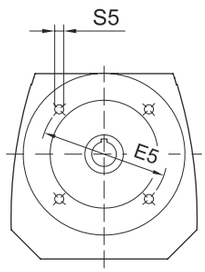
FH

MFO 120

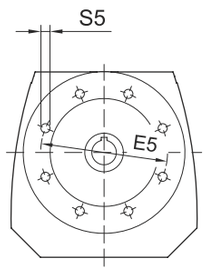


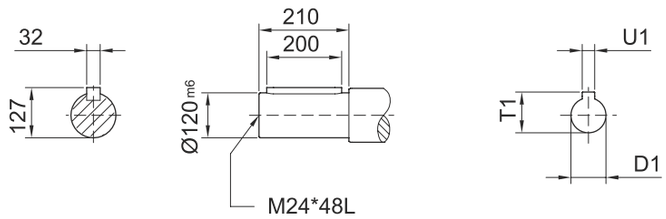


≦IEC 200

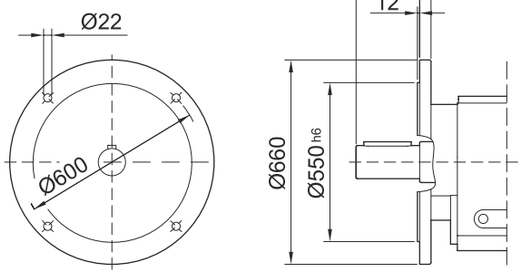


≧IEC 225





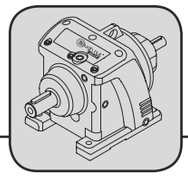
MFLV 120



4

For the dimensions concerning the solid input shaft, please refer to the table shown at page 139.
For the dimensions concerning the motor input shaft, please refer to the table shown at page 142.

FRAME	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 160	250	20	300	6	350	904	M16	114	42	45.3	12
IEC 180*	250	20	300	6	350	913	M16	123	48	51.8	14
IEC 200*	300	20	350	6	400	913	M16	123	55	59.4	16
IEC 225*	350	20	400	6	450	939	M16	149	60	64.4	18
IEC 250*	450	22	500	6	550	956	M16	166	65	69.5	18
IEC 280*	450	22	500	6	550	996	M16	206	75	80.0	20
IEC 315*	550	22	600	6	660	1010	Ø24	220	85	90.4	22



FH

Solid Input Shaft

LFO SISO

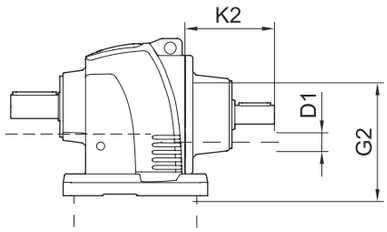
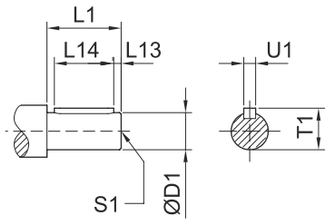


FIG 1



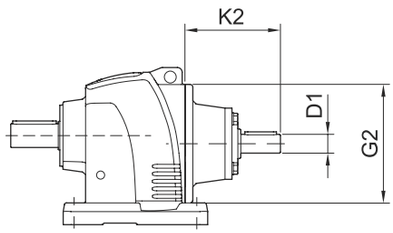


FIG 2

SIZE	D1	L1	L13	L14	T1	U1	S1	K2	G2	FIG
FL..25	16k6	40	4	32	18	5	M5*10L	88	120	1
	19k6	40	4	32	21.5	6	M6*12L	90.5	120	1
FL..30	16k6	40	4	32	18	5	M5*10L	83.5	160	1
	19k6	40	4	32	21.5	6	M6*12L	86	160	1
	24k6	50	5	40	27	8	M8*16L	96	160	1
FL..35	16k6	40	4	32	18	5	M5*10L	83.5	160	1
	19k6	40	4	32	21.5	6	M6*12L	86	160	1
	24k6	50	5	40	27	8	M8*16L	96	160	1
FL..35*	19k6	40	4	32	21.5	6	M6*12L	115.5	160	2
	24k6	50	5	40	27	8	M8*16L	119.5	160	2
FL..40	19k6	40	4	32	21.5	6	M6*12L	89.5	200	2
	19k6	40	4	32	21.5	6	M6*12L	106	200	2
	24k6	50	5	40	27	8	M8*16L	114	200	2
	38k6	80	5	70	41	10	M12*24L	177	200	2
FL..50	19k6	40	4	32	21.5	6	M6*12L	95.5	250	2
	28k6	60	5	50	31	8	M8*16L	114.5	250	2
	38k6	80	5	70	41	10	M12*24L	167.5	250	2
	42k6	110	10	70	45	12	M16*32L	240.5	250	2
FL..60	28k6	60	5	50	31	8	M8*16L	110.5	300	2
	38k6	80	5	70	41	10	M12*24L	159.5	300	2
	42k6	110	10	70	45	12	M16*32L	232.5	300	2
	48k6	110	10	80	51.5	14	M16*32L	237.5	300	2

FH

Solid Input Shaft

MFO SISO

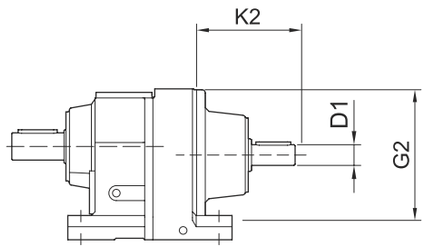
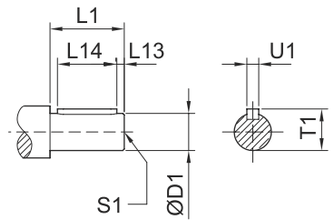


FIG 1



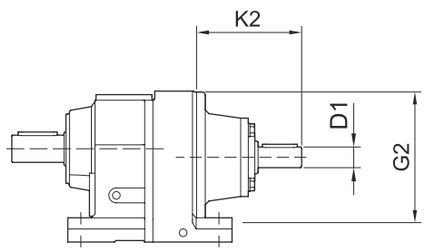
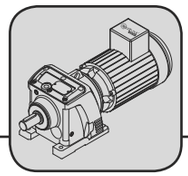


FIG 2

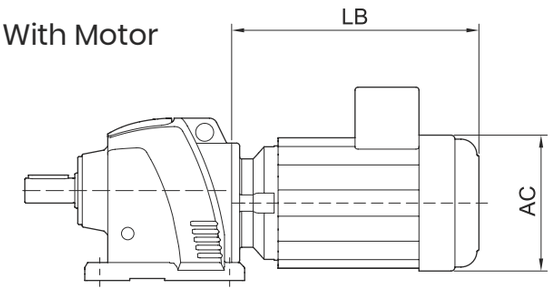
SIZE	D1	L1	L13	L14	T1	U1	S1	K2	G2	FIG
FM..20	16k6	40	4	32	18	5	M5*10L	99	120	1
FM..70	28k6	60	5	50	31	8	M8*16L	110.5	350	2
	38k6	80	5	70	41	10	M12*24L	150	350	2
	42k6	110	10	70	45	12	M16*32L	223	350	2
	48k6	110	10	80	51.5	14	M16*32L	228	350	2
FM..90	42k6	110	10	70	45	12	M16*32L	213	350	2
	48k6	110	10	80	51.5	14	M16*32L	217	350	2
	55m6	110	10	90	59	16	M20*40L	259	400	2
FM..110	42k6	110	10	70	45	12	M16*32L	205	350	2
	48k6	110	10	80	51.5	14	M16*32L	209	350	2
	55m6	110	10	90	59	16	M20*40L	255	450	2
	70m6	140	15	110	74.5	20	M20*40L	322	450	2
FM..120	42k6	110	10	70	45	12	M16*32L	204	550	2
	48k6	110	10	80	51.5	14	M16*32L	209	550	2
	55m6	110	10	90	59	16	M20*40L	246	550	2
	70m6	140	15	110	74.5	20	M20*40L	315.5	550	2

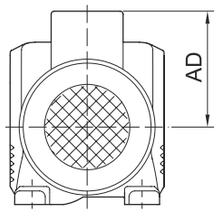


FH

Couple With Motor

L...M





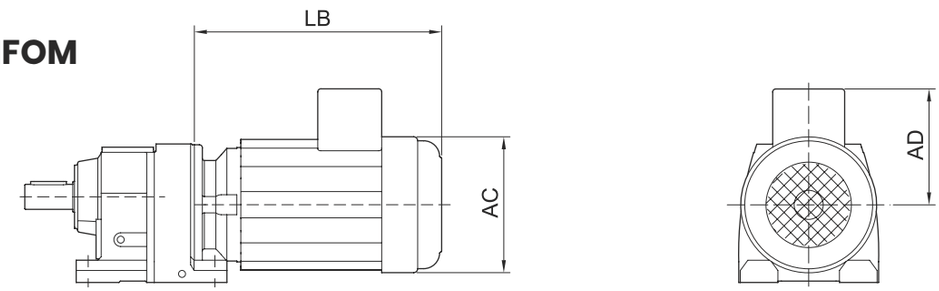
SIZE	MOTOR	AC	AD	LB
FL..25	63	120	108	231.5
	71	136	116	247.5
	80	160	127	309
	90	176	139	354.5
FL..30	63	120	108	227
	71	136	116	243
	80	160	127	304.5
	90	176	139	350
	100	198	149	398
	112	220	167	410
FL..35	63	120	108	227
	71	136	116	243
	80	160	127	304.5
	90	176	139	350
	100	198	149	398
	112	220	167	410
FL..35*	63	120	108	225
	71	136	116	241
	80	160	127	302.5
	90	176	139	348
	100	198	149	396
	112	220	167	408
FL..40	71	136	116	239
	80	160	127	297
	90	176	139	342.5
	100	198	149	390.5
	112	220	167	402.5
	132S	258	184.5	441

SIZE	MOTOR	AC	AD	LB
FL..50	80	160	127	287.5
	90	176	139	333
	100	198	149	381
	112	220	167	393
	132S	258	184.5	431.5
	132M	258	184.5	469.5
	160M	334	286	550
FL..60	100	198	149	377
	112	220	167	389
	132S	258	184.5	423.5
	132M	258	184.5	461.5
	160M	334	286	542
	160L	334	286	586
	180M	382	305	607.5

FH

Couple With Motor

MFOM



SIZE	MOTOR	AC	AD	LB
FM..20	63	108	108	249
	71	136	116	265
	80	160	127	362.5
FM..70	132S	258	184.5	414
	132M	258	184.5	452
	160M	334	286	532.5
	160L	334	286	576.5
	180M	382	305	598
	180L	382	305	598
	200L	382	305	636
	225S	458	362	713
	225M	458	362	713
FM..90	160M	334	286	521.5
	160L	334	286	565.5
	180M	382	305	587
	180L	382	305	587
	200L	382	305	625
	225S	458	362	702
	225M	458	362	702

JK Fenner

Powered by innovation, Driven by excellence

POWERTRAN®

Industrial Automation

Industrial Automation Product Range



e³ POWERTRAN VFD



P² POWERTRAN VFD



eco POWERTRAN VFD



POWERTRAN PLCS



POWERTRAN XPANEL



POWERTRAN IPC



ULTIMATE ACCESS

Manufacturing Facilities













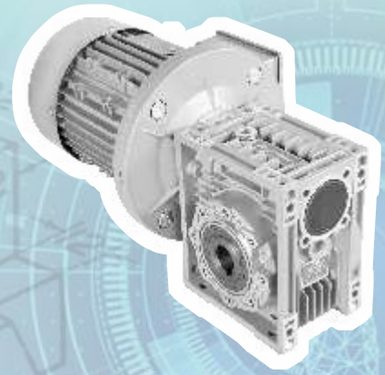
GEAR BOXES & GEARED MOTORS



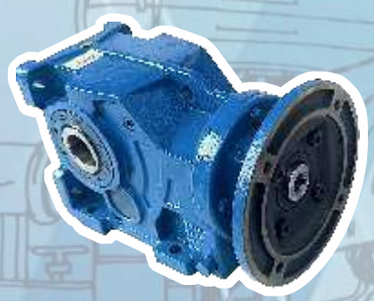
SMSR HD Plus



Parallel Helical Geared Motor



Worm Geared Motor



Bevel Helical



Inline Helical



Vibrator Motor

Corporate Office :
Khivraj Complex II, V Floor, 480, Anna Salai,
Nandanam, Chennai-600 035.
Tel : +91 44 4399 4666
Email : ptd_mhq@fennermail.com,
www.jkfenner.com

Registered Office :
3, Madurai - Melakkal Road,
Kochadai, Madurai - 625 016.
Tel : 0452-2383801, 2383802

JK Fenner

3K/June24

PLANT: Plot No.11&12, Phase IV, TSIIC, IDA, Pashamailaram-502 307. Medak Dist, Telangana, India
Tel : 08455-224501, Email : info-ia@jkfenner.com

BRANCHES:

- **Ahmedabad:** 602, Wall Street Annx., Near Gujarat College Railway Crossing, Ellis Bridge, Ahmedabad - 380006. Tel: 079-26408573 / 26408572.
- **Bangalore:** 20, New Timber Yard Layout, Mysore Road, Bangalore - 560 026. Tel: 080-26756333, Fax: 080-26741001.
- **Indore:** 58, New Dewas Road, Vallabh Nagar, Above SBI Branch, Malwa Mill Square, Indore - 452 003. Tel: 0731 4205048 / 4285048, 9981507191.
- **Jaipur:** 511, Neelkanth Tower, Bhawani Singh Road, Opposite Sahkar Bhawan, C Scheme, Jaipur-302001. +91-141-2211075; 9799394727; 9950556644
- **Kanpur:** 1st Floor, 13/391, Civil Lines, Kanpur-208001, Tel: 97939 99997.
- **Kochi:** 32/563 A , J.K.Building, Pallissery Road, Palarivattom, Cochin - 682025. Tel: 0484-6003888, 98950 71066.
- **Kolkata:** DN 10, Merlin Matrix, Unit No 605, 6th Floor, Sector V, Salt Lake City, Kolkata - 700 091. Tel: 033-66168861.
- **Ludhiana:** B-XVII/2820/48, Opp to Adam Park, Jammu Colony, Link Road, Ludhiana - 141 003. Tel : 0161-2410214. Fax: 0161-2443791.
- **Madurai:** 117/6E, Madurai - Usilampatti Road, Meenakshipuram, Madurai - 625 016. Tel : 0452-2383920, Fax: 0452-2383921.
- **Navi Mumbai:** 105, Gauri Complex, Sector-11, CBD-Belapur, Navi Mumbai-400 614. Tel : 022-27560985, 022-27580236, Fax : 022-27563330.
- **New Delhi:** 2nd Floor, Delite Theatre Building, Asaf Ali Road, New Delhi - 110002. Tel : 011-23243113, 23243153, 23243154, Fax: 011-23243114.
- **Hyderabad:** Plot No. 35, TIE (Technocrat Industrial Estate), Behind Andhra Bank, Balanagar, Hyderabad 500 037. Tel: 040-23071126-39.