

**Inline Helical
Foot Mounting
D-Series Gearbox**

**Inline Helical
Flange Mounting
D-Series Gearbox**

**Mini
Planetary
Gearbox**

**Planetary
Gearbox
VP 250**



**3 Phase
Induction Motor**



**Inline Helical
Flange Mounting
B-Series Gearbox**



**Inline Helical
Foot Mounting
B-Series Gearbox**





TECHNICAL FEATURES

- ▶ Each gearbox is designed by optimizing the performance parameters and strict quality control measures implemented during manufacturing and assembly of gearbox
- ▶ All gears are made from Case-hardened steel 20MnCr5-SAE8620 or equivalent material. Case hardening (58-62 HRC), Quenching and Stress-relieving are done to get high quality profile ground gears as per DIN 3961 Class 6 accuracy for low noise and high efficiency.
- ▶ Housing is made of high toughness cast iron FG 260 grade. Housing is rigid and mono block in design. Sturdy and robust housing gives the gearbox high tolerance to absorb high shock load.
- ▶ Inspection surface hardness standard as per UNE7-257-72, Alignment of shaft to output flange as per DIN 42955, Shaft seal tightness test @ 1Kg/cm^2 , Noise level within the limit as per VDI 2159.
- ▶ Synthetic oil VG-320 is used for lubrication.
- ▶ Largely proportioned ball bearing support on both side of the shaft ensures precise alignment of gear and reduces vibrations and wear of the gears.
- ▶ High quality sealing for to avoid oil leakage.
- ▶ Very high dynamic efficiency of 96.4% for two stage.
- ▶ Silent and vibration free unit provide ability to operate in high input speed and intermittent operation.

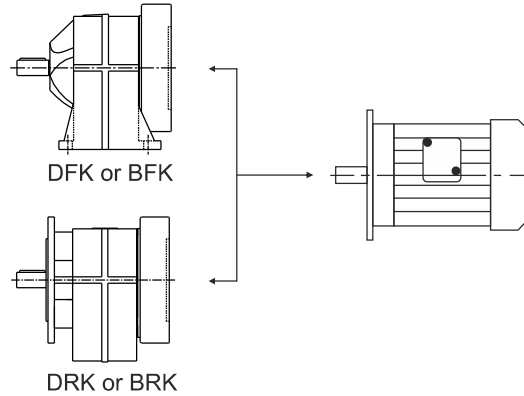


- ▶ All in-line helical gearboxes are powder coated.
- ▶ All units are suitable to fit with IEC standard motor.
- ▶ The gear box is designed to absorb high external loads i.e. Axial and Radial loads.
- ▶ All mounting details are dimensionally interchangeable with other major gearbox manufacturers.
- ▶ Completely enclosed construction allows installation in open air and hostile environment such as moisture, dusty, salty and Laden atmosphere.
- ▶ Reducer are fitted with synthetic rubber oil seals and best quality ball bearings.
- ▶ Direction of rotation of O/P shaft may be clockwise (CW) or counter clockwise (CCW) as required.

HELICAL GEAR BOX

Nomenclature

1. Hollow Input Solid Output



B F K 25 / 19.0 / 200 - 19

D F K 128 / 18.4 / 200 - 19

Type of Geared Units
D-Series (In-line Helical)
B-Series (In-line Helical)

Type of Mounting
F-Foot Mounting
R-Flange Mounting

K-With Motor
Mounting Flange

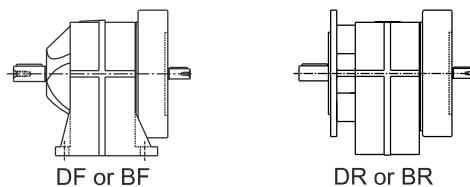
Input Shaft Bore Diameter
Ø14, Ø19, Ø24, Ø28, Ø38.

Input Flange OD
Ø160, Ø200, Ø250, Ø300

Gearbox Ratio

Model of Geared Units
D-Series 102, 128, 142, 162, 185, 160.
B-Series 20, 25, 30, 35, 45, 55.

2. Solid Input Solid Output



B F 25 / 19.0 / 19

D F 128 / 18.4 / 19

Type of Geared Units
D-Series (In-line Helical)
B-Series (In-line Helical)

Type of Mounting
F-Foot Mounting
R-Flange Mounting

Input Shaft Diameter
Ø14, Ø19, Ø22, Ø24, Ø28.

Gearbox Ratio

Model of Geared Units
D-Series 102, 128, 142, 162, 185, 160.
B-Series 20, 25, 30, 35, 45, 55.

Note : 1. All Dimensions are in mm, unless specified otherwise.

HELICAL GEAR BOX

Guideline for selection

Power rating (Refer page 14-17)

Tables give the details of power rating, output speed /ratio, of all sizes of geared motors / gear units in our production range.

Service factor

For deciding the proper size of gear unit a suitable service factor is to be considered over the motor power. For finding out the service factor, mechanical service factor f_1 and frequency starts factor f_2 , as given in table 1 & 2 respectively are taken into consideration. For deciding mechanical service factor, the type of load of driven machine as given in table 4 is considered.

Symbols used

Pm	Motor power / input power / transmitted power	[kW]
n1	Input speed / motor speed	[r/min]
n2	Output speed	[r/min]
iR	Reduction ratio	
fb	Service factor	
f1	Mechanical service factor, refer table 1	
f2	Frequency starts factor, refer table 2	
FRa	Allowable overhang load applied on middle of the output shaft extension	[N]
F	Equivalent /calculated overhang load	[N]
Wt	Weight of geared motor /gear unit	[kg.]
K	Load factor for the type of overhang member, refer table 3	
D	Pitch diameter of overhang load member	[mm]

TABLE 1:- MECHANICAL SERVICE FACTOR - f1

Duration of operation (hours per day)	Load classification of driven machine		
	Uniformed load U	Moderate shock load M	Heavy shock load H
Upto 3	0.80	1.00	1.50
Over 3 upto 10	1.00	1.25	1.75
Over 10	1.25	1.50	2.00

TABLE 2 : FREQUENCY STARTS FACTOR - f2

Starts per hour	Mechanical service factor – f1					
	0.8	1	1.25	1.5	1.75	2
1	1.00	1.00	1.00	1.00	1.00	1.00
2 to 20	1.20	1.10	1.08	1.07	1.07	1.06
21 to 40	1.30	1.20	1.17	1.18	1.15	1.08
41 to 80	1.50	1.40	1.25	1.23	1.18	1.10
81 to 160	1.60	1.50	1.35	1.30	1.20	1.15
161 to 320	2.00	1.80	1.70	1.80	1.50	1.40

Overhung load

When a sprocket / gear etc., is used at the output shaft for transmitting the power / motion to the driven motion to the driven machine, the suitability of gear unit to take the resulting radial load (acting as overhang load) is to be decided. This can be checked using the following formula,

$$F = \frac{P_m \times 9550 \times K}{n_2 \times D} \times 2000 \quad [N]$$

The calculated equivalent overhang load, using the above formula is to be compared with the allowable overhang load values given in power rating able. Condition is, F is less than or equal to FRa.

NOTE : In the above, the calculated equivalent overhang load is taken as acting at the middle of output shaft extension. If the overhang load is acting at a distance other than middle of extension, refer the details to us. If the angle at which the overhang load is acting is known, the same may also be informed.

TABLE 3 : LOAD FACTOR

Overhang member	K
Chain sprocket	1.00
Spur / helical gear	1.25
Vee belt pulley	1.50
Flat belt pulley	2.00

Axial Thrust

The bearings of the output shaft are capable of taking certain amount of externally applied axial thrust loads also. If the output shaft of gearbox / geared motor is to take axial thrust or combined radial overhang load and axial thrust load, refer the full details to us .

Data required for selection

For selecting the geared motor/ gear units, following information are required,

- Power to be transmitted or electric motor, Pm in KW
- Required output speed , n2 in r/min.
- Required ratio, iR and required input speed / motor speed , n1 in r/min
- Type of driven machine or nature of load on driven machine (i.e., uniform, moderate shock, heavy shock load, etc.)
- Duration of operation per day, hours
- Connection of output shaft (direct coupling, belt drive, chain / sprocket drive, gears etc.)
- Starting frequency (no. of starts per hour)
- Type of geared motor / gear unit required
- Mounting position

HELICAL GEAR BOX

Applications and Guidelines for Selection

TABLE 4-LOAD CLASSIFICATION

Driven Machine	Type of Load	Driven Machine	Type of Load	Driven Machine	Type of Load	Driven Machine	Type of Load
Agitators		Dry dock cranes		Starting table	M	Printing presses	
Pure liquids	U	Main hoist	-	Tipple-hoist conveyor	M	Pullers	
Liquids and solids	M	Auxiliary hoist	-	Tipple hoist drive	M	barge haul	H
Liquids-variable density	M	Boom luffing	-	Transfer conveyors	M	Pumps	
Blowers		Rotating, swing slew	-	Transfer rolls	M	centrifugal	U
Centrifugal	U	Tracking, drive wheels	-	Tray drive	M	proportioning	M
Lobe	M	Elevators		Trimmer feed	M	reciprocating	
Vane	U	Bucket – uniform load	U	waste conveyor	M	single acting, 3 or more cylinders	M
Brewing and distilling		Bucket – heavy load	M	Machine tools		double acting, 2 or more cylinders	M
Bottling machinery	U	Bucket - continuous	U	Bending roll	M	single acting, 1 or two cylinders	-
Brew kettles-continuous duty	U	Centrifugal discharges	U	Punch press-gear driven	H	double acting, single cylinders	-
Cookers - continuous duty	U	Escalators	U	Notching press-belt driven	-	rotary	
Mash tubs - continuous duty	U	Freight	M	Plate planers	H	gear type	U
Scale hopper frequent starts	M	Gravity discharges	U	Tapping machine	H	lobe, vane	U
Can filling machine	U	Man lifts -	-	Other machine tools main drives	M	Rubber and plastic industries	
Cane knives	M	Passenger lifts	-	Auxillary drives	U	Crackers	H
Car Dumpers	H	Fans		Metal mills		Laboratory equipment	M
Car pullers	M	Centrifugal	U	Draw bench carriage and main drive	M	Mixing mills	H
Clarifiers	U	Cooling towers	-	Punch-dryer and scrubber		Refiners	M
Classifiers	M	Induced draft	-	rolls-reversing	-	Rubbers	M
Clay working machinery		Forced draft	-	sliters	M	Rubber calendars	M
Brick press	H	Induced draft	M	Table conveyors non-reversing		Rubber mill-2 on line	U
Briquette machine	H	Large, mini etc.	M	group drives	H	Rubber mill 3 on line	M
Clay working machinery	M	Large, industrial	M	individual drives	H	Sheeter -	
Pug mill	M	Light smaller diameter	U	reversing	-	Tyre building machines	-
Compressors		Feeders		Wire drawing and flattening machine	M	Tyre and tube press openers	M
Centrifugal	U	Apron	M	Wire winding machine	M	Tubers and strainers	M
Lobe	M	Belt M		Mills-rotary type		Warming mills	M
Reciprocating		Disc	U	ball	M	Sand muller	
Multi : cylinder	M	Reciprocating	H	Cement kilns	M	Sewage disposal equipment	
Single- cylinder	H	Screw	M	Dryers and coolers	M	Bar screens	U
Conveyors – uniformly Loaded or fed		Food industry		Kilns – other than cement	M	Chemical feeders	U
Apron	U	Beef slicer	M	pebble	-	Collectors	U
Assembly	U	Cereal cooker	U	Rod		Dewatering screws	M
Belt	U	Dough mixer	M	plain	M	Scum breakers	M
Bucket	U	Meat grinders	M	Wedge bar	M	Slow or rapid mixers	M
Chain	U	Rice mill machinery	U	Tumbling barrels	H	Thickeners	M
Flight	U	Generators – hot welding	U	Mixers		Vacuum filter	M
Oven	U	Hammer Mills	H	Concrete mixers-continuous	M	Screens	
Screw	U	Hoists		Constant density	U	Air washing	U
Conveyors – heavy duty		Heavy duty	H	Variable density	M	Rotary- stone or gravel	M
Not uniform fed		Medium duty	M	Oil industry		Travelling	U
Apron	M	Skip hoist	M	Chillers	M	Water intake	M
Assembly	M	Laundry washers reversing	M	Oil well pumping	-	Slab pushers	M
Belt	M	Laundry tumblers	M	Paraffin filter press	M	Steering gear	-
Bucket	M	Line shafts		Rotary kilns	M	Stockers	U
Chain	M	Driving processing equipment	U	Paper Mills		Sugar industry	
Flight	M	light	U	Agitators (mixers)	M	Cane knives	M
Live roll	-	Other ling shafts	U	Barker- auxiliaries- hydraulic	M	Crushers	M
Oven	M	Lumber industry		Barker –mechanical	H	Mills	M
Reciprocating	H	Barkers - hydraulic-mechanical	M	Barker –drum	H	Textile industry	
Screw	M	Burner conveyor	M	Beater and pulper	U	Batchers	M
Shaker	H	Burner conveyor	H	Bleacher	M	calendars	M
Cranes		Chain transfer	H	Calenders	M	Cards	M
Main hoists	U	Craneway transfer	H	Calenders - super	H	Dry cans	M
Bridge travel	-	De-braking drum	H	Converting machine	-	Dryers	M
Trolley travel	-	Edger feed	M	Expect cutters – platers	M	Dyeing machinery	M
Crusher		Gang feed	M	Conveyors	U	Knitting machines	-
Ore	H	Gang feed	M	Couch	H	Looms	M
Stone	H	Live rolls	H	Cutters – platers	H	Mangles	M
Sugar	M	Log deck	H	Cylinders	M	Nappers	M
Dredges		Log haul-incline	H	Dryers	M	Pads	M
Cable reels	M	Log haul-well type	H	Felt stretcher	M	Range drive	-
Conveyors	M	Log tuming device	H	Felt whipper	H	Slashers	M
Cutter head drives	H	Main log conveyor	M	Jordans	M	Soapers	M
Jig drives	H	Off bearing rolls	H	Log haul	H	Spinners	M
Maneuvering winches	M	Planer feed chains	M	Presses	M	Tenter frames	M
Pumps	M	Planer floor chains	M	Pulp machine reel	M	Washers	M
Screen drive	H	Planer tilting hoist	M	Stock chest	M	Winders	M
Stackers	M	Re-saw merry-go-round conveyor	M	suction roll	M	Windlass	
Utility winches	M	Roll cases	H	washers and thickeners	M	Medical Equipments	
		Slab conveyor	H	winders	M	Waste Shredder	
		Small waste conveyor-belt	U			Ventilator	
		Small waste conveyor-chain	M				

U - Uniform Load
* - Refer to

M - Moderate Shock Load

H - Heavy Shock Load

HELICAL GEAR BOX

Guideline for selection

Example of Selection

Requirement of helical geared unit, for

Electric motor power, P_m	-	1.1 kW
Output Speed, n_2	-	100 r/min (or $iR = 14.4$, $n_1 = 1440$ r/min for requirement of gear unit)
No of starts per hour	-	10
Duration of service per day	-	24 hours
Driven machine	-	Individual drives of non reversing table conveyors in Rolling Mill
Connection of output shaft	-	through chain sprocket drive sprocket dia=110 mm
Type	-	Base (Foot) mounted
Mounting	-	Horizontal shaft, foot mounting, B3

Step 1

From Table 4, the type of load is found to be H for the above driven equipment Mechanical Service factor f_1 , as per Table 1 is 2.00 for type of load H and 24 hours operation per day. For 10 starts per hour, factor f_2 is 1.06 (from Table 2) Thus, service factor, required = $2.00 \times 1.06 = 2.12$

Step 2

Referring to power rating table against 1.1kW motor power and looking for the listed output speed, n_2 , near to the Required value of 100 r/min,

We get Geared unit size DFK 142/13.7/200-24 with $n_2 = 103$ r/min, with $f_b = 1.9$ which is less than the Required f_b of 2.12.

Next, we can select size DFK 162/13.4/200-24 having $n_2 = 105$ r/min with the f_b available is 2.6 which is safe enough.

Step 3

Check for suitability of overhung load:

$$F = \frac{1.1 \times 9550 \times 1.0 \times 2000}{100 \times 110} = 1910\text{N}$$

Allowable F_{Ra} from Power rating table for selected size, DFK 162/13.4/200-24 is 7900 N.

Thus, condition $F < F_{Ra}$ is satisfied.

Note: The calculated overhung load $F = 1910$ N is considered acting at the middle of output shaft

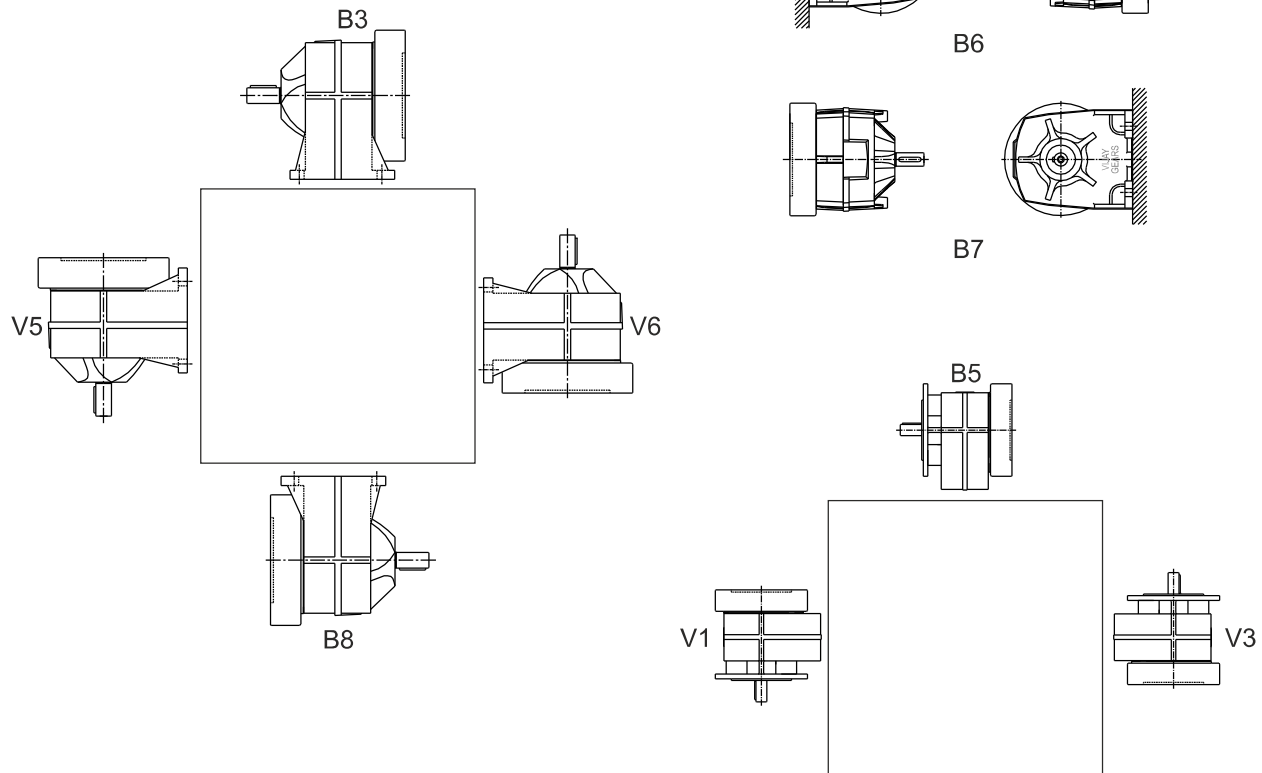
Extension length, $l = 100$ mm

The Size of Geared unit to be ordered is, DFK 162/13.4/200-24, 105 r/min, $iR = 13.4$ fitted with 1.1 kW, Mounting Position of Geared Motor – B3, positional details.

We shall be pleased to advice on drives involving special operating condition / details, namely,

- Short time or intermittent operation
- Application involving Starts / Stops / Reversals
- Applications involving reverse current braking (plugging)
- Abnormal ambient temperature
- Variable motor speed
- Geared motor using other special motors like flame proof motor, brake motor using VFD etc.,

Same Mounting Positions for D & B Series



Lubrication and Assembly Position

Series "D" & Series "B"

These reducers are supplied with lubricant for assembly position **B3**. In the event of assembly in any other position, the difference should be adjusted as shown in table No 5. The oil supplied is long-life and is that indicated on the **NAME PLATE**. Should any oil other than that indicated on the **NAME PLATE** be used, the lubricant contained in the gear box should be drained and the gear box filled to level with the chosen type of oil (Quantity indicated in table No 5). **Do not mix lubricants of different brand names.**

MAINTENANCE

After 500 hours of operation empty the lubricant and refill the gearbox up to the level. Once the running in period is over, check the condition of lubricant after 12000 hours of working (approx. 30 months working 14 hours a day) (**in case of synthetic oil**) or 25000 hours of working (approx. 60 months working 14 hours a day) (**in case of mineral oil**) and replace when necessary.

Table No.5 Series "D & B" Approximate oil quantity in litres, depending on the type and mounting position of the geared units

Working position			
Type	Quantity (Litres)	Type	Quantity (Litres)
D - 102	0.5	B - 20	0.5
D - 128	1.0	B - 25	1.0
D - 142	1.5	B - 30	1.5
D - 162	2.0	B - 35	1.5
D - 185	3.0	B - 45	2.4
D - 160	3.0	B - 55	3.0

The same quantity in all positions

Lubricants CLP as per DIN 51517 , Part 3

TABLE NO. 6 RECOMMENDED OIL VISCOSITY

Oil type	Operating Temperature	Ambient temperature°C	Viscosity (mm ² /s(cSt)at40°C)	
			Input speed: n ₁	
			500 to 1000 1/min	1000 to 1500 1/min
		-10 - +5°C	VG 100	VG 100
FL BAKU TO 4/50	-5 - +70°C	0 - +40°C	VG 320	VG 220
FL GEARSYNT 320	-25-+150°C	+35-+60°C	VG 460	VG 320

*For in put speeds n₁ < 500 1/min please contact. Permissible deviation VG= ± 10%
The maximum working temperature of a lubricant is approximately 95°C,
above which its characteristics may vary substantially.

TABLE NO. 7 RECOMMENDED SYNTHETIC OILS

Viscosity mm ² /s (cSt) at 40°C	FL IBERIA	BESLUX SINCART	Mobil SHC	SHC XMP	Tivela Oil	Engranajes HPS	Klübersynth GH6	ARAL Degol	TRIBOL
VG 320	FL GEARSYNT 320	320W	632	632	WB	320	320		
VG 220	FL GEARSYNT 220	220W	630	630	WB	220	220	GS 220	800/220
VG 150	FL GEARSYNT 150	150W	629	629	WA	150	150		
VG 100	FL GEARSYNT 100	100W	-	--	WA	-	100		

TABLE NO. 8 RECOMMENDED MINERAL OILS

Viscosity mm ² /s (cSt) at 40°C	TRAXOL	FL IBERIA	Extra Gear	BP Energol	SPARTAN	Mobilgear	Shell Omala Oil	Engranajes HP	Klüberoil GEM 1	Super Tauro	ARAL Degol	Castrol Alpha	FALCON	TRIBOL
VG 320	G - 32	-	320	GR-XP 320	EP 320	632	320	320	320	320	BG 320	MW 320	CLP 320	1100 / 320
VG 220	-	FL BAKU TO 4/50	220	GR-XP 220	EP 220	630	220	220	220	220	BG 220	MW 220	CLP 220	1100 / 220
VG 150	-	-	150	GR-XP 150	EP 150	629	150	150	150	150	BG 150	MW 150	CLP 150	1100 / 150
VG 100	-	-	100	GR-XP 100	EP 100	627	100	100	100	100	BG 100	MW 100	CLP 100	1100 / 100

LUBRICANTS FOR THE FOODSTUFFS AND PHARMACEUTICALS INDUSTRY

The lubricants supplied with the reducers are as per USDA-H2 standard, which means that they may be recommended for the foodstuffs and pharmaceuticals industry, provided that there is no possible contact with food. We can supply, against order, reducers with lubricants which are as per USDA-H1 standard and can be used in foodstuffs and pharmaceuticals industry in instances where, for technical reasons, contact between foodstuffs and the lubricant may occasionally be unavoidable.

D S E



D
SERIES
GEARBOX

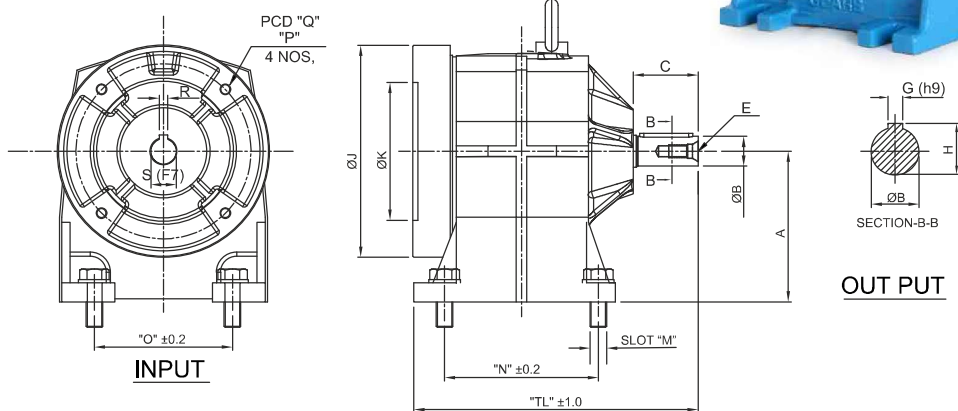
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HELICAL GEAR BOX

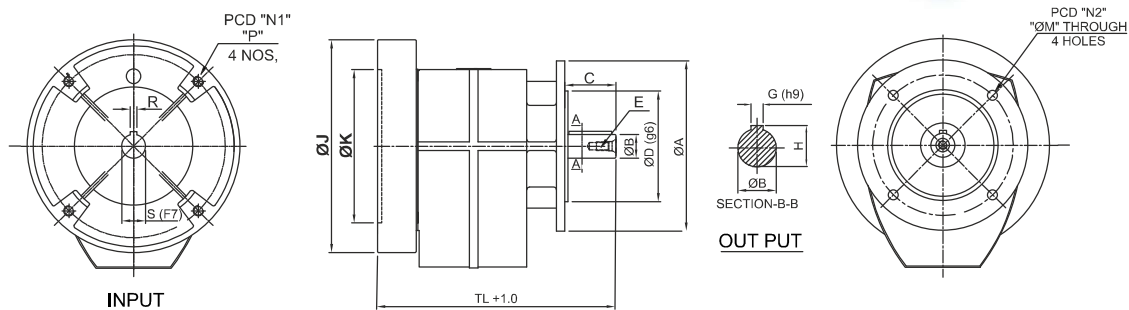


D Series : Model DFK



MODEL NO	A	B (h6)	C	E	G (h9)	H	ØJ	Ø K(F8)	SLOT M	N	O	P	Q	R	S (F7)	TL	NET WT.
DFK-102	102	19	38	M6X1P	6	21.5	160	110	11	105	100	M8X1.25	130	5	14	186	8 kg
DFK-128	128	24	48	M8X1.25P	8	27	160/200	110/130	14	126	118	M8X1.25 M10X1.5	130/165	5/6	14/19/24	242	17 kg
DFK-142	142	28	58	M10X1.5P	8	31	200/250	130/180	14	145	130	M10X1.5 M12X1.75	165/215	6/8	19/24/28	268	21 kg
DFK-162	162	38	78	M12X1.75P	10	41	200/250	130/180	14	200	160	M10X1.5 M12X1.75P	165/215	6/8	24/28	360	34 kg
DFK-185	185	48	108	M16X2P	14	51.5	250/300	180/230	18	207	185	M12X1.75	215/265	8/10	28/38	426	51 kg
DFK-160	160	48	112	M16X2P	14	51.5	250/300	180/230	18	270	195	M12X1.75	215/265	8/10	28/38	431	62 kg

D Series : Model DRK



MODEL NO	ØA	ØB (h6)	C	ØD	E	G (h9)	H	ØJ	Ø K(F8)	ØM	N1	P	N2	R	S (F7)	TL	NET WT.
DRK-102	160	19	40	110	M6X1P	6	21.5	160	110	9	130	M8X1.25	130	5	14	186	9 kg
DRK-128	200	24	50	130	M8X1.25P	8	27	160/200	110/130	1.5	130/165	M8X1.25 M10X1.5	165	5/6	14/19/24	242	18 kg
DRK-142	200	28	60	130	M10X1.5P	8	31	200/250	130/180	11.5	165/215	M10X1.5 M12X1.75	165	6/8	19/24/28	268	22 kg
DRK-162	250	38	82	180	M10X1.75P	10	41	200/250/300	130/230	14	165/215	M10X1.5 M12X1.75P	165/215	6/8	24/28/38	360	36 kg

HELICAL GEAR BOX

Power Rating Table

D-102						D-102					
INPUT POWER 0.37 KW / 0.5 HP/71						INPUT POWER 0.55 KW / 0.75 HP/80					
n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_s (Service Factor)	Model	n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_s (Service Factor)	Model
39	82	36.1	3850	1.1	DFK102/36.1/160-14 DRK102/36.1/160-14	89	55	15.7	2850	1.4	DFK102/15.7/200-19 DRK102/15.7/200-19
45	75	31.2	3300	1.3	DFK102/31.2/160-14 DRK102/31.2/160-14	104	47	13.5	2740	1.5	DFK102/13.5/200-19 DRK102/13.5/200-19
53	68	26.7	3170	1.5	DFK102/26.7/160-14 DRK102/26.7/160-14	128	41	11.0	2690	1.8	DFK102/11.0/200-19 DRK102/11.0/200-19
59	57	24.1	3050	1.6	DFK102/24.1/160-14 DRK102/24.1/160-14	148	39	9.5	2620	2.0	DFK102/9.5/200-19 DRK102/9.5/200-19
79	44	17.8	2930	1.8	DFK102/17.8/160-14 DRK102/17.8/160-14	178	29	7.9	2530	2.2	DFK102/7.9/200-19 DRK102/7.9/200-19
89	41	15.7	2850	2.0	DFK102/15.7/160-14 DRK102/15.7/160-14	204	25	6.9	2440	2.4	DFK102/6.9/200-19 DRK102/6.9/200-19
104	35	13.5	2740	2.2	DFK102/13.5/160-14 DRK102/13.5/160-14	252	20	5.6	2380	3.2	DFK102/5.6/200-19 DRK102/5.6/200-19
128	25	11.0	2690	2.8	DFK102/11.0/160-14 DRK102/11.0/160-14	300	17	4.7	2310	3.7	DFK102/4.7/200-19 DRK102/4.7/200-19
148	24	9.5	2620	3.1	DFK102/9.5/160-14 DRK102/9.5/160-14	344	15	4.1	2280	3.9	DFK102/4.1/200-19 DRK102/4.1/200-19
178	19	7.9	2530	3.3	DFK102/7.9/160-14 DRK102/7.9/160-14						
204	17	6.9	2440	3.5	DFK102/6.9/160-14 DRK102/6.9/160-14						
252	13	5.6	2380	4.3	DFK102/5.6/160-14 DRK102/5.6/160-14						
300	11	4.7	2310	4.9	DFK102/4.7/160-14 DRK102/4.7/160-14						
344	10	4.1	2280	5.2	DFK102/4.1/160-14 DRK102/4.1/160-14						

INPUT POWER 0.75 KW / 1.0 HP/80											
n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_s (Service Factor)	Model						
89	75	15.7	2850	1.0	DFK102/15.7/200-19 DRK102/15.7/200-19						
104	65	13.5	2740	1.1	DFK102/13.5/200-19 DRK102/13.5/200-19						
128	55	11.0	2690	1.4	DFK102/11.0/200-19 DRK102/11.0/200-19						
148	48	9.5	2620	1.5	DFK102/9.5/200-19 DRK102/9.5/200-19						
178	38	7.9	2530	1.6	DFK102/7.9/200-19 DRK102/7.9/200-19						
204	34	6.9	2440	1.7	DFK102/6.9/200-19 DRK102/6.9/200-19						
252	26	5.6	2380	2.2	DFK102/5.6/200-19 DRK102/5.6/200-19						
301	22	4.7	2310	2.5	DFK102/4.7/200-19 DRK102/4.7/200-19						
344	20	4.1	2280	2.6	DFK102/4.1/200-19 DRK102/4.1/200-19						

NOTE : All above ratio are also available in Solid Input Shaft

HELICAL GEAR BOX

Power Rating Table

D-128

INPUT POWER 0.37 KW / 0.5 HP/71						INPUT POWER 0.75 KW / 1.0 HP/80					
n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model	n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model
20	163	68	5380	1.1	DFK128/68.0/160-14 DRK128/68.0/160-14	35	180	40.8	4200	1.0	DFK128/40.8/200-19 DRK128/40.8/200-19
27	105	51.8	5100	1.4	DFK128/51.8/160-14 DRK128/51.8/160-14	41	169	34.1	4250	1.2	DFK128/34.1/200-19 DRK128/34.1/200-19
35	90	40.8	4950	1.5	DFK128/40.8/160-14 DRK128/40.8/160-14	54	129	26.1	4100	1.2	DFK128/26.1/200-19 DRK128/26.1/200-19
41	70	34.1	3340	1.6	DFK128/34.1/160-14 DRK128/34.1/160-14	65	107	21.7	3900	1.3	DFK128/21.7/200-19 DRK128/21.7/200-19
54	65	26.1	4500	1.7	DFK128/26.1/160-14 DRK128/26.1/160-14	77	91	18.4	3800	1.5	DFK128/18.4/200-19 DRK128/18.4/200-19
65	54	21.7	4400	1.7	DFK128/21.7/160-14 DRK128/21.7/160-14	89	78	15.8	3720	1.6	DFK128/15.8/200-19 DRK128/15.8/200-19
77	46	18.4	4100	1.8	DFK128/18.4/160-14 DRK128/18.4/160-14	102	68	13.8	3700	1.7	DFK128/13.8/200-19 DRK128/13.8/200-19
89	39	15.8	3980	1.9	DFK128/15.8/160-14 DRK128/15.8/160-14	128	57	11.0	3660	2.2	DFK128/11.0/200-19 DRK128/11.0/200-19
102	35	13.8	3900	2.0	DFK128/13.8/160-14 DRK128/13.8/160-14	152	46	9.3	3550	2.5	DFK128/9.30/200-19 DRK128/9.30/200-19
128	27	11.0	3830	3.8	DFK128/11.0/160-14 DRK128/11.0/160-14	176	40	8.0	3500	2.7	DFK128/8.00/200-19 DRK128/8.00/200-19
						201	34	7.0	3400	3.0	DFK128/7.00/200-19 DRK128/7.00/200-19
						243	28	5.8	3250	3.7	DFK128/5.80/200-19 DRK128/5.80/200-19
						288	25	4.9	3350	4.0	DFK128/4.90/200-19 DRK128/4.90/200-19
						353	20	4.0	3000	4.6	DFK128/4.00/200-19 DRK128/4.00/200-19
						403	17	3.5	3100	5.0	DFK128/3.50/200-19 DRK128/3.50/200-19

INPUT POWER 1.10 KW / 1.5 HP/90						INPUT POWER 1.50 KW / 2.0 HP/90					
n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model	n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model
35	326	40.8	3300	1.0	DFK128/40.8/200-24 DRK128/40.8/200-24	35	444	40.8	2400	1.0	DFK128/40.8/200-24 DRK128/40.8/200-24
41	249	34.1	3350	1.1	DFK128/34.1/200-24 DRK128/34.1/200-24	41	340	34.1	2450	1.0	DFK128/34.1/200-24 DRK128/34.1/200-24
54	190	26.1	3400	1.1	DFK128/26.1/200-24 DRK128/26.1/200-24	54	259	26.1	2500	1.0	DFK128/26.1/200-24 DRK128/26.1/200-24
65	157	21.7	3480	1.2	DFK128/21.7/200-24 DRK128/21.7/200-24	65	214	21.7	2600	1.0	DFK128/21.7/200-24 DRK128/21.7/200-24
77	133	18.4	3500	1.3	DFK128/18.4/200-24 DRK128/18.4/200-24	77	180	18.4	2150	1.0	DFK128/18.4/200-24 DRK128/18.4/200-24
89	114	15.8	3450	1.4	DFK128/15.8/200-24 DRK128/15.8/200-24	89	156	15.8	2450	1.1	DFK128/15.8/200-24 DRK128/15.8/200-24
102	100	13.8	3400	1.5	DFK128/13.8/200-24 DRK128/13.8/200-24	102	136	13.8	2700	1.1	DFK128/13.8/200-24 DRK128/13.8/200-24
128	83	11.0	3500	1.6	DFK128/11.0/200-24 DRK128/11.0/200-24	128	113	11.0	3300	1.2	DFK128/11.0/200-24 DRK128/11.0/200-24
152	70	9.3	3400	1.7	DFK128/9.30/200-24 DRK128/9.30/200-24	152	92	9.3	3250	1.3	DFK128/9.30/200-24 DRK128/9.30/200-24
176	59	8.0	3400	1.9	DFK128/8.00/200-24 DRK128/8.00/200-24	176	80	8.0	3200	1.4	DFK128/8.00/200-24 DRK128/8.00/200-24
201	50	7.0	3320	2.0	DFK128/7.00/200-24 DRK128/7.00/200-24	201	68	7.0	3200	1.5	DFK128/7.00/200-24 DRK128/7.00/200-24
243	41	5.8	3200	2.5	DFK128/5.80/200-24 DRK128/5.80/200-24	243	55	5.8	3120	1.8	DFK128/5.80/200-24 DRK128/5.80/200-24
288	36	4.9	3136	2.9	DFK128/4.90/200-24 DRK128/4.90/200-24	288	46	4.9	3000	2.2	DFK128/4.90/200-24 DRK128/4.90/200-24
353	32	4.0	3030	3.1	DFK128/4.00/200-24 DRK128/4.00/200-24	353	40	4.0	2900	2.2	DFK128/4.00/200-24 DRK128/4.00/200-24
403	26	3.5	3000	3.5	DFK128/3.50/200-24 DRK128/3.50/200-24	403	34	3.5	2700	2.5	DFK128/3.50/200-24 DRK128/3.50/200-24

HELICAL GEAR BOX

Power Rating Table

D-142

INPUT POWER 0.75 KW / 1.0 HP/80						INPUT POWER 1.10 KW / 1.5 HP/90					
n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model	n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model
21	295	66.8	6700	1.0	DFK142/66.8/200-19 DRK142/66.8/200-19	35	328	40.8	5600	1.0	DFK142/40.8/200-24 DRK142/40.8/200-24
28	240	50.6	6400	1.1	DFK142/50.6/200-19 DRK142/50.6/200-19	42	260	33.8	5350	1.3	DFK142/33.8/200-24 DRK142/33.8/200-24
35	220	40.8	6000	1.3	DFK142/40.8/200-19 DRK142/40.8/200-19	54	190	26.3	5180	1.5	DFK142/26.3/200-24 DRK142/26.3/200-24
42	178	33.8	5800	1.6	DFK142/33.8/200-19 DRK142/33.8/200-19	65	158	21.8	5050	1.6	DFK142/21.8/200-24 DRK142/21.8/200-24
54	130	26.3	5450	1.6	DFK142/26.3/200-19 DRK142/26.3/200-19	77	134	18.4	4850	1.7	DFK142/18.4/200-24 DRK142/18.4/200-24
65	108	21.8	5350	1.7	DFK142/21.8/200-19 DRK142/21.8/200-19	94	109	15.0	4900	1.8	DFK142/15.0/200-24 DRK142/15.0/200-24
77	90	18.4	5000	1.8	DFK142/18.4/200-19 DRK142/18.4/200-19	103	99	13.7	4820	1.9	DFK142/13.7/200-24 DRK142/13.7/200-24
94	80	15.0	4900	1.9	DFK142/15.0/200-19 DRK142/15.0/200-19	126	86	11.2	4750	2.3	DFK142/11.2/200-24 DRK142/11.2/200-24
103	67	13.7	4820	2.0	DFK142/13.7/200-19 DRK142/13.7/200-19	148	72	9.5	4600	2.7	DFK142/9.5/200-24 DRK142/9.5/200-24
126	55	11.2	4750	2.4	DFK142/11.2/200-19 DRK142/11.2/200-19	174	59	8.1	4500	2.8	DFK142/8.1/200-24 DRK142/8.1/200-24
148	52	9.5	4700	3.0	DFK142/9.5/200-19 DRK142/9.5/200-19	201	52	7.0	4450	3.0	DFK142/7.0/200-24 DRK142/7.0/200-24
174	40	8.1	4600	3.2	DFK142/8.1/200-19 DRK142/8.1/200-19	243	42	5.8	4300	3.9	DFK142/5.8/200-24 DRK142/5.8/200-24
201	35	7.0	4600	3.5	DFK142/7.0/200-19 DRK142/7.0/200-19	294	38	4.8	4200	4.5	DFK142/4.8/200-24 DRK142/4.8/200-24
243	29	5.8	4400	5.2	DFK142/5.8/200-19 DRK142/5.8/200-19	336	32	4.2	4150	4.8	DFK142/4.2/200-24 DRK142/4.2/200-24
294	24	4.8	4300	6.0	DFK142/4.8/200-19 DRK142/4.8/200-19	389	26	3.6	4100	5.5	DFK142/3.6/200-24 DRK142/3.6/200-24
336	22	4.2	4100	7.3	DFK142/4.2/200-19 DRK142/4.2/200-19						
389	19	3.6	3900	7.8	DFK142/3.6/200-19 DRK142/3.6/200-19						

INPUT POWER 1.50 KW / 2.0 HP/90						INPUT POWER 2.20 KW / 3.0 HP/100					
n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model	n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model
42	360	33.8	4200	1.2	DFK142/33.8/200-24 DRK142/33.8/200-24	126	170	11.2	4210	1.1	DFK142/11.2/250-28 DRK142/11.2/250-28
54	259	26.3	3900	1.2	DFK142/26.3/200-24 DRK142/26.3/200-24	148	144	9.5	4150	1.4	DFK142/9.5/250-28 DRK142/9.5/250-28
65	215	21.8	4300	1.2	DFK142/21.8/200-24 DRK142/21.8/200-24	174	117	8.1	4100	1.5	DFK142/8.1/250-28 DRK142/8.1/250-28
77	182	18.4	4400	1.3	DFK142/18.4/200-24 DRK142/18.4/200-24	201	104	7.0	4060	1.6	DFK142/7.0/250-28 DRK142/7.0/250-28
94	148	15.0	4500	1.5	DFK142/15.0/200-24 DRK142/15.0/200-24	243	81	5.8	4000	2.0	DFK142/5.8/250-28 DRK142/5.8/250-28
103	135	13.7	4600	1.6	DFK142/13.7/200-24 DRK142/13.7/200-24	294	70	4.8	3900	2.3	DFK142/4.8/250-28 DRK142/4.8/250-28
126	116	11.2	4550	1.7	DFK142/11.2/200-24 DRK142/11.2/200-24	392	52	3.6	3750	2.7	DFK142/3.6/250-28 DRK142/3.6/250-28
148	98	9.5	4450	2.0	DFK142/9.5/200-24 DRK142/9.5/200-24						
174	80	8.1	4400	2.1	DFK142/8.1/200-24 DRK142/8.1/200-24						
201	71	7.0	4340	2.2	DFK142/7.0/200-24 DRK142/7.0/200-24						
243	55	5.8	4200	2.9	DFK142/5.8/200-24 DRK142/5.8/200-24						
294	48	4.8	4100	3.2	DFK142/4.8/200-24 DRK142/4.8/200-24						
336	40	4.2	4000	3.6	DFK142/4.2/200-24 DRK142/4.2/200-24						
389	35	3.6	3950	4.0	DFK142/3.6/200-24 DRK142/3.6/200-24						

HELICAL GEAR BOX

Power Rating Table

DFK-185

INPUT POWER 3.70 KW / 5.0 HP/112

n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model
32	1083	44.6	3400	1.0	DFK185/44.6/250-28
44	850	32.3	4050	1.1	DFK185/32.3/250-28
51	710	27.5	6800	1.2	DFK185/27.5/250-28
59	612	23.7	9200	1.4	DFK185/23.7/250-28
73	505	19.4	10100	1.6	DFK185/19.4/250-28
98	375	14.4	10700	2.1	DFK185/14.4/250-28
134	270	10.5	11200	2.6	DFK185/10.5/250-28

INPUT POWER 5.50 KW / 7.5 HP/132

n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model
51	993	27.5	6000	1.0	DFK185/27.5/300-38
59	850	23.7	6500	1.1	DFK185/23.7/300-38
73	675	19.4	6800	1.3	DFK185/19.4/300-38
98	513	14.4	8000	1.6	DFK185/14.4/300-38
134	370	10.5	9800	1.8	DFK185/10.5/300-38
155	305	9.1	10700	2.0	DFK185/9.10/300-38
207	230	6.8	10900	2.5	DFK185/6.80/300-38
288	170	4.9	11000	2.9	DFK185/4.90/300-38
371	137	3.8	10100	3.8	DFK185/3.80/300-38

INPUT POWER 7.5 KW / 10.0 HP/132

n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model
73	951	19.4	6300	1.0	DFK185/19.4/300-38
98	706	14.4	7800	1.2	DFK185/14.4/300-38
134	515	10.5	8500	1.5	DFK185/10.5/300-38
155	446	9.10	9300	1.7	DFK185/9.10/300-38
207	333	6.80	9800	2.0	DFK185/6.80/300-38
288	240	4.90	9900	2.3	DFK185/4.90/300-38
371	186	3.80	10000	3.0	DFK185/3.80/300-38

NOTE : All above ratio are also available in Solid Input Shaft

THREE PHASE INDUCTION MOTOR



Three Phase Induction Motor

Power(KW)	Frame Size	Pole	RPM	Efficiency	Mounting
0.75	80	4	1410	IE 2	Flange
1.1	90	4	1410	IE 2	Flange

BSE



B SERIES GEARBOX

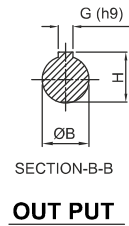
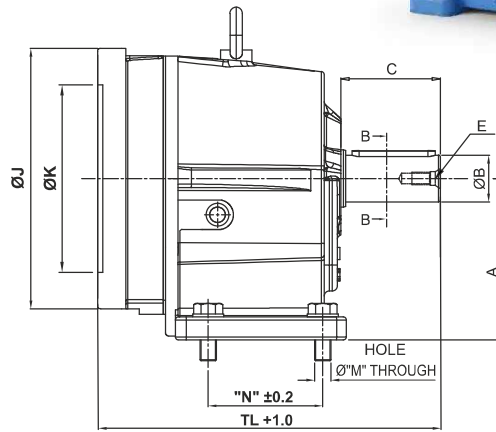
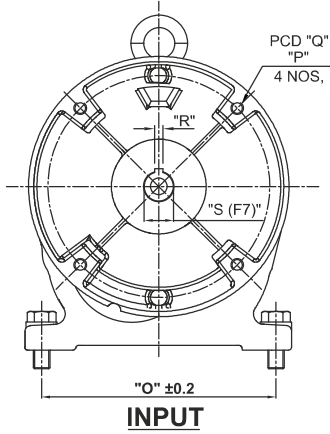
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HELICAL GEAR BOX

B Series :

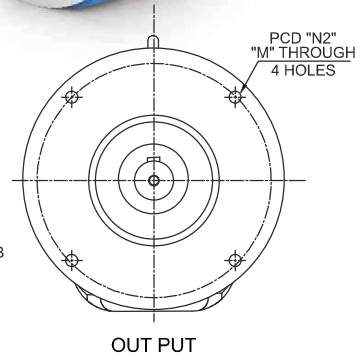
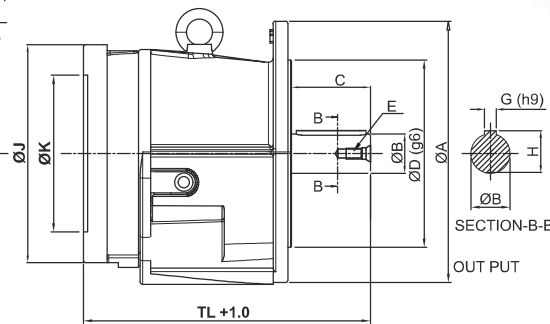
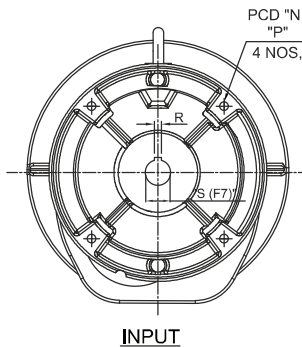
Model BFK



MODEL NO	A	ØB (h6)	C	E	G (h9)	H	ØJ	Ø K(F8)	HOLE ØM	N	O	P	Q	S (F7)	R	TL +0.1	NET WT.
BFK-20	100	20	40	M6X1P	6	21.5	160	110	11	60	130	M8	130	14	5	179	10.5 kg
BFK-25	110	25	50	M8X1.25P	8	28	(160) 200	110/130	11	70	160	M8/M10	130/165	19/24	5/6	243	17.7 kg
BFK-30	130	30	60	M10X1.5P	8	33	(160) 200	110/130	14	105	180	M8/M10	130/165	19/24	5/6	280	28.2 kg
BFK-35	130	35	80	M10X1.5P	10	38	(160) 200/250	110/130/180	14	105	180	M8/M10/M12	130/165/215	19,24/28	6/8/10	315	31.1 kg
BFK-45	155	45	90	M12X1.75P	14	48.8	(200)/250/300	180/230	18	110	225	M10/M12	215/265	24/28/38	8/10	329	43.4 kg
BFK-55	175	55	110	M16X2P	16	59.3	(250)/300/350	180/230/250	18	145	250	M12/M12/M16	215/265/300	28/38/42,48	8/10/12,14	385	59.1 kg
BFK-60	210	60	120	M16X2P	18	64.4	(250)/300/350	180/230/250	22	165	300	M12/M12/M16	215/265/300	28/38/42,48	8/10/12,14	440	99 kg
BFK-80	250	80	140	M20X2.5P	22	85.5	(300)/350/400	230/250/300	26	210	370	M12/M12/M16	265/300/350	38/42,48/55	10/12,14/16	560	162 kg
BFK-90	300	90	170	M20X2.5P	25	95.4	(350)/400/450	250/300/350	33	250	440	M16/M18	300/350/400	42,48/55/60	12,14/16/18	675.5	258 kg

B Series :

Model BRK



MODEL NO	ØA	ØB (h6)	C	ØD	E	G (h9)	H	ØJ	Ø K(F8)	ØM	N1	P	N2	R	S (F7)	TL	NET WT.
BRK-20	160	20	40	110	M6X1P	6	22.5	160	110	9	130	M8X1.25	130	5	14	179	9.2 kg
BRK-25	200	25	50	130	M8X1.25P	8	28	200	130	11	165	M8X1.25	165	6	19/24	243	18.3 kg
BRK-30	250	30	60	180	M10X1.5P	8	33	200	130/180	11	165	M10X1.5	165	8	19/24	280	22.5 kg
BRK-35	250	35	80	180	M10X1.5P	10	38	200/250	180/230	13	165/215	M10X1.5 M12X1.75P	215	8	24/28	315	37 kg
BRK-45	300	45	90	230	M12X1.75P	14	48.8	250/300	180/230	13	215/265	M12X1.75	265	8/10	28/38	329	45.1 kg
BRK-55	300	55	110	230	M16X2P	16	59.3	250/300	180/230	13	215/265	M12X1.75	265	8/10	28/38	385	66.5 kg

HELICAL GEAR BOX

Power Rating Table

B-20						B-20					
INPUT POWER 0.37 KW / 0.5 HP/71						INPUT POWER 0.55 KW / 0.75 HP/80					
n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model	n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model
39	82	36.1	3850	1.1	BFK20/36.1/160-14 BRK20/36.1/160-14	89	54	15.7	2850	1.3	BFK20/15.7/200-19 BRK20/15.7/200-19
45	75	31.2	3300	1.3	BFK20/31.2/160-14 BRK20/31.2/160-14	104	47	13.5	2740	1.5	BFK20/13.5/200-19 BRK20/13.5/200-19
53	68	26.7	3170	1.5	BFK20/26.7/160-14 BRK20/26.7/160-14	128	41	11.0	2690	1.8	BFK20/11.0/200-19 BRK20/11.0/200-19
59	57	24.1	3050	1.6	BFK20/24.1/160-14 BRK20/24.1/160-14	148	39	9.5	2620	2.0	BFK20/9.50/200-19 BRK20/9.50/200-19
79	44	17.8	2930	1.8	BFK20/17.8/160-14 BRK20/17.8/160-14	178	29	7.9	2530	2.2	BFK20/7.90/200-19 BRK20/7.90/200-19
89	39	15.7	2850	2.0	BFK20/15.7/160-14 BRK20/15.7/160-14	204	25	6.9	2440	2.4	BFK20/6.90/200-19 BRK20/6.90/200-19
104	35	13.5	2740	2.2	BFK20/13.5/160-14 BRK20/13.5/160-14	252	20	5.6	2380	3.2	BFK20/5.60/200-19 BRK20/5.60/200-19
128	25	11.0	2690	2.8	BFK20/11.0/160-14 BRK20/11.0/160-14	300	17	4.7	2310	3.7	BFK20/4.70/200-19 BRK20/4.70/200-19
148	24	9.5	2620	3.1	BFK20/9.50/160-14 BRK20/9.50/160-14	344	15	4.1	2280	3.9	BFK20/4.10/200-19 BRK20/4.10/200-19
178	19	7.9	2530	3.3	BFK20/7.90/160-14 BRK20/7.90/160-14						
204	17	6.9	2440	3.5	BFK20/6.90/160-14 BRK20/6.90/160-14						
252	13	5.6	2380	4.3	BFK20/5.60/160-14 BRK20/5.60/160-14						
300	11	4.7	2310	4.9	BFK20/4.70/160-14 BRK20/4.70/160-14						
344	10	4.1	2280	5.2	BFK20/4.10/160-14 BRK20/4.10/160-14						

INPUT POWER 0.75 KW / 1.0 HP/80											
n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model						
89	75	15.7	2850	1.0	BFK20/15.7/200-19 BRK20/15.7/200-19						
104	65	13.5	2740	1.1	BFK20/13.5/200-19 BRK20/13.5/200-19						
128	55	11.0	2690	1.4	BFK20/11.0/200-19 BRK20/11.0/200-19						
148	48	9.5	2620	1.5	BFK20/9.50/200-19 BRK20/9.50/200-19						
178	38	7.9	2530	1.6	BFK20/7.90/200-19 BRK20/7.90/200-19						
204	34	6.9	2440	1.7	BFK20/6.90/200-19 BRK20/6.90/200-19						
252	26	5.6	2380	2.2	BFK20/5.60/200-19 BRK20/5.60/200-19						
301	22	4.7	2310	2.5	BFK20/4.70/200-19 BRK20/4.70/200-19						
344	20	4.1	2280	2.6	BFK20/4.10/200-19 BRK20/4.10/200-19						

NOTE : All above ratio are also available in Solid Input Shaft

HELICAL GEAR BOX

Power Rating Table

B-25											
INPUT POWER 0.75 KW / 1.0 HP/80						INPUT POWER 1.50 KW / 2.0 HP/90					
n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model	n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model
41	168	34.2	4240	1.1	BFK25/34.2/200-19 BRK25/34.2/200-19	73	186	19.0	3050	1.0	BFK25/19.0/200-24 BRK25/19.0/200-24
51	135	27.5	4270	1.3	BFK25/27.5/200-19 BRK25/27.5/200-19	86	159	16.2	2940	1.0	BFK25/16.2/200-24 BRK25/16.2/200-24
62	111	22.7	4100	1.6	BFK25/22.7/200-19 BRK25/22.7/200-19	99	138	14.1	2880	1.1	BFK25/14.1/200-24 BRK25/14.1/200-24
73	93	19.0	3920	1.9	BFK25/19.0/200-19 BRK25/19.0/200-19	118	116	11.8	2830	1.3	BFK25/11.8/200-24 BRK25/11.8/200-24
86	79	16.2	3810	2.2	BFK25/16.2/200-19 BRK25/16.2/200-19	147	93	9.5	2710	1.5	BFK25/9.50/200-24 BRK25/9.50/200-24
99	69	14.1	3700	2.4	BFK25/14.1/200-19 BRK25/14.1/200-19	168	81	8.3	2640	1.7	BFK25/8.30/200-24 BRK25/8.30/200-24
118	58	11.8	3590	2.6	BFK25/11.8/200-19 BRK25/11.8/200-19	203	67	6.8	2570	1.9	BFK25/6.80/200-24 BRK25/6.80/200-24
147	47	9.5	3420	3.2	BFK25/9.50/200-19 BRK25/9.50/200-19	222	62	6.3	2540	2.0	BFK25/6.30/200-24 BRK25/6.30/200-24
168	41	8.3	3380	3.4	BFK25/8.30/200-19 BRK25/8.30/200-19	242	56	5.7	2500	2.1	BFK25/5.70/200-24 BRK25/5.70/200-24
203	33	6.8	3310	4.2	BFK25/6.80/200-19 BRK25/6.80/200-19	309	44	4.5	2470	2.3	BFK25/4.50/200-24 BRK25/4.50/200-24
222	31	6.3	3290	4.5	BFK25/6.30/200-19 BRK25/6.30/200-19	329	41	4.2	2420	2.4	BFK25/4.20/200-24 BRK25/4.20/200-24
242	28	5.7	3260	4.6	BFK25/5.70/200-19 BRK25/5.70/200-19	359	38	3.9	2410	2.5	BFK25/3.90/200-24 BRK25/3.90/200-24
309	22	4.5	3230	5.0	BFK25/4.50/200-19 BRK25/4.50/200-19	433	31	3.2	2400	2.7	BFK25/3.20/200-24 BRK25/3.20/200-24
329	21	4.2	3190	5.2	BFK25/4.20/200-19 BRK25/4.20/200-19	473	28	2.9	2490	2.8	BFK25/2.90/200-24 BRK25/2.90/200-24
359	19	3.9	3160	5.3	BFK25/3.90/200-19 BRK25/3.90/200-19						
433	16	3.2	3140	5.6	BFK25/3.20/200-19 BRK25/3.20/200-19						
473	14	2.9	3130	5.7	BFK25/2.90/200-19 BRK25/2.90/200-19						

NOTE : All above ratio are also available in Solid Input Shaft

**ADVANCED
GEARBOX
SOLUTIONS FOR
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HELICAL GEAR BOX

Power Rating Table

B-30											
INPUT POWER 0.75 KW / 1.0 HP/80						INPUT POWER 1.50 KW / 2.0 HP/90					
n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model	n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model
54	129	26.3	3920	2.4	BFK30/26.3/200-19 BRK30/26.3/200-19	54	258	26.3	3050	1.2	BFK30/26.3/200-24 BRK30/26.3/200-24
65	107	21.8	3810	2.8	BFK30/21.8/200-19 BRK30/21.8/200-19	65	214	21.8	3000	1.4	BFK30/21.8/200-24 BRK30/21.8/200-24
77	90	18.4	3700	3.1	BFK30/18.4/200-19 BRK30/18.4/200-19	77	180	18.4	3050	1.6	BFK30/18.4/200-24 BRK30/18.4/200-24
94	74	15.0	3590	3.5	BFK30/15.0/200-19 BRK30/15.0/200-19	94	147	15.0	2940	1.8	BFK30/15.0/200-24 BRK30/15.0/200-24
103	67	13.7	3420	3.9	BFK30/13.7/200-19 BRK30/13.7/200-19	103	134	13.7	2880	2.0	BFK30/13.7/200-24 BRK30/13.7/200-24
126	55	11.2	3380	4.5	BFK30/11.2/200-19 BRK30/11.2/200-19	126	110	11.2	2830	2.2	BFK30/11.2/200-24 BRK30/11.2/200-24
148	47	9.5	3310	5.2	BFK30/9.50/200-19 BRK30/9.50/200-19	148	93	9.5	2710	2.6	BFK30/9.50/200-24 BRK30/9.50/200-24
174	40	8.1	3290	5.9	BFK30/8.10/200-19 BRK30/8.10/200-19	174	79	8.1	2640	3.1	BFK30/8.10/200-24 BRK30/8.10/200-24
201	34	7.0	3260	6.2	BFK30/7.00/200-19 BRK30/7.00/200-19	201	69	7.0	2570	3.3	BFK30/7.00/200-24 BRK30/7.00/200-24
243	28	5.8	3230	6.9	BFK30/5.80/200-19 BRK30/5.80/200-19	243	57	5.8	2540	3.4	BFK30/5.80/200-24 BRK30/5.80/200-24
294	24	4.8	3190	7.3	BFK30/4.80/200-19 BRK30/4.80/200-19	294	47	4.8	2500	3.7	BFK30/4.80/200-24 BRK30/4.80/200-24
336	21	4.2	3160	7.9	BFK30/4.20/200-19 BRK30/4.20/200-19	336	41	4.2	2470	4.1	BFK30/4.20/200-24 BRK30/4.20/200-24
392	18	3.6	3150	8.3	BFK30/3.60/200-19 BRK30/3.60/200-19	392	35	3.6	2440	4.5	BFK30/3.60/200-24 BRK30/3.60/200-24

NOTE : All above ratio are also available in Solid Input Shaft

HELICAL GEAR BOX

Power Rating Table

B-35						B-35					
INPUT POWER 1.50 KW / 2.0 HP/90						INPUT POWER 2.20 KW / 3.0 HP/100					
n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model	n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model
54	258	26.3	7280	1.8	BFK35/26.3/200-24 BRK35/26.3/200-24	54	378	26.3	7280	1.3	BFK35/26.3/250-28 BRK35/26.3/250-28
65	214	21.8	7250	2.1	BFK35/21.8/200-24 BRK35/21.8/200-24	65	313	21.8	7250	1.4	BFK35/21.8/250-28 BRK35/21.8/250-28
77	180	18.4	7230	2.4	BFK35/18.4/200-24 BRK35/18.4/200-24	77	265	18.4	7230	1.6	BFK35/18.4/250-28 BRK35/18.4/250-28
94	147	15.0	7200	2.7	BFK35/15.0/200-24 BRK35/15.0/200-24	94	216	15.0	7200	1.8	BFK35/15.0/250-28 BRK35/15.0/250-28
103	134	13.7	7160	3.0	BFK35/13.7/200-24 BRK35/13.7/200-24	103	197	13.7	7160	2.0	BFK35/13.7/250-28 BRK35/13.7/250-28
126	110	11.2	7120	3.4	BFK35/11.2/200-24 BRK35/11.2/200-24	126	161	11.2	7120	2.3	BFK35/11.2/250-28 BRK35/11.2/250-28
148	93	9.5	6920	4.0	BFK35/9.50/200-24 BRK35/9.50/200-24	148	137	9.5	6920	2.7	BFK35/9.50/250-28 BRK35/9.50/250-28
174	79	8.1	6680	4.7	BFK35/8.10/200-24 BRK35/8.10/200-24	174	116	8.1	6680	3.2	BFK35/8.10/250-28 BRK35/8.10/250-28
201	69	7.0	6490	5.0	BFK35/7.00/200-24 BRK35/7.00/200-24	201	101	7.0	6490	3.4	BFK35/7.00/250-28 BRK35/7.00/250-28
243	57	5.8	6380	5.6	BFK35/5.80/200-24 BRK35/5.80/200-24	243	83	5.8	6380	3.8	BFK35/5.80/250-28 BRK35/5.80/250-28
294	47	4.8	6280	6.2	BFK35/4.80/200-24 BRK35/4.80/200-24	294	69	4.8	6280	4.2	BFK35/4.80/250-28 BRK35/4.80/250-28
336	41	4.2	6200	7.1	BFK35/4.20/200-24 BRK35/4.20/200-24	336	60	4.2	6200	4.9	BFK35/4.20/250-28 BRK35/4.20/250-28
392	35	3.6	6110	7.3	BFK35/3.60/200-24 BRK35/3.60/200-24	392	52	3.6	6110	5.1	BFK35/3.60/250-28 BRK35/3.60/250-28

NOTE : All above ratio are also available in Solid Input Shaft

**PIONEERING
THE FUTURE OF
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MANUFACTURING**

HELICAL GEAR BOX

Power Rating Table

B-45

INPUT POWER 1.50 KW / 2.0 HP/90

n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model
20	699	71.3	9450	1.0	BFK45/71.3/200-24 BRK45/71.3/200-24
25	545	55.8	9500	1.3	BFK45/55.8/200-24 BRK45/55.8/200-24
31	446	45.5	9500	1.6	BFK45/45.5/200-24 BRK45/45.5/200-24
42	331	33.8	9480	2.2	BFK45/33.8/200-24 BRK45/33.8/200-24
50	275	28.0	9450	2.6	BFK45/28.0/200-24 BRK45/28.0/200-24
60	231	23.6	9430	3.1	BFK45/23.6/200-24 BRK45/23.6/200-24
75	185	18.9	9410	3.7	BFK45/18.9/200-24 BRK45/18.9/200-24
105	131	13.4	9390	4.9	BFK45/13.4/200-24 BRK45/13.4/200-24
125	111	11.3	9370	5.8	BFK45/11.3/200-24 BRK45/11.3/200-24
157	88	9.0	9300	6.8	BFK45/9.0/200-24 BRK45/9.0/200-24
193	72	7.3	9190	7.8	BFK45/7.3/200-24 BRK45/7.3/200-24
282	49	5.0	9050	9.0	BFK45/5.0/200-24 BRK45/5.0/200-24
371	37	3.8	8980	9.7	BFK45/3.8/200-24 BRK45/3.8/200-24

INPUT POWER 2.20 KW / 3.0 HP/100

n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model
31	654	45.5	9500	1.1	BFK45/45.5/250-28 BRK45/45.5/250-28
42	486	33.8	9500	1.5	BFK45/33.8/250-28 BRK45/33.8/250-28
50	403	28.0	9420	1.8	BFK45/28.0/250-28 BRK45/28.0/250-28
60	339	23.6	9390	2.1	BFK45/23.6/250-28 BRK45/23.6/250-28
75	272	18.9	9100	2.5	BFK45/18.9/250-28 BRK45/18.9/250-28
105	193	13.4	8600	3.3	BFK45/13.4/250-28 BRK45/13.4/250-28
125	162	11.3	8450	4.0	BFK45/11.3/250-28 BRK45/11.3/250-28
157	129	9.0	8360	4.7	BFK45/9.0/250-28 BRK45/9.0/250-28
193	105	7.3	8280	5.3	BFK45/7.3/250-28 BRK45/7.3/250-28
282	72	5.0	8210	7.2	BFK45/5.0/250-28 BRK45/5.0/250-28
371	55	3.8	8040	8.0	BFK45/3.8/250-28 BRK45/3.8/250-28

INPUT POWER 3.70 KW / 5.0 HP/112

n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model
50	675	28.0	9140	1.0	BFK45/28.0/250-28 BRK45/28.0/250-28
60	569	23.6	8320	1.2	BFK45/23.6/250-28 BRK45/23.6/250-28
75	455	18.9	8140	1.4	BFK45/18.9/250-28 BRK45/18.9/250-28
105	323	13.4	7830	1.9	BFK45/13.4/250-28 BRK45/13.4/250-28
125	272	11.3	7590	2.2	BFK45/11.3/250-28 BRK45/11.3/250-28
157	217	9.0	7440	2.8	BFK45/9.0/250-28 BRK45/9.0/250-28
193	176	7.3	7320	3.1	BFK45/7.3/250-28 BRK45/7.3/250-28
282	120	5.0	7160	4.3	BFK45/5.0/250-28 BRK45/5.0/250-28
371	92	3.8	7080	5.4	BFK45/3.8/250-28 BRK45/3.8/250-28

INPUT POWER 5.50 KW / 7.5 HP/132

n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model
105	482	13.4	7160	1.4	BFK45/13.4/300-38 BRK45/13.4/300-38
125	406	11.3	7100	1.6	BFK45/11.3/300-38 BRK45/11.3/300-38
157	324	9.0	6850	1.9	BFK45/9.0/300-38 BRK45/9.0/300-38
193	262	7.3	6460	2.2	BFK45/7.3/300-38 BRK45/7.3/300-38
282	180	5.0	6080	3.1	BFK45/5.0/300-38 BRK45/5.0/300-38
371	137	3.8	6020	3.8	BFK45/3.8/300-38 BRK45/3.8/300-38

INPUT POWER 7.5 KW / 10 HP/132

n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model
125	554	11.3	6700	1.2	BFK45/11.3/300-38
157	441	9.00	6480	1.4	BFK45/9.0/300-38
193	358	7.30	6090	1.6	BFK45/7.30/300-38
282	245	5.00	5700	2.1	BFK45/5.00/300-38
371	186	3.80	5600	2.6	BFK45/3.80/300-38

NOTE : All above ratio are also available in Solid Input Shaft

HELICAL GEAR BOX

Power Rating Table

B-55

INPUT POWER 5.5 KW / 7.5 HP/132S						INPUT POWER 7.5 KW / 10 HP/132M					
n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model	n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model
40.0	1261	36.30	14900	1.00	BFK55/36.30/300-38 BRK55/36.30/300-38	57.5	1196	25.30	13800	1.00	BFK55/25.30/300-38 BRK55/25.30/300-38
46.7	1079	31.00	14900	1.10	BFK55/31.00/300-38 BRK55/31.00/300-38	81.4	845	17.90	13600	1.40	BFK55/17.90/300-38 BRK55/17.90/300-38
57.3	880	25.30	14900	1.30	BFK55/25.30/300-38 BRK55/25.30/300-38	102.3	672	14.20	13400	1.60	BFK55/14.20/300-38 BRK55/14.20/300-38
81.1	622	17.90	14800	1.90	BFK55/17.90/300-38 BRK55/17.90/300-38	125.3	549	11.60	13100	2.00	BFK55/11.60/300-38 BRK55/11.60/300-38
102.0	495	14.20	14800	1.90	BFK55/14.20/300-38 BRK55/14.20/300-38	150.8	456	09.70	13100	2.40	BFK55/09.70/300-38 BRK55/09.70/300-38
124.9	404	11.60	14700	2.70	BFK55/11.60/300-38 BRK55/11.60/300-38	179.0	384	08.10	12900	2.80	BFK55/08.10/300-38 BRK55/08.10/300-38
150.3	336	09.70	14400	3.10	BFK55/09.70/300-38 BRK55/09.70/300-38	210.6	327	06.90	12500	3.30	BFK55/06.90/300-38 BRK55/06.90/300-38
178.4	283	08.10	14200	3.70	BFK55/08.10/300-38 BRK55/08.10/300-38	246.2	279	05.90	12300	3.80	BFK55/05.90/300-38 BRK55/05.90/300-38
209.8	240	06.90	13900	4.20	BFK55/06.90/300-38 BRK55/06.90/300-38	271.5	253	05.40	12000	4.00	BFK55/05.40/300-38 BRK55/05.40/300-38
245.3	206	05.90	13900	4.60	BFK55/05.90/300-38 BRK55/05.90/300-38	319.1	215	04.60	12000	4.60	BFK55/04.60/300-38 BRK55/04.60/300-38
						373.1	184	03.90	11800	5.10	BFK55/03.90/300-38 BRK55/03.90/300-38

INPUT POWER 11 KW / 15 HP/160M						INPUT POWER 15 KW / 20 HP/160L					
n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model	n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model
81.7	1235	17.90	11100	1.00	BFK55/17.90/350-42 BRK55/17.90/350-42	125.8	1094	11.60	9700	1.00	BFK55/11.60/350-42 BRK55/11.60/350-42
102.7	982	14.20	11500	1.10	BFK55/14.20/350-42 BRK55/14.20/350-42	151.3	909	09.70	9600	1.20	BFK55/09.70/350-42 BRK55/09.70/350-42
125.8	802	11.60	11400	1.30	BFK55/11.60/350-42 BRK55/11.60/350-42	179.6	766	08.10	10000	1.40	BFK55/08.10/350-42 BRK55/08.10/350-42
151.3	667	09.70	11300	1.60	BFK55/09.70/350-42 BRK55/09.70/350-42	211.3	651	06.90	10000	1.70	BFK55/06.90/350-42 BRK55/06.90/350-42
179.6	562	08.10	11100	1.90	BFK55/08.10/350-42 BRK55/08.10/350-42	247.0	557	05.90	9800	1.90	BFK55/05.90/350-42 BRK55/05.90/350-42
211.3	477	06.90	11200	2.30	BFK55/06.90/350-42 BRK55/06.90/350-42	272.4	505	05.40	9700	2.10	BFK55/05.40/350-42 BRK55/05.40/350-42
247.0	408	05.90	11100	2.60	BFK55/05.90/350-42 BRK55/05.90/350-42	320.2	430	04.60	9700	2.30	BFK55/04.60/350-42 BRK55/04.60/350-42
272.4	370	05.40	10700	2.80	BFK55/05.40/350-42 BRK55/05.40/350-42	374.4	367	03.90	9500	2.60	BFK55/03.90/350-42 BRK55/03.90/350-42
320.2	315	04.60	10400	3.20	BFK55/04.60/350-42 BRK55/04.60/350-42						
374.4	269	03.90	10400	3.60	BFK55/03.90/350-42 BRK55/03.90/350-42						

NOTE : All above ratio are also available in Solid Input Shaft

HELICAL GEAR BOX

Power Rating Table

B-80											
INPUT POWER 5.5 KW / 7.5 HP/132S						INPUT POWER 7.5 KW / 10 HP/132M					
n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model	n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model
13.5	3700	107.5	30800	1.10	BFK80/107.5/300-38 BRK80/107.5/300-38	16.8	4057	86.70	30300	1.00	BFK80/86.70/300-38 BRK80/86.70/300-38
16.7	2985	86.7	30800	1.30	BFK80/86.70/300-38 BRK80/86.70/300-38	20.4	3328	71.20	30300	1.10	BFK80/71.20/300-38 BRK80/71.20/300-38
20.4	2449	71.2	30800	1.50	BFK80/71.20/300-38 BRK80/71.20/300-38	24.6	2761	59.00	30300	1.40	BFK80/59.00/300-38 BRK80/59.00/300-38
24.6	2032	59.0	30700	1.90	BFK80/59.00/300-38 BRK80/59.00/300-38	30.5	2231	47.70	30300	1.70	BFK80/47.70/300-38 BRK80/47.70/300-38
30.4	1642	47.7	30700	2.30	BFK80/47.70/300-38 BRK80/47.70/300-38	36.5	1864	39.90	30300	2.00	BFK80/39.90/300-38 BRK80/39.90/300-38
36.4	1372	39.9	30700	2.80	BFK80/39.90/300-38 BRK80/39.90/300-38	43.5	1565	33.50	30300	2.40	BFK80/33.50/300-38 BRK80/33.50/300-38
43.3	1151	33.5	30600	3.10	BFK80/33.50/300-38 BRK80/33.50/300-38	61.2	1111	23.80	30200	3.20	BFK80/23.80/300-38 BRK80/23.80/300-38
61.0	818	23.8	30600	4.00	BFK80/23.80/300-38 BRK80/23.80/300-38	77.8	875	18.70	30200	3.80	BFK80/18.70/300-38 BRK80/18.70/300-38
77.5	644	18.7	30600	4.60	BFK80/18.70/300-38 BRK80/18.70/300-38	96.4	706	15.10	30200	4.60	BFK80/15.10/300-38 BRK80/15.10/300-38
96.1	519	15.1	30600	5.30	BFK80/15.10/300-38 BRK80/15.10/300-38	117.5	579	12.40	30200	5.40	BFK80/12.40/300-38 BRK80/12.40/300-38
						141.7	480	10.30	30200	6.00	BFK80/10.30/300-38 BRK80/10.30/300-38

INPUT POWER 11 KW / 15 HP/160M							INPUT POWER 15 KW / 20 HP/160L						
n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model	n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model		
24.7	4035	59.00	30500	1.00	BFK80/59.00/350-42 BRK80/59.00/350-42	36.6	3716	39.9	30500	1.00	BFK80/39.9/350-42 BRK80/39.9/350-42		
30.6	3261	47.70	30500	1.20	BFK80/47.70/350-42 BRK80/47.70/350-42	43.6	3118	33.5	30500	1.20	BFK80/33.5/350-42 BRK80/33.5/350-42		
36.6	2725	39.90	30500	1.40	BFK80/39.90/350-42 BRK80/39.90/350-42	61.4	2215	23.8	30400	1.70	BFK80/23.8/350-42 BRK80/23.8/350-42		
43.6	2287	33.50	30500	1.70	BFK80/33.50/350-42 BRK80/33.50/350-42	78.1	1743	18.7	30100	2.20	BFK80/18.7/350-42 BRK80/18.7/350-42		
61.4	1624	23.80	30500	2.30	BFK80/23.80/350-42 BRK80/23.80/350-42	96.8	1407	15.1	29200	2.40	BFK80/15.1/350-42 BRK80/15.1/350-42		
78.1	1278	18.70	30400	2.90	BFK80/18.70/350-42 BRK80/18.70/350-42	117.9	1154	12.4	27900	2.70	BFK80/12.4/350-42 BRK80/12.4/350-42		
96.8	1031	15.10	30300	3.40	BFK80/15.10/350-42 BRK80/15.10/350-42	142.2	957	10.3	27400	3.10	BFK80/10.3/350-42 BRK80/10.3/350-42		
117.9	846	12.40	30300	4.00	BFK80/12.40/350-42 BRK80/12.40/350-42	175.9	774	8.30	27100	3.70	BFK80/8.30/350-42 BRK80/8.30/350-42		
142.2	702	10.30	30200	4.60	BFK80/10.30/350-42 BRK80/10.30/350-42	210.7	646	6.90	26500	4.20	BFK80/6.90/350-42 BRK80/6.90/350-42		
175.9	567	8.30	30200	5.40	BFK80/8.30/350-42 BRK80/8.30/350-42	250.9	542	5.80	26100	4.60	BFK80/5.80/350-42 BRK80/5.80/350-42		
210.7	474	6.90	30200	6.00	BFK80/6.90/350-42 BRK80/6.90/350-42	357.0	381	4.10	25600	6.10	BFK80/4.10/350-42 BRK80/4.10/350-42		

NOTE : All above ratio are also available in Solid Input Shaft

HELICAL GEAR BOX

Power Rating Table

B-90											
INPUT POWER 7.5 KW / 10 HP/132M						INPUT POWER 11 KW / 15 HP/160M					
n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model	n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model
12.3	5542	118.5	41300	1.10	BFK90/118.5/300-38 BRK90/118.5/300-38	18.3	5460	79.90	41500	1.10	BFK90/79.90/350-42 BRK90/79.90/350-42
15.0	4526	96.80	41300	1.40	BFK90/96.80/300-38 BRK90/96.80/300-38	22.5	4435	64.90	41500	1.40	BFK90/64.90/350-42 BRK90/64.90/350-42
18.2	3736	79.90	41300	1.60	BFK90/79.90/300-38 BRK90/79.90/300-38	27.1	3684	53.90	41500	1.70	BFK90/53.90/350-42 BRK90/53.90/350-42
22.4	3034	64.90	41300	2.00	BFK90/64.90/300-38 BRK90/64.90/300-38	32.5	3070	44.90	41500	2.00	BFK90/44.90/350-42 BRK90/44.90/350-42
27.0	2521	53.90	41300	2.40	BFK90/53.90/300-38 BRK90/53.90/300-38	38.1	2620	38.30	41500	2.30	BFK90/38.30/350-42 BRK90/38.30/350-42
32.4	2101	44.90	41300	2.80	BFK90/44.90/300-38 BRK90/44.90/300-38	45.7	2183	31.90	41500	2.80	BFK90/31.90/350-42 BRK90/31.90/350-42
38.0	1793	38.30	41300	3.20	BFK90/38.30/300-38 BRK90/38.30/300-38	54.4	1836	26.90	41500	3.30	BFK90/26.90/350-42 BRK90/26.90/350-42
45.6	1494	31.90	41300	3.80	BFK90/31.90/300-38 BRK90/31.90/300-38	69.3	1440	21.10	41400	4.00	BFK90/21.10/350-42 BRK90/21.10/350-42
54.2	1256	26.90	41200	4.30	BFK90/26.90/300-38 BRK90/26.90/300-38	86.2	1157	16.90	41300	4.80	BFK90/16.90/350-42 BRK90/16.90/350-42
69.1	985	21.10	41200	4.80	BFK90/21.10/300-38 BRK90/21.10/300-38	105.6	945	13.80	41300	5.60	BFK90/13.80/350-42 BRK90/13.80/350-42
85.9	792	16.90	41100	5.60	BFK90/16.90/300-38 BRK90/16.90/300-38	128.0	780	11.40	41200	6.10	BFK90/11.40/350-42 BRK90/11.40/350-42
INPUT POWER 15 KW / 20 HP/160L						INPUT POWER 18.5KW / 25 HP/180M					
n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model	n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model
22.5	6048	64.90	41500	1.00	BFK90/64.90/350-42 BRK90/64.90/350-42	27.4	6133	53.90	40200	1.00	BFK90/53.90/350-48 BRK90/53.90/350-48
27.1	5024	53.90	41500	1.20	BFK90/53.90/350-42 BRK90/53.90/350-42	32.8	5111	44.90	40200	1.20	BFK90/44.90/350-48 BRK90/44.90/350-48
32.5	4187	44.90	41500	1.50	BFK90/44.90/350-42 BRK90/44.90/350-42	38.5	4362	38.30	40200	1.40	BFK90/38.30/350-48 BRK90/38.30/350-48
38.1	3573	38.30	41500	1.70	BFK90/38.30/350-42 BRK90/38.30/350-42	46.2	3634	31.90	39500	1.70	BFK90/31.90/350-48 BRK90/31.90/350-48
45.7	2977	31.90	41400	2.10	BFK90/31.90/350-42 BRK90/31.90/350-42	54.9	3056	26.90	39200	2.00	BFK90/26.90/350-48 BRK90/26.90/350-48
54.4	2504	26.90	41400	2.40	BFK90/26.90/350-42 BRK90/26.90/350-42	70.0	2398	21.10	38800	2.60	BFK90/21.10/350-48 BRK90/21.10/350-48
69.3	1964	21.10	41400	2.90	BFK90/21.10/350-42 BRK90/21.10/350-42	87.1	1926	16.90	38800	3.00	BFK90/16.90/350-48 BRK90/16.90/350-48
86.2	1578	16.90	41300	3.60	BFK90/16.90/350-42 BRK90/16.90/350-42	106.7	1574	13.80	38300	3.50	BFK90/13.80/350-48 BRK90/13.80/350-48
105.6	1289	13.80	40800	4.20	BFK90/13.80/350-42 BRK90/13.80/350-42	129.3	1298	11.40	37700	4.10	BFK90/11.40/350-48 BRK90/11.40/350-48
128.0	1064	11.40	40100	5.00	BFK90/11.40/350-42 BRK90/11.40/350-42	159.1	1055	09.30	37500	4.80	BFK90/09.30/350-48 BRK90/09.30/350-48
157.5	864	09.30	39500	5.70	BFK90/09.30/350-42 BRK90/09.30/350-42	191.6	876	07.70	37500	5.40	BFK90/07.70/350-48 BRK90/07.70/350-48
189.6	718	07.70	39500	6.20	BFK90/07.70/350-42 BRK90/07.70/350-42	229.8	731	06.40	37500	6.00	BFK90/06.40/350-48 BRK90/06.40/350-48
						269.2	624	05.50	37500	6.50	BFK90/05.50/350-48 BRK90/05.50/350-48

NOTE : All above ratio are also available in Solid Input Shaft

HELICAL GEAR BOX

Power Rating Table

B-90											
INPUT POWER 22 KW / 30 HP/180L						INPUT POWER 30 KW / 40 HP/200L					
n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model	n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model
32.8	6079	44.90	40200	1.00	BFK90/44.90/350-48 BRK90/44.90/350-48	38.5	7073	38.30	37900	0.90	BFK90/38.30/400-55 BRK90/38.30/400-55
38.5	5187	38.30	40200	1.20	BFK90/38.30/350-48 BRK90/38.30/350-48	46.2	5894	31.90	37900	1.10	BFK90/31.90/400-55 BRK90/31.90/400-55
46.2	4322	31.90	40200	1.40	BFK90/31.90/350-48 BRK90/31.90/350-48	54.9	4956	26.90	37100	1.30	BFK90/26.90/400-55 BRK90/26.90/400-55
54.9	3635	26.90	40200	1.70	BFK90/26.90/350-48 BRK90/26.90/350-48	70.0	3888	21.10	36500	1.60	BFK90/21.10/400-55 BRK90/21.10/400-55
70.0	2851	21.10	40200	2.10	BFK90/21.10/350-48 BRK90/21.10/350-48	87.1	3124	16.90	35900	1.90	BFK90/16.90/400-55 BRK90/16.90/400-55
87.1	2291	16.90	40200	2.50	BFK90/16.90/350-48 BRK90/16.90/350-48	106.7	2552	13.80	35600	2.10	BFK90/13.80/400-55 BRK90/13.80/400-55
106.7	1871	13.80	39900	2.90	BFK90/13.80/350-48 BRK90/13.80/350-48	129.3	2105	11.40	34800	2.50	BFK90/11.40/400-55 BRK90/11.40/400-55
129.3	1544	11.40	39900	3.40	BFK90/11.40/350-48 BRK90/11.40/350-48	159.1	1711	09.30	34000	3.10	BFK90/09.30/400-55 BRK90/09.30/400-55
159.1	1254	09.30	38900	4.10	BFK90/09.30/350-48 BRK90/09.30/350-48	191.6	1421	07.70	33300	3.70	BFK90/07.70/400-55 BRK90/07.70/400-55
191.6	1042	07.70	38000	4.70	BFK90/07.70/350-48 BRK90/07.70/350-48	229.8	1185	06.40	32900	4.20	BFK90/06.40/400-55 BRK90/06.40/400-55
229.8	869	06.40	37400	5.50	BFK90/06.40/350-48 BRK90/06.40/350-48	269.2	1011	05.50	32000	4.70	BFK90/05.50/400-55 BRK90/05.50/400-55
269.2	742	05.50	36800	6.00	BFK90/05.50/350-48 BRK90/05.50/350-48	323.5	841	04.60	32000	5.30	BFK90/04.60/400-55 BRK90/04.60/400-55
323.5	617	04.60	36300	6.40	BFK90/04.60/350-48 BRK90/04.60/350-48						

INPUT POWER 37 KW / 50 HP/225S						INPUT POWER 45 KW / 60 HP/225M					
n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model	n_2 (O/P RPM)	M_2 (Nm)	i_R (Ratio)	F_{Ra} (N)	f_b (Service Factor)	Model
54.9	6113	26.90	34600	1.00	BFK90/26.90/450-60 BRK90/26.90/450-60	70.0	5832	21.10	26600	1.00	BFK90/21.10/450-60 BRK90/21.10/450-60
70.0	4795	21.10	34300	1.30	BFK90/21.10/450-60 BRK90/21.10/450-60	87.1	4686	16.90	28200	1.30	BFK90/16.90/450-60 BRK90/16.90/450-60
87.1	3853	16.90	33800	1.60	BFK90/16.90/450-60 BRK90/16.90/450-60	106.7	3828	13.80	30200	1.40	BFK90/13.80/450-60 BRK90/13.80/450-60
106.7	3147	13.80	33800	1.70	BFK90/13.80/450-60 BRK90/13.80/450-60	129.3	3158	11.40	30200	1.70	BFK90/11.40/450-60 BRK90/11.40/450-60
129.3	2597	11.40	33400	1.60	BFK90/11.40/450-60 BRK90/11.40/450-60	159.1	2566	09.30	30200	2.10	BFK90/09.30/450-60 BRK90/09.30/450-60
159.1	2110	09.30	32800	2.40	BFK90/09.30/450-60 BRK90/09.30/450-60	191.6	2131	07.70	30200	2.50	BFK90/07.70/450-60 BRK90/07.70/450-60
191.6	1752	07.70	32200	2.90	BFK90/07.70/450-60 BRK90/07.70/450-60	229.8	1777	06.40	30200	2.80	BFK90/06.40/450-60 BRK90/06.40/450-60
229.8	1461	06.40	31600	3.30	BFK90/06.40/450-60 BRK90/06.40/450-60	269.2	1517	05.50	29900	3.10	BFK90/05.50/450-60 BRK90/05.50/450-60
269.2	1247	05.50	31100	3.50	BFK90/05.50/450-60 BRK90/05.50/450-60	323.5	1262	04.60	29600	3.40	BFK90/04.60/450-60 BRK90/04.60/450-60
323.5	1038	04.60	30800	3.90	BFK90/04.60/450-60 BRK90/04.60/450-60						

NOTE : All above ratio are also available in Solid Input Shaft

PLAN



MINI PLANETARY GEARBOX

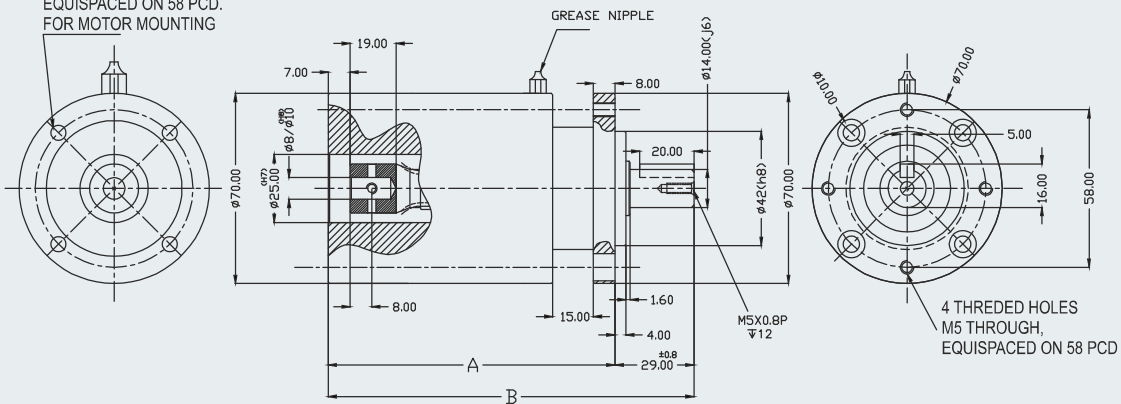
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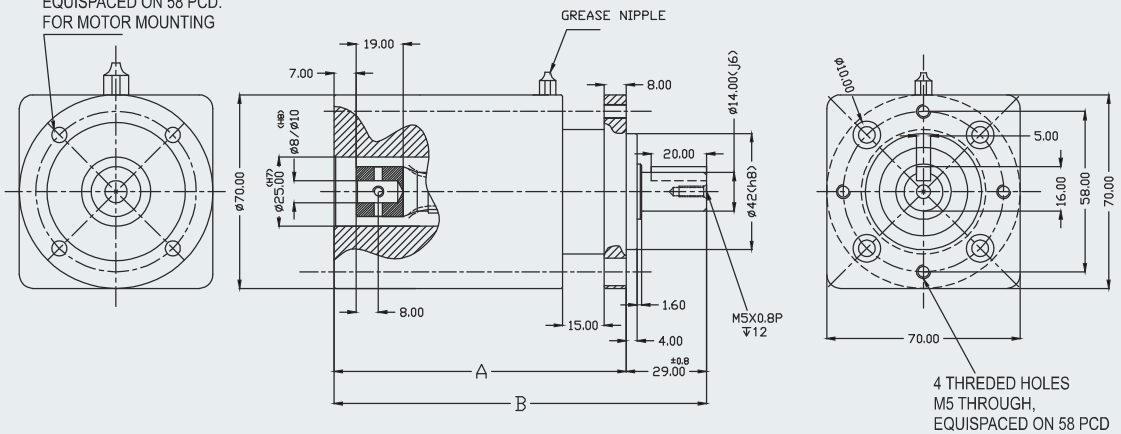


VP 70 Series

4 HOLES, Ø5.5 THROUGH,
EQUISPACED ON 58 PCD.
FOR MOTOR MOUNTING



4 HOLES, Ø5.5 THROUGH,
EQUISPACED ON 58 PCD.
FOR MOTOR MOUNTING





Stages of Gear box

Parameters	Single Stage	Two Stage	Three Stage
Ratio	3.69:1, 4.5:1	13.6:1, 16.6:1, 20:1	50:1, 61:1, 75:1, 91:1
Torque Capacity	3.2 Nm	14.3 Nm	30 Nm
Noise Level	≤ 62dB	≤ 62dB	≤ 62dB
Backlash	49 Arc minutes	49 Arc minutes	49 Arc minutes
Flange size	Ø70 / 70 x 70	Ø70 / 70 x 70	Ø70 / 70 x 70
Body Length (A)	78.8 ^{+/-1.0}	92.0 ^{+/-1.0}	107.0 ^{+/-1.0}
Total Length (B)	107.0 ^{+/-1.0}	121.0 ^{+/-1.0}	136.0 ^{+/-1.0}

Stages of Gear box

Parameters	Four Stage
Ratio	185:1, 226:1, 336:1, 410:1
Torque Capacity	135 Nm
Noise Level	≤ 62dB
Backlash	49 Arc minutes
Flange size	Ø70 / 70 x 70
Body Length (A)	119.0 ^{+/-1.0}
Total Length (B)	148.0 ^{+/-1.0}

Note :

1. Maximum Gear Box Input Speed allowed is 3000 RPM
2. Torque Capacity for the stages above 3 with the dimensions specified, is 30Nm only
3. Torque Capacities specified above for the Stages above 3, are with different dimensions

Introducing Our Upcoming **PLANETARY GEARBOXES**

VP Series

1 HP to 20 HP



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