

Since 1994



ISO 9001:2015 Certified Company

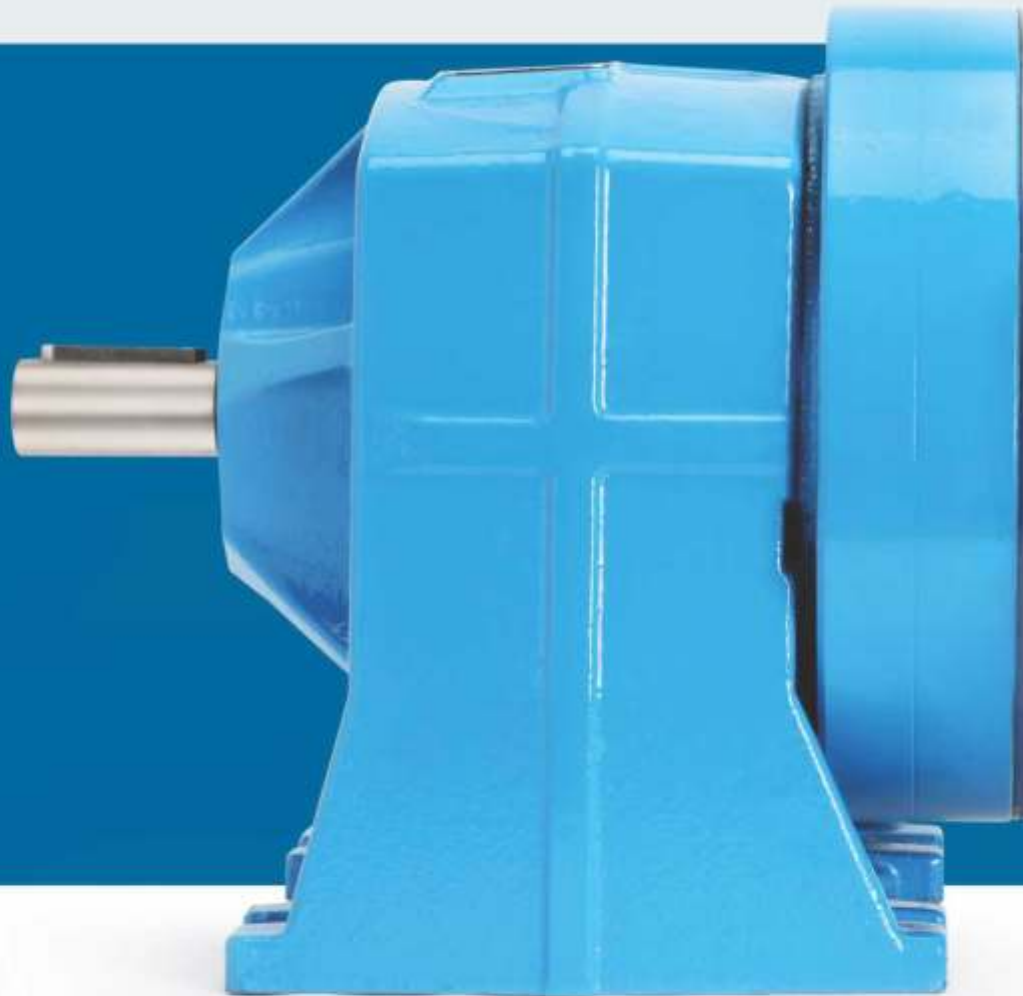


Technical Features

- ▶ By optimizing the performance features and strict quality control measures implemented during manufacturing and assembly of gearbox, the gearbox is designed.
- ▶ All gears are made in case-hardened steel 20 MnCr5 - SAE8620 or equivalent material. They are subjected to case-hardening (58-62HRC), quenching and stress-relieving to give high quality profile ground gears. All gears are profile ground referred to 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 referred UNE 7-257-72, Alignment of shaft to output flange referred DIN 42955, Shaft seal tightness Test@1Kg/cm², Noise level below the limit referred VDI 2159.

**HELICAL GEAR BOX
WORM & WORM WHEEL
AC MOTORS**

**MINI PLANETARY GEAR BOX
DC MOTORS**



- ▶ Largely proportioned ball bearing support on both side of the shaft assures precise alignment of gear and reduces vibrations and wear of the gears.
- ▶ High quality sealing for improved leaking prevention.
- ▶ Very high dynamic efficiency of 0.964 for two stage.
- ▶ Silent and vibration free unit provide ability to operate in high input speed and intermittence.

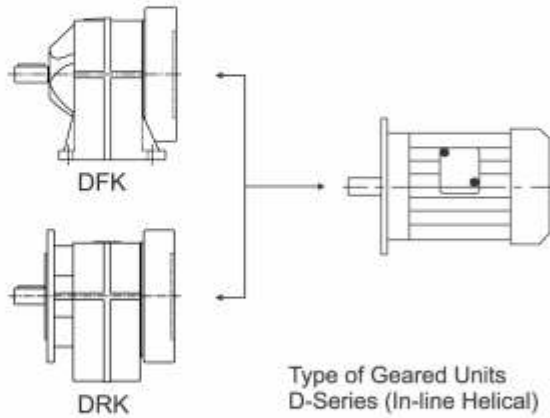
- ▶ All in-line helical gearbox are painted with epoxy primer & epoxy paint.
- ▶ All units are suitable to fit with IEC standard motor.
- ▶ The gear box is designed to absorb high external loads i.e. Axial and Radial loads.
- ▶ All units are dimensionally interchangeable with other major gear box manufacturer.
- ▶ Completely enclosed construction allows for 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

AC MOTORS

Nomenclature



1. Hollow Input Solid Output

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

Type of Mounting
F-Foot Mounting
R-Flange Mounting

K-With Motor
Mounting Flange

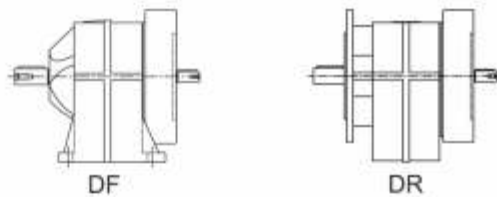
D F K 128 / 18.7 / 200 - 19

Input Shaft Bore Dia
Ø14, Ø19, Ø24, Ø28.

Input Flange OD
Ø160, Ø200, Ø250

Gearbox Ratio

Model of Geared Units
102, 128, 142, 162.



2. Solid Input Solid Output

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

Type of Mounting
F-Foot Mounting
R-Flange Mounting

D F 128 / 18.7 / 16

Input Shaft Diameter
Ø14, Ø16, Ø19, Ø24.

Gearbox Ratio

Model of Geared Units
102, 128, 142, 162.

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



HELICAL GEAR BOX

AC MOTORS

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 service (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,

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

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

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

NOTE : In the above, the calculated equivalent overhung 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.

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 service 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

AC MOTORS

Guideline for selection

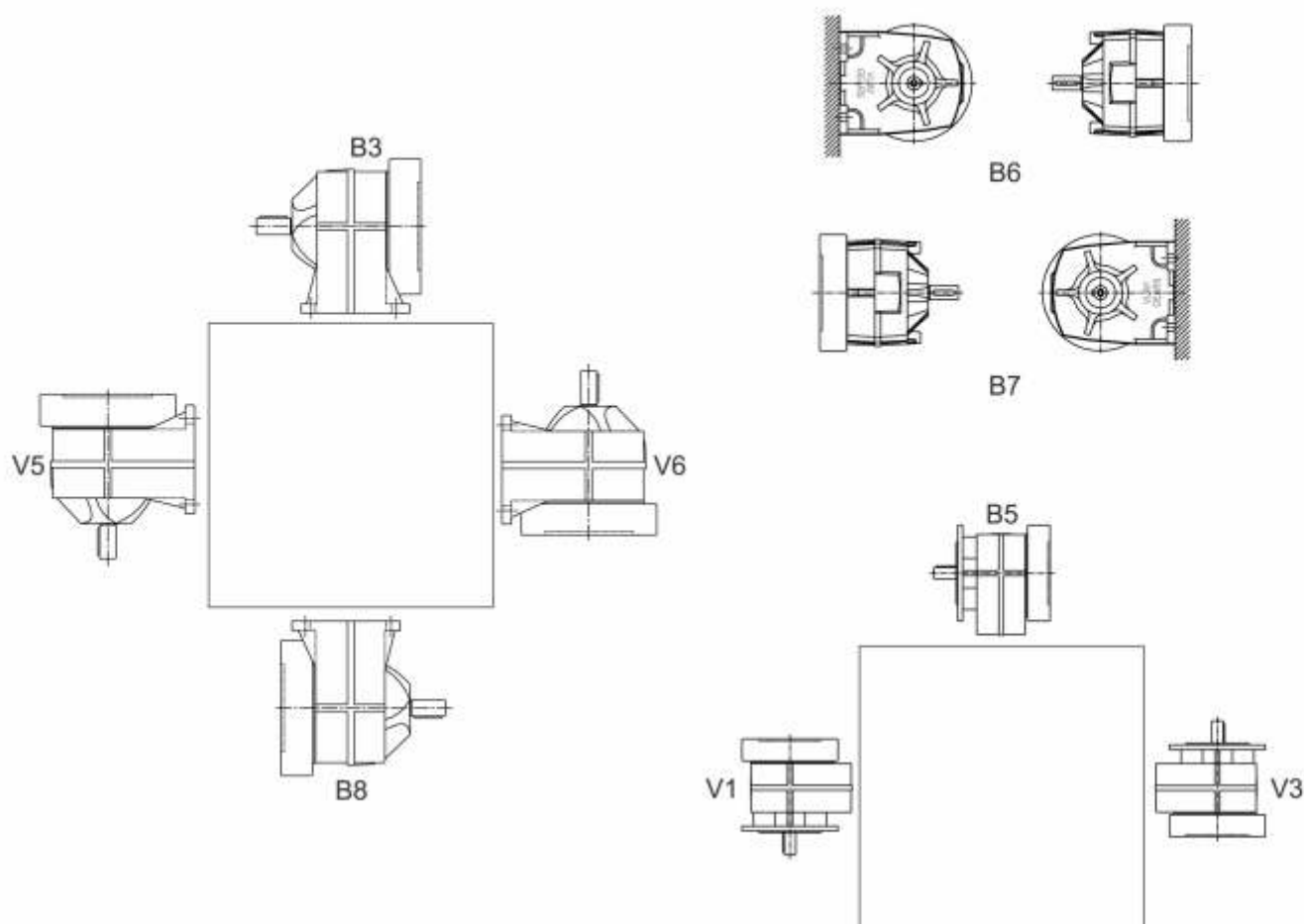
TABLE 4-LOAD CLASSIFICATION

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	-	Auxiliary 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		Tyre and tube press openers	M
Centrifugal	U	Apron	M	machine M		Tubers and strainers	M
Lobe	M	Belt M		Wire winding machine	M	Warming mills	M
Reciprocating		Disc	U	Mills-rotary type		Sand mulier	
Multi : cylinder	M	Reciprocating	H	ball	M	Sewage disposal equipment	
Single- cylinder	H	Screw	M	Cement kilns	M	Bar screens	U
Conveyors - uniformly		Food industry		Dryers and coolers	M	Chemical feeders	U
Loaded or fed		Beef slicer	M	Kilns - other than cement	M	Collectors	U
Apron	U	Cereal cooker	U	pebble	-	Dewatering screws	M
Assembly	U	Dough mixer	M	Rod		Scum breakers	M
Belt	U	Meat grinders	M	plain	M	Slow or rapid mixers	M
Bucket	U	Generators - hot welding	U	Wedge bar	M	Thickeners	M
Chain	U	Hammer Mills	H	Tumbling barrels	H	Vacuum filter	M
Flight	U	Hoists		Mixers		Screens	
Oven	U	Heavy duty	H	Concrete mixers-continuous	M	Air washing	U
Screw	U	Medium duty	M	Constant density	U	Rotary- stone or gravel	M
Conveyors - heavy duty		Skip hoist	M	Variable density	M	Travelling	U
Not uniform fed		Laundry washers reversing	M	Oil industry		Water intake	M
Apron	M	Laundry tumblers	M	Chillers	M	Slab pushers	M
Assembly	M	Line shafts		Oil well pumping	-	Steering gear	-
Belt	M	Driving processing equipment	U	Paraffin filter press	M	Stockers	U
Bucket	M	light	U	Rotary kilns	M	Sugar industry	
Chain	M	Other ling shafts	U	Paper Mills		Cane knives	M
Flight	M	Lumber industry		Agitators (mixers)	M	Crushers	M
Live roll	-	Barkers - hydraulic-mechanical	M	Barker- auxiliaries- hydraulic	M	Mills	M
Oven	M	Burner conveyor	M	Barker -mechanical	H	Textile industry	
Reciprocating	H	Burner conveyor	H	Barker -drum	H	Batchers	M
Screw	M	Chain transfer	H	Beater and pulper	M	calendars	M
Shaker	H	Craneway transfer	H	Bleacher	U	Cards	M
Cranes		De-braking drum	H	Calenders	M	Dry cans	M
Main hoists	U	Edger feed	M	Calenders - super	H	Dryers	M
Bridge travel	-	Gang feed	M	Converting machine	-	Dyeing machinery	M
Trolley travel	-	Gang feed	M	Expect cutters - platers	M	Knitting machines	-
Crusher		Live rolls	H	Conveyors	U	Looms	M
Ore	H	Log deck	H	Couch	H	Mangles	M
Stone	H	Log haul-incline	H	Cutters - platers	H	Nappers	M
Sugar	M	Log haul-well type	H	Cylinders	M	Pads	M
Dredges		Log turning device	H	Dryers	M	Range drive	-
Cable reels	M	Main log conveyor	H	Felt stretcher	M	Slashers	M
Conveyors	M	Off bearing rolls	M	Felt whipper	H	Soapers	M
Cutter head drives	H	Planer feed chains	M	Jordans	M	Spinners	M
Jig drives	H	Planer floor chains	M	Log haul	H	Tenter frames	M
Maneuvering winches	M	Planer tilting hoist	M	Presses	M	Washers	M
Pumps	M	Re-saw merry-go-round		Pulp machine reel	M	Winders	M
Screen drive	H	conveyor	M	Stock chest	M	Windlass	
Stackers	M	Roll cases	H	suction roll	M		
Utility winches	M	Slab conveyor	H	washers and thickeners	M		
		Small waste conveyor-belt	U	winders	M		
		Small waste conveyor-chain	M				

U - Uniform Load
* - Refer to

M - Moderate Shock Load

H - Heavy Shock Load



Lubrication and Assembly Position

Series "D"

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 (amount indicated in table No 5). **Do not mix lubricants of different brand names.**

MAINTENANCE

After 500 hours of service empty the lubricant and refill the box up to the level. Once the running-in period is over, monitor the status of the lubricant after 12000 hours of work (approx. 30 months working 14 hours a day) (**in case of synthetic oil**) or 2500 hours of work (approx. 6 months working 14 hours a day) (**in case of mineral oil**) and replace when necessary.

Table No. 5 Series "D" Approximate oil capacity, in litres, depending on the type and the operating position of the geared units

Working position

B3

B5

B6

B7

B8

V1

V3

V5

V6

Type	Quantity
D - 102	0.5
D - 128	1
D - 142	1.5
D - 162	2.5

The same quantity in all positions

The same quantity in all positions

HELICAL GEAR BOX

AC MOTORS

Guideline for selection

Example of Selection

Requirement is for helical geared unit

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 service 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

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

We get Geared unit size DFK 142/13.8/200-24 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 162/13.3/200-24 having $n_2 = 106$ 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 162/13.3/200-24 is 8300 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 162/13.3/200-24, 106 r/min, $iR = 13.3$ 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.,

HELICAL GEAR BOX

AC MOTORS

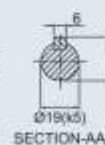
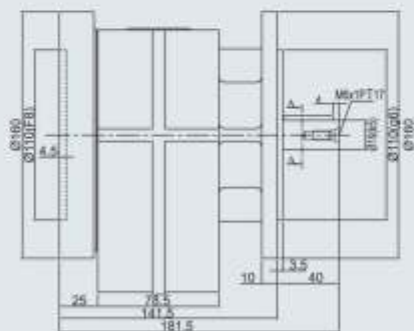
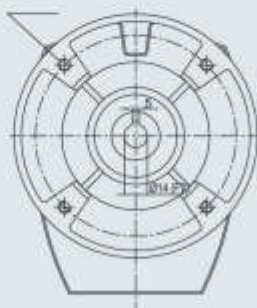
D Series :

Model DRK



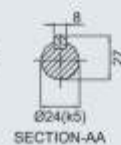
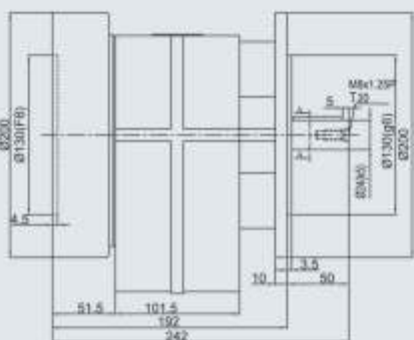
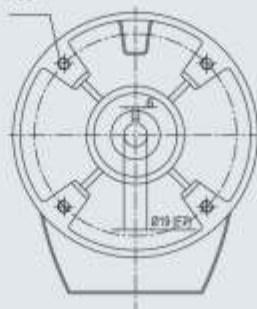
4 Holes of M8 x 1.25 P x 18 Deep
Equispaced on 130 ± 0.1 PCD
for motor mounting

DRK 102



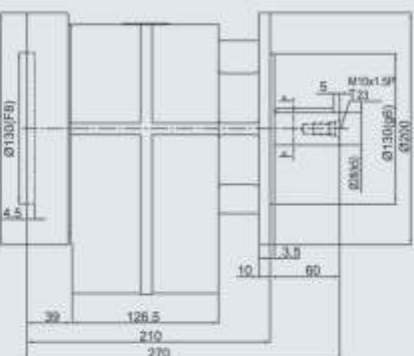
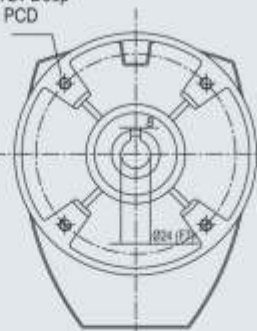
4 Holes of M10 x 1.5 P x 21 Deep
Equispaced on 165 ± 0.1 PCD
for motor mounting

DRK 128



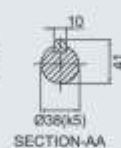
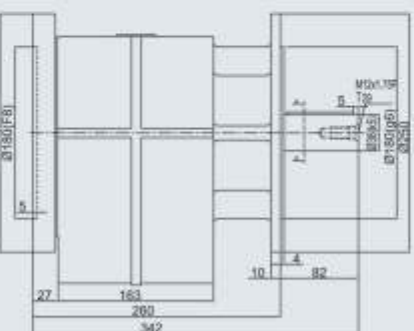
4 Holes of M10 x 1.5 P x 21 Deep
Equispaced on 165 ± 0.1 PCD
for motor mounting

DRK 142



4 Holes of M12 x 1.75 P x 15 Deep
Equispaced on 215 ± 0.1 PCD
for Motor Mounting

DRK 162



Lubricants CLP acc. referred to DIN 51517, Part 3

TABLE NO. 6 RECOMMENDED OIL VISCOSITY

Oil type	Service temperature	Ambient temperature°C	Viscosity (mm ² /s(cSt)at40°C)	
			Input speed: n ₁	
			500 at 1000 1/min	1000 at 1500 1/min
		-10 ÷ +5	VG 100	VG 100
FL BAKU TO 4/50	-5 ÷ +70 _C	0 ÷ +40	VG 320	VG 220
FL GEARSYNT 320	-25 ÷ +150 _C	+35 ÷ +60	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	Klüberynth 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	Klüberoll 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 referred to the 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, to order, reducers with lubricants which referred to standard and which the USDA-H1 may be used in the foodstuffs and pharmaceuticals industry in instances where, for technical reasons, contact between foodstuffs and the lubricant may occasionally be unavoidable.

HELICAL GEAR BOX

AC MOTORS

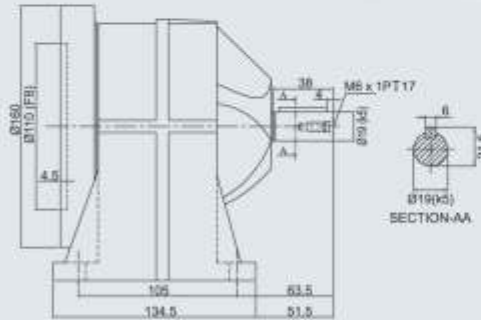
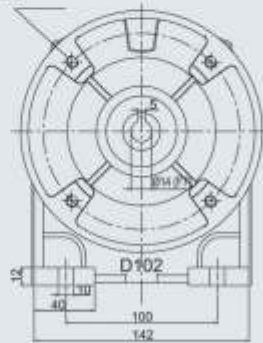
D Series :

Model DFK



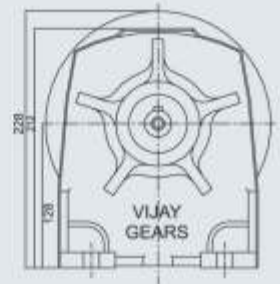
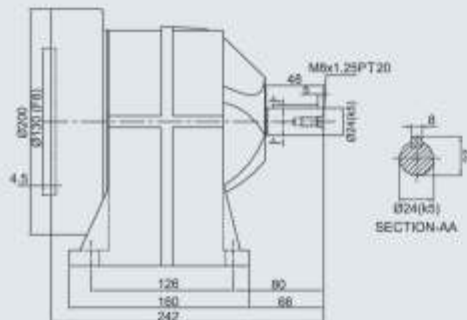
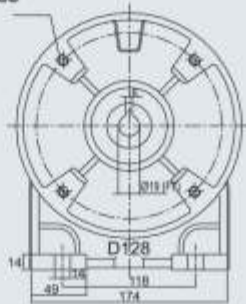
4 Holes of M8 x 1.25 P x 18 Deep
Equispaced on 130 ± 0.1 PCD
for motor mounting

DFK 102



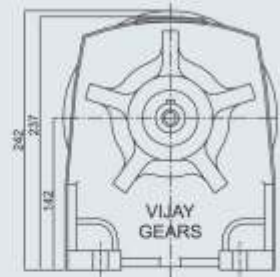
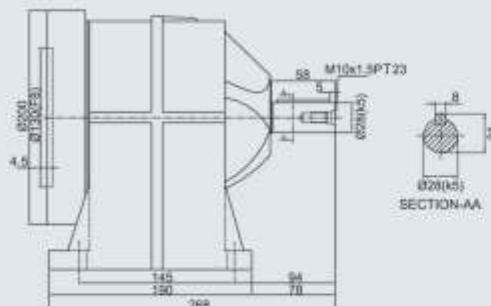
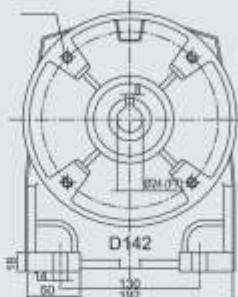
4 Holes of M10 x 1.5 P x 21 Deep
Equispaced on 165 ± 0.1 PCD
for Motor Mounting

DFK 128



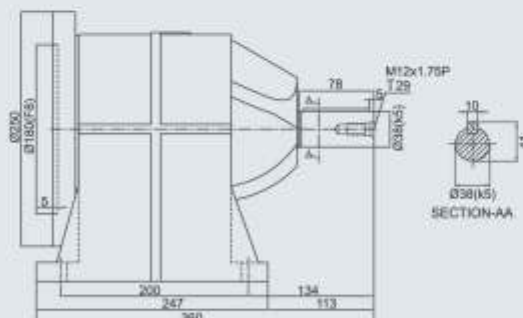
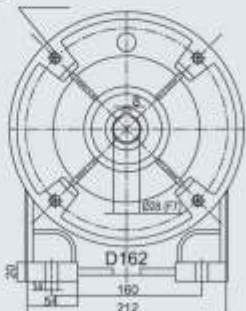
4 Holes of M10x1.5 Px21 Deep
Equispaced on 165 ± 0.1 PCD
for Motor Mounting

DFK 142



4 Holes of M12x1.75 Px15 Deep
Equispaced on 215 ± 0.1 PCD
for Motor Mounting

DFK 162



HELICAL GEAR MODULES



HELICAL GEAR BOX

AC MOTORS

Power Rating Table

D-128

INPUT POWER 0.37 kW

n_2 (O/P RPM)	M_2 (Nm)	i_n (Ratio)	F_{Rn} (N)	f_s (Service Factor)	Model
30	90	44.8	4950	1.5	DFK128/44.8/160-14 DRK128/44.8/160-14
40	70	34.3	3340	1.8	DFK128/34.3/160-14 DRK128/34.3/160-14
53	68	26.1	4500	1.7	DFK128/26.1/160-14 DRK128/26.1/160-14
64	59	21.7	4400	1.7	DFK128/21.7/160-14 DRK128/21.7/160-14
75	48	18.4	4100	1.8	DFK128/18.4/160-14 DRK128/18.4/160-14
87	40	15.8	3980	1.9	DFK128/15.8/160-14 DRK128/15.8/160-14
100	35	13.8	3900	2	DFK128/13.8/160-14 DRK128/13.8/160-14
120	27	11.3	3830	3.8	DFK128/11.3/160-14 DRK128/11.3/160-14
145	24	9.7	3700	4.8	DFK128/9.7/160-14 DRK128/9.7/160-14
200	17	6.8	3500	5.9	DFK128/6.8/160-14 DRK128/6.8/160-14
251	14	5.5	3150	6.2	DFK128/5.5/160-14 DRK128/5.5/160-14
287	12	4.9	3300	6.4	DFK128/4.9/160-14 DRK128/4.9/160-14
345	10	4	2750	6.8	DFK128/4.0/160-14 DRK128/4.0/160-14

INPUT POWER 0.75 kW

n_2 (O/P RPM)	M_2 (Nm)	i_n (Ratio)	F_{Rn} (N)	f_s (Service Factor)	Model
31	180	44.8	4200	0.9	DFK128/44.8/200-19 DRK128/44.8/200-19
41	169	34.3	4250	1	DFK128/34.3/200-19 DRK128/34.3/200-19
54	136	26.1	4100	1.2	DFK128/26.1/200-19 DRK128/26.1/200-19
65	115	21.7	3900	1.3	DFK128/21.7/200-19 DRK128/21.7/200-19
77	91	18.4	3800	1.5	DFK128/18.4/200-19 DRK128/18.4/200-19
89	81	15.8	3720	1.6	DFK128/15.8/200-19 DRK128/15.8/200-19
102	67	13.8	3700	1.7	DFK128/13.8/200-19 DRK128/13.8/200-19
123	57	11.3	3660	2.2	DFK128/11.3/200-19 DRK128/11.3/200-19
147	46	9.7	3550	2.5	DFK128/9.7/200-19 DRK128/9.7/200-19
203	34	6.8	3400	3	DFK128/6.8/200-19 DRK128/6.8/200-19
256	28	5.5	3250	3.7	DFK128/5.5/200-19 DRK128/5.5/200-19
287	25	4.9	3350	4	DFK128/4.9/200-19 DRK128/4.9/200-19
353	20	4	3000	4.6	DFK128/4.0/200-19 DRK128/4.0/200-19
402	17	3.5	3100	5	DFK128/3.5/200-19 DRK128/3.5/200-19

INPUT POWER 1.10 kW

n_2 (O/P RPM)	M_2 (Nm)	i_n (Ratio)	F_{Rn} (N)	f_s (Service Factor)	Model
65	167	21.7	3480	1.1	DFK128/21.7/200-24 DRK128/21.7/200-24
77	134	18.4	3500	1.3	DFK128/18.4/200-24 DRK128/18.4/200-24
89	120	15.8	3450	1.4	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
122	83	11.3	3500	1.6	DFK128/11.3/200-24 DRK128/11.3/200-24
147	70	9.7	3400	1.7	DFK128/9.7/200-24 DRK128/9.7/200-24
203	50	6.8	3320	2	DFK128/6.8/200-24 DRK128/6.8/200-24
257	41	5.5	3200	2.5	DFK128/5.5/200-24 DRK128/5.5/200-24
287	36	4.9	3136	2.9	DFK128/4.9/200-24 DRK128/4.9/200-24
345	32	4	3030	3.1	DFK128/4.0/200-24 DRK128/4.0/200-24
405	26	3.5	3000	3.5	DFK128/3.5/200-24 DRK128/3.5/200-24

INPUT POWER 1.50 kW

n_2 (O/P RPM)	M_2 (Nm)	i_n (Ratio)	F_{Rn} (N)	f_s (Service Factor)	Model
65	225	21.7	2600	0.9	DFK128/21.7/200-24 DRK128/21.7/200-24
77	180	18.4	2150	1	DFK128/18.4/200-24 DRK128/18.4/200-24
89	162	15.8	2450	1.1	DFK128/15.8/200-24 DRK128/15.8/200-24
102	136	13.8	2700	1.1	DFK128/13.8/200-24 DRK128/13.8/200-24
122	113	11.3	3300	1.2	DFK128/11.3/200-24 DRK128/11.3/200-24
147	92	9.7	3250	1.3	DFK128/9.7/200-24 DRK128/9.7/200-24
203	68	6.8	3200	1.5	DFK128/6.8/200-24 DRK128/6.8/200-24
258	55	5.5	3120	1.8	DFK128/5.5/200-24 DRK128/5.5/200-24
287	46	4.9	3000	2.2	DFK128/4.9/200-24 DRK128/4.9/200-24
355	40	4	2900	2.2	DFK128/4.0/200-24 DRK128/4.0/200-24
405	34	3.5	2700	2.5	DFK128/3.5/200-24 DRK128/3.5/200-24

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

HELICAL GEAR BOX

AC MOTORS

Power Rating Table

D-102

INPUT POWER 0.25 kW

n_2 (O/P RPM)	M_2 (Nm)	i_n (Ratio)	F_{in} (N)	f_s (Service Factor)	Model
38	58	36.1	3750	1.7	DFK102/36.1/160-14 DRK102/36.1/160-14
44	52	31.2	3340	1.9	DFK102/31.2/160-14 DRK102/31.2/160-14
51	47	26.7	3220	2	DFK102/26.7/160-14 DRK102/26.7/160-14
57	40	24.1	3120	2.3	DFK102/24.1/160-14 DRK102/24.1/160-14
77	30	17.8	2980	2.5	DFK102/17.8/160-14 DRK102/17.8/160-14
102	23	13.5	2790	3.3	DFK102/13.5/160-14 DRK102/13.5/160-14
125	20	11	2740	3.9	DFK102/11.0/160-14 DRK102/11.0/160-14
145	19	9.5	2670	4.2	DFK102/9.50/160-14 DRK102/9.50/160-14
175	14	7.9	2580	4.8	DFK102/7.90/160-14 DRK102/7.90/160-14
200	12	6.9	2490	5.2	DFK102/6.90/160-14 DRK102/6.90/160-14
246	9	5.6	2410	6.4	DFK102/5.60/160-14 DRK102/5.60/160-14
293	8	4.7	2340	7.3	DFK102/4.70/160-14 DRK102/4.70/160-14
336	7	4.1	2280	8	DFK102/4.10/160-14 DRK102/4.10/160-14

INPUT POWER 0.37 kW

n_2 (O/P RPM)	M_2 (Nm)	i_n (Ratio)	F_{in} (N)	f_s (Service Factor)	Model
38	82	36.1	3850	1.1	DFK102/36.1/160-14 DRK102/36.1/160-14
44	75	31.2	3300	1.3	DFK102/31.2/160-14 DRK102/31.2/160-14
51	68	26.7	3170	1.5	DFK102/26.7/160-14 DRK102/26.7/160-14
57	57	24.1	3050	1.6	DFK102/24.1/160-14 DRK102/24.1/160-14
77	44	17.8	2930	1.8	DFK102/17.8/160-14 DRK102/17.8/160-14
102	35	13.5	2740	2.2	DFK102/13.5/160-14 DRK102/13.5/160-14
125	25	11	2690	2.8	DFK102/11.0/160-14 DRK102/11.0/160-14
145	24	9.5	2620	3.1	DFK102/9.50/160-14 DRK102/9.50/160-14
175	19	7.9	2530	3.3	DFK102/7.90/160-14 DRK102/7.90/160-14
200	17	6.9	2440	3.5	DFK102/6.90/160-14 DRK102/6.90/160-14
246	13	5.6	2380	4.3	DFK102/5.60/160-14 DRK102/5.60/160-14
293	11	4.7	2310	4.9	DFK102/4.70/160-14 DRK102/4.70/160-14
336	10	4.1	2280	5.2	DFK102/4.10/160-14 DRK102/4.10/160-14

INPUT POWER 0.55 kW

n_2 (O/P RPM)	M_2 (Nm)	i_n (Ratio)	F_{in} (N)	f_s (Service Factor)	Model
52	95	26.7	3170	0.95	DFK102/26.7/200-19 DRK102/26.7/200-19
58	88	24.1	2790	1	DFK102/24.1/200-19 DRK102/24.1/200-19
78	61	17.8	2930	1.2	DFK102/17.8/200-19 DRK102/17.8/200-19
103	47	13.5	2740	1.5	DFK102/13.5/200-19 DRK102/13.5/200-19
126	41	11	2690	1.8	DFK102/11.0/200-19 DRK102/11.0/200-19
146	39	9.5	2620	2	DFK102/9.50/200-19 DRK102/9.50/200-19
176	29	7.9	2530	2.1	DFK102/7.90/200-19 DRK102/7.90/200-19
201	25	6.9	2440	2.4	DFK102/6.90/200-19 DRK102/6.90/200-19
248	20	5.6	2380	3.2	DFK102/5.60/200-19 DRK102/5.60/200-19
297	17	4.7	2310	3.7	DFK102/4.70/200-19 DRK102/4.70/200-19
340	15	4.1	2280	3.9	DFK102/4.10/200-19 DRK102/4.10/200-19

INPUT POWER 0.75 kW

n_2 (O/P RPM)	M_2 (Nm)	i_n (Ratio)	F_{in} (N)	f_s (Service Factor)	Model
80	80	17.8	2930	0.9	DFK102/17.8/200-19 DRK102/17.8/200-19
105	65	13.5	2740	1.1	DFK102/13.5/200-19 DRK102/13.5/200-19
128	55	11	2690	1.4	DFK102/11.0/200-19 DRK102/11.0/200-19
148	48	9.5	2620	1.5	DFK102/9.50/200-19 DRK102/9.50/200-19
178	38	7.9	2530	1.6	DFK102/7.90/200-19 DRK102/7.90/200-19
203	34	6.9	2440	1.7	DFK102/6.90/200-19 DRK102/6.90/200-19
251	26	5.6	2380	2.2	DFK102/5.60/200-19 DRK102/5.60/200-19
300	22	4.7	2310	2.5	DFK102/4.70/200-19 DRK102/4.70/200-19
344	20	4.1	2280	2.6	DFK102/4.10/200-19 DRK102/4.10/200-19

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

HELICAL GEAR BOX

AC MOTORS

Power Rating Table

D-128

INPUT POWER 0.37 kW

n_2 (O/P RPM)	M_2 (Nm)	i_n (Ratio)	F_{sn} (N)	f_s (Service Factor)	Model
30	90	44.8	4950	1.5	DFK128/44.8/160-14 DRK128/44.8/160-14
40	70	34.3	3340	1.8	DFK128/34.3/160-14 DRK128/34.3/160-14
53	68	26.1	4500	1.7	DFK128/26.1/160-14 DRK128/26.1/160-14
64	59	21.7	4400	1.7	DFK128/21.7/160-14 DRK128/21.7/160-14
75	48	18.4	4100	1.8	DFK128/18.4/160-14 DRK128/18.4/160-14
87	40	15.8	3980	1.9	DFK128/15.8/160-14 DRK128/15.8/160-14
100	35	13.8	3900	2	DFK128/13.8/160-14 DRK128/13.8/160-14
120	27	11.3	3830	3.8	DFK128/11.3/160-14 DRK128/11.3/160-14
145	24	9.7	3700	4.8	DFK128/9.7/160-14 DRK128/9.7/160-14
200	17	6.8	3500	5.9	DFK128/6.8/160-14 DRK128/6.8/160-14
251	14	5.5	3150	6.2	DFK128/5.5/160-14 DRK128/5.5/160-14
287	12	4.9	3300	6.4	DFK128/4.9/160-14 DRK128/4.9/160-14
345	10	4	2750	6.8	DFK128/4.0/160-14 DRK128/4.0/160-14

INPUT POWER 0.75 kW

n_2 (O/P RPM)	M_2 (Nm)	i_n (Ratio)	F_{sn} (N)	f_s (Service Factor)	Model
31	180	44.8	4200	0.9	DFK128/44.8/200-19 DRK128/44.8/200-19
41	169	34.3	4250	1	DFK128/34.3/200-19 DRK128/34.3/200-19
54	136	26.1	4100	1.2	DFK128/26.1/200-19 DRK128/26.1/200-19
65	115	21.7	3900	1.3	DFK128/21.7/200-19 DRK128/21.7/200-19
77	91	18.4	3800	1.5	DFK128/18.4/200-19 DRK128/18.4/200-19
89	81	15.8	3720	1.6	DFK128/15.8/200-19 DRK128/15.8/200-19
102	67	13.8	3700	1.7	DFK128/13.8/200-19 DRK128/13.8/200-19
123	57	11.3	3660	2.2	DFK128/11.3/200-19 DRK128/11.3/200-19
147	46	9.7	3550	2.5	DFK128/9.7/200-19 DRK128/9.7/200-19
203	34	6.8	3400	3	DFK128/6.8/200-19 DRK128/6.8/200-19
256	28	5.5	3250	3.7	DFK128/5.5/200-19 DRK128/5.5/200-19
287	25	4.9	3350	4	DFK128/4.9/200-19 DRK128/4.9/200-19
353	20	4	3000	4.6	DFK128/4.0/200-19 DRK128/4.0/200-19
402	17	3.5	3100	5	DFK128/3.5/200-19 DRK128/3.5/200-19

INPUT POWER 1.10 kW

n_2 (O/P RPM)	M_2 (Nm)	i_n (Ratio)	F_{sn} (N)	f_s (Service Factor)	Model
65	167	21.7	3480	1.1	DFK128/21.7/200-24 DRK128/21.7/200-24
77	134	18.4	3500	1.3	DFK128/18.4/200-24 DRK128/18.4/200-24
89	120	15.8	3450	1.4	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
122	83	11.3	3500	1.6	DFK128/11.3/200-24 DRK128/11.3/200-24
147	70	9.7	3400	1.7	DFK128/9.7/200-24 DRK128/9.7/200-24
203	50	6.8	3320	2	DFK128/6.8/200-24 DRK128/6.8/200-24
257	41	5.5	3200	2.5	DFK128/5.5/200-24 DRK128/5.5/200-24
287	36	4.9	3136	2.9	DFK128/4.9/200-24 DRK128/4.9/200-24
345	32	4	3030	3.1	DFK128/4.0/200-24 DRK128/4.0/200-24
405	26	3.5	3000	3.5	DFK128/3.5/200-24 DRK128/3.5/200-24

INPUT POWER 1.50 kW

n_2 (O/P RPM)	M_2 (Nm)	i_n (Ratio)	F_{sn} (N)	f_s (Service Factor)	Model
65	225	21.7	2600	0.9	DFK128/21.7/200-24 DRK128/21.7/200-24
77	180	18.4	2150	1	DFK128/18.4/200-24 DRK128/18.4/200-24
89	162	15.8	2450	1.1	DFK128/15.8/200-24 DRK128/15.8/200-24
102	136	13.8	2700	1.1	DFK128/13.8/200-24 DRK128/13.8/200-24
122	113	11.3	3300	1.2	DFK128/11.3/200-24 DRK128/11.3/200-24
147	92	9.7	3250	1.3	DFK128/9.7/200-24 DRK128/9.7/200-24
203	68	6.8	3200	1.5	DFK128/6.8/200-24 DRK128/6.8/200-24
258	55	5.5	3120	1.8	DFK128/5.5/200-24 DRK128/5.5/200-24
287	46	4.9	3000	2.2	DFK128/4.9/200-24 DRK128/4.9/200-24
355	40	4	2900	2.2	DFK128/4.0/200-24 DRK128/4.0/200-24
405	34	3.5	2700	2.5	DFK128/3.5/200-24 DRK128/3.5/200-24

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

HELICAL GEAR BOX

AC MOTORS

Power Rating Table

D-142

INPUT POWER 0.75 kW

n_2 (O/P RPM)	M_2 (Nm)	i_n (Ratio)	F_{in} (N)	f_s (Service Factor)	Model
26	240	53.6	6400	1	DFK142/53.6/200-19 DRK142/53.6/200-19
32	220	44.6	6000	1.3	DFK142/44.6/200-19 DRK142/44.6/200-19
40	178	35.8	5800	1.5	DFK142/35.8/200-19 DRK142/35.8/200-19
54	139	26.3	5450	1.6	DFK142/26.3/200-19 DRK142/26.3/200-19
65	117	21.8	5350	1.7	DFK142/21.8/200-19 DRK142/21.8/200-19
77	90	18.4	5000	1.8	DFK142/18.4/200-19 DRK142/18.4/200-19
94	80	15.0	4900	1.9	DFK142/15.0/200-19 DRK142/15.0/200-19
103	67	13.7	4820	2	DFK142/13.7/200-19 DRK142/13.7/200-19
118	55	11.6	4750	2.4	DFK142/11.6/200-19 DRK142/11.6/200-19
140	52	9.8	4700	3	DFK142/9.8/200-19 DRK142/9.8/200-19
190	35	7.2	4600	3.5	DFK142/7.2/200-19 DRK142/7.2/200-19
250	29	5.6	4400	5.2	DFK142/5.6/200-19 DRK142/5.6/200-19
295	24	4.8	4300	6.0	DFK142/4.8/200-19 DRK142/4.8/200-19
336	22	4.2	4100	7.3	DFK142/4.2/200-19 DRK142/4.2/200-19

INPUT POWER 1.10 kW

n_2 (O/P RPM)	M_2 (Nm)	i_n (Ratio)	F_{in} (N)	f_s (Service Factor)	Model
32	328	44.6	5600	0.9	DFK142/44.6/200-24 DRK142/44.6/200-24
40	260	35.8	5350	1.1	DFK142/35.8/200-24 DRK142/35.8/200-24
54	205	26.3	5180	1.5	DFK142/26.3/200-24 DRK142/26.3/200-24
65	173	21.8	5050	1.6	DFK142/21.8/200-24 DRK142/21.8/200-24
77	134	18.4	4850	1.7	DFK142/18.4/200-24 DRK142/18.4/200-24
95	115	15.0	4900	1.8	DFK142/15.0/200-24 DRK142/15.0/200-24
103	95	13.7	4820	1.9	DFK142/13.7/200-24 DRK142/13.7/200-24
118	86	11.6	4750	2.3	DFK142/11.6/200-24 DRK142/11.6/200-24
141	72	9.8	4600	2.7	DFK142/9.8/200-24 DRK142/9.8/200-24
193	52	7.2	4450	3	DFK142/7.2/200-24 DRK142/7.2/200-24
253	42	5.6	4300	3.9	DFK142/5.6/200-24 DRK142/5.6/200-24
296	38	4.8	4200	4.5	DFK142/4.8/200-24 DRK142/4.8/200-24
337	32	4.2	4150	4.8	DFK142/4.2/200-24 DRK142/4.2/200-24
386	26	3.6	4100	5.5	DFK142/3.6/200-24 DRK142/3.6/200-24

INPUT POWER 1.50 kW

n_2 (O/P RPM)	M_2 (Nm)	i_n (Ratio)	F_{in} (N)	f_s (Service Factor)	Model
40	360	35.8	4200	1	DFK142/35.8/200-24 DRK142/35.8/200-24
54	277	26.3	3900	1.1	DFK142/26.3/200-24 DRK142/26.3/200-24
65	234	21.8	4300	1.2	DFK142/21.8/200-24 DRK142/21.8/200-24
77	182	18.4	4400	1.3	DFK142/18.4/200-24 DRK142/18.4/200-24
103	130	13.7	4600	1.6	DFK142/13.7/200-24 DRK142/13.7/200-24
118	116	11.6	4550	1.7	DFK142/11.6/200-24 DRK142/11.6/200-24
141	98	9.8	4450	2	DFK142/9.8/200-24 DRK142/9.8/200-24
194	71	7.2	4340	2.2	DFK142/7.2/200-24 DRK142/7.2/200-24
250	55	5.6	4200	2.9	DFK142/5.6/200-24 DRK142/5.6/200-24
295	48	4.8	4100	3.2	DFK142/4.8/200-24 DRK142/4.8/200-24
338	40	4.2	4000	3.6	DFK142/4.2/200-24 DRK142/4.2/200-24
389	35	4.6	3950	4	DFK142/3.6/200-24 DRK142/3.6/200-24

INPUT POWER 2.20 kW

n_2 (O/P RPM)	M_2 (Nm)	i_n (Ratio)	F_{in} (N)	f_s (Service Factor)	Model
119	170	11.6	4210	1.1	DFK142/11.6/250-28 DRK142/11.6/250-28
140	144	9.8	4150	1.4	DFK142/9.8/250-28 DRK142/9.8/250-28
194	104	7.2	4060	1.6	DFK142/7.2/250-28 DRK142/7.2/250-28
250	81	5.6	4000	2	DFK142/5.6/250-28 DRK142/5.6/250-28
295	70	4.8	3900	2.3	DFK142/4.8/250-28 DRK142/4.8/250-28
338	58	4.2	3800	2.4	DFK142/3.6/250-28 DRK142/3.6/250-28
389	52	3.6	3750	2.7	DFK142/3.6/250-28 DRK142/3.6/250-28

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

HELICAL GEAR BOX

AC MOTORS

Power Rating Table

D-162

INPUT POWER 1.10 kW

n_1 (O/P RPM)	M_1 (Nm)	i_n (Ratio)	F_{in} (N)	f_s (Service Factor)	Model
25	430	55.8	10500	1.3	DFK162/55.8/200-24 DRK162/55.8/200-24
30	331	45.5	10000	1.6	DFK162/45.5/200-24 DRK162/45.5/200-24
42	234	33.7	9400	2.1	DFK162/33.7/200-24 DRK162/33.7/200-24
51	190	27.9	9000	2.3	DFK162/27.9/200-24 DRK162/27.9/200-24
60	165	23.6	8800	2.4	DFK162/23.6/200-24 DRK162/23.6/200-24
75	137	18.8	8600	2.4	DFK162/18.8/200-24 DRK162/18.8/200-24
104	100	13.5	8300	2.6	DFK162/13.5/200-24 DRK162/13.5/200-24
126	80	11.2	7750	2.7	DFK162/11.2/200-24 DRK162/11.2/200-24

INPUT POWER 1.50 kW

n_1 (O/P RPM)	M_1 (Nm)	i_n (Ratio)	F_{in} (N)	f_s (Service Factor)	Model
25	520	55.8	10000	1	DFK162/55.8/200-24 DRK162/55.8/200-24
30	448	45.5	9500	1.2	DFK162/45.5/200-24 DRK162/45.5/200-24
42	316	33.7	9000	1.5	DFK162/33.7/200-24 DRK162/33.7/200-24
51	254	27.9	8600	1.7	DFK162/27.9/200-24 DRK162/27.9/200-24
60	220	23.6	8500	1.7	DFK162/23.6/200-24 DRK162/23.6/200-24
75	187	18.8	8400	1.7	DFK162/18.8/200-24 DRK162/18.8/200-24
104	140	13.5	4600	1.8	DFK162/13.5/200-24 DRK162/13.5/200-24
126	112	11.2	4200	1.9	DFK162/11.2/200-24 DRK162/11.2/200-24
149	95	9.4	4400	2.1	DFK162/9.40/200-24 DRK162/9.40/200-24

INPUT POWER 2.20 kW

n_1 (O/P RPM)	M_1 (Nm)	i_n (Ratio)	F_{in} (N)	f_s (Service Factor)	Model
31	657	45.5	8000	0.8	DFK162/45.5/250-28 DRK162/45.5/250-28
43	464	33.7	8270	1.1	DFK162/33.7/250-28 DRK162/33.7/250-28
52	373	27.9	8030	1.3	DFK162/27.9/250-28 DRK162/27.9/250-28
60	327	23.6	7900	1.4	DFK162/23.6/250-28 DRK162/23.6/250-28
75	272	18.8	8000	1.5	DFK162/18.8/250-28 DRK162/18.8/250-28
105	193	13.5	7680	2	DFK162/13.5/250-28 DRK162/13.5/250-28
127	160	11.2	7500	2.2	DFK162/11.2/250-28 DRK162/11.2/250-28
149	135	9.4	7300	2.5	DFK162/9.40/250-28 DRK162/9.40/250-28
285	75	5.0	6900	3.9	DFK162/5.00/250-28 DRK162/5.00/250-28

INPUT POWER 3.70 kW

n_1 (O/P RPM)	M_1 (Nm)	i_n (Ratio)	F_{in} (N)	f_s (Service Factor)	Model
75	488	18.8	5900	0.9	DFK162/18.8/250-28 DRK162/18.8/250-28
105	346	13.5	6900	1.2	DFK162/13.5/250-28 DRK162/13.5/250-28
127	290	11.2	6700	1.4	DFK162/11.2/250-28 DRK162/11.2/250-28
151	243	9.4	6700	1.6	DFK162/9.40/250-28 DRK162/9.40/250-28
285	133	5.0	6500	2.1	DFK162/5.00/250-28 DRK162/5.00/250-28

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

HELICAL GEAR BOX

AC MOTORS

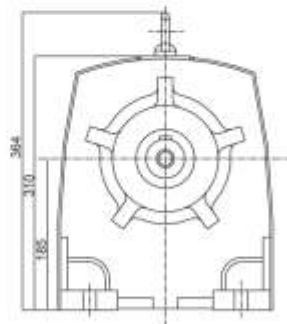
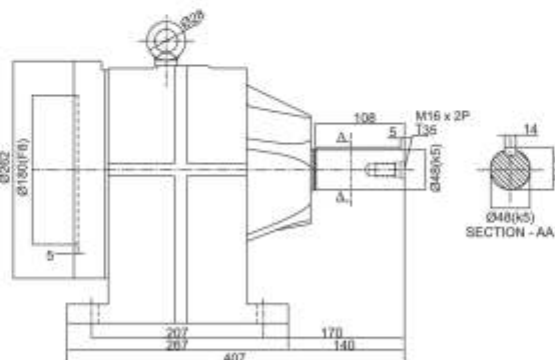
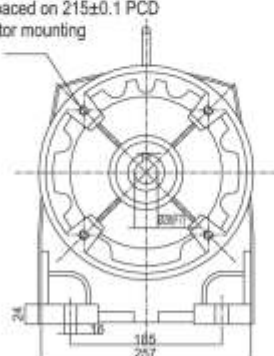
D Series :

Model DFK-185



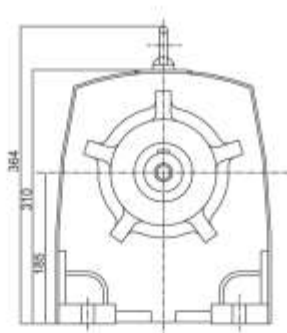
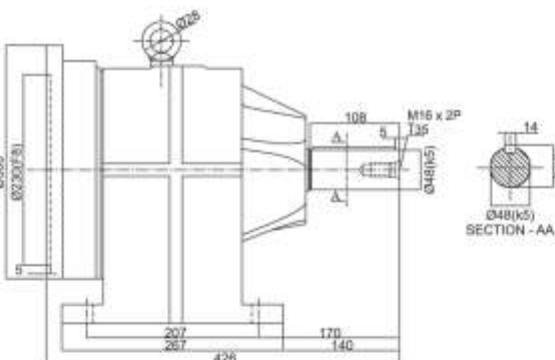
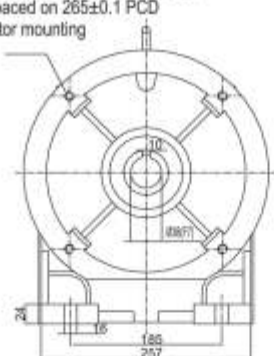
INPUT POWER 4 kW

4 Holes of M12 x 1.75 P x 14 Deep
Equispaced on 215±0.1 PCD
for motor mounting



INPUT POWER 5.5 kW

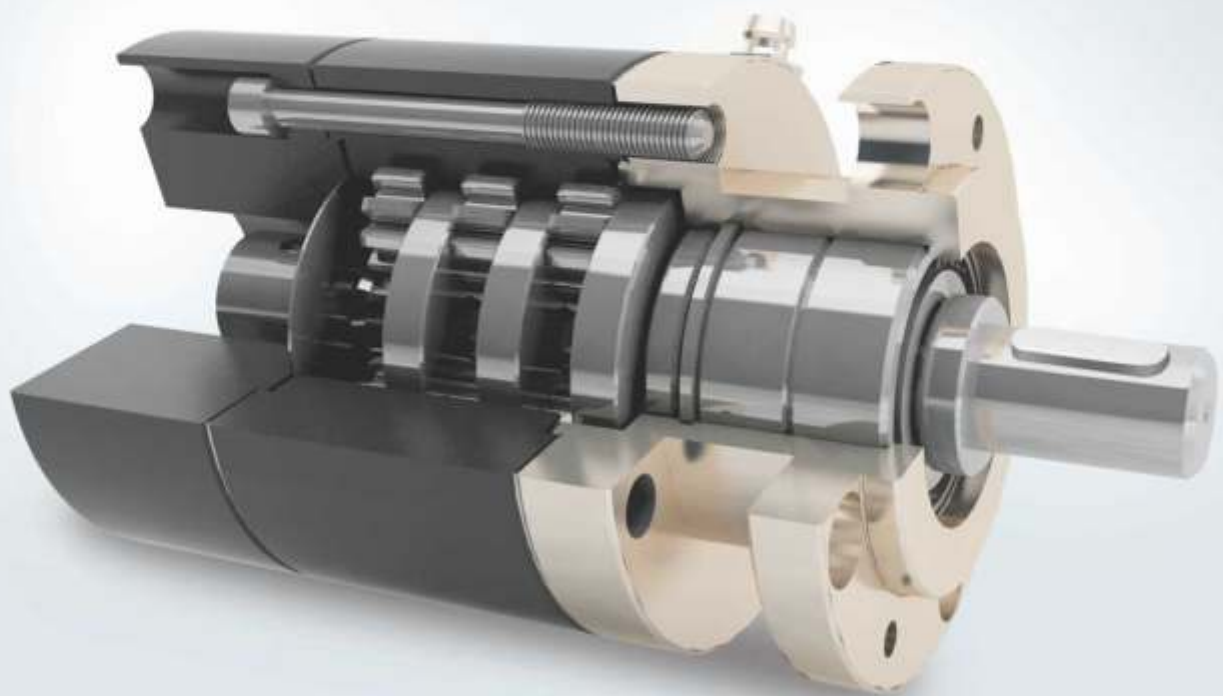
4 Holes of M12 x 1.75 P x 25 Deep
Equispaced on 265±0.1 PCD
for motor mounting



Power Rating Table

DFK-185

INPUT POWER 4 kW						INPUT POWER 5.5 kW					
n_1 (O/P RPM)	M_2 (Nm)	i_n (Ratio)	F_{Rn} (N)	f_s (Service Factor)	Model	n_1 (O/P RPM)	M_2 (Nm)	i_n (Ratio)	F_{Rn} (N)	f_s (Service Factor)	Model
44	8.5	32.3	4050	1.1	DFK185/32.3/250-28	73	675	19.4	6800	1.3	DFK185/19.4/300-38
52	710	27.5	6800	1.2	DFK185/27.5/250-28	99	513	14.4	8000	1.6	DFK185/14.4/300-38
60	612	23.7	9200	1.4	DFK185/23.7/250-28	135	370	10.5	9200	1.8	DFK185/10.5/300-38
73	505	19.4	10100	1.6	DFK185/19.4/250-28	156	305	9.1	10700	2	DFK185/9.10/300-38
99	375	14.4	10700	2.1	DFK185/14.4/250-28	209	230	6.8	10900	2.5	DFK185/6.80/300-38
135	270	10.5	11200	2.6	DFK185/10.5/250-28	290	170	4.9	11000	2.9	DFK185/4.90/300-38



MINI PLANETARY GEAR BOX

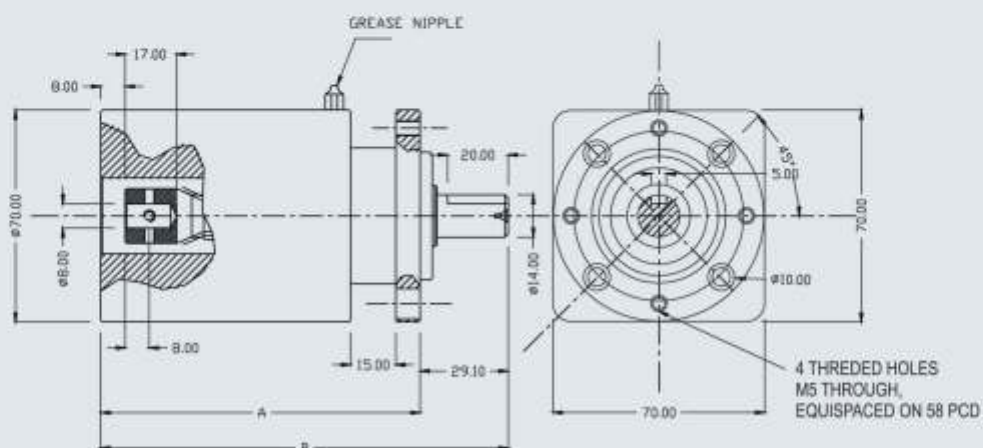
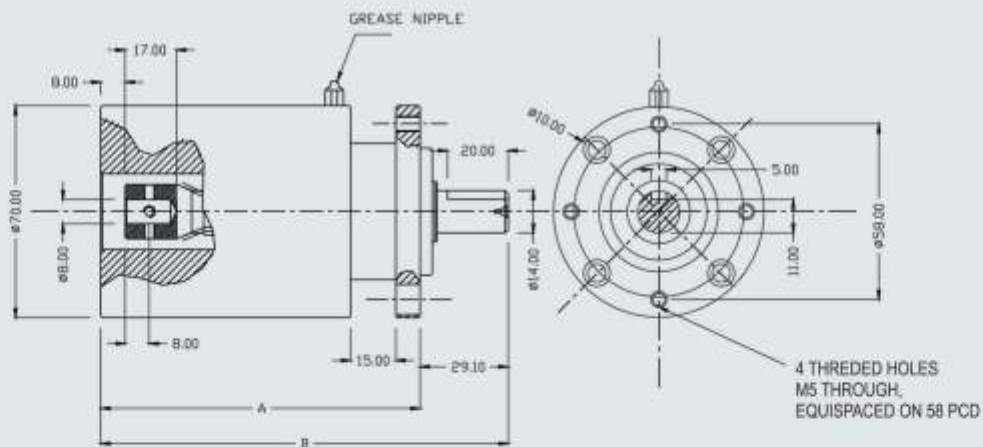
DC MOTORS

MINI PLANETARY GEAR BOX

DC MOTORS



VP 70 Series





Gear Box Input Speed : 3000rpm Max

Stages of Gear box

Parameters	Single Stage	Two Stage	Three Stage
Ratio	4.5 : 1	20 : 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 ^{-1.0/-2.0}	92.5 ^{-1.0/-2.0}	106 ^{-1.0/-2.0}
Total Length (B)	107 ^{-1.0/-2.0}	121.5 ^{-1.0/-2.0}	135 ^{-1.0/-2.0}

Gear Box Input Speed : 3000rpm Max

Stages of Gear box

Parameters	Four Stage	Five Stage	Six Stage
Ratio	410 : 1	1845 : 1	8304 : 1
Torque Capacity	135 Nm	602 Nm	2685 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)	117 ^{-1.0/-2.0}	128 ^{-1.0/-2.0}	139 ^{-1.0/-2.0}
Total Length (B)	146 ^{-1.0/-2.0}	157 ^{-1.0/-2.0}	168 ^{-1.0/-2.0}

Elevators

- Bucket – uniform load
- Bucket – heavy load
- Bucket – continuous
- Centrifugal discharges
- Escalators
- Freight
- Gravity discharges
- Man lifts-
- Passenger lifts

Oil industry

- Chillers
- Oil well pumping
- Paraffin filter press
- Rotary kilns

Blowers

- Centrifugal
- Lobe
- Vane



Applications



Automized Gate

- Industrial
- Domestic
- Shutter

Food industry

Beef slicer
Cereal cooker
Dough mixer
Meat grinders

Paper Mills

Agitators (mixers)
Barker- auxiliaries- hydraulic
Barker –mechanical
Barker –drum
Beater and pulper
Bleacher
Calenders
Calenders - super
Converting machine
Expect cutters – platers
Conveyors
Couch
Cutters – platers
Cylinders
Dryers
Felt stretcher
Felt whipper
Jordans
Log haul
Presses
Pulp machine reel
Stock chest
suction roll
washers and thickeners
winders

Cranes

Main hoists
Bridge travel
Trolley travel



Mixers

Concrete mixers-continuous
Constant density
Variable density

Applications



ISO 9001:2015 Certified Company

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AC
DC
Series Gear Box



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