

ROTOFLEX[®]



CHETHANA PRECI PRODUCTS

www.rotoflexindia.com • email: cheprepro@yahoo.co.in



Agitator type Helical
Reduction Geared
Motor 2/3 Stage



Agitator type Coupled
Helical Reduction Geared
Motor 4 Stage



Agitator type Coupled
Helical Reduction Geared
Motor 5/6 Stage



Hollow o/p Geared
Motor 2 Stage



Inline Input Shaft type
Gear Box Foot type 1 Stage



Inline Input Shaft Helical Reduction
Gear Box Foot Type 2/3 Stage

DISC BRAKES



DISC BRAKE - CMSH



DISC BRAKE - CE - 2



DISC BRAKE - CMSA



DISC BRAKE - CMXB



DISC BRAKE - CMXA



DISC BRAKE - GMR



DISC BRAKE - CMD

ROTOFLEX GEARED MOTORS AND GEARBOXES

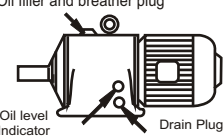
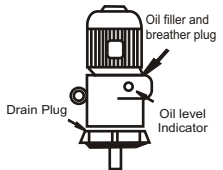
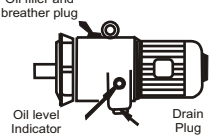
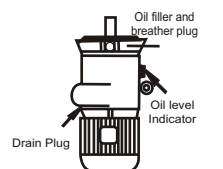
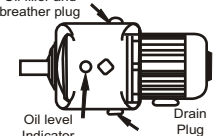
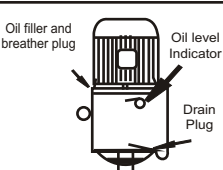
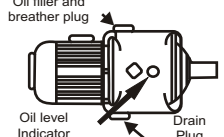
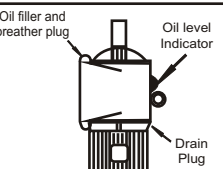
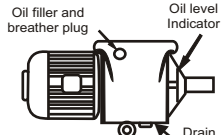
RANGE : Power 0.16 HP (0.12KW) to 100 HP (75KW), O/P Speed 1.0 RPM to 720 RPM
O/P Torque upto 2600 Kg.M. (26,000 NM)

CONSTRUCTION : Robust and integral case is made of cast iron grade 15/20 IS-210/1970. All the gears and pinions are helical only. Design of gears for strength and correction of gears are as per IS -4460 -1969 and CMTI standards. All gear wheels, pinions and shafts are made of high quality alloy steels as per IS - 1570 and are hardened and tempered. All the bearings are designed for tough reversible applications and long life. Depending on the out put speeds, the gears are arranged in 1/2/3/4/5/6 stage reduction. The reduction ratio required is uniformly distributed on different stages to ensure that the geared motor will have the optimum strength and rigidity. For very low output speeds below 1 rpm in some applications, Helio drive gearboxes are selected. Helio drive gearboxes are a combination of helical and internal gears. The parts are manufactured with high accuracy standards and they are interchangeable. The spares are available at short notice from our works. The gearboxes can be coupled to standard induction motors, hydraulic motors, brake motors, flame proof motors, dual speed motors, DC or PMDC motors, torque motors etc.,

LUBRICATION : Smaller models up to 33K series are supplied grease packed for life and bigger gearboxes are designed for splash type of lubrication. 43K series and above gearboxes are provided with breather plug, oil level indicator & oil drain plug. The breather plug is also the oil filling point and is located at the top most position.

TESTING : All the geared motors are tested on our test benches for a minimum period of 5 to 6 hours under load conditions in both directions of rotation. All parameters like, noise level vibration, efficiency etc., are thoroughly checked. All parameters will be well within international standards.

MOUNTINGS : The geared motors are available in all types of mountings like Foot Mounting, Flange Mounting, Hollow Output, Agitator Mounting, Foot cum Flange Mounting etc., The geared motors can be supplied for various standard mounting positions like B3, B5, B6, B7, B8, V1, V3, V5 & V6 and also inclined mounting positions. Please refer to the figure on this page for the types of mounting positions & select the position suitable to your application. This data is very important because wrong data can lead to improper lubrication of gearbox leading to failure of gearbox.

Mounting Position	Abbreviation	Mounting Position	Abbreviation
	B3		V1
	B5		V3
	B6		V5
	B7		V6
	B8		

For heavy geared motors & gearboxes the recommended mounting positions are B3 and V1 only.

STRONG RECOMMENDATION :

- * Use electronic soft starters for Motors above 7.5 HP, which provides smooth application of torque, eliminates mechanical shock during start, thus preventing damage to the motor, gear box, coupling & machine.
- * All gearbox / geared motor driven Elements, having output speeds more than 220 RPM should be dynamically balanced, Motors should also be of vibration class V5, which avoids vibration of the equipment.

ADVANTAGES OF ROTOFLEX HELICAL GEARBOXES OVER WORM GEARBOXES

1. CONSIDERABLE SAVINGS IN POWER BILL.

ROTOFLEX helical gearboxes are extremely efficient & rigid. The power loss per stage of reduction is just between 1 to 3%. For example, a single stage gearbox like model 61KH will have 97% efficiency, a two stage gearbox like 62KH will have 95% efficiency, a three stage gearbox like 63KH will have 92% efficiency.

Efficiency means the power output divided by the power input. This means if a gearbox having 95% efficiency is given an input power of 1KW, the output power will be 0.95KW. The difference of 0.05KW power is lost in the form of heat. In ROTOFLEX helical gearboxes the heat generated is very less. Hence the life of the lubricant, oil seals, bearings are more, (almost fit & forget)

Low efficiency worm gearboxes use higher HP motors where as higher efficiency gearboxes use lesser power motors for the same load, which results in good savings in power bills & cost of electrical elements like contactors, starters, cables etc., will also be less.

The so called new generation hollow shaft worm gearboxes available in our market today (with light die cast aluminum bodies) are the most inefficient drives. A reputed manufacturer of these gearboxes, states in their catalogue that a gearbox of ratio 40:1 has an efficiency of 65% only. Similarly the same company gearbox of ratio 70:1 has an efficiency of 35% only. This means that, if an input power of 1KW is attached to a 40:1 ratio worm gearbox, the power output will be only 0.65KW. If we attach 1KW input power to a 70:1 worm gearbox, the power output will be only 0.35KW. In the first case we can easily replace the 1KW, 40:1 ratio worm gearbox with a 0.75KW, 40:1 ROTOFLEX helical gearbox. In the second case we can replace the 1KW, 70:1 ratio worm gearbox with a 0.37KW, 70:1 ROTOFLEX helical gearbox. This example shows the amount of power loss that is being incurred by the users of the above worm gearboxes. (This is common with all the different makes of worm gearboxes & worm geared motors available.)

For example, let us consider a 5HP (3.7KW) worm gearbox having reduction ratio 70:1 is being used for 20 hours per day. The user will be losing almost 3HP of power continuously, which works out to about 2.2 Units of electricity per hour or 44 units per day or 13200 units (KWh) per year. The cost of this loss works out to be nearly Rs. 50000=00 per year. Whereas the above gearbox can be replaced by 2HP, ROTOFLEX helical geared motor having ratio 70:1.

2. REDUCTION IN LOSS OF PRODUCTION :

ROTOFLEX helical gearboxes are most reliable & simple in construction. They can be easily assembled & dismantled. All wearing out components like bearings & seals are easily available in local market, which saves considerable time & energy in rectifying the equipment. The downtime of the equipment will be less & also production loss will be much lower. In ROTOFLEX geared motors, the motors used are standard flange B5 motors (as per IS 325). In case of motor failure, the motor can be replaced with a spare motor in just 5 to 10 minutes. In the worm geared motors in many cases the motors are of special construction & modified to suit the gearboxes. In case of motor failure, it is impossible to replace the motor & a spare has to be purchased from the supplier. Also many of the bearings, seals used in these worm gearboxes are of non standard type which are not easily available in local market.

3. GOOD SAVINGS IN INVENTORY:

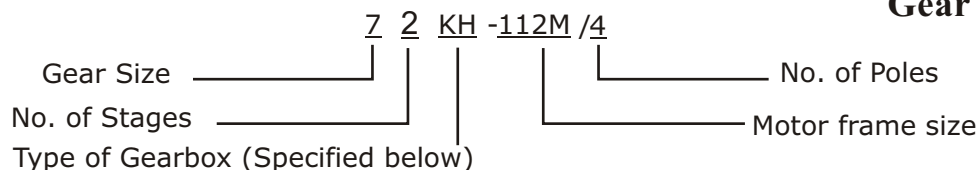
The cost of repair of these imported worm geared motors is very high (as much as a new gearbox itself.) or it is not possible to repair the gearbox at all since they use non standard bearing & seals which are not available in local markets. In ROTOFLEX helical gearboxes the cost of repair is very reasonable. Only the particular gear or pinion which has failed can be replaced (generally spares are available ex stock) whereas in the worm gearboxes both the worm & worm-wheel have to be replaced, which is very costly & time consuming.

SUGGESTION TO ALL ENGINEERS & DESIGNERS

Today India is facing a severe shortage of electricity. It is the duty of all engineers, scientists and managers to insist that every unit of electricity is used most efficiently. ROTOFLEX helical gearboxes are the first choice

Designation for Geared Motors & Gearboxes.

ROTOFLEX®
Gear Drives



KH	.....	Helical Foot Mounted model with Hollow input shaft (For Eg. 62KH)
.1KH	.....	Helical Flange Mounted model with Hollow input shaft (For Eg.62.1KH)
.2KH	.....	Helical Hollow output, shaft mounted, with Hollow input Shaft (For Eg. 62.2KH)
.3KH	.....	Helical Agitator type flange mounted model with hollow in put shaft (For Eg. 63.3KH)
.4	.....	Horizontal Gearbox (For Eg. 103.4)
.1K-I	.....	Helical Flange mounted model with Male input shaft (For Eg. 63.1K-I)
K-I	.....	Helical Foot mounted model with Male input shaft (For Eg 63K-I)
HDH	.....	Helio drive foot mounted model with Hollow input shaft (For Eg 62HDH)
.1HDH	.....	Helio drive Flange mounted model with Hollow input shaft (For Eg.62.1HDH)
HD-I	.....	Helio drive Foot mounted model with Male input shaft (For Eg. 62HD-I)
.1HD-I	.....	Heliodrive Flange mounted model with Male input shaft (For Eg. 62.1HD-I)

In models where a + sign is present, it indicates coupled gearbox. For example; 63K+23. 1KH indicates that gearboxes 63K and 23.1KH are coupled to obtain the desired ratio/speed.

Selection Procedure :

The selection chart for HP/ KW ratings & speeds given in our catalogue are based on the following parameters:

- Prime mover-electric AC motor.
- Duration of service 12 hours/day with uniform load (U) or service factor of 1.0
- Various efficiency factors have been considered before selecting the gearbox model.

Preferred Service Factors :

Prime Mover	Duration of Service	Uniform Load U	Moderate Shock Load --M	Heavy Shock Load H	Extra Heavy Shock Load --EH
Electric AC Motor or Hydraulic Motor	Occasional 0.5hrs / day	0.5	0.8	1.25	1.75
	Intermittent 3hrs/day	0.8	1.00	1.50	2.00
	Over 3hrs / day to and including 12hrs / day	1.00	1.25	1.75	2.25
	Over 12hrs/day	1.25	1.50	2.00	2.50

For any special applications like Light / Heavy / Extra heavy duties multiply the design HP with suitable service factor and refer to selection chart for suitable gearbox model. However if the mass to be rotated is too heavy, i.e. mass acceleration factor is more than 10, please contact our technical staff for correct selection & guidance for designing your drive system. The next page gives detailed load characteristics of different applications.

Formula to find output torque (Kg.M) of geared motor :

Torque = $\frac{716 \times \text{motor power in H.P} \times \text{gearbox efficiency} \times \text{belt efficiency (if belt drive is used)}}{\text{Output speed of the gearbox (RPM)}}$
Kg.M

Estimated Efficiencies of Helical Reduction Gearboxes - K models.

1 stage reduction	2 stage reduction	3 stage reduction	4 stage reduction	5 stage reduction	6 stage reduction
0.97	0.95	0.92	0.89	0.86	0.84

Estimated Efficiencies of Helio Drive Gearboxes - HD models.

Output RPM	10	9	8	7	6	5	4.5	4	3.5	3	2.5	2	1.5	1	0.5
Efficiency	0.85	0.85	0.85	0.85	0.85	0.85	0.80	0.80	0.80	0.80	0.80	0.77	0.55	0.24	0.24

Details required for gearbox selection.

Power to be transmitted (Torque/HP/KW). Output speed (RPM), fixed or variable, Supply voltage characteristic. Working conditions like peak or shock loads (magnitude and duration to be given if possible), no of starts / stops/reversals/minute, working hours of gearbox per day, mounting type & position, acceleration time (in seconds) of the driven equipment, over hung load/thrust on the output shaft of the gearbox, environmental conditions like dust, temperature, humidity, corrosive, food industry, flame proof etc.

LOAD CHARACTERISTIC VALUES OF DIFFERENT APPLICATION

U- UNIFORM LOAD

M- MODERATE SHOCK LOAD

H- HEAVY SHOCK LOAD

EH-EXTRA HEAVY SHOCK LOAD

ROTOFLEX®
Gear Drives

DRIVEN MACHINE	LOAD	DRIVEN MACHINE	LOAD	DRIVEN MACHINE	LOAD
* Agitators		* Conveyors - Heavy Duty		* Fans	
Pure liquids ----- M		Not Uniformly Fed		Centrifugal ----- U	
Liquids & Solids ----- M		Apron ----- M		Included Draft ----- M	
Liquids- -----		Assembly ----- M		Large-Mine Etc ----- U	
Variable Density ----- H		Belt ----- M		Large Industrial ----- M	
		Bucket ----- M		Light smaller dia ----- U	
* Blowers		Chain ----- M			
Centrifugal ----- M		Flight ----- M		* Feeders	
Lobe ----- M		Oven ----- M		Apron ----- M	
Vane ----- U		Reciprocating ----- H		Belt ----- M	
		Screw ----- M		Disc ----- U	
		Shaker ----- H		Reciprocating ----- M	
				Screw ----- M	
* Brewing & Distilling		* Cranes			
Bottling -----		Main Hoists ----- M		* Food Industry	
Machinery ----- U		Traverse ----- M		Beef slicer ----- M	
Brew kettle- -----				Cereal Cooker ----- U	
Continuous duty ----- U				Dough mixer ----- M	
Cookers - -----		* Crushers		Meat grinders ----- M	
Continuous duty ----- U		Ore ----- M			
Mash Tubes -----		Stone ----- EH			
Continuous duty ----- U		Sugar ----- M			
Scale Hopper -----				* Generators	
Frequent starts ----- M				Hot Welding ----- U	
		* Dredges			
* Can Filling M/CS		Cable Reels ----- M		* Hammer Mills ----- H	
Cane Knives ----- M		Conveyors ----- M			
Car Dumpers ----- H		Cutter Head Drives ----- H		* Hoists	
Car Pullers ----- M		Jig Drives ----- H		Heavy duty ----- H	
Clarifiers ----- U		Maneuvering winches ----- M		Medium duty ----- M	
Classifiers ----- M		Pumps ----- M		Skip ----- M	
		Screen drive ----- H			
* Clay Working M/CS		Stackers ----- M		* Instrumental drive ----- U	
Brick Press ----- H		Utility Winches ----- M			
Briquette M/CS ----- H				* Laundry Tumblers ----- M	
Clay working M/CS ----- H					
Pug Mill ----- H					
		* Dry Dock Cranes			
* Compressors		Main Hoist ----- M		* Line Shafts	
Centrifugal ----- U		Auxiliary Hoist ----- M		Driving Process -----	
Lobe ----- M		Boom Luffing ----- M		Equipment ----- U	
Reciprocating Multicylinder-- M		Rotating Swing Slew ----- M		Light ----- U	
Single Cylinder ----- EH		Tracking, drive wheels----- H		Other Line shafts ----- U	
* Conveyors -Uniformly		* Elevators			
Loaded or Fed -----		Bucket Uniform Load ----- M		* Lumber Industry	
Apron ----- U		Bucket - Heavy Load----- H		Barkers - hyd-mech ----- M	
Assembly ----- U		Centrifugal Discharge----- U		Burner conveyor ----- M	
Belt ----- U		Bucket Continuous ----- U		Chain & Drag saw ----- H	
Bucket ----- U		Escalators ----- U		Chain Transfer ----- H	
Chain ----- U		Freight ----- M		Craneway Transfer ----- H	
Flight ----- U		Gravity Discharge ----- U		De-barking drum ----- H	
Oven ----- U				Edger Feed ----- M	
Screw ----- U				Gang Feed ----- M	
				Green Chain ----- M	
* Concrete Mixers				Live rolls ----- H	
Variable Density ----- EH				Log deck ----- H	
Consultant Density ----- M				Log haul-incline ----- H	
				Log haul-well type ----- H	
				Log turning device ----- H	
				Main log conveyor ----- H	

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ROTOFLEX®
Gear Drives

DRIVEN MACHINE	LOAD	DRIVEN MACHINE	LOAD	DRIVEN MACHINE	LOAD
* Lumber Industry		* Oil Industry		* Rubber & Plastic Industry	
Off bearing rolls -----	M	Chillers -----	M	Refiners -----	M
Planer feed chain -----	M	Paraffin filter press ----	M	Rubber calenders -----	M
Planer floor chains -----	M	Rotary Kiln -----	M	Rubber Mill-2 online-----	M
Planer tilting Hoist -----	M			Rubber Mill-3 online-----	M
Re-saw merry-go				Sheeter -----	M
round Conveyor -----	M	* Paper Mills		Tubers & Strainers -----	M
Roll cases -----	H	Agitators (mixers) -----	M	Warning Mills -----	M
Slab Conveyor -----	H	Barker-aux-hydraulic ----	M		
Small waste Conveyor belt-	M	Barker- Mechanical -----	M	* Sand Muffler -----	M
Small waste conveyor chain-	M	Barking Drum -----	H		
Sorting table -----	M	Beater & Pulper -----	M	* Sewage disposal equipments	
Tipple Hoist Conveyor -----	M	Bleacher -----	U	Bar screens -----	U
Tipple Hoist drive -----	M	Calendars - Super -----	M	Chemical Feeders -----	U
Transfer Conveyor -----	M	(Except cutters, Plasters)		Collectors -----	U
Transfer rolls -----	M	Conveyors -----	U	Dewatering Screens-----	M
Tray drive -----	M	Couch -----	H	Scum breakers -----	M
Trimmer feed -----	M	Cutters - Plasters -----	H	Slow / rapid mixers-----	M
Waste conveyor -----	M	Cylinders -----	M	Thickeners -----	M
		Dryers -----	M	Vaccum filters -----	M
* Machine Tools		Felt Stretcher -----	M		
Bending roll -----	M	Felt Whipper -----	H	* Screens	
Punch press gear drive-----	H	Jordans -----	H	Air Washing -----	U
Plate planer -----	EH	Log Haul -----	H	Rotary-stone / Gravel-----	M
Tapping Machines -----	H	Presses -----	U	Travailing waterintake ----	U
Other machine Tolls & main		Pulp M/C Reel -----	M		
drive -----	M	Stock Chest -----	M	* Slab Pushers -----	M
auxiliary drive -----	U	Suction Role -----	U		
		Washers & Thickeners-----	M	* Stockers -----	U
* Metal Mills		Winders -----	M		
Draw bench carriage &		* Pullers		* Sugar Industry	
main drive -----	M	Barge haul -----	H	Cane Knives -----	M
Pinch, driver & slitters -----	M			Crushers -----	M
Table conveyors -----		* Pumps		Mills -----	M
Non reversing -----	H	Centrifugal -----	U		
		Proportioning -----	M	* Textiles Industry	
* Group drives		Reciprocating		Batchers -----	M
Wire Drawing &		Single acting		Calenders -----	M
Flattening M/C -----	M	Single Cylinder -----	EH	Cards -----	M
Wire winding M.C. -----	M	Single acting 3 cylinder----	M	Dry Cans -----	M
		Single acting 2 cylinder----	H	Dryers -----	M
* Mills-rotary type		Rotary :-		Dyeing Machinery -----	M
Ball Mill -----	M	Gear Type -----	U	Looms -----	M
Cement kins -----	M	Lobe vane -----	U	Mangles -----	M
Dryers & coolers -----	M			Nappers -----	M
Kilns other		* Rubber & Plastic Industry		Pads -----	M
than cement -----	M	Crackers -----	H	Slashers -----	M
pebble -----	M	Laboratory -----	M	Soaps -----	M
		Mixing Mill -----	H	Spinners -----	M
* Medical equipments -----	U			Tenter Frames -----	M
				Washers -----	M
* Rod Mills				Winders -----	M
Plain -----	M				
Wedge bar -----	M				
Tumbling barrels -----	H				

SELECTION CHART (UNIFORM LOAD)
POWER RATINGS & OUT PUT SPEEDS
MOTOR POWER - 0.16 HP (0.12 KW)

NOMINAL OUT PUT SPEED RPM	INPUT SPEED RPM	T Y P E	GEARED MOTOR MODEL (HOLLOW I/P TO SUIT FLANGE B5 MOTOR)						GEARBOX MODEL (MALE I/P SHAFT)				HORIZONTAL GEARBOX MODEL
			MALE OUT PUT SHAFT			HOLLOW OUT PUT SMSR	MOTOR FRAME B5 FLANGE	MALE OUT PUT SHAFT			HOLLOW OUT PUT SMSR		
			FOOT	FLANGE	AGITATOR			FOOT	OUT PUT SHAFT	FLANGE			
1.0 TO 1.6	1440	K	63K + 23.1KH	63.1K + 23.1KH	63.3K + 23.1KH	62.2K + 23.1KH	63M/4	63K + 23.1K-I	63.1K+23.1K-I	62.2K+23.1K-I			
1.0 TO 1.6	1440	HD	62HDH	62.1HDH	---	---	63M/4	62HD-I	62.1HD-I	--			
1.7 TO 2.0	1440	K	53K + 23.1KH	53.1K + 23.1KH	53.3K + 23.1KH	52.2K + 23.1KH	63M/4	53K+23.1K-I	53.1K+23.1K-I	52.2K+23.1K-I			
1.7 TO 2.0	1440	HD	52HDH	52.1HDH	---	---	63M/4	52HD-I	52.1HD-I				
2.5 TO 5.0	1440	K	43K + 12.1KH	43.1K + 12.1KH	43.3K + 12.1KH	42.2K + 13.1KH	63M/4	43K+12.1K-I	43.1K+12.1K-I	42.2K+13.1K-I			
2.5 TO 5.0	1440	HD	42HDH	42.1HDH	---	---	63M/4	42HD-I	42.1HD-I	---			
6 TO 11	1440	K	33K + 11.1KH	33.1K + 11.1KH	33.3K + 11.1KH	32.2K + 12.1KH	63M/4	33K+11.1K-I	33.1K+11.1K-I	32.2K+12.1K-I			
6 TO 11	1440	HD	32HDH	32.1HDH	---	---	63M/4	32HD-I	32.1HD-I	---			
12 TO 15	960	K	23KH	23.1KH	23.3KH	23.2KH	71M/6	23K-I	23.1K-I	23.2K-I			
17 TO 25	1440	K	23KH	23.1KH	23.3KH	23.2KH	63M/4	23K-I	23.1K-I	23.2K-I			
28 TO 45	1440	K	13KH	13.1KH	13.3KH	13.2KH	63M/4	13K-I	13.1K-I	13.2K-I			
46 TO 115	1440	K	13KH	13.1KH	13.3KH	12.2KH	63M/4	13K-I	13.1K-I	12.2K-I			
120 TO 210	1440	K	12KH	12.1KH	12.3KH	11.2KH ☆☆☆	63M/4	12K-I	12.1K-I	11.2K-I ☆☆☆			
☆ 220 TO 720	1440	K	11KH	11.1KH	11.3KH	11.2KH	63M/4	11K-I	11.1K-I	11.2K-I			

☆ All Driven Elements must be Dynamically Balanced & ☆ All motors should be Vibration Class V5.

☆☆ For output speeds 180 to 720 RPM range only & with special gear ratio 150 output RPM can be given for light duty purpose only.

SELECTION CHART (UNIFORM LOAD)
POWER RATINGS & OUT PUT SPEEDS
MOTOR POWER - 0.25 HP (0.18 KW)

NOMINAL OUT PUT SPEED RPM	INPUT SPEED RPM	T Y P E	GEARED MOTOR MODEL (HOLLOW I/P TO SUIT FLANGE B5 MOTOR)					GEARBOX MODEL (MALE I/P SHAFT)				HORIZONTAL GEARBOX MODEL
			MALE OUT PUT SHAFT			HOLLOW OUT PUT SMSR	MOTOR FRAME B5 FLANGE	MALE OUT PUT SHAFT			HOLLOW OUT PUT SMSR	
			FOOT	FLANGE	AGITATOR			FOOT	FLANGE			
0.9 TO 1.5	1440	K	73K+33.1KH	73.1K+33.1KH	73.3K+33.1KH	72.2K+33.1KH	63M/4	73K+33.1K-I	73.1K+33.1K-I	72.2K+33.1K-I		
0.9 TO 1.5	1440	HD	72HDH	72.1HDH	---	---	63M/4	72HD-I	72.1HD-I	---		
1.6 TO 2.5	1440	K	63K+23.1KH	63.1K+23.1KH	63.3K+23.1KH	62.2K+23.1KH	63M/4	63K+23.1K-I	63.1K+23.1K-I	62.2K+23.1K-I		
1.6 TO 2.5	1440	HD	62HDH	62.1HDH	---	---	63M/4	62HD-I	62.1HD-I	---		
2.6 TO 3.5	1440	K	53K+22.1KH	53.1K+22.1KH	53.3K+22.1KH	52.2K+23.1KH	63M/4	53K+22.1K-I	53.1K+22.1K-I	52.2K+23.1K-I		
2.6 TO 3.5	1440	HD	52HDH	52.1HDH	---	---	63M/4	52HD-I	52.1HD-I	---		
4 TO 7	1440	K	43K+12.1KH	43.1K+12.1KH	43.3K+12.1KH	42.2K+12.1KH	63M/4	43K+12.1K-I	43.1K+12.1K-I	42.2K+12.1K-I		
4 TO 7	1440	HD	42HDH	42.1HDH	---	---	63M/4	42HD-I	42.1HD-I	---		
8 TO 10	1440	K	33K+11.1KH	33.1K+11.1KH	33.3K+11.1KH	32.2K+12.1KH	63M/4	33K+11.1K-I	33.1K+11.1K-I	32.2K+12.1K-I		
8 TO 10	1440	HD	32HDH	32.1HDH	---	---	63M/4	32HD-I	32.1HD-I	---		
12 TO 19	960	K	33KH	33.1KH	33.3KH	33.2KH	71M/6	33K-I	33.1K-I	33.2K-I		
20 TO 40	1440	K	23KH	23.1KH	23.3KH	23.2KH	63M/4	23K-I	23.1K-I	23.2K-I		
42 TO 45	1440	K	13KH	13.1KH	13.3KH	13.2KH	63M/4	13K-I	13.1K-I	13.2K-I		
46 TO 115	1440	K	13KH	13.1KH	13.3KH	12.2KH	63M/4	13K-I	13.1K-I	12.2K-I		
120 TO 210	1440	K	12KH	12.1KH	12.3KH	11.2KH ☆☆	63M/4	12K-I	12.1K-I	11.2K-I ☆☆		
☆ 220 TO 720	1440	K	11KH	11.1KH	11.3KH	11.2KH	63M/4	11K-I	11.1K-I	11.2K-I		

☆ All Driven Elements must be Dynamically Balanced & ☆ All motors should be Vibration Class V5.

☆☆ For output speeds 180 to 720 RPM range only & with special gear ratio 150 output RPM can be given for light duty purpose only.

SELECTION CHART (UNIFORM LOAD)
POWER RATINGS & OUT PUT SPEEDS
MOTOR POWER - 0.33 HP (0.25 KW)

ROTOFLEX®
Gear Drives

NOMINAL OUT PUT SPEED RPM	INPUT SPEED RPM	T Y P E	GEARED MOTOR MODEL (HOLLOW I/P TO SUIT FLANGE B5 MOTOR)						GEARBOX MODEL (MALE I/P SHAFT)				HORIZONTAL GEARBOX MODEL
			MALE OUT PUT SHAFT			HOLLOW OUT PUT SMSR	MOTOR FRAME B5 FLANGE	MALE OUT PUT SHAFT			HOLLOW OUT PUT SMSR		
			FOOT	FLANGE	AGITATOR			FOOT	OUT PUT SHAFT	FLANGE			
0.75 TO 1.0	1440	K	83K+43.1KH	83.1K+43.1KH	83.3K+43.1KH	82.2K+43.1KH	71M/4	83K+43.1K-I	83.1K+43.1K-I	82.2K+43.1K-I			
0.75 TO 1.0	1440	HD	82HDH	82.1HDH	---	---	71M/4	82HD-I	82.1HD-I	---			
1.25 TO 1.5	1440	K	73K+33.1KH	73.1K+33.1KH	73.3K+33.1KH	72.2K+33.1KH	71M/4	73K+33.1K-I	73.1K+33.1K-I	72.2K+33.1K-I			
1.25 TO 1.5	1440	HD	72HDH	72.1HDH	---	---	71M/4	72HD-I	72.1HD-I	---			
2.0 TO 3.0	1440	K	63K+23.1KH	63.1K+23.1KH	63.3K+23.1KH	62.2K+23.1KH	71M/4	63K+23.1K-I	63.1K+23.1K-I	62.2K+23.1K-I			
2.0 TO 3.0	1440	HD	62HDH	62.1HDH	---	---	71M/4	62HD-I	62.1HD-I	---			
3.5 TO 4.0	1440	K	53K+22.1KH	53.1K+22.1KH	53.3K+22.1KH	52.2K+22.1KH	71M/4	53K+22.1K-I	53.1K+22.1K-I	52.2K+22.1K-I			
3.5 TO 4.0	1440	HD	52HDH	52.1HDH	---	---	71M/4	52HD-I	52.1HD-I	---			
5 TO 9	1440	K	43K+22.1KH	43.1K+22.1KH	43.3K+22.1K H	42.2K+22.1KH	71M/4	43K+22.1K-I	43.1K+22.1K-I	42.2K+22.1K-I			
5 TO 9	1440	HD	42HDH	42.1HDH	---	---	71M/4	42HD-I	42.1HD-I	---			
10 TO 11	1440	K	33K+21.1KH	33.1K+21.1KH	33.3K+21.1KH	32.2K+22.1KH	71M/4	33K+21.1K-I	33.1K+21.1K-I	32.2K+21.1K-I			
10 TO 11	1440	HD	32HDH	32.1HDH	---	---	71M/4	32HD-I	32.1HD-I	---			
12 TO 16	960	K	33KH	33.1KH	33.3KH	33.2KH	71M/6	33K-I	33.1K-I	33.2K-I			
18 TO 27	1440	K	33KH	33.1KH	33.3KH	33.2KH	71M/4	33K-I	33.1K-I	33.2K-I			
28 TO 45	1440	K	23KH	23.1KH	23.3KH	23.2KH	71M/4	23K-I	23.1K-I	23.2K-I			
46 TO 95	1440	K	23KH	23.1KH	23.3KH	22.2KH	71M/4	23K-I	23.1K-I	22.2K-I			
100 TO 200	1440	K	22KH	22.1KH	22.3KH	21.2KH ☆☆	71M/4	22K-I	22.1K-I	21.2K-I ☆☆			
☆220 TO 720	1440	K	21KH	21.1KH	21.3KH	21.2KH	71M/4	21K-I	21.1K-I	21.2K-I			

☆ All Driven Elements must be Dynamically Balanced & ☆ All motors should be Vibration Class V5.

☆☆ For output speeds 180 to 720 RPM range only & with special gear ratio 150 output RPM can be given for light duty purpose only.

SELECTION CHART (UNIFORM LOAD)
POWER RATINGS & OUT PUT SPEEDS
MOTOR POWER - 0.5 HP (0.37 KW)

ROTOFLEX®
Gear Drives

NOMINAL OUT PUT SPEED RPM	INPUT SPEED RPM	T Y P E	GEARED MOTOR MODEL (HOLLOW I/P TO SUIT FLANGE B5 MOTOR)				GEARBOX MODEL (MALE I/P SHAFT)				HORIZONTAL GEARBOX MODEL
			MALE OUT PUT SHAFT		AGITATOR	HOLLOW OUT PUT SMSR	MOTOR FRAME B5 FLANGE	MALE OUT PUT SHAFT			HOLLOW OUT PUT SMSR
			FOOT	FLANGE				FOOT	OUT PUT	FLANGE	
0.75 TO 0.9	1440	K	93K+53.1KH	93.1K+53.1KH	93.3K+53.1KH	92.2K+43.1KH	71M/4	93K+53.1K-I		93.1K+53.1K-I	92.2K+43.1K-I
0.75 TP 0.9	1440	HD	92HDH	92.1HDH	---	---	71M/4	92HD-I		92.1HD-I	---
1.0 TO 1.5	1440	K	83K+43.1KH	83.1K+43.1KH	83.3K+43.1KH	82.2K+43.1KH	71M/4	83K+43.1K-I		83.1K+43.1K-I	82.2K+43.1K-I
1.0 TO 1.5	1440	HD	82HDH	82.1HDH	---	---	71M/4	82HD-I		82.1HD-I	---
2 TO 2.5	1440	K	73K+32.1KH	73.1K+32.1KH	73.3K+32.1KH	72.2K+33.1KH	71M/4	73K+32.1K-I		73.1K+32.1K-I	72.2K+33.1K-I
2 TO 2.5	1440	HD	72HDH	72.1HDH	---	---	71M/4	72HD-I		72.1HD-I	---
3 TO 4	1440	K	63K+22.1KH	63.1K+22.1KH	63.3K+22.1KH	62.2K+32.1KH	71M/4	63K+22.1K-I		63.1K+22.1K-I	62.2K+32.1K-I
3 TO 4	1440	HD	62HDH	62.1HDH	---	---	71M/4	62HD-I		62.1HD-I	---
5 TO 7	1440	K	53K+22.1KH	53.1K+22.1KH	53.3K+22.1KH	52.2K+22.1KH	71M/4	53K+22.1K-I		53.1K+22.1K-I	52.2K+22.1K-I
5 TO 7	1440	HD	52HDH	52.1HDH	---	---	71M/4	52HD-I		52.1HD-I	---
8 TO 10	1440	K	43K+21.1KH	43.1K+21.1KH	43.3K+22.1KH	42.2K+22.1KH	71M/4	43K+21.1K-I		43.1K+21.1K-I	42.2K+22.1K-I
8 TO 10	1440	HD	42HDH	42.1HDH	---	---	71M/4	42HD-I		42.1HD-I	---
12 TO 15	960	K	43KH	43.1KH	43.3KH	43.2KH	80S/6	43K-I		43.1K-I	43.2K-I
16 TO 36	1440	K	33KH	33.1KH	33.3KH	33.2KH	71M/4	33K-I		33.1K-I	33.2K-I
38 TO 45	1440	K	23KH	23.1KH	23.3KH	23.2KH	71M/4	23K-I		23.1K-I	23.2K-I
46 TO 95	1440	K	23KH	23.1KH	23.3KH	22.2KH	71M/4	23K-I		23.1K-I	22.2K-I
100 TO 210	1440	K	22KH	22.1KH	22.3KH	21.2KH ☆☆☆	71M/4	22K-I		22.1K-I	21.2K-I ☆☆☆
☆ 220 TO 720	1440	K	21KH	21.1KH	21.3KH	21.2KH	71M/4	21K-I		21.1K-I	21.2K-I

☆ All Driven Elements must be Dynamically Balanced & ☆ All motors should be Vibration Class V5.

☆☆ For output speeds 180 to 720 RPM range only & with special gear ratio 150 output RPM can be given for light duty purpose only.

SELECTION CHART (UNIFORM LOAD)
POWER RATINGS & OUT PUT SPEEDS
MOTOR POWER - 0.75 HP (0.55 KW)

ROTOFLEX®
Gear Drives

NOMINAL OUT PUT SPEED RPM	INPUT SPEED RPM	T Y P E	GEARED MOTOR MODEL (HOLLOW I/P TO SUIT FLANGE B5 MOTOR)					GEARBOX MODEL (MALE I/P SHAFT)				HORIZONTAL GEARBOX MODEL
			MALE OUT PUT SHAFT			HOLLOW OUT PUT SMRS	MOTOR FRAME B5 FLANGE	MALE OUT PUT SHAFT			HOLLOW OUT PUT SMRS	
			FOOT	FLANGE	AGITATOR			FOOT	FLANGE			
1.0 TO 1.5	1440	K	93K+53.1KH	93.1K+53.1KH	93.3K+53.1KH	92.2K+43.1KH	80S/4	93K+53.1K-I	93.1K+53.1K-I	92.2K+43.1K-I		
1.75 TO 2.0	1440	K	83K+43.1KH	83.1K+43.1KH	83.3K+43.1KH	82.2K+43.1KH	80S/4	83K+43.1K-I	83.1K+43.1K-I	82.2K+43.1K-I		
1.75 TO 2.0	1440	HD	82HDH	82.1HDH	---	---	80S/4	82HD-I	82.1HD-I	---		
2.5 TO 4	1440	K	73K+33.1KH	73.1K+33.1KH	73.3K+33.1KH	72.2K+33.1KH	80S/4	73K+33.1K-I	73.1K+33.1K-I	72.2K+33.1K-I		
2.5 TO 4	1440	HD	72HDH	72.1HDH	---	---	80S/4	72HD-I	72.1HD-I	---		
5 TO 7	1440	K	63K+32.1KH	63.1K+32.1KH	63.3K+32.1KH	62.2K+32.1KH	80S/4	63K+32.1K-I	63.1K+32.1K-I	62.2K+32.1K-I		
5 TO 7	1440	HD	62HDH	62.1HDH	---	---	80S/4	62HD-I	62.1HD-I	---		
8 TO 10	1440	K	53K+31.1KH	53.1K+31.1KH	53.3K+31.1KH	52.2K+32.1KH	80S/4	53K+31.1K-I	53.1K+31.1K-I	52.2K+32.1K-I		
8 TO 10	1440	HD	52HDH	52.1HDH	---	---	80S/4	52HD-I	52.1HD-I	---		
12 TO 18	960	K	43KH	43.1KH	43.3KH	43.2KH	80M/6	43K-I	43.1K-I	43.2K-I		
19 TO 24	1440	K	43KH	43.1KH	43.3KH	43.2KH	80S/4	43K-I	43.1K-I	43.2K-I		
25 TO 45	1440	K	33KH	33.1KH	33.3KH	33.2KH	80S/4	33K-I	33.1K-I	33.2K-I		
46 TO 95	1440	K	33KH	33.1KH	33.3KH	32.2KH	80S/4	33K-I	33.1K-I	32.2K-I		
100 TO 210	1440	K	32KH	32.1KH	32.3KH	31.2KH ☆ ☆	80S/4	32K-I	32.1K-I	31.2K-I ☆ ☆		
☆ 220 TO 720	1440	K	31KH	31.1KH	31.3KH	31.2KH	80S/4	31K-I	31.1K-I	31.2K-I		

☆ All Driven Elements must be Dynamically Balanced & ☆ All motors should be Vibration Class V5.

☆☆ For output speeds 180 to 720 RPM range only & with special gear ratio 150 output RPM can be given for light duty purpose only.

SELECTION CHART (UNIFORM LOAD)
POWER RATINGS & OUT PUT SPEEDS
MOTOR POWER - 1.0 HP (0.75 KW)

ROTOFLEX®
Gear Drives

NOMINAL OUT PUT SPEED RPM	INPUT SPEED RPM	T Y P E	GEARED MOTOR MODEL (HOLLOW I/P TO SUIT FLANGE MOTOR)					GEARBOX MODEL (MALE I/P SHAFT)				HORIZONTAL GEARBOX MODEL
			MALE OUT PUT SHAFT			HOLLOW OUT PUT SMRS	MOTOR FRAME B5 FLANGE	MALE OUT PUT SHAFT			HOLLOW OUT PUT SMRS	
			FOOT	FLANGE	AGITATOR			FOOT	FLANGE			
1.0 TO 1.3	1440	K	103K+53.1KH	103.1K+53.1KH	103.3K+53.1KH	102.2K+53.1KH	80M/4	103K+53.1K-I	103.1K+53.1K-I	102.2K+53.1K-I		
1.4 TO 1.8	1440	K	93K+53.1KH	93.1K+53.1KH	93.3K+53.1KH	92.2K+43.1KH	80M/4	93K+53.1K-I	93.1K+53.1K-I	92.2K+43.1K-I		
2 TO 3	1440	K	83K+42.1KH	83.1K+42.1KH	83.3K+42.1KH	82.2K+43.1KH	80M/4	83K+42.1K-I	83.1K+42.1K-I	82.2K+43.1K-I		
3.5 TO 5	1440	K	73K+32.1KH	73.1K+32.1KH	73.3K+32.1KH	72.2K+33.1KH	80M/4	73K+32.1K-I	73.1K+32.1K-I	72.2K+33.1K-I		
3.5 TO 5	1440	HD	72HDH	72.1HDH	---	---	80M/4	72HD-I	72.1HD-I	---		
6 TO 9	1440	K	63K+31.1KH	63.1K+31.1KH	63.3K+31.1KH	62.2K+32.1KH	80M/4	63K+31.1K-I	63.1K+31.1K-I	62.2K+32.1K-I		
6 TO 9	1440	HD	62HDH	62.1HDH	---	---	80M/4	62HD-I	62.1HD-I	---		
9.5 TO 11	1440	K	53K+31.1KH	53.1K+31.1KH	53.3K+31.1KH	52.2K+32.1KH	80M/4	53K+31.1K-I	53.1K+31.1K-I	52.2K+32.1K-I		
9.5 TO 11	1440	HD	52HDH	52.1HDH	---	---	80M/4	52HD-I	52.1HD-I	---		
12 TO 18	960	K	53KH	53.1KH	53.3KH	53.2KH	90M/6	53K-I	53.1K-I	53.2K-I		
20 TO 34	1440	K	43KH	43.1KH	43.3KH	43.2KH	80M/4	43K-I	43.1K-I	43.2K-I		
35 TO 45	1440	K	33KH	33.1KH	33.3KH	33.2KH	80M/4	33K-I	33.1K-I	33.2K-I		
46 TO 100	1440	K	33KH	33.1KH	33.3KH	32.2KH	80M/4	33K-I	33.1K-I	32.2K-I		
110 TO 210	1440	K	32KH	32.1KH	32.3KH	31.2KH ☆☆	80M/4	32K-I	32.1K-I	31.2K-I ☆☆		
☆220 TO 720	1440	K	31KH	31.1KH	31.3KH	31.2KH	80M/4	31K-I	31.1K-I	31.2K-I		

☆ All Driven Elements must be Dynamically Balanced & ☆ All motors should be Vibration Class V5.

☆☆ For output speeds 180 to 720 RPM range only & with special gear ratio 150 output RPM can be given for light duty purpose only.

SELECTION CHART (UNIFORM LOAD)
POWER RATINGS & OUT PUT SPEEDS
MOTOR POWER - 1.5 HP (1.1 KW)

ROTOFLEX®
Gear Drives

NOMINAL OUT PUT SPEED RPM	INPUT SPEED RPM	T Y P E	GEARED MOTOR MODEL (HOLLOW I/P TO SUIT FLANGE MOTOR)					GEARBOX MODEL (MALE I/P SHAFT)			HORIZONTAL GEARBOX MODEL
			MALE OUT PUT SHAFT			HOLLOW OUT PUT SMSR	MOTOR FRAME B5 FLANGE	MALE OUT PUT SHAFT		HOLLOW OUT PUT SMSR	
			FOOT	FLANGE	AGITATOR			FOOT	FLANGE		
1.0 TO 1.4	1440	K	113K+63.1KH	113.1K+63.1KH	---	---	90S/4	113K+63.1K-I	113.1K+63.1K-I	---	
1.5 TO 1.8	1440	K	103K+53.1KH	103.1K+53.1KH	103.3K+53.1KH	102.2K+53.1KH	90S/4	103K+53.1K-I	103.1K+53.1K-I	102.2K+53.1K-I	
2.0 TO 3.0	1440	K	93K+53.1KH	93.1K+53.1KH	93.3K+53.1KH	92.2K+43.1KH	90S/4	93K+53.1K-I	93.1K+53.1K-I	92.2K+43.1K-I	
2.0 TO 3.0	1440	HD	92HDH	92.1HDH	---	---	90S/4	92HD-I	92.1HD-I	---	
3.5 TO 4.0	1440	K	83K+42.1KH	83.1K+42.1KH	83.3K+42.1KH	82.2K+43.1KH	90S/4	83K+42.1K-I	83.1K+42.1K-I	82.2K+43.1K-I	
3.5 TO 4.0	1440	HD	82HDH	82.1HDH	---	---	90S/4	82HD-I	82.1HD-I	---	
5 TO 8	1440	K	73K+31.1KH	73.1K+31.1KH	73.3K+31.1KH	72.2K+32.1KH	90S/4	73K+31.1K-I	73.1K+31.1K-I	72.2K+32.1K-I	
5 TO 8	1440	HD	72HDH	72.1HDH	---	---	90S/4	72HD-I	72.1HD-I	---	
9 TO 10	1440	K	63K+31.1KH	63.1K+31.1KH	63.3K+31.1KH	62.2K+32.1KH	90S/4	63K+31.1K-I	63.1K+31.1K-I	62.2K+32.1K-I	
9 TO 10	1440	HD	62HDH	62.1HDH	---	---	90S/4	62HD-I	62.1HD-I	---	
12 TO 17	960	K	63KH	63.1KH	63.3KH	63.2KH	90L/6	63K-I	63.1K-I	63.2K-I	
18 TO 19	960	K	53KH	53.1KH	53.3KH	53.2KH	90L/6	53K-I	53.1K-I	53.2K-I	
20 TO 34	1440	K	53KH	53.1KH	53.3KH	53.2KH	90S/4	53K-I	53.1K-I	53.2K-I	
35 TO 50	1440	K	43KH	43.1KH	43.3KH	43.2KH	90S/4	43K-I	43.1K-I	43.2K-I	
55 TO 110	1440	K	33KH	33.1KH	33.3KH	32.2KH	90S/4	33K-I	33.1K-I	32.2K-I	
115 TO 210	1440	K	32KH	32.1KH	32.3KH	31.2KH ☆☆	90S/4	32K-I	32.1K-I	31.2K-I ☆☆	
☆220 TO 720	1440	K	31KH	31.1KH	31.3KH	31.2KH	90S/4	31K-I	31.1K-I	31.2K-I	

☆ All Driven Elements must be Dynamically Balanced & ☆ All motors should be Vibration Class V5.

☆☆ For output speeds 180 to 720 RPM range only & with special gear ratio 150 output RPM can be given for light duty purpose only.

SELECTION CHART (UNIFORM LOAD)
POWER RATINGS & OUT PUT SPEEDS
MOTOR POWER - 2.0 HP (1.5 KW)

ROTOFLEX®
Gear Drives

NOMINAL OUT PUT SPEED RPM	INPUT SPEED RPM	T Y P E	GEARED MOTOR MODEL (HOLLOW I/P TO SUIT FLANGE MOTOR)						GEARBOX MODEL (MALE I/P SHAFT)				HORIZONTAL GEARBOX MODEL
			MALE OUT PUT SHAFT			HOLLOW OUT PUT SMSR	MOTOR FRAME B5 FLANGE	MALE OUT PUT SHAFT		HOLLOW OUT PUT SMSR			
			FOOT	FLANGE	AGITATOR			FOOT	FLANGE				
1.0 TO 2.0	1440	K	113K+63.1KH	113.1K+63.1KH	---	---	90L/4	113K+63.1K-I	113.1K+63.1K-I	---	---		
2.0 TO 2.5	1440	K	103K+63.1KH	103.1K+63.1KH	103.3K+63.1KH	102.2K+53.1KH	90L/4	103K+63.1K-I	103.1K+63.1K-I	102.2K+53.1K-I	102.2K+53.1K-I		
2.8 TO 4	1440	K	93K+52.1KH	93.1K+52.1KH	93.3K+52.1KH	92.2K+43.1KH	90L/4	93K+52.1K-I	93.1K+52.1K-I	92.2K+43.1K-I	92.2K+43.1K-I		
2.8 TO 4	1440	HD	92HDH	92.1HDH	---	---	90L/4	92HD-I	92.1HD-I	---	---		
5 TO 6	1440	K	83K+41.1KH	83.1K+41.1KH	83.3K+41.1KH	82.2K+42.1KH	90L/4	83K+41.1K-I	83.1K+41.1K-I	82.2K+42.1K-I	82.2K+42.1K-I		
5 TO 6	1440	HD	82HDH	82.1HDH	---	---	90L/4	82HD-I	82.1HD-I	---	---		
7 TO 10	1440	K	73K+31.1KH	73.1K+31.1KH	73.3K+31.1KH	72.2K+32.1KH	90L/4	73K+31.1K-I	73.1K+31.1K-I	72.2K+32.1K-I	72.2K+32.1K-I		
7 TO 10	1440	HD	72HDH	72.1HDH	---	---	90L/4	72HD-I	72.1HD-I	---	---		
12 TO 17	960	K	63KH	63.1KH	63.3KH	63.2KH	100L/6	63K-I	63.1K-I	63.2K-I	63.2K-I		
18 TO 26	1440	K	63KH	63.1KH	63.3KH	63.2KH	90L/4	63K-I	63.1K-I	63.2K-I	63.2K-I		
28 TO 38	1440	K	53KH	53.1KH	53.3KH	53.2KH	90L/4	53K-I	53.1K-I	53.2K-I	53.2K-I		
40 TO 45	1440	K	43KH	43.1KH	43.3KH	43.2KH	90L/4	43K-I	43.1K-I	43.2K-I	43.2K-I		
46 TO 78	1440	K	43KH	43.1KH	43.3KH	42.2KH	90L/4	43K-I	43.1K-I	42.2K-I	42.2K-I		
80 TO 110	1440	K	33KH	33.1KH	33.3KH	32.2KH	90L/4	33K-I	33.1K-I	32.2K-I	32.2K-I		
125 TO 210	1440	K	32KH	32.1KH	32.3KH	31.2KH ☆ ☆	90L/4	32K-I	32.1K-I	31.2K-I ☆ ☆	31.2K-I ☆ ☆		
☆220 TO 720	1440	K	31KH	31.1KH	31.3KH	31.2KH	90L/4	31K-I	31.1K-I	31.2K-I	31.2K-I		

☆ All Driven Elements must be Dynamically Balanced & ☆ All motors should be Vibration Class V5.

☆☆ For output speeds 180 to 720 RPM range only & with special gear ratio 150 output RPM can be given for light duty purpose only.

SELECTION CHART (UNIFORM LOAD)
POWER RATINGS & OUT PUT SPEEDS
MOTOR POWER - 3.0 HP (2.2 KW)

ROTOFLEX®
Gear Drives

NOMINAL OUT PUT SPEED RPM	INPUT SPEED RPM	T Y P E	GEARED MOTOR MODEL (HOLLOW I/P TO SUIT FLANGE MOTOR)					GEARBOX MODEL (MALE I/P SHAFT)				HORIZONTAL GEARBOX MODEL
			MALE OUT PUT SHAFT			HOLLOW OUT PUT SMSR	MOTOR FRAME B5 FLANGE	MALE OUT PUT SHAFT		HOLLOW OUT PUT SMSR		
			FOOT	FLANGE	AGITATOR			FOOT	FLANGE			
0.7 TO 1.5	1440	K	123K+73.1KH	123.1K+73.1KH	---	---	100L/4	123K+73.1K-I	123.1K+73.1K-I	---		
1.6 TO 2.5	1440	K	113K+63.1KH	113.1K+63.1KH	---	---	100L/4	113K+63.1K-I	113.1K+63.1K-I	---		
3 TO 4	1440	K	103K+53.1KH	103.1K+53.1KH	103.3K+53.1KH	102.2K+53.1KH	100L/4	103K+53.1K-I	103.1K+53.1K-I	102.2K+53.1K-I		
4.5 TO 6	1440	K	93K+52.1KH	93.1K+52.1KH	93.3K+52.1KH	92.2K+43.1KH	100L/4	93K+52.1K-I	93.1K+52.1K-I	92.2K+43.1K-I		
4.5 TO 6	1440	HD	92HDH	92.1HDH	---	---	100L/4	92HD-I	92.1HD-I	---		
7 TO 10	1440	K	83K+41.1KH	83.1K+41.1KH	83.3K+41.1KH	82.2K+42.1KH	100L/4	83K+41.1K-I	83K+41.1K-I	82.2K+42.1K-I		
7 TO 10	1440	HD	82HDH	82.1HDH	---	---	100L/4	82HD-I	82.1HD-I	---		
11 TO 18	960	K	73KH	73.1KH	73.3KH	73.2KH	112M/6	73K-I	73.1K-I	73.2K-I		
20 TO 34	1440	K	63KH	63.1KH	63.3KH	63.2KH	100L/4	63K-I	63.1K-I	63.2K-I		
36 TO 49	1440	K	53KH	53.1KH	53.3KH	53.2KH	100L/4	53K-I	53.1K-I	53.2K-I		
50 TO 78	1440	K	53KH	53.1KH	53.3KH	52.2KH	100L/4	53K-I	53.1K-I	52.2K-I		
80 TO 125	1440	K	43KH	43.1KH	43.3KH	42.2KH	100L/4	43K-I	43.1K-I	42.2K-I		
130 TO 200	1440	K	42KH	42.1KH	42.3KH	41.2KH ☆ ☆	100L/4	42K-I	42.1K-I	41.2K-I ☆ ☆		
220 TO 720	1440	K	41KH	41.1KH	41.3KH	41.2KH	100L/4	41K-I	41.1K-I	41.2K-I		

☆ All Driven Elements must be Dynamically Balanced & ☆ All motors should be Vibration Class V5.

☆☆ For output speeds 180 to 720 RPM range only & with special gear ratio 150 output RPM can be given for light duty purpose only.

SELECTION CHART (UNIFORM LOAD)
POWER RATINGS & OUT PUT SPEEDS
MOTOR POWER - 4.0 HP (3.0 KW)

ROTOFLEX®
Gear Drives

NOMINAL OUT PUT SPEED RPM	INPUT SPEED RPM	T Y P E	GEARED MOTOR MODEL (HOLLOW I/P TO SUIT FLANGE MOTOR)					GEARBOX MODEL (MALE I/P SHAFT)				HORIZONTAL GEARBOX MODEL
			MALE OUT PUT SHAFT			HOLLOW OUT PUT SMSR	MOTOR FRAME B5 FLANGE	MALE OUT PUT SHAFT		HOLLOW OUT PUT SMSR		
			FOOT	FLANGE	AGITATOR			FOOT	FLANGE			
1.0 TO 1.8	1440	K	123K+73.1KH	123.1K+73.1KH	---	---	100L/4	123K+73.1K-I	123.1K+73.1K-I	---		
2.0 TO 3.5	1440	K	113K+63.1KH	113.1K+63.1KH	---	---	100L/4	113K+63.1K-I	113.1K+63.1K-I	---		
4 TO 5.5	1440	K	103K+52.1KH	103.1K+52.1KH	103.3K+52.1KH	102.2K+53.1KH	100L/4	103K+52.1K-I	103.1K+52.1K-I	102.2K+53.1K-I		
6 TO 8	1440	K	93K+51.1KH	93.1K+51.1KH	93.3K+51.1KH	92.2K+42.1KH	100L/4	93K+51.1K-I	93.1K+51.1K-I	92.2K+42.1K-I		
6 TO 8	1440	HD	92HDH	92.1HDH	---	---	100L/4	92HD-I	92.1HD-I	---		
9 TO 10	1440	K	83K+41.1KH	83.1K+41.1KH	83.3K+41.1KH	82.2K+42.1KH	100L/4	83K+41.1K-I	83.1K+41.1K-I	82.2K+42.1K-I		
9 TO 10	1440	HD	82HDH	82.1HDH	---	---	100L/4	82HD-I	82.1HD-I	---		
12.5 TO 18	960	K	83KH	83.1KH	83.3KH	83.2KH	132S/6	83K-I	83.1K-I	83.2K-I		
19 TO 25	1440	K	73KH	73.1KH	73.3KH	73.2KH	100L/4	73K-I	73.1K-I	73.2K-I		
26 TO 58	1440	K	63KH	63.1KH	63.3KH	63.2KH	100L/4	63K-I	63.1K-I	63.2K-I		
60 TO 95	1440	K	53KH	53.1KH	53.3KH	52.2KH	100L/4	53K-I	53.1K-I	52.2K-I		
100 TO 125	1440	K	43KH	43.1KH	43.3KH	42.2KH	100L/4	43K-I	43.1K-I	42.2K-I		
130 TO 200	1440	K	42KH	42.1KH	42.3KH	41.2KH ☆☆☆	100L/4	42K-I	42.1K-I	41.2K-I ☆☆☆		
☆220 TO 720	1440	K	41KH	41.1KH	41.3KH	41.2KH	100L/4	41K-I	41.1K-I	41.2K-I		

☆ All Driven Elements must be Dynamically Balanced & ☆ All motors should be Vibration Class V5.

☆☆ For output speeds 180 to 720 RPM range only & with special gear ratio 150 output RPM can be given for light duty purpose only.

SELECTION CHART (UNIFORM LOAD)
POWER RATINGS & OUT PUT SPEEDS
MOTOR POWER - 5.0 HP (3.7 KW)

ROTOFLEX®
Gear Drives

NOMINAL OUT PUT SPEED RPM	INPUT SPEED RPM	T Y P E	GEARED MOTOR MODEL (HOLLOW I/P TO SUIT FLANGE MOTOR)				GEARBOX MODEL (MALE I/P SHAFT)				HORIZONTAL GEARBOX MODEL
			MALE OUT PUT SHAFT		HOLLOW OUT PUT SMSR	MOTOR FRAME B5 FLANGE	MALE OUT PUT SHAFT		HOLLOW OUT PUT SMSR		
			FOOT	FLANGE			AGITATOR	FOOT		FLANGE	
1.3 TO 3.2	1440	K	123K+73.1KH	123.1K+73.1KH	---	112M/4	123K+73.1K-I	123.1K+73.1K-I	---		
3.5 TO 4.5	1440	K	113K+62.1KH	113.1K+62.1KH	---	112M/4	113K+62.1K-I	113.1K+62.1K-I	---		
5 TO 6	1440	K	103K+52.1KH	103.1K+52.1KH	103.3K+52.1KH	112M/4	103K+52.1K-I	103.1K+52.1K-I	102.2K+53.1K-I		
7 TO 10	1440	K	93K+51.1KH	93.1K+51.1KH	93.3K+51.1KH	112M/4	93K+51.1K-I	93.1K+51.1K-I	92.2K+52.1K-I		
7 TO 10	720	K	---	---	---	---	---	---	---	93.4	
12 TO 18	960	K	83KH	83.1KH	83.3KH	132M/6	83K-I	83.1K-I	83.2K-I	83.4	
20 TO 38	1440	K	73KH	73.1KH	73.3KH	112M/4	73K-I	73.1K-I	73.2K-I	73.4	
40 TO 45	1440	K	63KH	63.1KH	63.3KH	112M/4	63K-I	63.1K-I	63.2K-I	63.4	
46 TO 78	1440	K	63KH	63.1KH	63.3KH	112M/4	63K-I	63.1K-I	62.2K-I	62.4	
80 TO 130	1440	K	53KH	53.1KH	53.3KH	112M/4	53K-I	53.1K-I	52.2K-I	52.4	
135 TO 200	1440	K	52KH	52.1KH	52.3KH	112M/4	52K-I	52.1K-I	51.2K-I ☆ ☆	52.4	
☆220 TO 720	1440	K	51KH	51.1KH	51.3KH	112M/4	51K-I	51.1K-I	51.2K-I	51.4	

☆ All Driven Elements must be Dynamically Balanced & ☆ All motors should be Vibration Class V5.

☆☆ For output speeds 180 to 720 RPM range only & with special gear ratio 150 output RPM can be given for light duty purpose only.

SELECTION CHART (UNIFORM LOAD)
POWER RATINGS & OUT PUT SPEEDS
MOTOR POWER - 7.5 HP (5.5 KW)

ROTOFLEX®
Gear Drives

NOMINAL OUT PUT SPEED RPM	INPUT SPEED RPM	T Y P E	GEARED MOTOR MODEL (HOLLOW I/P TO SUIT FLANGE MOTOR)					GEARBOX MODEL (MALE I/P SHAFT)					HORIZONTAL GEARBOX MODEL
			MALE OUT PUT SHAFT			HOLLOW OUT PUT SMSR	MOTOR FRAME B5 FLANGE	MALE OUT PUT SHAFT		HOLLOW OUT PUT SMSR			
			FOOT	FLANGE	AGITATOR			FOOT	FLANGE				
2 TO 4	1440	K	123K+73.1KH	123.1K+73.1KH	---	132S/4	123K+73.1K-I	123.1K+73.1K-I	---	---			
4.5 TO 7	1440	K	113K+62.1KH	113.1K+62.1KH	---	132S/4	113K+62.1K-I	113.1K+62.1K-I	---	---			
8 TO 11	1440	K	103K+61.1KH	103.1K+61.1KH	103.3K+61.1KH	132S/4	103K+61.1K-I	103.1K+61.1K-I	102.2K+62.1K-I	102.2K+62.1K-I			
8 TO 11	720	K	---	---	---	160M/8	---	---	103.2K-I	103.2K-I	103.4		
12 TO 18	960	K	93KH	93.1KH	93.3KH	132M/6	93K-I	93.1K-I	93.2K-I	93.2K-I	93.4		
20 TO 35	1440	K	83KH	83.1KH	83.3KH	132S/4	83K-I	83.1K-I	83.2K-I	83.2K-I	83.4		
36 TO 45	1440	K	73KH	73.1KH	73.3KH	132S/4	73K-I	73.1K-I	73.2K-I	73.2K-I	73.4		
46 TO 55	1440	K	73KH	73.1KH	73.3KH	132S/4	73K-I	73.1K-I	72.2K-I	72.2K-I	72.4		
56 TO 125	1440	K	63KH	63.1KH	63.3KH	132S/4	63K-I	63.1K-I	62.2K-I	62.2K-I	62.4		
130 TO 200	1440	K	62KH	62.1KH	62.3KH	132S/4	62K-I	62.1K-I	61.2KH ☆☆	61.2K-I ☆☆	62.4		
☆220 TO 720	1440	K	61KH	61.1KH	61.3KH	132S/4	61K-I	61.1K-I	61.2KH	61.2K-I	61.4		

☆ All Driven Elements must be Dynamically Balanced & ☆ All motors should be Vibration Class V5.

☆☆ For output speeds 180 to 720 RPM range only & with special gear ratio 150 output RPM can be given for light duty purpose only.

SELECTION CHART (UNIFORM LOAD)
POWER RATINGS & OUT PUT SPEEDS
MOTOR POWER - 10 HP (7.5 KW)

ROTOFLEX®
Gear Drives

NOMINAL OUT PUT SPEED RPM	INPUT SPEED RPM	T Y P E	GEARED MOTOR MODEL (HOLLOW I/P TO SUIT FLANGE)						GEARBOX MODEL (MALE I/P SHAFT)				HORIZONTAL GEARBOX MODEL
			MALE OUT PUT SHAFT			HOLLOW OUT PUT SMSR	MOTOR FRAME B5 FLANGE	MALE OUT PUT SHAFT		HOLLOW OUT PUT SMSR			
			FOOT	FLANGE	AGITATOR			FOOT	FLANGE				
3 TO 4.5	1440	K	123K+73.1KH	123.1K+73.1KH	---	---	132M/4	123K+73.1K-I	123.1K+73.1K-I	---			
5 TO 6	1440	K	123K+72.1KH	123.1K+72.1KH	---	---	132M/4	123K+72.1K-I	123.1K+72.1K-I	---			
7 TO 11	1440	K	113K+61.1KH	113.1K+61.1KH	---	---	132M/4	113K+61.1K-I	113.1K+61.1K-I	---			
12 TO 19	960	K	103KH	103.1KH	103.3KH	103.2KH	160M/6	103K-I	103.1K-I	103.2K-I	103.4		
20 TO 30	1440	K	93KH	93.1KH	93.3KH	93.2KH	132M/4	93K-I	93.1K-I	93.2K-I	93.4		
31 TO 42	1440	K	83KH	83.1KH	83.3KH	83.2KH	132M/4	83K-I	83.1K-I	83.2K-I	83.4		
43 TO 47	1440	K	73KH	73.1KH	73.3KH	73.2KH	132M/4	73K-I	73.1K-I	73.2K-I	73.4		
48 TO 73	1440	K	73KH	73.1KH	73.3KH	72.2KH	132M/4	73K-I	73.1K-I	72.2K-I	72.4		
75 TO 125	1440	K	63KH	63.1KH	63.3KH	62.2KH	132M/4	63K-I	63.1K-I	62.2K-I	62.4		
130 TO 200	1440	K	62KH	62.1KH	62.3KH	61.2KH☆☆	132M/4	62K-I	62.1K-I	61.2K-I☆☆	62.4		
☆220 TO 720	1440	K	61KH	61.1KH	61.3KH	61.2KH	132M/4	61K-I	61.1K-I	61.2K-I	61.4		

☆ All Driven Elements must be Dynamically Balanced & ☆ All motors should be Vibration Class V5.

☆☆ For output speeds 180 to 720 RPM range only & with special gear ratio 150 output RPM can be given for light duty purpose only.

SELECTION CHART (UNIFORM LOAD)

POWER RATINGS & OUT PUT SPEEDS

MOTOR POWER - 15 HP (11 KW)

NOMINAL OUT PUT SPEED RPM	INPUT SPEED RPM	T Y P E	GEARED MOTOR MODEL (HOLLOW I/P TO SUIT FLANGE)					MOTOR		GEARBOX MODEL (MALE I/P SHAFT)				HORIZONTAL GEARBOX MODEL
			MALE OUT PUT SHAFT			AGITATOR	HOLLOW OUT PUT SMSR	MOTOR FRAME B5 FLANGE	MALE OUT PUT SHAFT		HOLLOW OUT PUT SMSR			
			FOOT	FLANGE	FOOT				FLANGE					
5 TO 8	1440	K	123K+72.1KH	123.1K+72.1KH	---	---	160M/4	123K+72.1K-I	123.1K+72.1K-I	---				
9 TO 15	1440	K	113K+71.1KH	113.1K+71.1KH	---	---	160M/4	113K+71.1K-I	113.1K+71.1K-I	---				
16 TO 18	960	K	103KH	103.1KH	103.3KH	103.2KH	160L/6	103K-I	103.1K-I	103.2K-I	103.4			
20 TO 27	1440	K	103KH	103.1KH	103.3KH	103.2KH	160M/4	103K-I	103.1K-I	103.2K-I	103.4			
28 TO 44	1440	K	93KH	93.1KH	93.3KH	93.2KH	160M/4	93K-I	93.1K-I	93.2K-I	93.4			
45 TO 66	1440	K	83KH	83.1KH	83.3KH	82.2KH	160M/4	83K-I	83.1K-I	82.2K-I	82.4			
67 TO 120	1440	K	73KH	73.1KH	73.3KH	72.2KH	160M/4	73K-I	73.1K-I	72.2K-I	72.4			
125 TO 200	1440	K	72KH	72.1KH	72.3KH	71.2KH☆☆	160M/4	72K-I	72.1K-I	71.2K-I☆☆	72.4			
☆ 220 TO 720	1440	K	71KH	71.1KH	71.3KH	71.2KH	160M/4	71K-I	71.1K-I	71.2K-I	71.4			

MOTOR POWER - 20 HP (15 KW)

NOMINAL OUT PUT SPEED RPM	INPUT SPEED RPM	T Y P E	GEARED MOTOR MODEL (HOLLOW I/P TO SUIT FLANGE)					GEARBOX MODEL (MALE I/P SHAFT)				HORIZONTAL GEARBOX MODEL
			MALE OUT PUT SHAFT			HOLLOW OUT PUT SMSR	MOTOR FRAME B5 FLANGE	MALE OUT PUT SHAFT		HOLLOW OUT PUT SMSR		
			FOOT	FLANGE	AGITATOR			FOOT	FLANGE			
6 TO 14	1440	K	123K+71.1KH	123.1K+71.1KH	---	---	160L/4	123K+71.1K-I	123.1K+71.1K-I	---		
16 TO 24	960	K	113KH	113.1KH	---	---	180L/6	113K-I	113.1K-I	---		113.4
25 TO 35	1440	K	103KH	103.1KH	103.3KH	103.2KH	160L/4	103K-I	103.1K-I	103.2K-I		103.4
36 TO 58	1440	K	93KH	93.1KH	93.3KH	93.2KH	160L/4	93K-I	93.1K-I	93.2K-I		93.4
60 TO 85	1440	K	83KH	83.1KH	83.3KH	82.2KH	160L/4	83K-I	83.1K-I	83.2K-I		82.4
90 TO 125	1440	K	83KH	83.1KH	83.3KH	82.2KH	160L/4	83K-I	83.1K-I	82.2K-I		82.4
130 TO 200	1440	K	82KH	82.1KH	82.3KH	81.2KH☆☆	160L/4	82K-I	82.1K-I	81.2K-I☆☆		82.4
☆220 TO 720	1440	K				81.2KH	160L/4			81.2K-I		81.4

☆ All Driven Elements must be Dynamically Balanced & ☆ All motors should be Vibration Class V5.

☆☆ For output speeds 180 to 720 RPM range only & with special gear ratio 150 output RPM can be given for light duty purpose only.

SELECTION CHART (UNIFORM LOAD)
POWER RATINGS & OUT PUT SPEEDS
MOTOR POWER - 25 HP (18.5 KW)

ROTOFLEX®
Gear Drives

NOMINAL OUT PUT SPEED RPM	INPUT SPEED RPM	T Y P E	GEARED MOTOR MODEL (HOLLOW I/P TO SUIT FLANGE MOTOR)					GEARBOX MODEL (MALE I/P SHAFT)				HORIZONTAL GEARBOX MODEL
			MALE OUT PUT SHAFT			HOLLOW OUT PUT SMSR	MOTOR FRAME B5 FLANGE	MALE OUT PUT SHAFT	HOLLOW OUT PUT SMSR			
			FOOT	FLANGE	AGITATOR							
16 TO 20	960	K	123KH	123.1KH	---	---	200L/6	123K-I	123.1K-I	---	---	123.4
21 TO 34	960	K	113KH	113.1KH	---	---	200L/6	113K-I	113.1K-I	---	---	113.4
35 TO 48	1440	K	103KH	103.1KH	103.3KH	103.2KH	180M/4	103K-I	103.1K-I	103.2K-I	103.2K-I	103.4
50 TO 78	1440	K	93KH	93.1KH	93.3KH	92.2KH	180M/4	93K-I	93.1K-I	92.2K-I	92.2K-I	92.4
80 TO 130	1440	K	83KH	83.1KH	83.3KH	82.2KH	180M/4	83K-I	83.1K-I	82.2K-I	82.2K-I	82.4
140 TO 200	1440	K	82KH	82.1KH	82.3KH	81.2KH ☆☆☆	180M/4	82K-I	82.1K-I	81.2K-I ☆☆☆	81.2K-I ☆☆☆	82.4
☆ 220 TO 720	1440	K	---	---	---	81.2KH	180M/4	---	---	81.2K-I	81.2K-I	81.4

MOTOR POWER - 30 HP (22 KW)

NOMINAL OUT PUT SPEED RPM	INPUT SPEED RPM	T Y P E	GEARED MOTOR MODEL (HOLLOW I/P TO SUIT FLANGE MOTOR)			GEARBOX MODEL (MALE I/P SHAFT)				HORIZONTAL GEARBOX MODEL
			MALE OUT PUT SHAFT		HOLLOW OUT PUT SMSR	MOTOR FRAME B5 FLANGE	MALE OUT PUT SHAFT		HOLLOW OUT PUT SMSR	
			FOOT	FLANGE			AGITATOR	FOOT			FLANGE
12 TO 14	720	K	123KH	123.1KH	---	225M/8	123K-I	123.1K-I	---	123.4
16 TO 26	960	K	123KH	123.1KH	---	200L/6	123K-I	123.1K-I	---	123.4
28 TO 34	1440	K	113KH	113.1KH	---	180M/4	113K-I	113.1K-I	---	113.4
36 TO 46	1440	K	113KH	113.1KH	---	180M/4	113K-I	113.1K-I	---	113.4
48 TO 68	1440	K	103KH	103.1KH	103.3KH	180M/4	103K-I	103.1K-I	102.2K-I	102.4
70 TO 130	1440	K	93KH	93.1KH	93.3KH	180M/4	93K-I	93.1K-I	92.2K-I	92.4
140 TO 200	1440	K	92KH	92.1KH	92.3KH	180M/4	92K-I	92.1K-I	91.2K-I☆ ☆	92.4
☆ 220 TO 720	1440	K	---	---	---	180M/4	---	---	91.2K-I	91.4

☆ All Driven Elements must be Dynamically Balanced & ☆ All motors should be Vibration Class V5.

☆☆ For output speeds 180 to 720 RPM range only & with special gear ratio 150 output RPM can be given for light duty purpose only.

SELECTION CHART (UNIFORM LOAD)
POWER RATINGS & OUT PUT SPEEDS
MOTOR POWER - 40 HP (30 KW)

ROTOFLEX®
Gear Drives

NOMINAL OUT PUT SPEED RPM	INPUT SPEED RPM	T Y P E	GEARED MOTOR MODEL (HOLLOW I/P TO SUIT FLANGE)					GEARBOX MODEL (MALE I/P SHAFT)				HORIZONTAL GEARBOX MODEL
			MALE OUT PUT SHAFT			HOLLOW OUT PUT SMSR	MOTOR FRAME B5 FLANGE	MALE OUT PUT SHAFT		HOLLOW OUT PUT SMSR		
			FOOT	FLANGE	AGITATOR			FOOT	FLANGE			
20 TO 34	960	K	123KH	123.1KH	---	---	225M/6	123K-I	123.1K-I	---	123.4	
35 TO 70	1440	K	113KH	113.1KH	---	---	200L/4	113K-I	113.1K-I	---	113.4	
71 TO 140	1440	K	103KH	103.1KH	103.3KH	102.2KH	200L/4	103K-I	103.1K-I	102.2K-I	102.4	
160 TO 200	1440	K	102KH	102.1KH	102.3KH	101.2KH ☆☆☆	200L/4	102K-I	102.1K-I	101.2K-I☆☆	102.4	
☆ 220 TO 720	1440	K	---	---	---	101.2KH	200L/4	---	---	101.2K-I	101.4	

MOTOR POWER - 50 HP (37 KW)

NOMINAL OUT PUT SPEED RPM	INPUT SPEED RPM	T Y P E	GEARED MOTOR MODEL (HOLLOW I/P TO SUIT FLANGE)					GEARBOX MODEL (MALE I/P SHAFT)				HORIZONTAL GEARBOX MODEL
			MALE OUT PUT SHAFT			HOLLOW OUT PUT SMSR	MOTOR FRAME B5 FLANGE	MALE OUT PUT SHAFT		HOLLOW OUT PUT SMSR		
			FOOT	FLANGE	AGITATOR			FOOT	FLANGE			
25 TO 28	960	K	123KH	123.1KH	---	---	250M/6	123K-I	123.1K-I	---	123.4	
30 TO 48	1440	K	123KH	123.1KH	---	---	225S/4	123K-I	123.1K-I	---	123.4	
50 TO 120	1440	K	113KH	113.1KH	---	---	225S/4	113K-I	113.1K-I	---	113.4	
130 TO 200	1440	K	112KH	112.1KH	---	---	225S/4	112K-I	112.1K-I	---	112.4	
☆ 220 TO 720	1440	K	---	---	---	---	---	---	---	---	111.4	

☆ All Driven Elements must be Dynamically Balanced & ☆ All motors should be Vibration Class V5.

☆☆ For output speeds 180 to 720 RPM range only & with special gear ratio 150 output RPM can be given for light duty purpose only.

SELECTION CHART (UNIFORM LOAD)
POWER RATINGS & OUT PUT SPEEDS
MOTOR POWER - 60 HP (45 KW)

ROTOFLEX®
Gear Drives

NOMINAL OUT PUT SPEED RPM	INPUT SPEED RPM	T Y P E	GEARED MOTOR MODEL (HOLLOW I/P TO SUIT FLANGE)					GEARBOX MODEL (MALE I/P SHAFT)				HORIZONTAL GEARBOX MODEL
			MALE OUT PUT SHAFT			HOLLOW OUT PUT SMSR	MOTOR FRAME B5 FLANGE	MALE OUT PUT SHAFT		HOLLOW OUT PUT SMSR		
			FOOT	FLANGE	AGITATOR			FOOT	FLANGE			
35 TO 44	1440	K	123KH	123.1KH	---	---	225M/4	123K-I	123.1K-I	---	123.4	
46 to 125	1440	K	113KH	113.1KH	---	---	225M/4	113K-I	113.1K-I	---	113.4	
130 to 200	1440	K	112KH	112.1KH	---	---	225M/4	112K-I	112.1K-I	---	112.4	
☆ 220 TO 720	1440	K	---	---	---	---	---	---	---	---	111.4	

MOTOR POWER - 75 HP (55 KW)

NOMINAL OUT PUT SPEED RPM	INPUT SPEED RPM	T Y P E	GEARED MOTOR MODEL (HOLLOW I/P TO SUIT FLANGE)					GEARBOX MODEL (MALE I/P SHAFT)				HORIZONTAL GEARBOX MODEL
			MALE OUT PUT SHAFT			HOLLOW OUT PUT SMSR	MOTOR FRAME B5 FLANGE	MALE OUT PUT SHAFT		HOLLOW OUT PUT SMSR		
			FOOT	FLANGE	AGITATOR			FOOT	FLANGE			
40 TO 78	1440	K	123KH	123.1KH	---	---	250M/4	123K-I	123.1K-I	---	123.4	
80 TO 125	1440	K	113KH	113.1KH	---	---	250M/4	113K-I	113.1K-I	---	113.4	
130 TO 200	1440	K	112KH	112.1KH	---	---	250M/4	112K-I	112.1K-I	---	112.4	
☆ 220 TO 720	1440	K	---	---	---	---	---	---	---	---	111.4	

MOTOR POWER - 100 HP (75 KW)

NOMINAL OUT PUT SPEED RPM	INPUT SPEED RPM	T Y P E	GEARED MOTOR MODEL (HOLLOW I/P TO SUIT FLANGE)					GEARBOX MODEL (MALE I/P SHAFT)				HORIZONTAL GEARBOX MODEL
			MALE OUT PUT SHAFT			HOLLOW OUT PUT SMSR	MOTOR FRAME B5 FLANGE	MALE OUT PUT SHAFT		HOLLOW OUT PUT SMSR		
			FOOT	FLANGE	AGITATOR			FOOT	FLANGE			
46 TO 110	1440	K	123KH	123.1KH	---	---	280M/4	123K-I	123.1K-I	---	123.4	
125 TO 150	1440	K	113KH	113.1KH	---	---	280M/4	113K-I	113.1K-I	---	113.4	
160 TO 200	1440	K	112KH	112.1KH	---	---	280M/4	112K-I	112.1K-I	---	112.4	
☆ 220 TO 720	1440	K	---	---	---	---	---	---	---	---	111.4	

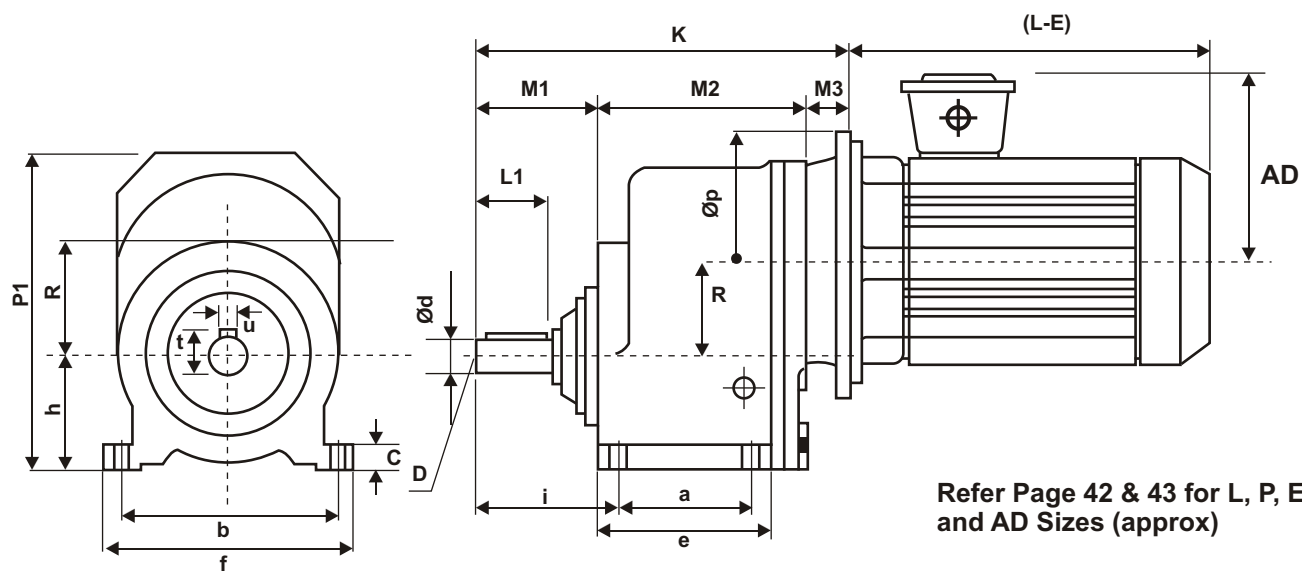
☆ All Driven Elements must be Dynamically Balanced & ☆ All motors should be Vibration Class V5.

☆☆ For output speeds 180 to 720 RPM range only & with special gear ratio 150 output RPM can be given for light duty purpose only.

FOOT MOUNTED GEARED MOTOR

Single Stage Reduction - Helical

ROTOFLEX[®]
Gear Drives



Model	a	b	c	e	f	h	i	K	M1	M2	M3	L1	d	u	t	D	R	P1	S
11KH	60	120	12	80	140	60	61	159	50	96	13	37	16	5	18	M4	49	164	8.5
21KH	85	140	14	106	160	70	73	199	63	123	13	47	20	6	22.7	M6	61.5	196.5	8.5
31KH	105	175	16	130	200	80	86	243	75	147	21	55	25	8	27.9	M8	73.7	224	11
41KH	112	220	20	142	250	100	113	286	96	160	30	76	32	10	35.3	M12	86	276	14
51KH	125	225	22	155	250	110	137	327	124	173	30	104	40	12	43.1	M16	98.4	303	17
61KH	145	265	30	185	305	130	150	388	130	203	55	104	50	14	53.5	M16	123	368	21
71KH	180	310	35	222	350	155	183	467	157	240	70	134	60	18	64.2	M16	147.5	421	21

Principal Dimensions in mm.

These dimensions are for preliminary use only and are subject to our confirmation.

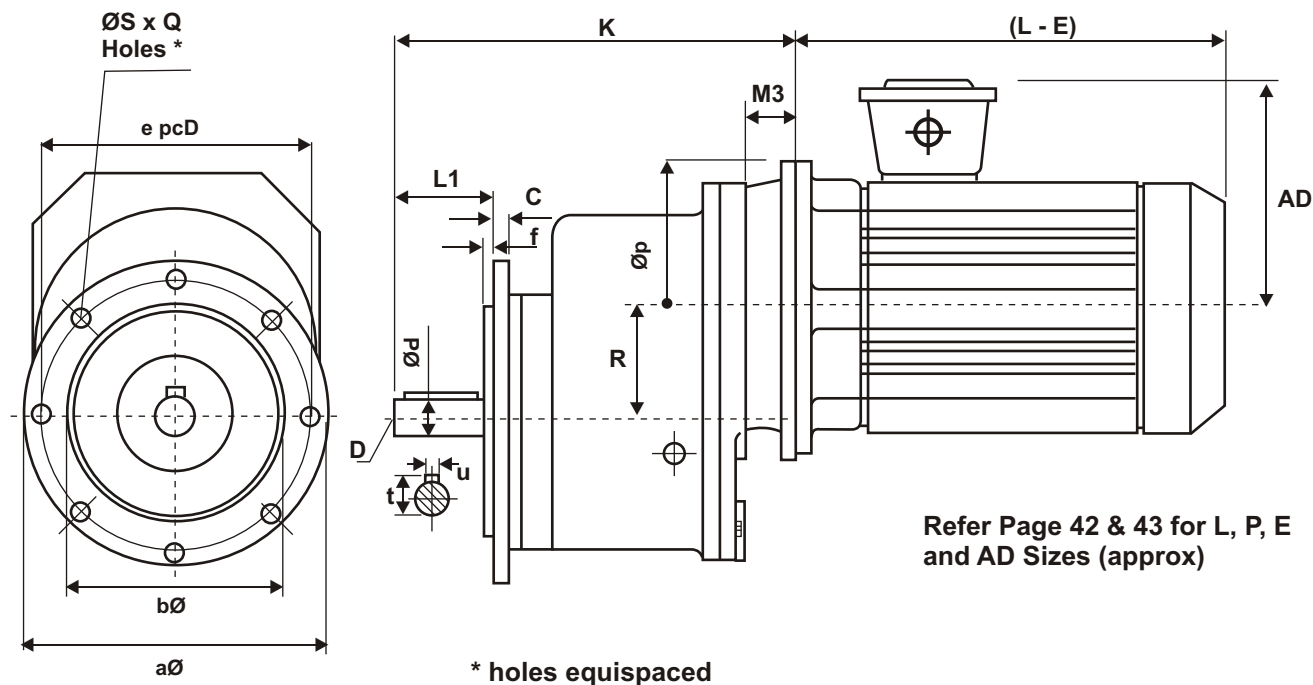
Tolerances on dia 'd' h6

Tolerances on h - +/- 0.5mm

FLANGE MOUNTED GEARED MOTOR

Single Stage Reduction - Helical

ROTOFLEX[®]
Gear Drives



Mode I	a	b	c	e	f	K	M3	R	L1	d	u	t	D	S	Q
11 .1 KH	140	95	6	120	3	158	13	49	37	16	5	18	M4	8.5	4
21 .1 KH	160	110	8	140	3	195	13	61.5	47	20	6	22.7	M6	9	4
31.1K H	200	130	10	165	4	237	21	73.7	55	25	8	27.9	M8	11	4
41.1K H	255	180	12	235	5	285	30	86	76	32	10	35.3	M12	13	4
51.1K H	255	180	12	235	5	325	30	98.4	104	40	12	43.1	M16	13	4
61.1K H	300	230	15	265	6	390	55	123	104	50	14	53.5	M16	13	4
71.1K H	350	250	16	300	6	472	70	147.5	134	60	18	64.2	M16	15	8

Principal Dimensions in mm.

These dimensions are for preliminary use only and are subject to our confirmation.

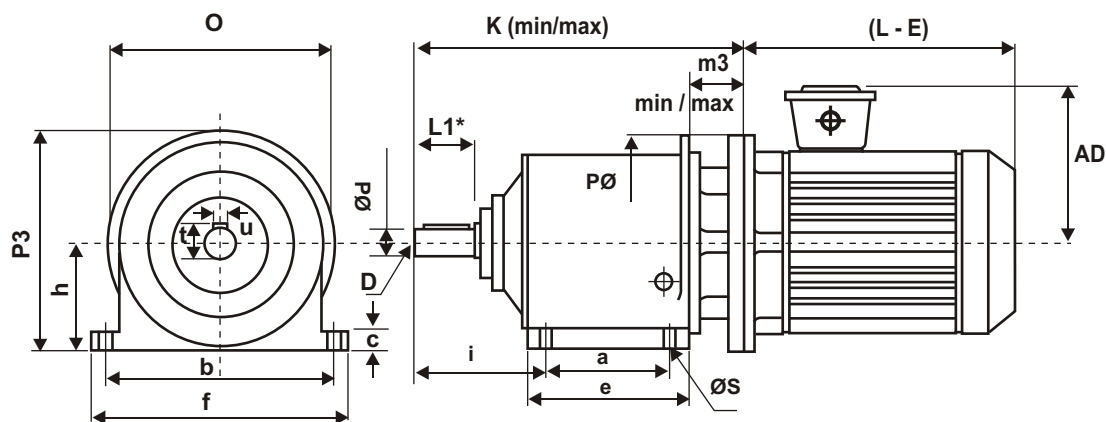
Tolerances on dia 'd' h6

Tolerances on b $\varnothing$ - 0.1/-0.2mm

FOOT MOUNTED GEARED MOTOR

2 and 3 stage Reduction - Helical / Helio Drive

ROTOFLEX®
Gear Drives



Refer Page 42 & 43 for L, P, E
and AD Sizes (approx)
* L2 for HDH Models (Length of Shaft)

Model	a	b	c	e	f	h	i	K	M3	L1	d	u	t	d	s	L2	O	P3
12KH 13KH	80	130	14	100	145	70	76	214	40	37	16	5	18	M4	8.5	-	140	140
22KH 23KH 22HDH	95	160	16	121	180	80	95	243	40	47	20	6	22.7	M6	9	35	160	160
32KH 33KH 32HDH	125	200	20	151	230	100	117	$\frac{297}{317}$	$\frac{42}{62}$	55	25	8	27.9	M8	11.5	42	190	195
42KH 43KH 42HDH	140	230	25	170	260	120	143	$\frac{348}{370}$	$\frac{50}{72}$	76	32	10	35.3	M12	14	62	230	235
52KH 53KH 52HDH	170	260	27	200	300	140	170	$\frac{403}{429}$	$\frac{50}{74}$	104	40	12	43.1	M16	17	86	250	265
62KH 63KH 62HDH	200	300	40	235	350	170	187	$\frac{455}{498}$	$\frac{50}{93}$	104	50	14	53.5	M16	22	86	300	320
72KH 73KH 72HDH	220	350	40	270	410	200	235	$\frac{550}{601}$	$\frac{70}{121}$	134	60	18	64.2	M16	22	115	350	375
82KH 83KH 82HDH	280	420	50	340	475	240	245	$\frac{623}{674}$	$\frac{68}{119}$	134	70	20	74.6	M20	25	115	380	430
92KH 93KH 92HDH	300	475	50	380	530	260	300	$\frac{706}{736}$	$\frac{66}{96}$	174	90	25	95.3	M24	28	130	450	485
102KH 103KH	340	540	60	415	600	290	340	825	106	204	100	28	106.1	M24	28	-	500	540
112KH 113KH	440	600	60	518	680	320	429	$\frac{1100}{1025}$	$\frac{192}{117}$	240	120	32	127	M24	32	-	550	600
122KH 123KH	500	680	70	575	760	380	427	$\frac{1170}{1100}$	$\frac{206}{136}$	240	150	36	158	M30	32	-	650	710

Principal Dimensions in mm.

These dimensions are for preliminary use only and are subject to our confirmation.

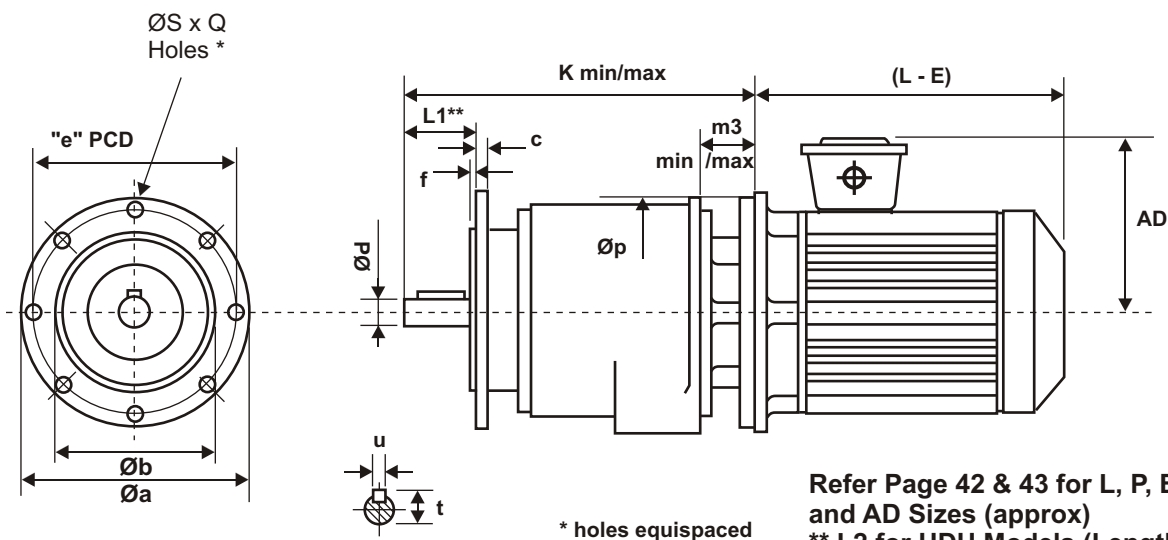
Tolerances on dia 'd' h6

Tolerances on h +/-0.5mm

FLANGE MOUNTED GEARED MOTOR

2 and 3 stage Reduction - Helical / Helio Drive

ROTOFLEX®
Gear Drives



Refer Page 42 & 43 for L, P, E
and AD Sizes (approx)
** L2 for HDH Models (Length of Shaft)

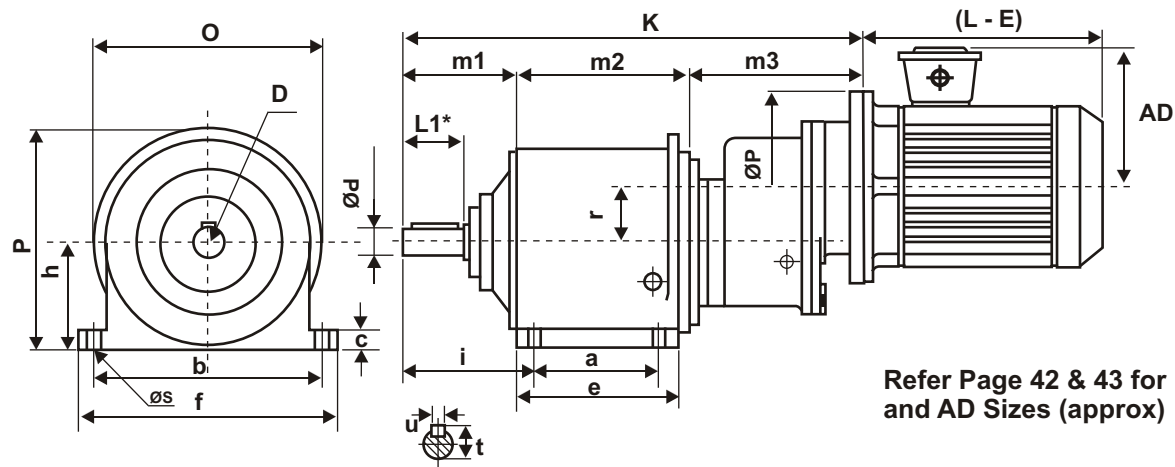
Model	a	b	c	e	f	K	M3	L1	L2	d	u	t	D	S	Q
12.1KH 13.1KH	140	95	6	120	3	214	40	-	16	5	18	M4	8.5	-	4
22.1KH 23.1KH 22.1HDH	160	110	8	140	3	240	40	50	35	20	6	22.7	M6	9	4
32.1KH 33.1KH 32.1HDH	200	130	10	165	4	291	$\frac{42}{62}$	60	42	25	8	27.9	M8	11	4
42.1KH 43.1KH 42.1HDH	255	180	12	235	5	$\frac{359}{370}$	$\frac{50}{72}$	80	62	32	10	35.3	M12	13	4
52.1KH 53.1KH 52.1HDH	255	180	12	235	5	$\frac{418}{429}$	$\frac{50}{74}$	110	86	40	12	43.1	M16	13	4
62.1KH 63.1KH 62.1HDH	300	230	15	265	6	$\frac{467}{498}$	$\frac{50}{93}$	110	86	50	14	53.5	M16	13	4
72.1KH 73.1KH 72.1HDH	350	250	16	300	6	$\frac{550}{601}$	$\frac{70}{121}$	140	115	60	18	64.2	M16	15	8
82.1KH 83.1KH 82.1HDH	450	350	23	400	6	$\frac{623}{674}$	$\frac{68}{119}$	140	115	70	20	74.6	M20	18	8
92.1KH 93.1KH 92.1HDH	550	450	28	500	6	$\frac{706}{736}$	$\frac{66}{96}$	180	130	90	25	95.3	M24	18	8
102.1KH 103.1KH	660	550	40	600	6	825	106	210	-	100	28	106.1	M24	18	8
112.1KH 113.1KH	660	550	40	600	6	$\frac{1100}{1025}$	$\frac{192}{117}$	240	-	120	32	127	M24	22	8
122.1KH 123.1KH	800	680	40	740	10	$\frac{1170}{1100}$	$\frac{206}{136}$	240	-	150	36	158	M30	28	8

Principal Dimensions in mm.
These dimensions are for preliminary use only and are subject to our confirmation.
Tolerances on dia 'd' h6
Tolerances on b $\varnothing$ -0.1/-0.2

FOOT MOUNTED COUPLED GEARED MOTOR

Four stage Reduction - Helical

ROTOFLEX®
Gear Drives



Refer Page 42 & 43 for L, P, E
and AD Sizes (approx)

Model	a	b	c	e	f	h	i	K	m1	m2	m3	r	o	s	L1	d	u	t	d
23K+11.1KH	95	160	16	121	180	80	95	334	82	131	121	49	160	9	47	20	6	22.7	m6
33K+11.1KH	125	200	20	151	230	100	117	386	104	161	121	49	190	11.5	55	25	8	27.9	m8
33K+21.1KH	125	200	20	151	230	100	117	413	104	161	148	61.5	190	11.5	55	25	8	27.9	m8
43K+11.1KH	140	230	25	170	260	120	143	430	127	182	121	49	230	14	76	32	10	35.3	m12
43K+21.1KH	140	230	25	170	260	120	143	457	127	182	148	61.5	230	14	76	32	10	35.3	m12
43K+31.1KH	140	230	25	170	260	120	143	491	127	182	182	73.7	230	14	76	32	10	35.3	m12
53K+11.1KH	170	260	27	200	300	140	170	487	154	212	121	49	250	17	104	40	12	43.1	m16
53K+21.1KH	170	260	27	200	300	140	170	514	154	212	148	61.5	250	17	104	40	12	43.1	m16
53K+31.1KH	170	260	27	200	300	140	170	548	154	212	182	73.7	250	17	104	40	12	43.1	m16
53K+41.1KH	170	260	27	235	300	140	170	575	154	212	209	86	250	17	104	40	12	43.1	m16
63K+21.1KH	200	300	40	235	350	170	187	568	170	250	148	61.5	300	22	104	50	14	53.5	m16
63K+31.1KH	200	300	40	235	350	170	187	602	170	250	182	73.7	300	22	104	50	14	53.5	m16
63K+41.1KH	200	300	40	235	350	170	187	629	170	250	209	86	300	22	104	50	14	53.5	m16
63K+51.1KH	200	300	40	235	350	170	187	641	170	250	221	98.4	300	22	104	50	14	53.5	m16
73K+31.1KH	220	350	40	270	410	200	235	683	211	290	182	73.7	350	22	134	60	18	64.2	m16
73K+41.1KH	220	350	40	270	410	200	235	710	211	290	209	86	350	22	134	60	18	64.2	m16
73K+51.1KH	220	350	40	270	410	200	235	722	211	290	221	98.4	350	22	134	60	18	64.2	m16
73K+61.1KH	220	350	40	270	410	200	235	787	211	290	286	12.3	350	22	134	60	18	64.2	m16
83K+41.1KH	280	420	50	340	475	240	245	764	214	341	209	86	430	25	134	70	20	74.6	m20
83K+51.1KH	280	420	50	340	475	240	245	776	214	341	221	98.4	430	25	134	70	20	74.6	m20
83K+61.1KH	280	420	50	340	475	240	245	841	214	341	286	123	430	25	134	70	20	74.6	m20
83K+71.1KH	280	420	50	340	475	240	245	893	214	341	338	147.3	430	25	134	70	20	74.6	m20
93K+51.1KH	300	475	50	380	530	260	300	874	253	400	221	98.4	450	28	174	90	25	95.3	m24
93K+61.1KH	300	475	50	380	530	260	300	939	253	400	286	123	450	28	174	90	25	95.3	m24
93K+71.1KH	300	475	50	380	530	260	300	991	253	400	338	147.3	450	28	174	90	25	95.3	m24
103K+51.1KH	340	540	60	415	600	290	340	940	279	440	221	98.4	500	28	204	100	28	106.1	m24
103K+61.1KH	340	540	60	415	600	290	340	1005	279	440	286	123	500	28	204	100	28	106.1	m24
103K+71.1KH	340	540	60	415	600	290	340	1057	279	440	338	147.3	500	28	204	100	28	106.1	m24
113K+61.1KH	440	600	60	518	680	320	429	1216	390	540	286	123	550	32	240	120	32	127	m24
113K+71.1KH	440	600	60	518	680	320	429	1268	390	540	338	147.3	550	32	240	120	32	127	m24
123K+71.1KH	500	680	70	575	760	380	427	1328	390	600	338	147.3	650	32	240	150	36	158	m30

Principal Dimensions in mm.

These dimensions are for preliminary use only and are subject to our confirmation.

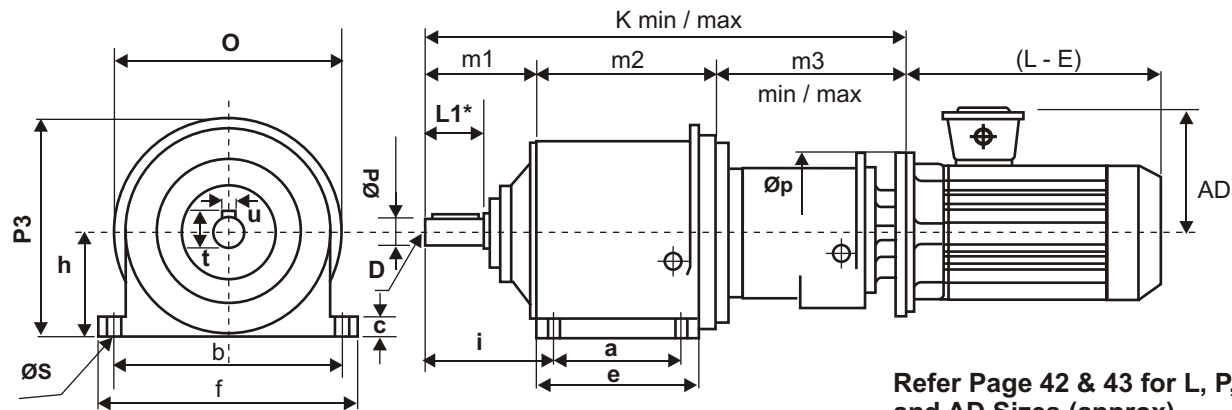
Tolerances on dia 'd' h6

Tolerances on h - +/-0.5mm

FOOT MOUNTED COUPLED GEARED MOTOR

5 and 6 stage Reduction - Helical

ROTOFLEX®
Gear Drives



Refer Page 42 & 43 for L, P, E
and AD Sizes (approx)

Model	a	b	c	e	f	h	i	K	m1	m2	m3	o	L1	d	u	t	S	D	P3
23K+12.1KH	95	160	16	121	180	80	95	387	82	131	174	160	47	20	6	22.7	9	M6	160
23K+13.1KH	95	160	16	121	180	80	95	387	82	131	174	160	47	20	6	22.7	9	M6	160
33K+12.1KH	125	200	20	151	230	100	117	439	104	161	174	190	55	25	8	27.9	11.5	M8	195
33K+13.1KH	125	200	20	151	230	100	117	439	104	161	174	190	55	25	8	27.9	11.5	M8	195
33K+22.1KH	125	200	20	151	230	100	117	455	104	161	190	190	55	25	8	27.9	11.5	M8	195
33K+23.1KH	125	200	20	151	230	100	117	455	104	161	190	190	55	25	8	27.9	11.5	M8	195
43K+12.1KH	140	230	25	170	260	120	143	483	127	182	174	230	76	32	10	35.3	14	M12	235
43K+13.1KH	140	230	25	170	260	120	143	483	127	182	174	230	76	32	10	35.3	14	M12	235
43K+22.1KH	140	230	25	170	260	120	143	499	127	182	190	230	76	32	10	35.3	14	M12	235
43K+23.1KH	140	230	25	170	260	120	143	499	127	182	190	230	76	32	10	35.3	14	M12	235
43K+32.1KH	140	230	25	170	260	120	143	540	127	182	231	230	76	32	10	35.3	14	M12	235
43K+33.1KH	140	230	25	170	260	120	143	540	127	182	231	230	76	32	10	35.3	14	M12	235
53K+13.1KH	170	260	27	200	300	140	170	540	154	212	174	250	104	40	12	43.1	17	m16	265
53K+22.1KH	170	260	27	200	300	140	170	556	154	212	190	250	104	40	12	43.1	17	m16	265
53K+23.1KH	170	260	27	200	300	140	170	556	154	212	190	250	104	40	12	43.1	17	m16	265
53K+32.1KH	170	260	27	200	300	140	170	597	154	212	231	250	104	40	12	43.1	17	m16	265
53K+33.1KH	170	260	27	200	300	140	170	597	154	212	231	250	104	40	12	43.1	17	m16	265
63K+23.1KH	200	300	40	235	350	170	187	610	170	250	190	300	104	50	14	53.5	22	M16	320
63K+32.1KH	200	300	40	235	350	170	187	651	170	250	231	300	104	50	14	53.5	22	M16	320
63K+33.1KH	200	300	40	235	350	170	187	651	170	250	231	300	104	50	14	53.5	22	M16	320
63K+42.1KH	200	300	40	235	350	170	187	699 710	170	250	279 290	300	104	50	14	53.5	22	M16	320
63K+43.1KH	200	300	40	235	350	170	187	699 710	170	250	279 290	300	104	50	14	53.5	22	M16	320
73K+32.1KH	220	350	40	270	410	200	235	732	211	290	231	350	134	60	18	64.2	22	M16	375
73K+33.1KH	220	350	40	270	410	200	235	732	211	290	231	350	134	60	18	64.2	22	M16	375
73K+42.1KH	220	350	40	270	410	200	235	780 791	211	290	279 290	350	134	60	18	64.2	22	M16	375
73K+43.1KH	220	350	40	270	410	200	235	780 791	211	290	279 290	350	134	60	18	64.2	22	M16	375
73K+52.1KH	220	350	40	270	410	200	235	809 820	211	290	308 319	350	134	60	18	64.2	22	M16	375
73K+53.1KH	220	350	40	270	410	200	235	809 820	211	290	308 319	350	134	60	18	64.2	22	M16	375
83K+32.1KH	280	420	50	340	475	240	245	786	214	341	231	380	134	70	20	74.6	25	M20	430
83K+33.1KH	280	420	50	340	475	240	245	786	214	341	231	380	134	70	20	74.6	25	M20	430
83K+42.1KH	280	420	50	340	475	240	245	834 845	214	341	279 290	380	134	70	20	74.6	25	M20	430
83K+43.1KH	280	420	50	340	475	240	245	834 845	214	341	279 290	380	134	70	20	74.6	25	M20	430
83K+52.1KH	280	420	50	340	475	240	245	863 874	214	341	308 319	380	134	70	20	74.6	25	M20	430

Principal Dimensions in mm.

These dimensions are for preliminary use only and are subject to our confirmation.

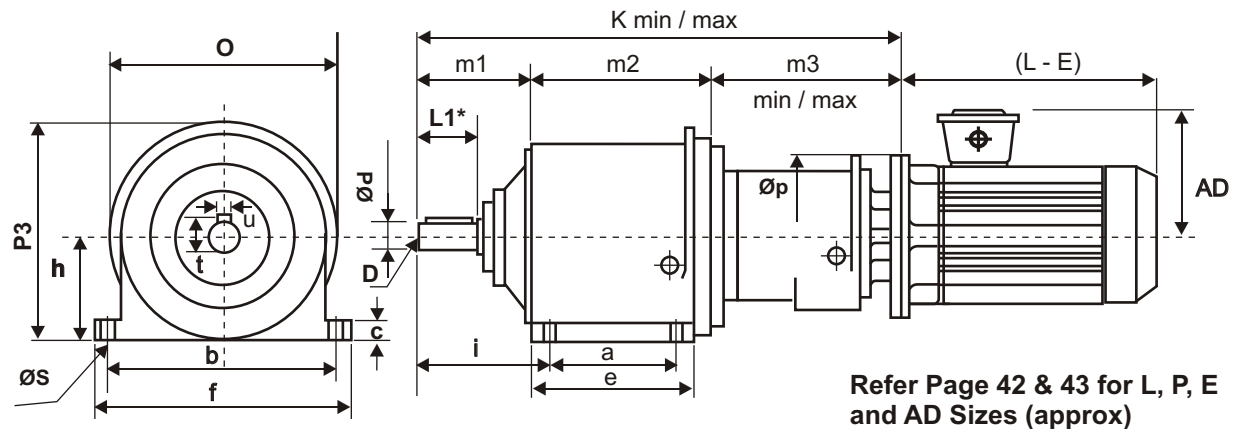
Tolerances on dia 'd' h6

Tolerances on h - +/-0.5mm

FOOT MOUNTED COUPLED GEARED MOTOR

5 and 6 stage Reduction - Helical

ROTOFLEX®
Gear Drives



Refer Page 42 & 43 for L, P, E and AD Sizes (approx)

Model	a	b	c	e	f	h	i	K	m1	m2	m3	O	L1	d	u	t	S	D
83K+53.1KH	280	420	50	340	475	240	245	$\frac{863}{874}$	214	341	$\frac{308}{319}$	380	134	70	20	74.6	25	M20
83K+62.1KH	280	420	50	340	475	240	245	$\frac{912}{943}$	214	341	$\frac{357}{388}$	380	134	70	20	74.6	25	M20
83K+63.1KH	280	420	50	340	475	240	245	$\frac{912}{943}$	214	341	$\frac{357}{388}$	380	134	70	20	74.6	25	M20
93K+42.1KH	300	475	50	380	530	260	300	$\frac{932}{943}$	253	400	$\frac{279}{290}$	450	174	90	25	95.3	28	M24
93K+43.1KH	300	475	50	380	530	260	300	$\frac{932}{943}$	253	400	$\frac{279}{290}$	450	174	90	25	95.3	28	M24
93K+52.1KH	300	475	50	380	530	260	300	$\frac{961}{972}$	253	400	$\frac{308}{319}$	450	174	90	25	95.3	28	M24
93K+53.1KH	300	475	50	380	530	260	300	$\frac{961}{972}$	253	400	$\frac{308}{319}$	450	174	90	25	95.3	28	M24
93K+62.1KH	300	475	50	380	530	260	300	$\frac{1010}{1041}$	253	400	$\frac{357}{388}$	450	174	90	25	95.3	28	M24
93K+63.1KH	300	475	50	380	530	260	300	$\frac{1010}{1041}$	253	400	$\frac{357}{388}$	450	174	90	25	95.3	28	M24
103K+42.1KH	340	540	60	415	600	290	340	$\frac{998}{1009}$	279	440	$\frac{279}{290}$	500	204	100	28	106.1	28	M24
103K+43.1KH	340	540	60	415	600	290	340	$\frac{998}{1009}$	279	440	$\frac{279}{290}$	500	204	100	28	106.1	28	M24
103K+52.1KH	340	540	60	415	600	290	340	$\frac{1027}{1038}$	279	440	$\frac{308}{319}$	500	204	100	28	106.1	28	M24
103K+53.1KH	340	540	60	415	600	290	340	$\frac{1027}{1038}$	279	440	$\frac{308}{319}$	500	204	100	28	106.1	28	M24
103K+62.1KH	340	540	60	415	600	290	340	$\frac{1076}{1107}$	279	440	$\frac{357}{388}$	500	204	100	28	106.1	28	M24
103K+63.1KH	340	540	60	415	600	290	340	$\frac{1076}{1107}$	279	440	$\frac{357}{388}$	500	204	100	28	106.1	28	M24
103K+72.1KH	340	540	60	415	600	290	340	$\frac{1129}{1180}$	279	440	$\frac{410}{461}$	500	204	100	28	106.1	28	M24
103K+73.1KH	340	540	60	415	600	290	340	$\frac{1129}{1180}$	279	440	$\frac{410}{461}$	500	204	100	28	106.1	28	M24
113K+63.1KH 113K+62.1KH	440	600	60	518	680	320	429	$\frac{1290}{1321}$	390	543	$\frac{357}{388}$	550	240	120	32	127	32	M24
123K+73.1KH 123K+72.1KH	500	680	70	575	760	380	427	$\frac{1400}{1451}$	389	601	$\frac{410}{461}$	650	240	150	36	158	32	M30

Principal Dimensions in mm.

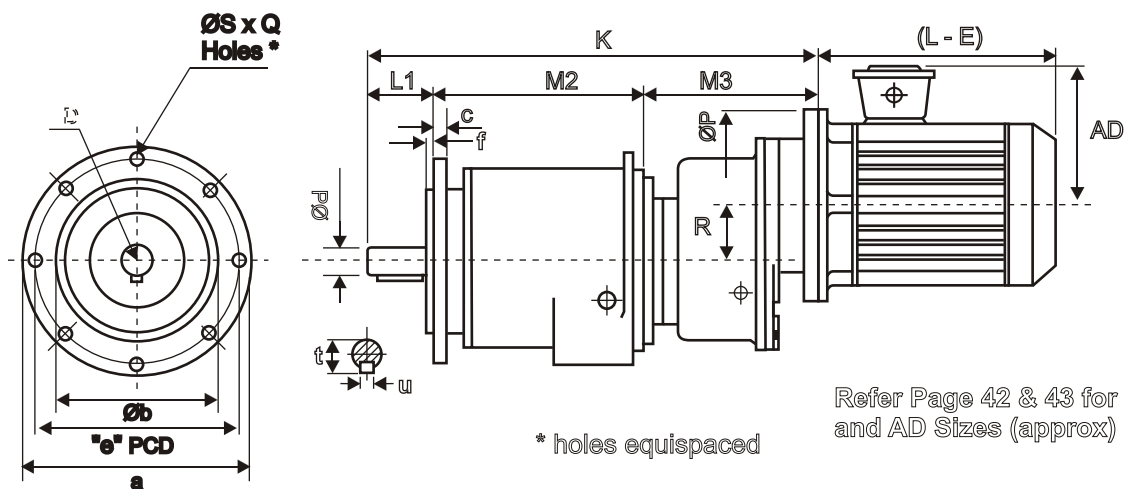
These dimensions are for preliminary use only and are subject to our confirmation.

Tolerances on dia 'd' h6

Tolerances on h - +/-0.5mm

FLANGE MOUNTED COUPLED GEARED MOTOR 4 Stage Reduction - Helical

ROTOFLEX®
Gear Drives



Model	a	b	C	e	f	K	M2	M3	R	L1	d	U	t	D	S	Q
23.1K*11.1KH	100	110	8	140	3	344	173	121	40	80	20	6	22.7	M6	9	4
33.1K*11.1KH	200	130	10	165	4	368	205	121	40	80	25	8	27.9	M6	11	4
33.1K*21.1KH	200	130	10	165	4	413	205	146	61.5	80	25	8	27.9	M6	11	4
43.1K*11.1KH	255	180	12	235	5	430	229	121	40	80	32	10	35.3	M12	13	4
43.1K*21.1KH	255	180	12	235	5	457	229	146	61.5	80	32	10	35.3	M12	13	4
43.1K*41.1KH	255	180	12	235	5	491	229	182	73.7	80	32	10	35.3	M12	13	4
53.1K*11.1KH	255	180	12	235	5	489	256	121	40	110	40	12	43.1	M16	13	4
53.1K*21.1KH	255	180	12	235	5	514	256	146	61.5	110	40	12	43.1	M16	13	4
53.1K*41.1KH	255	180	12	235	5	546	256	182	73.7	110	40	12	43.1	M16	13	4
63.1K*11.1KH	255	180	12	235	5	575	256	209	88	110	40	12	43.1	M16	13	4
63.1K*21.1KH	300	230	15	265	6	598	310	146	61.5	110	50	14	53.5	M16	13	4
63.1K*41.1KH	300	230	15	265	6	602	310	182	73.7	110	50	14	53.5	M16	13	4
63.1K*71.1KH	300	230	15	265	6	629	310	209	88	110	50	14	53.5	M16	13	4
73.1K*11.1KH	350	260	16	300	6	663	361	182	73.7	140	60	18	64.2	M16	15	8
73.1K*41.1KH	350	260	16	300	6	710	361	209	88	140	60	18	64.2	M16	15	8
73.1K*71.1KH	350	260	16	300	6	722	361	221	96.4	140	60	18	64.2	M16	15	8
73.1K*91.1KH	350	260	16	300	6	787	361	256	123	140	60	18	64.2	M16	15	8
83.1K*11.1KH	450	360	23	400	6	764	415	209	88	140	70	20	74.6	M20	18	8
83.1K*41.1KH	450	360	23	400	6	776	415	221	96.4	140	70	20	74.6	M20	18	8
83.1K*71.1KH	450	360	23	400	6	841	415	256	123	140	70	20	74.6	M20	18	8
83.1K*91.1KH	450	360	23	400	6	893	415	336	147.3	140	70	20	74.6	M20	18	8
93.1K*11.1KH	550	450	28	500	6	892	473	209	88	180	90	25	95.3	M24	18	8
93.1K*41.1KH	550	450	28	500	6	874	473	221	96.4	180	90	25	95.3	M24	18	8
93.1K*71.1KH	550	450	28	500	6	939	473	256	123	180	90	25	95.3	M24	18	8
93.1K*91.1KH	550	450	28	500	6	991	473	336	147.3	180	90	25	95.3	M24	18	8
103.1K*11.1KH	650	550	40	600	6	940	509	221	96.4	210	100	28	106.1	M24	22	8
103.1K*41.1KH	650	550	40	600	6	1005	509	256	123	210	100	28	106.1	M24	22	8
103.1K*71.1KH	650	550	40	600	6	1057	509	336	147.3	210	100	28	106.1	M24	22	8
113.1K*11.1KH	650	550	40	600	6	1216	600	256	123	240	120	32	127	M24	22	8
113.1K*71.1KH	650	550	40	600	6	1266	600	336	147.3	240	120	32	127	M24	22	8
123.1K*71.1KH	800	680	40	740	10	1326	750	336	147.3	240	180	36	156	M30	28	8

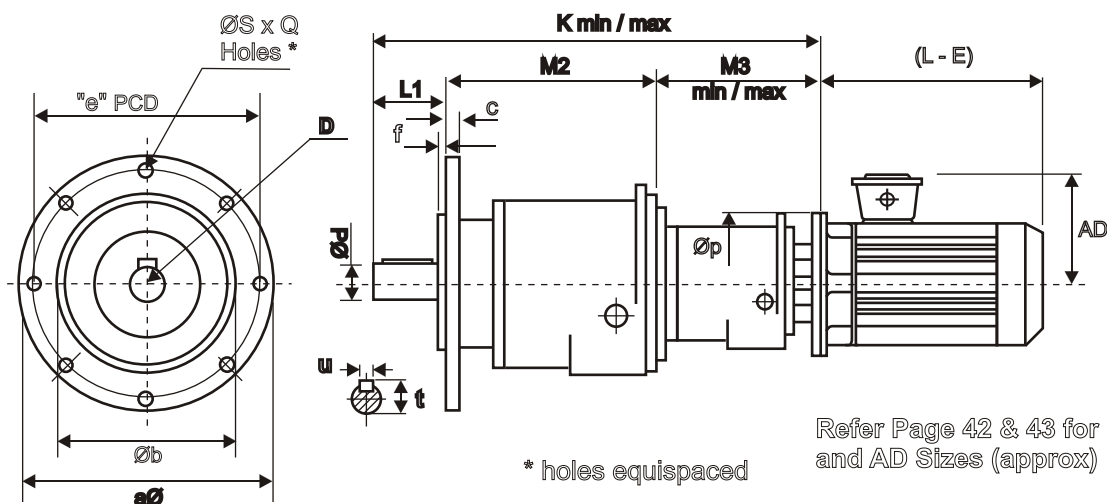
Principal Dimensions in mm.
These dimensions are for preliminary use only and are subject to our confirmation.
Tolerances on dia 'd' h6
Tolerances on bØ -0.1/-0.2mm



FLANGE MOUNTED COUPLED GEARED MOTOR

5 and 6 stage Reduction - Helical

ROTOFLEX®
Gear Drives



Refer Page 42 & 43 for L, P, E
and AD Sizes (approx)

Model	a	b	c	e	f	K	M2	M3	L1	d	u	t	D	S	Q
23.1K+12.1KH	140	95	6	120	3	387	173	174	40	16	5	18	M4	8.5	4
23.1K+1 3.1KH	140	95	6	120	3	387	173	174	40	16	5	18	M4	8.5	4
33.1K+12 .1KH	200	130	10	165	4	436	205	174	60	25	8	27.9	M6	11	4
33.1K+13 .1KH	200	130	10	165	4	436	205	174	60	25	8	27.9	M6	11	4
33.1K+22 .1KH	200	130	10	165	4	465	205	190	60	25	8	27.9	M6	11	4
33.1K+23 .1KH	200	130	10	165	4	465	205	190	60	25	8	27.9	M6	11	4
43.1K+1 2.1KH	255	180	12	235	5	483	229	174	80	32	10	35.3	M12	13	4
43.1K+13 .1KH	255	180	12	235	5	483	229	174	80	32	10	35.3	M12	13	4
43.1K+22 .1KH	255	180	12	235	5	499	229	190	80	32	10	35.3	M12	13	4
43.1K+23 .1KH	255	180	12	235	5	499	229	190	80	32	10	35.3	M12	13	4
43.1K+32 .1KH	255	180	12	235	5	540	229	231	80	32	10	35.3	M12	13	4
43.1K+33 .1KH	255	180	12	235	5	540	229	231	80	32	10	35.3	M12	13	4
53.1K+13 .1KH	255	180	12	235	5	540	256	174	110	40	12	43.1	M16	13	4
53.1K+22 .1KH	255	180	12	235	5	556	256	190	110	40	12	43.1	M16	13	4
53.1K+23 .1KH	255	180	12	235	5	556	256	190	110	40	12	43.1	M16	13	4
53.1K+32 .1KH	255	180	12	235	5	597	256	231	110	40	12	43.1	M16	13	4
53.1K+33 .1KH	255	180	12	235	5	597	256	231	110	40	12	43.1	M16	13	4
63.1K+23 .1KH	300	230	15	285	6	610	310	190	110	50	14	53.5	M16	13	4
63.1K+32 .1KH	300	230	15	285	6	651	310	231	110	50	14	53.5	M16	13	4
63.1K+33 .1KH	300	230	15	285	6	651	310	231	110	50	14	53.5	M16	13	4
63.1K+42 .1KH	300	230	15	285	6	699 710	310	279 290	110	50	14	53.5	M16	13	4
63.1K+43 .1KH	300	230	15	285	6	699 710	310	279 290	110	50	14	53.5	M16	13	4
73.1K+32 .1KH	350	250	16	300	6	732	361	231	140	60	18	64.2	M16	15	8
73.1K+3 3.1KH	350	250	16	300	6	732	361	231	140	60	18	64.2	M16	15	8
73.1K+4 2.1KH	350	250	16	300	6	780 791	361	279 290	140	60	18	64.2	M16	15	8
73.1K+43.1KH	350	250	16	300	6	780 791	361	279 290	140	60	18	64.2	M16	15	8
73.1K+52 .1KH	350	250	16	300	6	809 820	361	308 319	140	60	18	64.2	M16	15	8
73.1K+5 3.1KH	350	250	16	300	6	809 820	361	308 319	140	60	18	64.2	M16	15	8

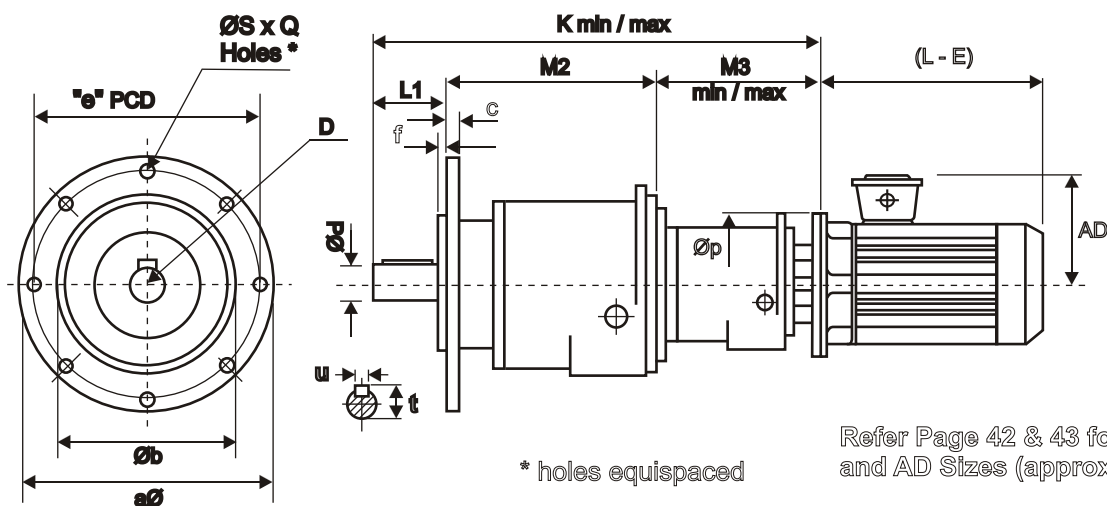
Principal Dimensions in mm.
These dimensions are for preliminary use only and are subject to our confirmation.
Tolerances on dia 'd' h6
Tolerances on bØ - 0.1/-0.2mm



FLANGE MOUNTED COUPLED GEARED MOTOR

5 and 6 stage Reduction - Helical

ROTOFLEX®
Gear Drives



Model	a	b	c	e	f	K	M2	M3	L1	d	u	t	D	S	Q
83.1K+32.1KH	450	350	23	400	6	786	415	231	140	70	20	74.6	M20	18	8
83.1K+33.1KH	450	350	23	400	6	786	415	231	140	70	20	74.6	M20	18	8
83.1K+42.1KH	450	350	23	400	6	834 845	415	279 280	140	70	20	74.6	M20	18	8
83.1K+43.1KH	450	350	23	400	6	834 845	415	279 280	140	70	20	74.6	M20	18	8
83.1K+52.1KH	450	350	23	400	6	863 872	415	308 319	140	70	20	74.6	M20	18	8
83.1K+53.1KH	450	350	23	400	6	863 872	415	308 319	140	70	20	74.6	M20	18	8
83.1K+62.1KH	450	350	23	400	6	912 943	415	357 388	140	70	20	74.6	M20	18	8
93.1K+42.1KH	550	450	28	500	6	932 943	473	279 280	180	90	25	95.3	M24	18	8
93.1K+43.1KH	550	450	28	500	6	932 943	473	279 280	180	90	25	95.3	M24	18	8
93.1K+52.1KH	550	450	28	500	6	961 972	473	308 319	180	90	25	95.3	M24	18	8
93.1K+53.1KH	550	450	28	500	6	961 972	473	308 319	180	90	25	95.3	M24	18	8
93.1K+62.1KH	550	450	28	500	6	1010 1040	473	357 388	180	90	25	95.3	M24	18	8
93.1K+63.1KH	550	450	28	500	6	1010 1040	473	357 388	180	90	25	95.3	M24	18	8
103.1K+43.1KH	680	550	40	600	6	998 1009	509	279 280	210	100	28	106.1	M24	22	8
103.1K+52.1KH	680	550	40	600	6	1027 1038	509	308 319	210	100	28	106.1	M24	22	8
103.1K+53.1KH	680	550	40	600	6	1027 1038	509	308 319	210	100	28	106.1	M24	22	8
103.1K+62.1KH	680	550	40	600	6	1076 1107	509	357 388	210	100	28	106.1	M24	22	8
103.1K+63.1KH	680	550	40	600	6	1076 1107	509	357 388	210	100	28	106.1	M24	22	8
103.1K+72.1KH	680	550	40	600	6	1129 1179	509	410 460	210	100	28	106.1	M24	22	8
113.1K+63.1KH	680	550	40	600	6	1287 1318	690	357 388	240	120	32	127	M24	22	8
123.1K+73.1KH	800	680	40	740	10	1400 1450	750	410 460	240	150	36	158	M30	28	8
123.1K+72.1KH	800	680	40	740	10	1400 1450	750	410 460	240	150	36	158	M30	28	8

Principal Dimensions in mm.

These dimensions are for preliminary use only and are subject to our confirmation.

Tolerances on dia 'd' h6

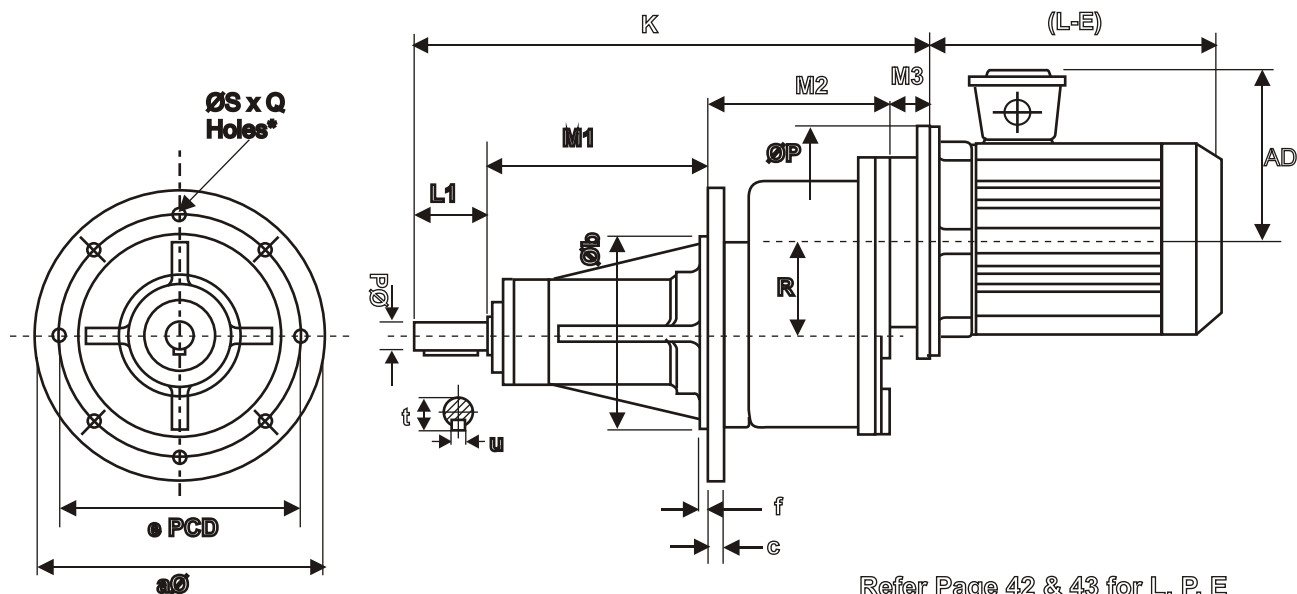
Tolerances on bØ - 0.1/-0.2mm



AGITATOR TYPE GEARED MOTOR

Single stage Reduction - Helical

ROTOFLEX®
Gear Drives



* holes equispaced

Refer Page 42 & 43 for L, P, E
and AD Sizes (approx)

Model	a	b	c	e	f	R	S	Q	L1	d	u	t	M1	M2	M3	K
11.3KH	160	110	9	140	4	49	11	4	40	16	5	18	120	106	13	279
21.3KH	200	140	10	165	4	61.5	11	4	50	20	6	22.7	150	134	13	347
31.3KH	250	180	14	215	4	73.7	14	4	60	25	8	27.9	200	162	21	443
41.3KH	300	230	15	265	4	86	14	4	80	32	10	35.3	245	178	30	533
51.3KH	350	250	18	300	5	98.4	18	4	110	40	12	43.1	265	194	30	599
61.3KH	400	300	18	350	5	123	18	4	110	50	14	53.5	290	225	55	680
71.3KH	450	350	22	400	5	147.3	18	8	140	60	18	64.2	315	265	70	790

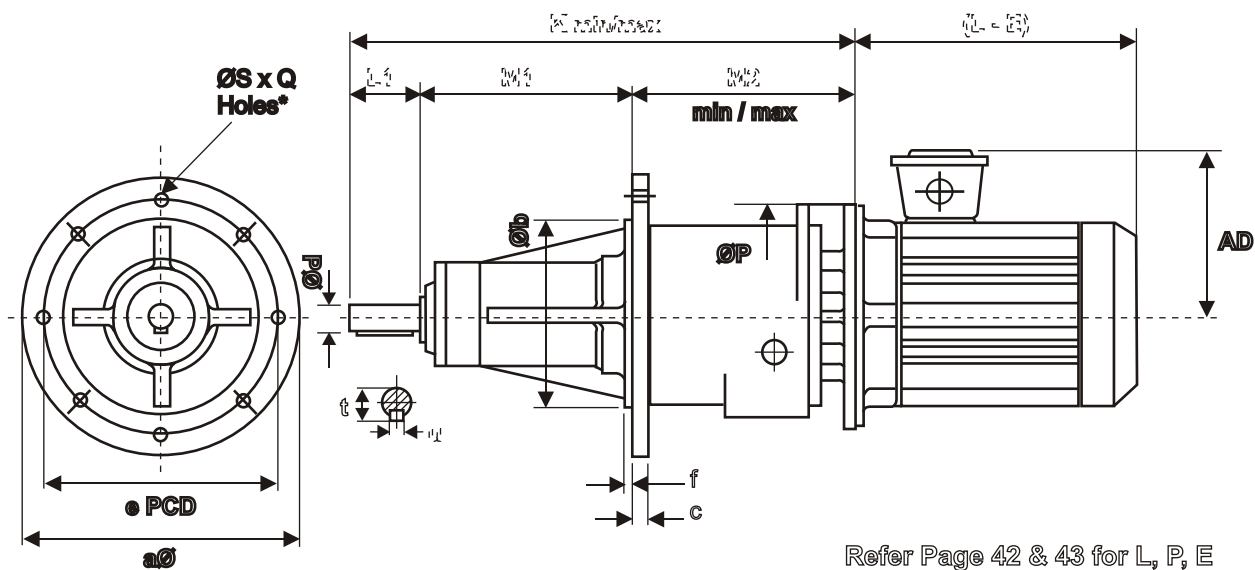
Principal Dimensions in mm.
These dimensions are for preliminary use only and are subject to our confirmation.
Tolerances on dia 'd' h8
Tolerances on bØ - -0.1/-0.2mm



AGITATOR TYPE GEARED MOTOR

2 and 3 stage Reduction - Helical

ROTOFLEX®
Gear Drives



Refer Page 42 & 43 for L, P, E
and AD Sizes (approx)

* holes equispaced

Model	a	b	c	e	f	s	Q	L1	d	u	t	M1	M2	K
12.3K-H 13.3K-H	160	110	9	140	4	11	4	40	16	5	18	120	174	334
22.3K-H 23.3K-H	200	140	10	165	4	11	4	50	20	6	22.7	150	190	390
32.3K-H 33.3K-H	250	180	14	215	4	14	4	60	25	8	27.9	200	231	491
42.3K-H 43.3K-H	300	230	15	265	4	14	4	80	32	10	35.3	245	279 290	604 615
52.3K-H 53.3K-H	350	250	18	300	5	18	4	110	40	12	43.1	285	308 319	683 690
62.3K-H 63.3K-H	400	300	18	350	5	18	4	110	50	14	53.5	290	357 388	757 788
72.3K-H 73.3K-H	450	350	22	400	5	18	8	140	60	18	64.2	315	410 460	865 915
82.3K-H 83.3K-H	550	450	25	500	5	18	8	140	70	20	74.6	350	483 534	973 1024
92.3K-H 93.3K-H	660	550	28	600	6	22	8	180	90	25	95.3	400	526 556	1106 1136
102.3K-H 103.3K-H	660	550	32	600	6	22	8	210	100	28	106.1	450	615	1275

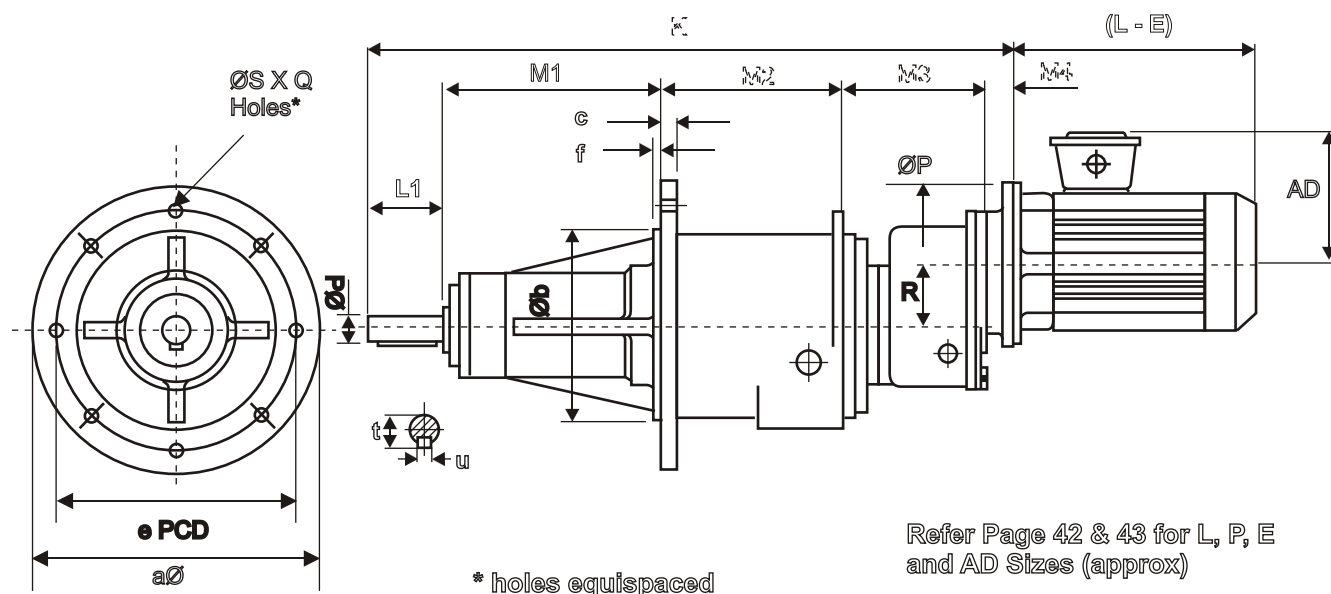
Principal Dimensions in mm.
These dimensions are for preliminary use only and are subject to our confirmation.
Tolerances on dia 'd' h6
Tolerances on bØ -0.1/-0.2mm



AGITATOR TYPE COUPLED GEARED MOTOR

Four Stage Reduction - Helical

ROTOFLEX®
Gear Drives



Model	a	b	c	e	f	S	Q	L1	d	u	t	M1	M2	M3	M4	R	K
23.3K+11.1KH	200	140	10	165	4	11	4	50	20	6	22.7	150	173	106	13	49	492
33.3K+11.1KH	250	180	14	215	4	14	4	60	25	8	27.9	150	205	106	13	49	534
33.3K+21.1KH	250	180	14	215	4	14	4	60	25	8	27.9	150	205	134	13	61.5	562
43.3K+11.1KH	300	230	15	265	4	14	4	80	32	10	35.3	245	229	106	13	49	673
43.3K+21.1KH	300	230	15	265	4	14	4	80	32	10	35.3	245	229	134	13	61.5	701
43.3K+31.1KH	300	230	15	265	4	14	4	80	32	10	35.3	245	229	162	21	73.7	737
53.3K+21.1KH	350	250	18	300	5	18	4	110	40	12	43.1	265	256	134	13	61.5	778
53.3K+31.1KH	350	250	18	300	5	18	4	110	40	12	43.1	265	256	162	21	73.7	814
53.3K+41.1KH	350	250	18	300	5	18	4	110	40	12	43.1	265	256	178	30	86	839
63.3K+31.1KH	400	300	18	350	5	18	4	110	50	14	53.5	290	310	162	21	73.7	893
63.3K+41.1KH	400	300	18	350	5	18	4	110	50	14	53.5	290	310	178	30	86	918
63.3K+51.1KH	400	300	18	350	5	18	4	110	50	14	53.5	290	310	194	30	96.4	934
73.3K+41.1KH	450	350	22	400	5	18	8	140	60	18	64.2	315	361	178	30	86	1024
73.3K+51.1KH	450	350	22	400	5	18	8	140	60	18	64.2	315	361	194	30	96.4	1040
73.3K+61.1KH	450	350	22	400	5	18	8	140	60	18	64.2	315	361	225	55	123	1096
83.3K+41.1KH	550	450	25	500	5	18	8	140	70	20	74.6	350	415	178	30	86	1113
83.3K+51.1KH	550	450	25	500	5	18	8	140	70	20	74.6	350	415	194	30	96.4	1129
83.3K+61.1KH	550	450	25	500	5	18	8	140	70	20	74.6	350	415	225	55	123	1185
93.3K+71.1KH	550	450	25	500	5	18	8	140	70	20	74.6	350	415	265	70	147.3	1240
93.3K+51.1KH	600	550	28	600	6	22	8	180	90	25	95.3	400	473	194	30	96.4	1277
93.3K+61.1KH	600	550	28	600	6	22	8	180	90	25	95.3	400	473	225	55	123	1333
93.3K+71.1KH	600	550	28	600	6	22	8	180	90	25	95.3	400	473	265	70	147.3	1388
103.3K+61.1KH	600	550	32	600	6	22	8	210	100	28	106.1	450	509	225	55	123	1449
103.3K+71.1KH	600	550	32	600	6	22	8	210	100	28	106.1	450	509	265	70	147.3	1504

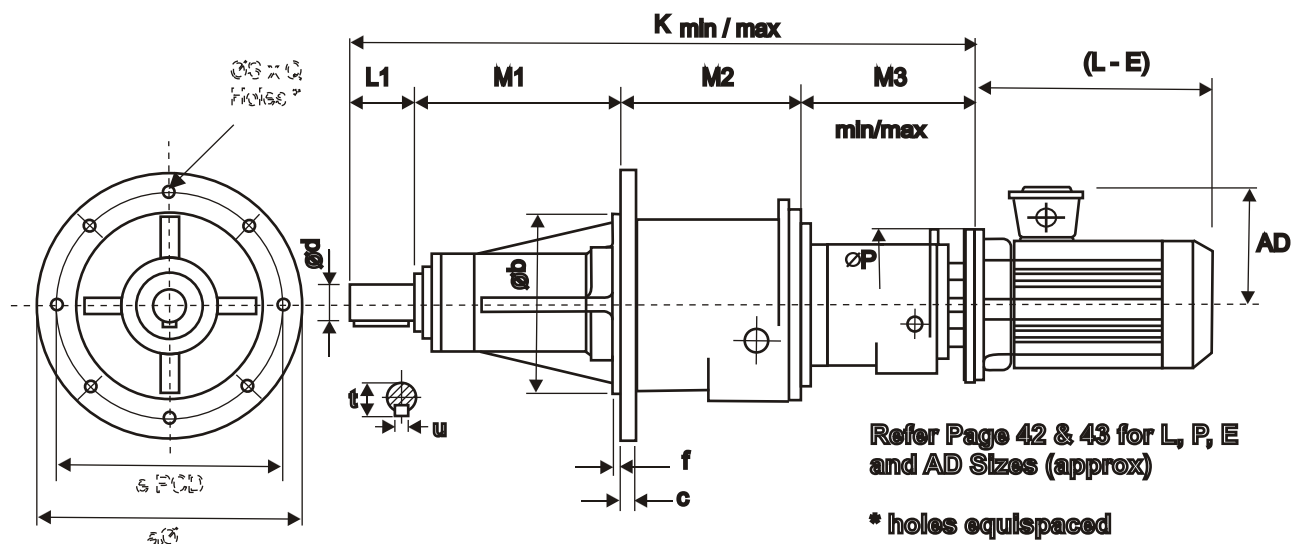
Principal Dimensions in mm.
These dimensions are for preliminary use only and are subject to our confirmation.
Tolerances on dia 'd' h6
Tolerances on bØ - +/0.2mm



AGITATOR TYPE COUPLED GEARED MOTOR

Five & Six Stage Reduction - Helical

ROTOFLEX®
Gear Drives



Model	a	b	c	d	f	S	Q	L1	d	u	t	M1	M2	M3	K
23.3K-12.1KH	200	140	10	165	4	11	4	80	20	6	22.7	180	173	174	547
23.3K-13 .1KH	200	140	10	165	4	11	4	80	20	6	22.7	180	173	174	547
33.3K-12 .1KH	250	160	14	215	4	14	4	80	25	8	27.9	180	205	174	589
33.3K-13 .1KH	250	160	14	215	4	14	4	80	25	8	27.9	180	205	174	589
33.3K-22 .1KH	250	160	14	215	4	14	4	80	25	8	27.9	180	205	180	605
33.3K-23 .1KH	250	160	14	215	4	14	4	80	25	8	27.9	180	205	180	605
43.3K-12 .1KH	300	230	15	265	4	14	4	80	32	10	35.3	245	229	174	726
43.3K-13 .1KH	300	230	15	265	4	14	4	80	32	10	35.3	245	229	174	726
43.3K-22 .1KH	300	230	15	265	4	14	4	80	32	10	35.3	245	229	180	744
43.3K-23 .1KH	300	230	15	265	4	14	4	80	32	10	35.3	245	229	180	744
43.3K-32 .1KH	300	230	15	265	4	14	4	80	32	10	35.3	245	229	231	765
43.3K-33 .1KH	300	230	15	265	4	14	4	80	32	10	35.3	245	229	231	765
53.3K-22 .1KH	350	250	18	300	5	18	4	110	40	12	43.1	285	256	180	821
53.3K-23 .1KH	350	250	18	300	5	18	4	110	40	12	43.1	285	256	180	821
53.3K-32 .1KH	350	250	18	300	5	18	4	110	40	12	43.1	285	256	231	862
53.3K-33 .1KH	350	250	18	300	5	18	4	110	40	12	43.1	285	256	231	862
53.3K-42 .1KH	350	250	18	300	5	18	4	110	40	12	43.1	285	256	279	910
53.3K-43 .1KH	350	250	18	300	5	18	4	110	40	12	43.1	285	256	279	921
63.3K-32 .1KH	400	300	18	350	5	18	4	110	50	14	53.5	290	310	231	941
63.3K-33 .1KH	400	300	18	350	5	18	4	110	50	14	53.5	290	310	231	941
63.3K-42 .1KH	400	300	18	350	5	18	4	110	50	14	53.5	290	310	279	999
63.3K-43 .1KH	400	300	18	350	5	18	4	110	50	14	53.5	290	310	279	1000
63.3K-52 .1KH	400	300	18	350	5	18	4	110	50	14	53.5	290	310	309	1019
63.3K-53 .1KH	400	300	18	350	5	18	4	110	50	14	53.5	290	310	309	1029
73.3K-42 .1KH	450	350	22	400	5	18	5	140	60	16	64.2	315	351	231	1047
73.3K-43 .1KH	450	350	22	400	5	18	5	140	60	16	64.2	315	351	231	1047
73.3K-52 .1KH	450	350	22	400	5	18	5	140	60	16	64.2	315	351	279	1095
73.3K-53 .1KH	450	350	22	400	5	18	5	140	60	16	64.2	315	351	279	1106

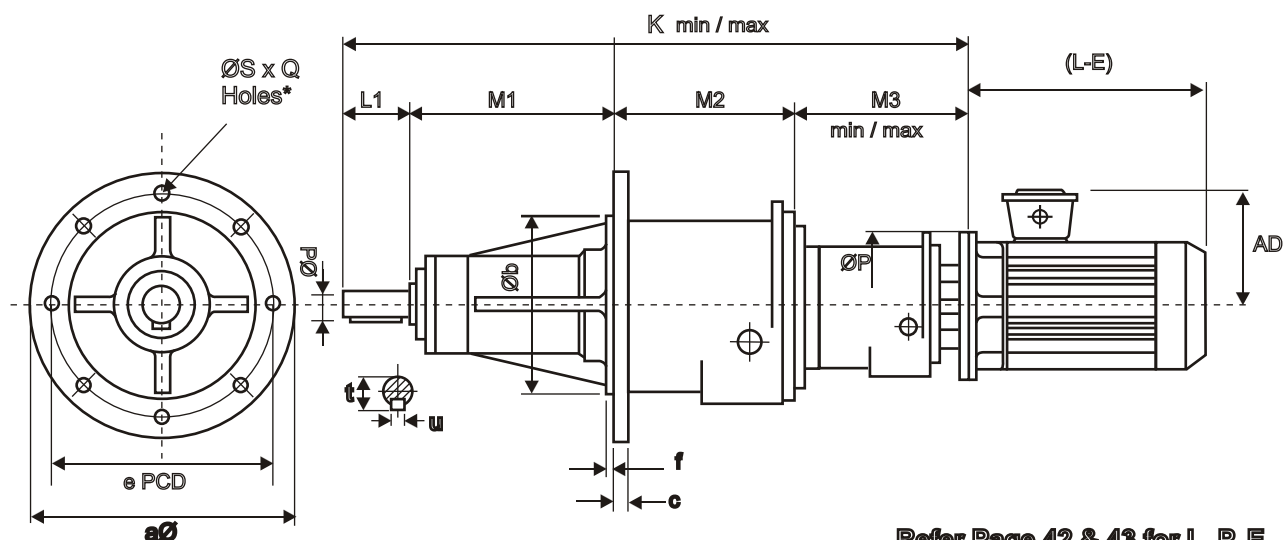
Principal Dimensions in mm.
These dimensions are for preliminary use only and are subject to our confirmation.
Tolerances on dia t_d h6
Tolerances on b_d - +/0.2mm



AGITATOR TYPE COUPLED GEARED MOTOR

5 and 6 Stage Reduction - Helical

ROTOFLEX®
Gear Drives



* holes equispaced

Refer Page 42 & 43 for L, P, E
and AD Sizes (approx)

Model	a	b	c	e	f	S	Q	L1	d	u	t	M1	M2	M3	K
73.3K+52.1KH	450	350	22	400	5	18	8	140	60	18	64.2	315	361	308 319	1124 1135
73.3K+53.1KH	450	350	22	400	5	18	8	140	60	18	64.2	315	361	308 319	1124 1135
73.3K+62.1KH	450	350	22	400	5	18	8	140	60	18	64.2	315	361	357 368	1173 1204
73.3K+63.1KH	450	350	22	400	5	18	8	140	60	18	64.2	315	361	357 368	1173 1204
83.3K+42.1KH	550	450	25	500	5	18	8	140	70	20	74.6	350	415	279 290	1184 1195
83.3K+43.1KH	550	450	25	500	5	18	8	140	70	20	74.6	350	415	279 290	1184 1195
83.3K+52.1KH	550	450	25	500	5	18	8	140	70	20	74.6	350	415	308 319	1213 1224
83.3K+53.1KH	550	450	25	500	5	18	8	140	70	20	74.6	350	415	308 319	1213 1224
83.3K+62.1KH	550	450	25	500	5	18	8	140	70	20	74.6	350	415	357 368	1262 1293
83.3K+63.1KH	550	450	25	500	5	18	8	140	70	20	74.6	350	415	357 368	1262 1293
83.3K+72.1KH	550	450	25	500	5	18	8	140	70	20	74.6	350	415	410 460	1315 1365
83.3K+73.1KH	550	450	25	500	5	18	8	140	70	20	74.6	350	415	410 460	1315 1365
93.3K+52.1KH 93.3K+53.1KH	660	550	28	600	6	22	8	180	90	25	95.3	400	473	308 319	1361 1372
93.3K+62.1KH 93.3K+63.1KH	660	550	28	600	6	22	8	180	90	25	95.3	400	473	357 368	1410 1441
93.3K+72.1KH 93.3K+73.1KH	660	550	28	600	6	22	8	180	90	25	95.3	400	473	410 460	1463 1513
103.3K+62.1KH 103.3K+63.1KH	660	550	28	600	6	22	8	210	100	28	106.1	450	509	357 368	1526 1557
103.3K+72.1KH 103.3K+73.1KH	660	550	28	600	6	22	8	210	100	28	106.1	450	509	410 460	1579 1629

Principal Dimensions in mm.
These dimensions are for preliminary use only and are subject to our confirmation.
Tolerances on dia 'd' h6
Tolerances on bØ - 0.1/-0.2mm



ROTOFLEX®
Gear Drives

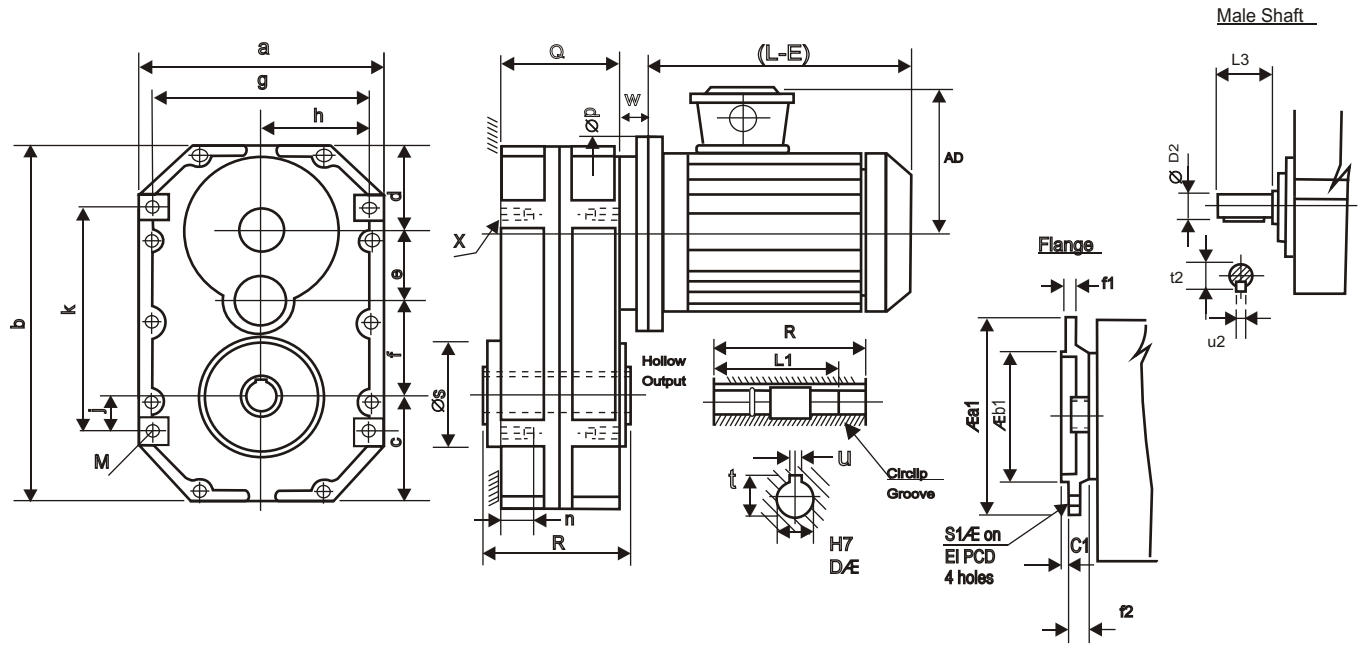


Principal Dimensions in mm.
These dimensions are for preliminary use only and are subject to our confirmation.
Tolerances on dia D1 is h6
Tolerances on b1E is -0.1 / -0.2



HOLLOW OUTPUT Helical Reduction Geared Motor - 2 Stage

ROTOFLEX®
Gear Drives



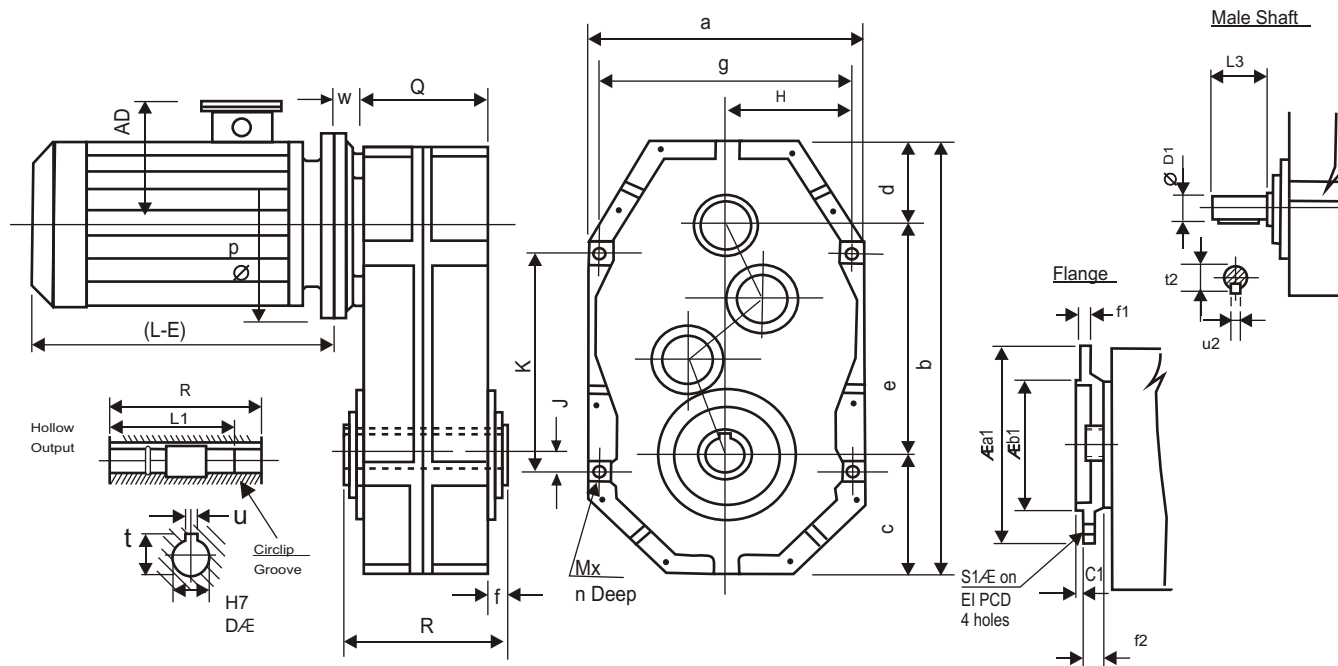
பெரு வெப்பநிலை, அழுத்தம் போன்ற
பிரதானமான காரணிகளால் இவ்வளவு தகவல் தரப்படவில்லை

PLEASE SEE DIMENSIONS
ONLY IN EXTRA BOOK

Gear Model	a	b	c	d	e	f	g	s	j	R	Q	M	u	D	W	Motor frame	U2
	a1	b1	C1	D2	E1	f1	h	f2	k	L3	s1	n	t	-	L1		T2
12.2KH	154	254	77	60.5	49.2	67.3	134	90	23	115	82	M8	⁶ 22.8	20	21	63	8
	140	95	3	25	120	6	67	27	146	38	8.5	16	-	-	95		27.9
22.2KH	186	306	93	67.4	61.5	84.1	166	110	30	144	106	M10	⁸ 28.3	25	26	71	10
	160	110	3	32	140	8	83	28	182	48	9	20	⁸ 31.3	28	124		35.3
32.2KH	214	362	107	80.3	73.8	100.9	190	120	34	162	124	M12	¹⁰ 33.3	30	27	⁸⁰ 90	12
	200	130	4	40	165	10	95	33	216	60	11	24	¹⁰ 38.3	35	142		43.1
42.2KH	246	427	123	100.2	86	117.8	220	140	37	182	136	M16	¹² 43.3	40	31	⁹⁰ 100	14
	255	180	5	50	235	12	110	36	255	75	13	32	¹⁴ 48.8	45	162		53.5
52.2KH	280	483	140	110.2	98.3	134.5	250	160	38	208	162	M20	¹⁴ 48.8	45	33	¹⁰⁰ 112	18
	255	180	5	60	235	12	125	39	280	90	13	40	¹⁴ 53.8	50	188		64.2
62.2KH	346	594	173	130	122.9	168.2	316	185	53	235	186	M20	¹⁴ 53.8	50	43 53	¹¹² 132	20
	300	230	6	70	265	15	158	39	353	100	13	40	¹⁶ 64.4	60	215		74.6
72.2KH	412	696	206	140.6	147.5	201.9	372	220	63	270	222	M24	²⁰ 74.9	70	43 70	¹³² 160	22
	350	250	6	80	300	16	186	39	408	120	15	48	²⁰ 79.9	75	245		85
82.2KH	475	790	237	140	177.1	235.5	435	240	75	300	245	M24	²⁰ 79.9	75	44	¹⁸⁰ 160	25
	450	350	6	90	400	20	217	40	466	135	18	48	²² 85.4	80	275		95
92.2KH	540	900	270	155	206.6	269.1	500	260	90	310	260	M24	²² 85.4	80	45	¹⁶⁰ 180	28
	550	450	6	100	500	20	250	40	540	150	18	48	²⁵ 95.4	90	285		106
102.2KH	600	999	300	160	236.1	302.8	560	280	93	370	310	M24	²⁵ 95.4	90	45	¹⁸⁰ 200	28
	660	550	6	110	600	20	280	40	600	160	22	48	²⁸ 106.4	100	325		116

HOLLOW OUTPUT Helical Reduction Geared Motor - 3 Stage

ROTOFLEX®
Gear Drives



For (L-E), AD, P,
Dimensions Refer Motor Page 42 & 43

FLANGE & MALE SHAFTS
ARE ONLY AT EXTRA COST

Gear Model	a	b	c	d	e	f	D	u	t	R	f2	Q	W	M	j	g	Motor frame
	a1	b1	c1			f1	D1	u2	t2	L1	S1	E1	L3	n	k	h	
13.2 KH	166	298	83	70	145	15	20	6	22.8	115	27	82	21	M8	11	150	63
	140	95	3			6	25	8	27.9	95	8.5	120	38	16	148	75	
23.2 KH	206	364	103	80	181	18	25	8	28.3	144	28	106	26	M10	13	188	71
	160	110	3			8	32	10	35.3	124	9	140	48	20	183	94	
33.2 KH	246	430	123	90	217	18	30	10	33.3	162	33	124	27	M12	19	226	80
	200	130	4			10	40	12	43.1	142	11	165	60	24	218	113	90
43.2 KH	288	502	144	115	243	22	40	12	43.3	182	36	136	31	M16	23	263	90
	255	180	5			12	50	14	53.5	162	13	235	75	30	250	131-5	100
53.2 KH	324	572	162	120	290	23	45	14	48.8	208	39	162	33	M20	32	294	100
	255	180	5			12	60	18	64.2	188	13	235	90	40	298	147	112
63.2 KH	394	704	197	145	362	23	50	14	53.8	235	39	186	43	M20	44	352	112
	300	230	6			15	70	20	74.6	215	13	265	100	40	366	176	132
73.2 KH	464	817	232	150	435	23	70	20	74.9	270	39	222	43	M20	56	420	112
	350	250	6			16	80	22	89	245	15	300	120	45	434	210	132
83.2 KH	560	958	280	163	515	27.5	75	20	79.9	300	40	244	44	M24	68	520	180
	450	350	6			20	90	25	95	275	18	400	135	45	506	260	160
93.2 KH	640	1095	320	182	593	25	80	22	85.4	310	40	260	45	M24	82	600	160
	550	450	6			20	100	28	106	285	18	500	150	45	584	300	180
103.2 KH	714	1210	357	182	671	25	90	25	95.4	350	40	300	49	M24	100	674	180
	660	550	6			20	110	28	116	325	22	600	160	45	660	337	200

Principal Dimensions in mm.

These dimensions are for preliminary use only and are subject to our confirmation.

Tolerances on dia D1 is h6

Tolerances on b1 is -0.1 / -0.2

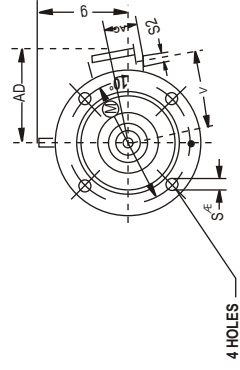
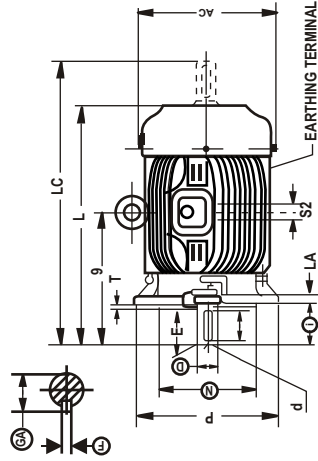
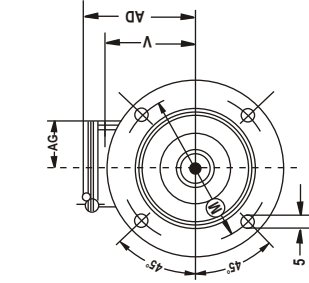
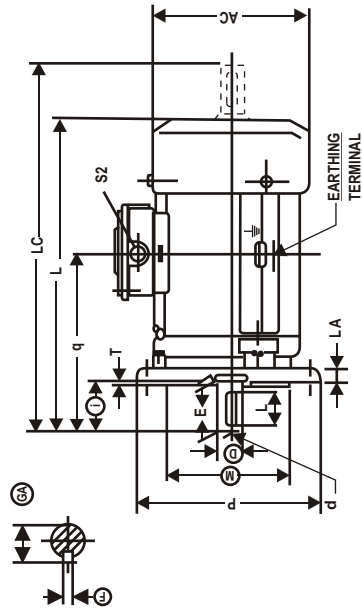
ROTOFLEX®
Gear Drives



Principal Dimensions in mm.
These dimensions are for preliminary use only and are subject to our confirmation.
Tolerances on dia D2 is h6
D1Ø is h6. b1Ø is -0.1/-0.2

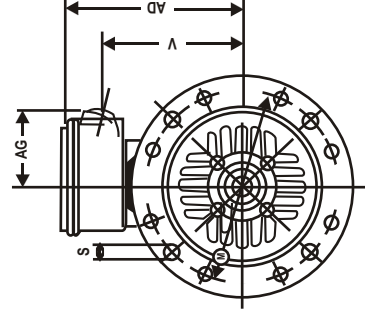
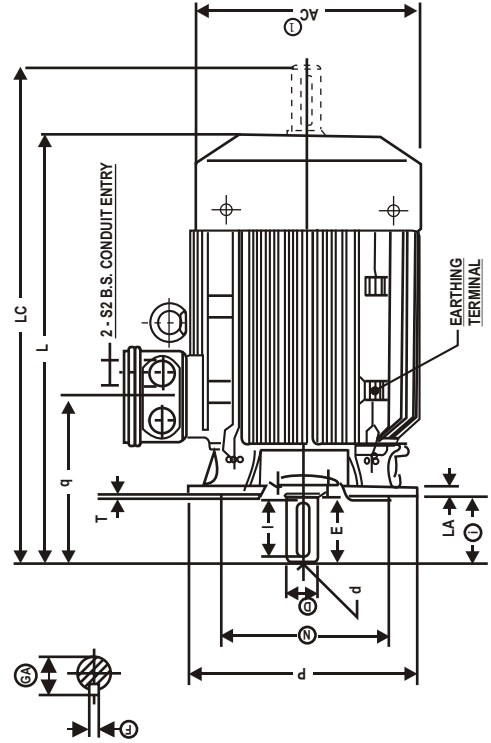
Dimensional Drawing for TEFC Flange Mounted Motors Frame 63-250 **(For preliminary use only and will change for different make motors)**

Frame size 63, 71 & 80



Frame size 90 to 160

Frame size 180 to 250



Dimensional Details - Flange Mounted Motors

ROTOFLEX®
Gear Drives

All Dimensions are in m.m. unless otherwise specified & these dimensions are for preliminary use only and will change for different make motors.

FIXING										GENERAL										TERMINAL BOX										SHAFT									
IEC Frame Size	P	(N)	(M)	(i)	S	T	LA	AD	AC	L	LC	g	V	q	AG	S2 B.S.C. Inch.	(D)	E	(F)	(GA)	I	D																	

63 M/4	140	95	115	23	10	3	9	114	124	225	260		86	122	40	3/4	11	23	4	12.5	18	M4
71 M/4, M/6	160	110	130	30	10	3.5	9	120	139	261	305		92	147	40	3/4	14	30	5	16	25	M5
80 M/4, S/4, S/6, M/6	200	130	165	40	12	3.5	10	127	157	287	344		99	140	40	3/4	19	40	6	21.5	35	M6
90S/4, S/6	200	130	165	50	12	3.5	10	154	181	302	374	①	117	156	52	3/4	24	50	8	27	45	M8
90L/4, L/6, M/6	200	130	165	50	12	3.5	10	154	181	327	399	①	117	169	52	3/4	24	50	8	27	45	M8
100L/4 L/6	250	180	215	60	15	4	11	169	202	366	448	135	131	193	56	1"	28	60	8	31	55	M10
112M/4, M/6	250	180	215	60	15	4	11	182	227	388	471	157	144	200	56	1"	28	60	8	31	55	M10
132S/4, S/6	300	230	265	80	15	4	12	206	267	449	552	176	166	239	63	1"	38	80	10	41	70	M12
132M/4, M/6	300	230	265	80	15	4	12	206	267	487	590	176	166	258	63	1"	38	80	10	41	70	M12
160L/4, L/6	350	250	300	110	19	5	13	226	324	585	721	206	186	345	63	1"	42	110	12	45	105	M16
180M/4, L/6	350	250	300	110	19	5	13	282	369	629	765	206	230	345	63	1 1/2	48	110	14	51.5	100	M16
200L/4 L/6	400	300	350	110	19	5	15	312	405	770	821		249	287	172	2"	55	110	16	59	100	M20
225S/4, M/4, M/6, M/8 * A	450	350	400	110	19	5	16	337	455	800	919		273	297	172	2"	55	110	16	59	100	M20
*B	450	350	400	140	19	5	16	337	455	830	949		273	327	172	2"	60	140	18	64	130	M20
250M/4 A*	550	450	500	140	19	5.0	16	415	495	915	1065		328	352	205	2"	60	140	18	64	130	M20
250M/4 B*																	65	140	18	69	130	M20
280 M/4	550	450	500	140	24	5	18	455	560	1030	-		-	-	-	2"	65	140	18	69	130	M20

Tolerance on Encircled Dimension.

Dimension	Tolerance		Specification
N	j 6		IS : 2223
M	+ 0.3	UPTO 265	
	+ 0.5	OVER 265	
i	+ 1	UPTO 85	
	+ 1.5	OVER 85	
D	j6	11,14,19,24,28ø	√/E
	k6	38,42,48ø	√/E
	m6	55ø/ø50ø/ø65ø	√/E
GA, F			IS : 2048
d (Centering)			IS : 2540

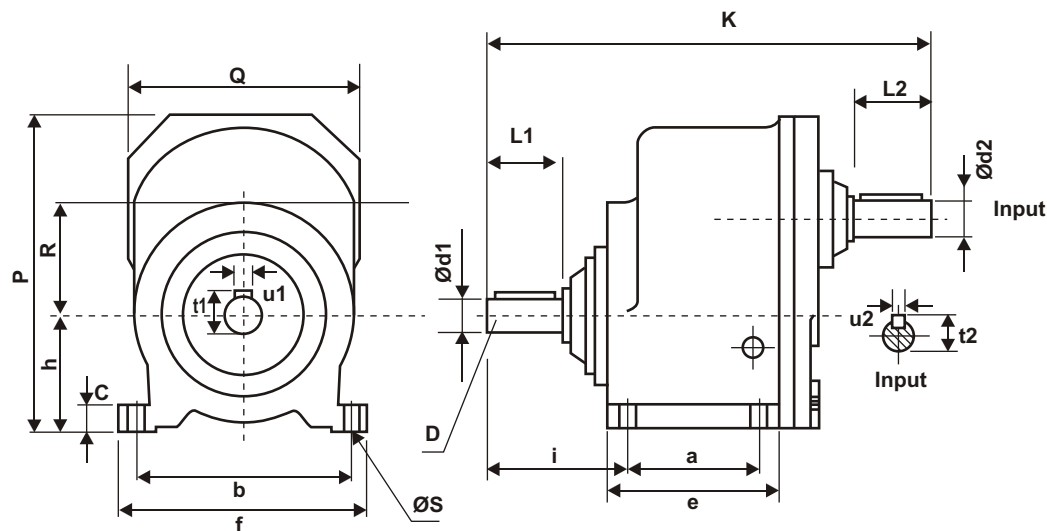
Note :

- Without Eyebolt
- A-2 Pole; B-4, 6 & 8 Pole
- 8 Nos. Fixing Holes for 225 S/M Frame
- Suitable for V1 V3 & B5 mounting as per IS 2253 : 1974,
- T- Box is rotatable in steps of 90°except 63,71 and 80 frame
- Where it can be rotated in steps of 180°
- Key/Key way fit : h9 / N9
- Double shaft extension can be provided with shaft dimension identical to D.E. shaft except for 225 S/M- 4,6,8 pole where Non Drive Shaft Extension will be limited to 55mm dia.

FOOT MOUNTED GEAR BOX - Input Shaft type

Single Stage Reduction - Helical

ROTOFLEX®
Gear Drives



Model	a	b	c	e	f	h	R	P	$\frac{S}{Q}$	i	K	L1	d1	u1	t1	L2	d2	u2	t2	D
11K-I	60	120	12	80	140	60	49	164	$\frac{8.5}{128}$	61	187	37	16	5	18	30	10	4	11.6	M4
21K-I	85	140	14	106	160	70	61.5	197	$\frac{8.5}{148}$	73	225	47	20	6	22.7	30	14	5	16	M6
31K-I	105	175	16	130	200	80	73.7	224	$\frac{11}{176}$	86	270	55	25	8	27.9	40	20	6	22.7	M8
41K-I	112	220	20	142	250	100	86	276	$\frac{14}{210}$	113	320	76	32	10	35.3	50	25	8	27.9	M12
51K-I	125	225	22	155	250	110	98.4	303	$\frac{17}{230}$	137	375	104	40	12	43.1	60	28	8	30.9	M16
61K-I	145	265	30	185	305	130	123	368	$\frac{21}{270}$	150	415	104	50	14	53.5	65	32	10	34.9	M16
71K-I	180	310	35	222	350	150	147.5	421	$\frac{21}{320}$	183	500	134	60	18	64.2	80	38	10	40.9	M16

Principal Dimensions in mm.

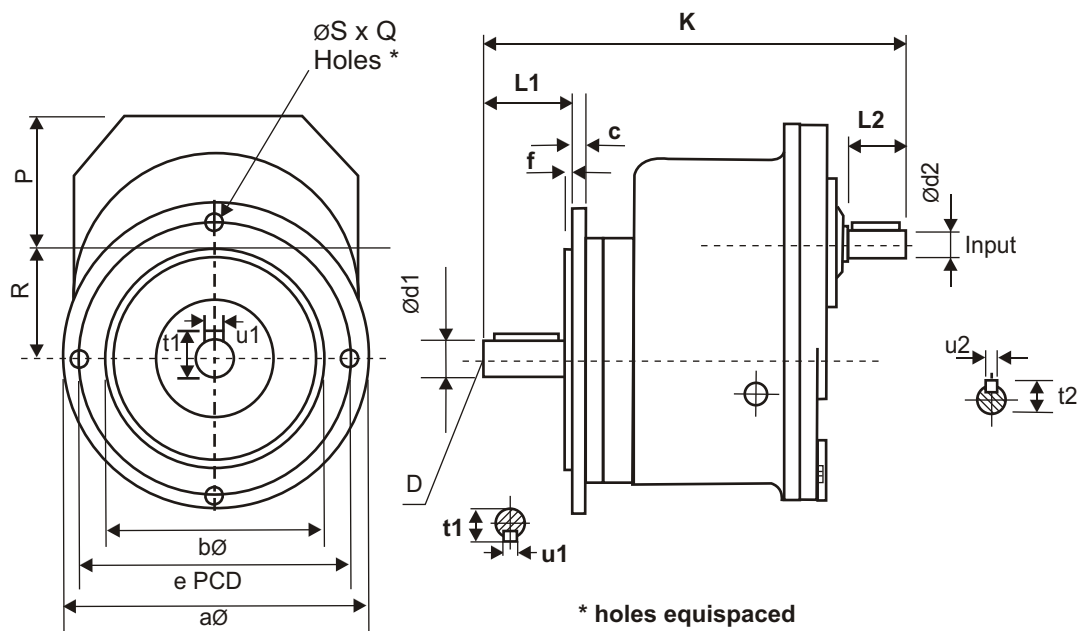
These dimensions are for preliminary use only and are subject to our confirmation.

Tolerances on dia d1 & d2 are h6

Tolerances on h - +/-0.5mm

FLANGE MOUNTED GEAR BOX - Input Shaft type Single Stage Reduction

ROTOFLEX®
Gear Drives



Model	a	b	c	e	f	K	R	P	S	Q	L1	d1	U1	t1	L2	d2	U2	t2	D
11.1K-I	140	95	6	115	3	187	49	55	8.5	4	37	16	5	18	30	10	4	11.6	M4
21.1K-I	160	110	8	140	3	225	61.5	65	9	4	47	20	6	22.7	30	14	5	16	M6
31.1K-I	200	130	10	165	4	270	73.7	70	11	4	55	25	8	27.9	40	20	6	22.7	M8
41.1K-I	255	180	12	235	5	320	86	90	13	4	76	32	10	35.3	50	25	8	27.9	M12
51.1K-I	255	180	12	235	5	375	98.4	95	13	4	104	40	12	43.1	60	28	8	30.9	M16
61.1K-I	300	230	15	265	6	415	123	115	13	4	104	50	14	53.5	65	32	10	34.9	M16
71.1K-I	350	250	16	300	6	500	147.5	118	18	4	134	60	18	64.2	80	38	10	40.9	M16

Principal Dimensions in mm.

These dimensions are for preliminary use only and are subject to our confirmation.

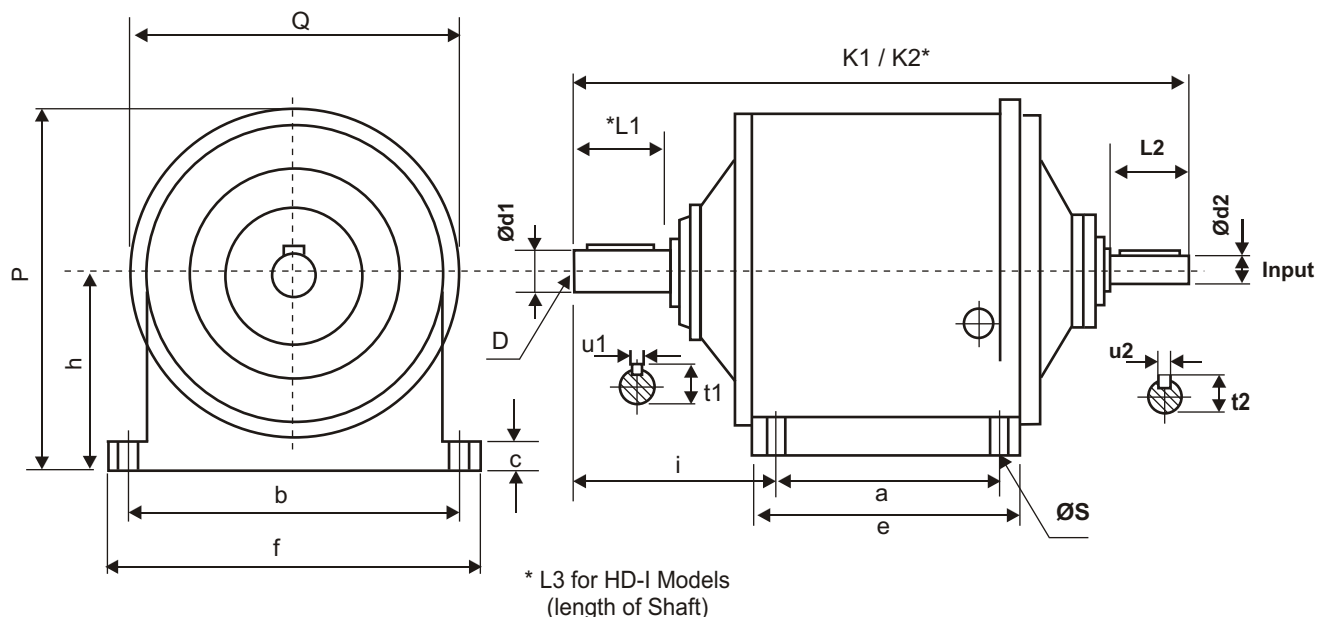
Tolerances on dia d_1 & d_2 are h6

Tolerances on $b\varnothing$ - ± 0.2 mm

FOOT MOUNTED GEAR BOX - Input Shaft type 2 and 3 Stage Reduction

ROTOFLEX®
Gear Drives

*K1 for 13K-I to 123K-I Models
K2 for 12K-I to 122K-I Models



Model	A	b	c	e	f	h	P	$\frac{S}{Q}$	i	K1 K2	L1	d1	U1	t1	L2	d2	U2	t2	D	L3
12K/13K-I	80	130	14	100	145	70	140	$\frac{8.5}{140}$	76	242 229	37	16	5	18	30	10	4	11.6	M4	-
22K/23K-I 22HD-I	95	160	16	121	180	80	160	$\frac{9}{160}$	95	275 264	47	20	6	22.7	30	14	5	16	M6	35
32K/33K-I 32HD-I	125	200	20	151	230	100	195	$\frac{11.5}{190}$	117	350 331	55	25	8	27.9	40	20	6	22.7	M8	42
42K/43K-I 42HD-I	140	230	25	170	260	120	235	$\frac{14}{230}$	149	398 378	76	32	10	35.3	50	25	8	27.9	M12	62
52K/53K-I 52HD-I	170	260	27	200	300	140	265	$\frac{17}{250}$	170	481 450	104	40	12	43.1	60	28	8	30.9	M16	86
62K/63K-I 62HD-I	200	300	40	235	350	170	320	$\frac{22}{300}$	187	547 509	104	50	14	53.5	65	32	10	34.9	M16	86
72K/73K-I 72HD-I	220	350	40	270	410	200	375	$\frac{22}{350}$	235	638 601	134	60	18	64.2	80	38	10	40.9	M16	115
82K/83K-I 82HD-I	280	420	50	340	475	240	430	$\frac{25}{380}$	245	740 682	134	70	20	74.6	90	45	14	48.5	M20	115
92K/93K-I 92HD-I	300	475	50	380	530	260	485	$\frac{28}{450}$	300	860 795	174	90	25	95.3	110	55	16	59.2	M24	130
102K/103K-I	340	540	60	415	600	290	540	$\frac{28}{500}$	340	979 905	204	100	28	106.1	130	65	18	69.3	M24	-
112K-I 113K-I	440	600	60	518	680	320	620	$\frac{32}{550}$	429	1260 1185	240	120	32	127	160	80	22	85	M24	-
122K-I 123K-I	500	680	70	575	760	380	720	$\frac{32}{650}$	427	1360 1285	240	150	36	158	180	90	25	95	M30	-

Principal Dimensions in mm.

These dimensions are for preliminary use only and are subject to our confirmation.

Tolerances on dia d1 & d2 is h6

Tolerances on h : +/-0.5mm

ROTOFLEX®
Gear Drives

Technical drawing of the HD-I model showing front and side views with dimensions.

Front View (Left):

- ØS x Q Holes: 8 holes arranged in a circle.
- bØ: Inner diameter of the main body.
- e PCD: Pitch Circle Diameter of the 8 holes.
- aØ: Outer diameter of the main body.
- u1: Distance from the center to the first hole.
- t1: Thickness of the main body.

Side View (Right):

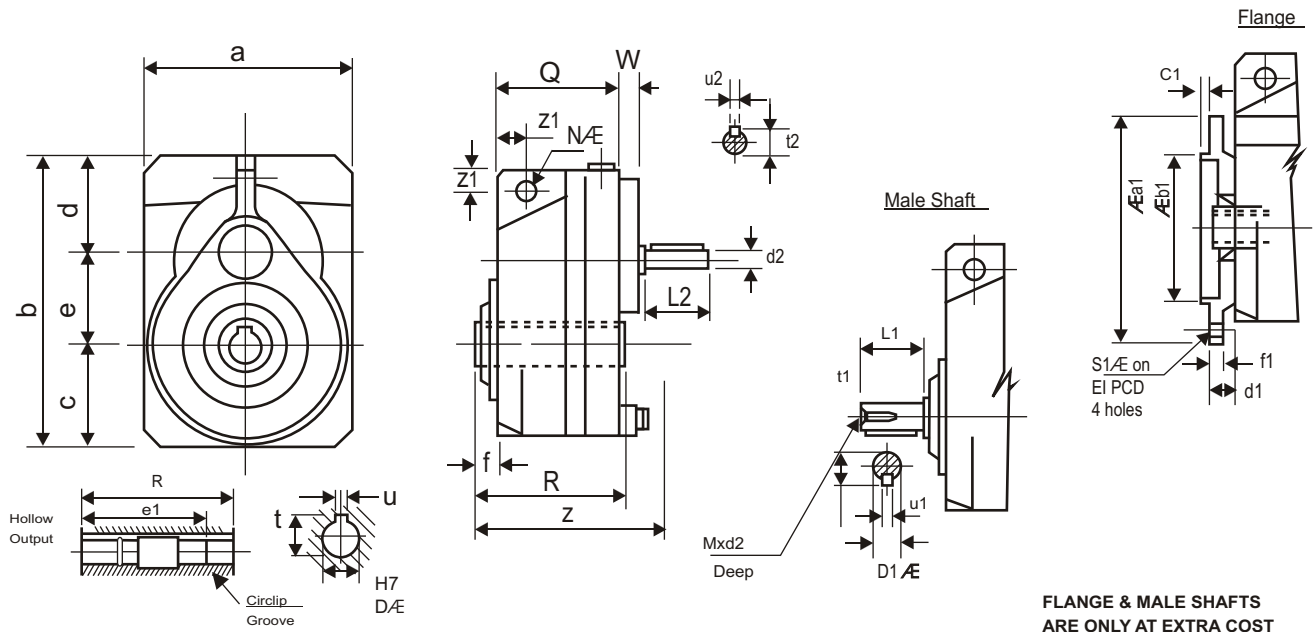
- K1 / K2 *: Overall length of the unit.
- *L1: Distance from the front flange to the input flange.
- c: Thickness of the front flange.
- Ød1: Diameter of the input shaft.
- D: Distance from the front flange to the input shaft.
- t1: Thickness of the front flange.
- u1: Distance from the center to the input shaft.
- f: Distance from the front flange to the input shaft.
- L2: Distance from the input flange to the output flange.
- Ød2: Diameter of the output shaft.
- Input: Input shaft connection.
- u2: Distance from the center to the output shaft.
- t2: Thickness of the output flange.

* L3 for HD-I Models (length of Shaft)

Principal Dimensions in mm.
These dimensions are for preliminary use only and are subject to our confirmation.
Tolerances on dia d1 & d2 is h6
Tolerances on bØ - -0.1/-0.2mm

HOLLOW OUTPUT Helical Reduction Gear Box Input Shaft Type 1 Stage

ROTOFLEX®
Gear Drives



FLANGE & MALE SHAFTS
ARE ONLY AT EXTRA COST

Gear Model	a	b	c	d	e	f	D	u	t	R	Z	Q	W	M	N/A	D2	U2
	a1	b1	c1	d1	e1	f1	D1	u1	t1	L1	S1	E1		d2	z1	L2	t2
11.2 K -I	136	177.6	68	50	59.6	14	20	6	22.8	94	107	79	10	M8	9	10	4
	140	95	3	27	80	6	25	8	27.9	38	8.5	120		20	15	30	11.6
21.2 K -I	162	215.5	81	60	74.5	15	28	8	31.3	119	127	102	13	M12	12	14	5
	160	110	3	28	100	8	32	10	35.3	48	9	140		25	15	30	16
31.2 K -I	190	253.9	95	72	86.9	18	35	10	38.3	138	145	118	16	M16	15	20	6
	200	130	4	33	120	10	40	12	43.1	60	11	165		35	18	40	22.7
41.2 K -I	222	298.2	111	83	104.2	22	45	14	48.8	156	164	132	14	M16	15	25	8
	255	180	5	36	135	12	50	14	53.5	75	13	235		35	18	50	27.9
51.2 K -I	258	347.6	129	97	121.6	23	50	14	53.8	184	205	159	16	M16	20	28	8
	255	180	5	39	160	12	60	18	64.2	90	13	235		35	22	60	30.9
61.2 K -I	306	414.9	153	113	148.9	23	60	18	64.4	208	223	182	18	M20	20	32	10
	300	230	6	39	180	15	70	20	74.6	100	13	265		40	22	65	34.9
71.2 K -I	360	491.8	180	138	173.8	23	75	20	79.9	243	269	217	21	M20	20	38	10
	350	250	6	39	215	16	80	22	85.4	120	15	300		40	22	80	40.9
81.2 K -I	426	594.5	213	173	208.5	27.5	80	22	85.4	270	291	239	24	M24	25	45	14
	450	350	6	40	245	20	90	25	95	135	18	400		48	30	90	48.5
91.2 K -I	490	691.3	245	203	243.3	25	90	25	95.5	280	305	252	28	M24	25	55	16
	550	450	6	40	255	20	100	28	106	150	18	500		48	30	110	59.2
101.2 K -I	556	789	278	233	278	25	100	28	106.4	320	350	294	31	M24	25	65	18
	660	550	6	40	295	20	110	28	116	160	22	600		48	30	130	69.3

Principal Dimensions in mm.

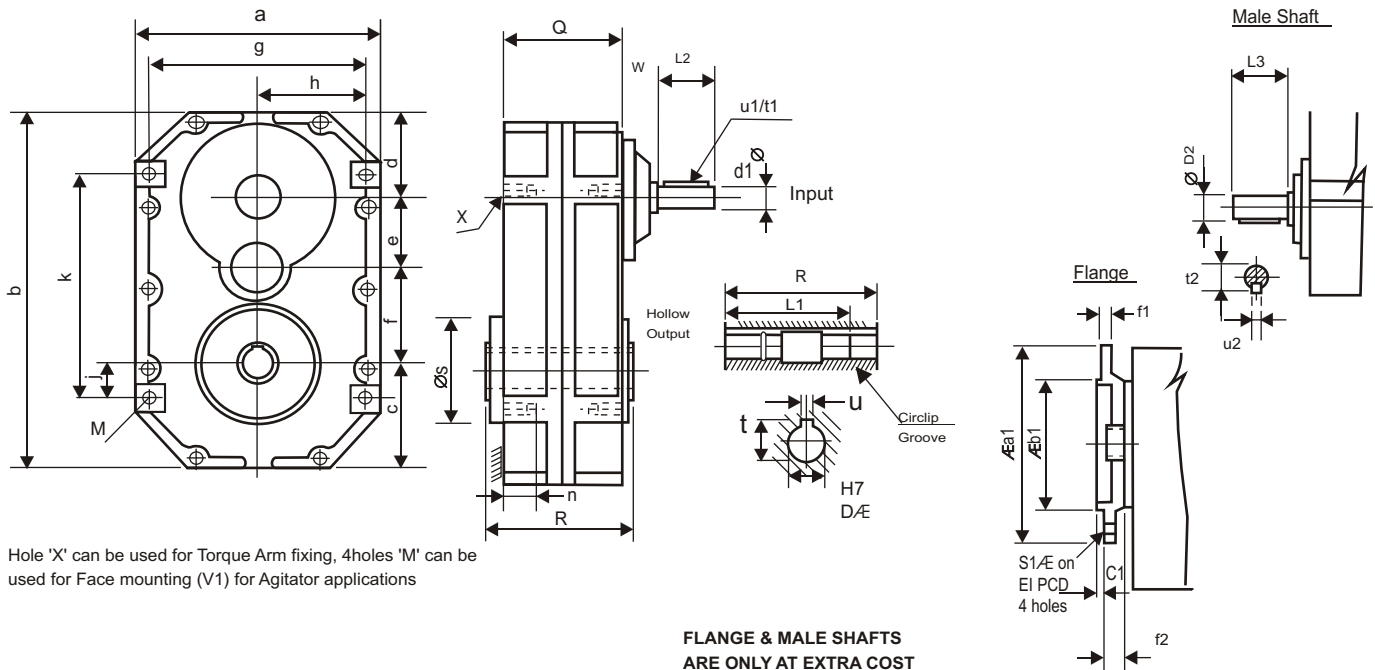
These dimensions are for preliminary use only and are subject to our confirmation.

Tolerances on D/AE is H7, D1/AE is h6

Tolerances on b1/AE is -0.1/-0.2

HOLLOW OUTPUT Helical Reduction Gearbox - input shaft - 2 Stage

ROTOFLEX®
Gear Drives

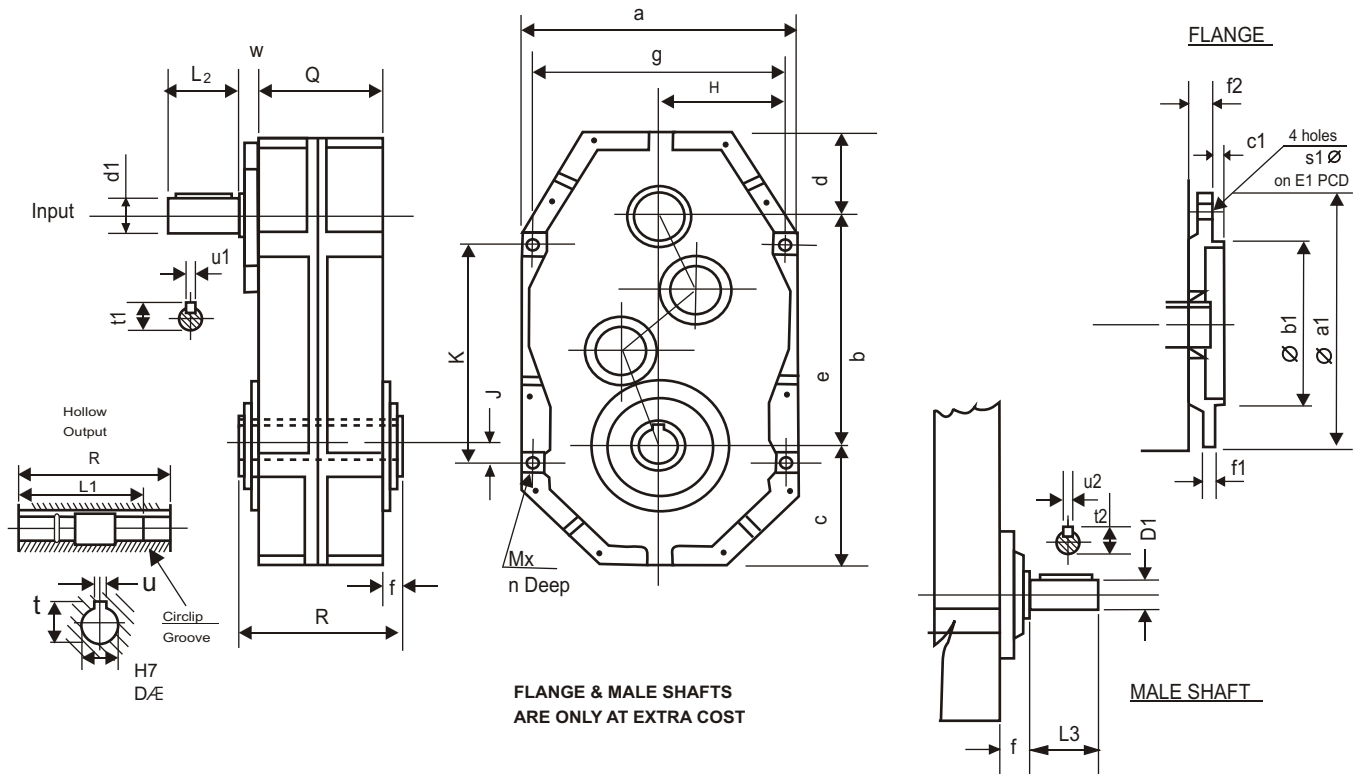


Gear Model	a	b	c	d	e	f	g	S	j	R	Q	M	u	D	W	E1	C1	D2
	a1	b1	d1	L2	u1	t1	h	s1	k	u2	t2	n	t		L1	f2	L3	f1
12.2 K-I	154	254	77	60.5	49.2	67.3	134	90	23	115	82	M8	6	20	11	120	3	25
	140	95	10	30	4	11.6	67	8.5	146	8	27.9	16	22.8		95	27	38	6
22.2 K-I	186	306	93	67.4	61.5	84.1	166	110	30	144	106	M10	8 28.3	25	6	140	3	32
	160	110	14	30	5	16	83	9	182	10	35.3	20	8 31.3	28	124	28	48	8
32.2 K-I	214	362	107	80.3	73.8	100.9	190	120	34	162	124	M12	10 33.3	30	3	165	4	40
	200	130	20	40	6	22.7	95	11	216	12	43.1	24	10 38.3	35	142	33	60	10
42.2 K-I	246	427	123	100.2	86	117.8	220	140	37	182	136	M16	12 43.3	40	6	235	5	50
	255	180	25	50	8	27.9	110	13	255	14	53.5	32	14 48.8	45	162	36	75	12
52.2 K-I	280	483	140	110.2	98.3	134.5	250	160	38	208	162	M20	14 48.8	45	20	235	5	60
	255	180	28	60	8	30.9	125	13	280	18	64.2	40	14 53.8	50	188	39	90	12
62.2K-I	346	594	173	130	122.9	168.2	316	185	53	235	186	M20	14 53.8	50	14	265	6	70
	300	230	32	65	10	34.9	158	13	353	20	74.6	40	16 64.4	60	215	39	100	15
72.2 K-I	412	696	206	140.6	147.5	201.9	372	220	63	270	222	M24	20 74.9	70	22	300	6	80
	350	250	38	80	10	40.9	186	15	408	22	85	48	20 79.9	75	245	39	120	16
82.2 K-I	475	790	237	140	177.1	235.5	435	240	75	300	245	M24	20 79.9	75	18	400	6	90
	450	350	45	90	14	48.5	217	18	466	25	95	48	22 85.4	80	275	40	135	20
92.2 K-I	540	900	270	155	206.6	269.1	500	260	90	310	260	M24	22 85.4	80	20	500	6	100
	550	450	55	110	16	59.2	250	18	540	28	106	48	25 95.4	90	285	40	150	20
102.2 K-I	600	999	300	160	236.1	302.8	560	280	93	370	310	M24	25 95.4	90	25	600	6	110
	660	550	65	130	18	69.3	280	22	600	28	116	48	28 106.4	100	325	40	160	20

Principal Dimensions in mm.
These dimensions are for preliminary use only and are subject to our confirmation.
Tolerances on dia D2 & d1 is h6
Tolerances on b1 $\pm$ 0.1/-0.2

HOLLOW OUTPUT Helical Reduction Gear Box - 3 Stage

ROTOFLEX[®]
Gear Drives



Gear Model	a	b	c	d	e	D	u	t	R	Ø	Q	W	M	j	g	u1	L2
	a1	b1	c1	f	f1	D1	u2	t2	L1	S1	E1	L3	n	k	h	t1	d1/AE
13.2 K -I	166	298	83	70	145	20	6	22.8	115	27	82	11	M8	11	150	4	30
	140	95	3	15	6	25	8	27.9	95	8.5	120	38	16	148	75	11.6	10
23.2 K -I	206	364	103	80	181	25	8	28.3	144	28	106	6	M10	13	188	5	30
	160	110	3	18	8	32	10	35.3	124	9	140	48	20	183	94	16	14
33.2 K -I	246	430	123	90	217	30	10	33.3	162	33	124	3	M12	19	226	6	40
	200	130	4	18	10	40	12	43.1	142	11	165	60	24	218	113	22.7	20
43.2 K -I	288	502	144	115	243	40	12	43.3	182	36	136	6	M16	23	263	8	50
	255	180	5	22	12	50	14	53.5	162	13	235	75	30	250	131.5	27.9	25
53.2 K -I	324	572	162	120	290	45	14	48.8	208	39	162	20	M20	32	294	8	60
	255	180	5	23	12	60	18	64.2	188	13	235	90	40	298	147	30.9	28
63.2 K -I	394	704	197	145	362	50	14	53.8	235	39	186	14	M20	44	352	10	65
	300	230	6	23	15	70	20	74.6	215	13	265	100	40	366	176	34.9	32
73.2 K -I	464	817	232	150	435	70	20	74.9	270	39	222	22	M24	56	420	10	80
	350	250	6	23	16	80	22	89	245	15	300	120	45	434	210	40.9	38
83.2 K -I	560	958	280	163	515	75	20	79.9	300	40	244	18	M24	68	520	14	90
	450	350	6	27.5	20	90	25	95	275	18	400	135	45	506	260	48.5	45
93.2 K -I	640	1095	320	182	593	80	22	85.4	310	40	260	20	M24	82	600	16	110
	550	450	6	25	20	100	28	106	285	18	500	150	45	584	300	59.2	55
103.2 K -I	714	1210	357	182	671	90	25	95.4	350	40	300	25	M24	100	674	18	130
	660	550	6	25	20	110	28	116	325	22	600	160	45	660	337	69.3	65

Principal Dimensions in mm.

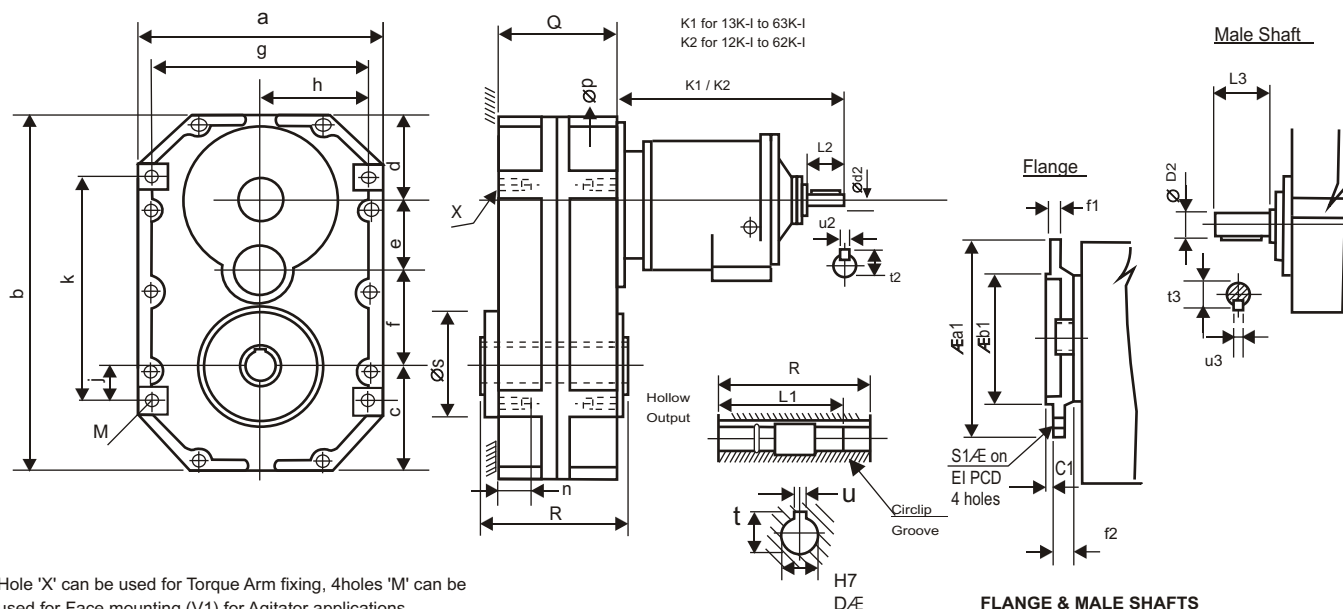
These dimensions are for preliminary use only and are subject to our confirmation.

Tolerances on dia D1, d1 are h6

Tolerances on b1 /AE is - 0.1/-0.2

HOLLOW OUTPUT Helical Reduction Gearbox - Input Shaft Type 4/5 Stage

ROTOFLEX®
Gear Drives



Hole 'X' can be used for Torque Arm fixing, 4holes 'M' can be used for Face mounting (V1) for Agitator applications

**FLANGE & MALE SHAFTS
ARE ONLY AT EXTRA COST**

Gear Model	a	b	c	d	e	f	g	S	j	R	Q	M	u	D	K ₁	E ₁	D ₂
	a ₁	b ₁	d ₂	L ₂	u ₂	t ₂	h	S ₁	K	u ₃	t ₃	n	t	D	K ₂	f ₂	L ₃
22.2K+12.1/13.1K -I	186	306	93	67.4	61.5	84.1	166	110	30	144	106	M10	8 28.3	25	205	140	32
	160	110	10	30	4	11.6	83	9	182	10	35.3	20	8 31.3	28	192	28	48
32.2K+12.1/13.1K -I	214	362	107	80.3	73.8	100.9	190	120	34	162	124	M12	10 33.3	30	205	165	40
	200	130	10	30	4	11.6	95	11	216	12	43.1	24	10 38.3	35	192	33	60
32.2K+22.1/23.1K -I	214	362	107	80.3	73.8	100.9	190	120	34	162	124	M12	10 33.3	30	228	165	40
	200	130	14	30	5	16	95	11	216	12	43.1	24	10 38.3	35	217	33	60
42.2K+12.1/13.1K -I	246	427	123	100.2	86	117.8	220	140	37	182	136	M16	12 43.3	40	205	235	50
	255	180	10	30	4	11.6	110	13	255	14	53.5	32	14 48.8	45	192	36	75
42.2K+22.1/23.1K -I	246	427	123	100.2	86	117.8	220	140	37	182	136	M16	12 43.3	40	228	235	50
	255	180	14	30	5	16	110	13	255	14	53.5	32	14 48.8	45	217	36	75
52.2K+12.1/13.1K -I	280	483	140	110.2	98.3	134.5	250	160	38	208	162	M20	14 48.8	45	228	235	60
	255	180	14	30	5	16	125	13	280	18	64.2	40	14 53.8	50	217	39	90
52.2K+32.1/33.1K -I	280	483	140	110.2	98.3	134.5	250	160	38	208	162	M20	14 48.8	45	295	235	60
	255	180	20	40	6	22.7	125	13	280	18	64.2	40	14 53.8	50	276	39	90
62.2K+22.1/23.1K -I	346	594	173	130	122.9	168.2	316	185	53	235	186	M20	14 53.8	50	228	265	70
	300	230	14	30	5	16	158	13	353	20	74.2	40	16 64.4	60	217	39	100
62.2K+32.1/33.1K -I	346	594	173	130	122.9	168.2	316	185	53	235	186	M20	14 53.8	50	295	265	70
	300	230	20	40	6	22.7	158	13	353	20	74.2	40	16 64.4	60	276	39	100
72.2K+32.1/33.1K -I	412	696	206	140.6	147.5	201.9	372	220	63	270	222	M24	20 74.9	70	295	300	80
	350	250	20	40	6	22.7	186	15	408	22	85	48	20 79.9	75	276	39	120
82.2K+42.1/43.1K -I	475	790	237	140	177.1	235.5	435	240	75	300	245	M24	20 79.9	75	322	400	90
	450	350	25	50	8	27.9	217	18	466	25	95	48	22 85.4	80	302	40	135
92.2K+42.1/43.1K -I	540	900	270	155	206	269.1	500	260	90	310	260	M24	22 85.4	80	322	500	100
	550	450	25	50	8	27.9	250	18	540	28	106	48	25 95.4	90	302	40	150
92.2K+52.1/53.1K -I	540	900	270	155	206	269.1	500	260	90	310	260	M24	22 85.4	80	377	500	100
	550	450	28	60	8	30.9	250	18	540	28	106	48	25 95.4	90	346	40	150
102.2K+52.1/53.1K -I	600	999	300	160	236.1	302.8	560	280	93	370	310	M24	25 95.4	90	377	600	110
	660	550	28	60	8	30.9	280	22	600	28	116	48	28 106.4	100	346	40	160
102.2K+62.1/63.1K -I	600	999	300	160	236.1	302.8	560	280	93	370	310	M24	25 95.4	90	443	600	110
	660	550	32	65	10	34.9	280	22	600	28	116	48	28 106.4	100	405	50	160

Principal Dimensions in mm.

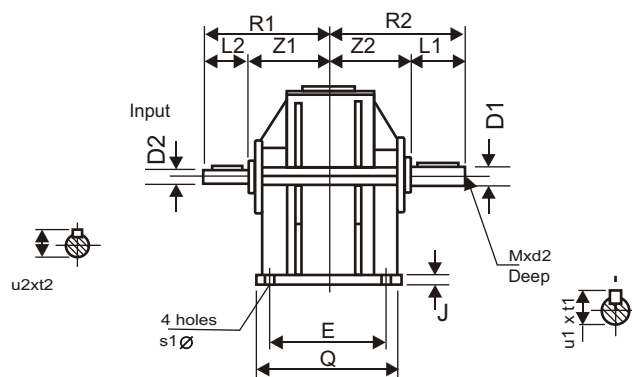
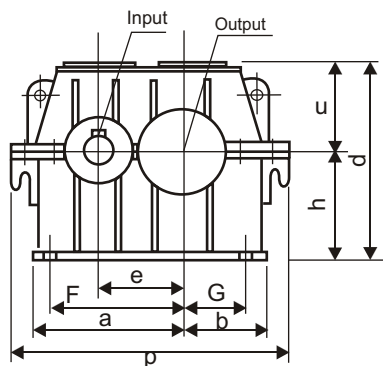
These dimensions are for preliminary use only and are subject to our confirmation.

Tolerances on dia D2 & d2 are h6

b1ø is -0.1/-0.2

Single Reduction - Parallel Shafts - Principal Dimensions (mm)

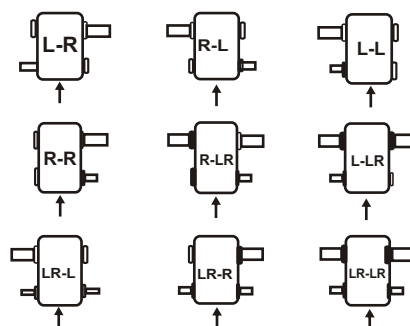
ROTOFLEX®
Gear Drives



Types of Gear Drives

Parallel shaft-helical

PLAN VIEWS



Definition of shaft extensions

R-LR, L-LR, LR-L LR-R,
LR-LR are only at extra cost.

Gear Model	a	b	c	d	e	h	F	G	P	Q	E	J	Mxd2
	D2	u2	t2	D1	u1	t1	L2	L1	Z1	Z2	S1	R1	R2
51.4	220	130	140	280	121.6	140	200	110	410	206	170	16	M16x 35
	28	8	30.9	60	18	64.2	60	90	103	103	17	163	193
61.4	260	155	160	320	148.9	160	240	135	475	224	190	16	M20x 40
	32	10	34.9	70	20	74.6	65	100	112	112	17	177	212
71.4	310	185	180	360	173.8	180	280	160	565	270	230	18	M20x 40
	38	10	40.9	80	22	85.4	80	120	135	135	21	215	255
81.4	380	220	225	450	208.5	225	355	185	670	292	250	18	M24x 48
	45	14	48.5	90	25	95	90	135	146	146	21	236	281
91.4	450	250	250	500	243.3	250	420	220	780	306	255	20	M24x 48
	55	16	59.2	100	28	106	110	150	153	153	25	263	303
101.4	510	280	280	560	278	280	480	250	870	350	300	22	M24x 48
	65	18	69.3	110	28	116	130	160	175	175	25	305	335

Principal Dimensions in mm.

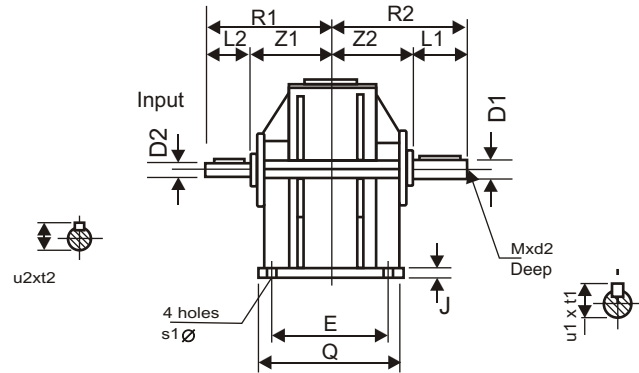
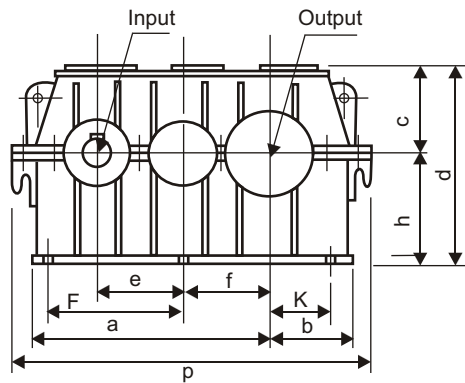
These dimensions are for preliminary use only and are subject to our confirmation.

Tolerances on dia D1 & D2 are h6

Tolerance on h is ± 0.5

Double Reduction - Parallel Shafts - Principal Dimensions (mm)

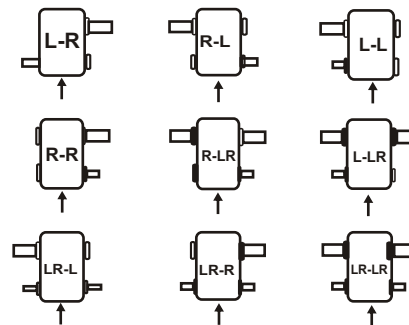
ROTOFLEX®
Gear Drives



Types of Gear Drives

Parallel shaft-helical

PLAN VIEWS



Definition of shaft extensions

R-LR, L-LR, LR-L LR-R,
LR-LR are only at extra cost.

Gear Model	a	b	c	d	e	f	h	F	Mxd2	P	Q	E	J	K
	D2	u2	t2	D1	u1	t1	L2	L1	Z1	Z2	S1	R1	R2	
52.4	340	140	140	280	98.3	134.5	140	185	M16x35	540	206	170	16	120
	28	8	30.9	60	18	64.2	60	90	103	103	17	163	193	
62.4	430	160	160	320	122.9	168.2	160	240	M20x40	650	224	190	16	140
	32	10	34.9	70	20	74.6	65	100	112	112	17	177	212	
72.4	520	180	180	360	147.5	201.9	180	295	M20x40	770	270	230	18	155
	38	10	40.9	80	22	85.4	80	120	135	135	21	215	255	
82.4	570	225	225	450	177.1	235.5	225	310	M24x48	865	292	250	18	200
	45	14	48.5	90	25	95	90	135	146	146	21	236	281	
92.4	620	250	250	500	206.6	269.1	250	320	M24x48	950	306	255	20	220
	55	16	59.2	100	28	106	110	150	153	153	25	263	303	
102.4	720	280	280	560	236.1	302.8	280	390	M24x48	1080	350	300	22	250
	65	18	69.3	110	28	116	130	160	175	175	25	305	335	

Principal Dimensions in mm.

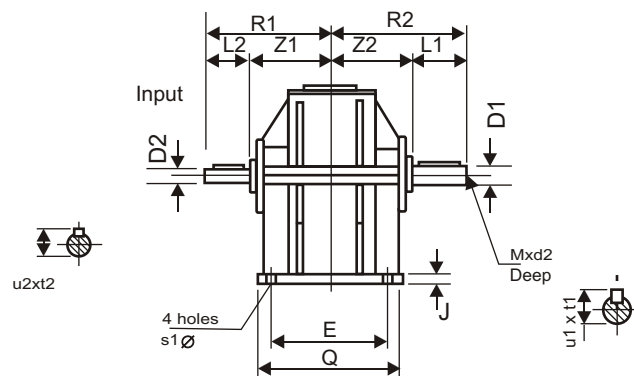
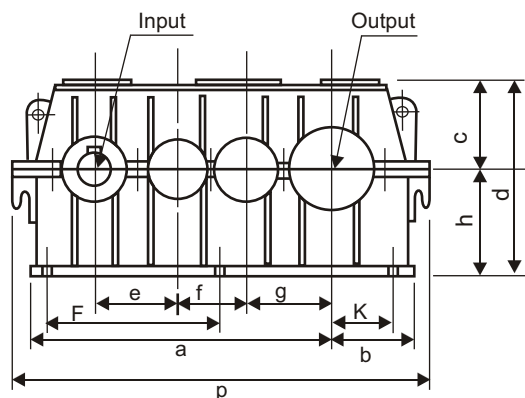
These dimensions are for preliminary use only and are subject to our confirmation.

Tolerances on dia D1 & D2 are h6

Tolerances on h is ± 0.5

Triple Reduction - Parallel Shafts - Principal Dimensions (mm)

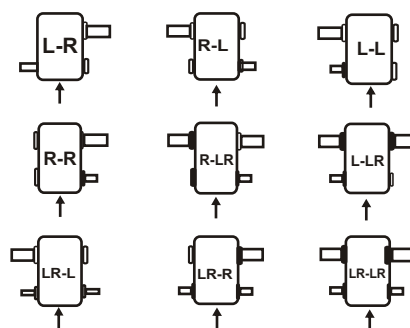
ROTOFLEX®
Gear Drives



Types of Gear Drives

Parallel shaft-helical

PLAN VIEWS



Definition of shaft extensions

R-LR, L-LR, LR-L LR-R,
LR-LR are only at extra cost.

Gear Model	a	b	c	d	e	f	g	h	F		P	Q	E	J	K
	D2	u2	t2	D1	u1	t1	L2	L1	Z1	Z2	R1	R2	S1	Mxd2	
53.4	457	140	140	280	98.3	116.9	134.6	140	280		657	206	170	16	120
	28	8	30.9	60	18	64.2	60	90	103	103	163	193	17	M16x 35	
63.4	576	160	160	320	122.9	146.2	168.2	160	345		796	224	190	16	140
	32	10	34.9	70	20	74.6	65	100	112	112	177	212	17	M20x 40	
73.4	695	180	180	360	147.5	175.5	201.9	180	410		945	270	230	18	155
	38	10	40.9	80	22	85.4	80	120	135	135	215	255	21	M20x 40	
83.4	784	225	225	450	177.1	213.8	235.5	225	480		1079	292	250	18	200
	45	14	48.5	90	25	95	90	135	146	146	236	281	21	M24x 48	
93.4	864	250	250	500	206.6	244.3	269.2	250	530		1194	306	255	20	220
	55	16	59.2	100	28	106	110	150	153	153	263	303	25	M24x 48	
103.4	995	280	280	560	236.1	274.8	302.8	280	610		1355	350	300	22	250
	65	18	69.3	110	28	116	130	160	175	175	305	335	25	M24x 48	

Principal Dimensions in mm.

These dimensions are for preliminary use only and are subject to our confirmation.

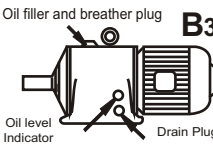
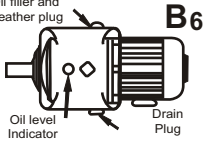
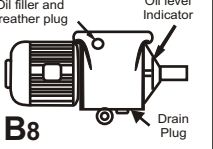
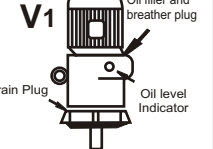
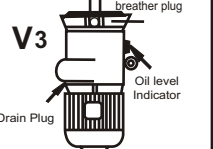
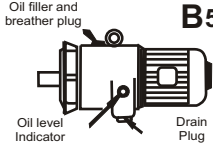
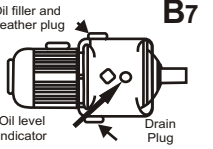
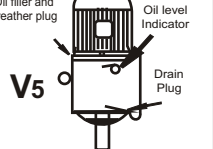
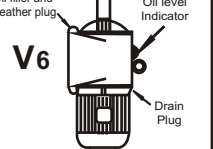
Tolerances on dia D1 & D2 are h6

Tolerances on h is ± 0.5

Quantity of oil required for first fill of gear boxes and geared Motors.

It is very important to fill the oil after fixing the gear box/geared Motor on the equipment. Fill up to the oil level indicator. Since oil quantity changes for different mountings, consult for oil level/quantity for inclined mountings other than mentioned below. Take utmost care while pouring oil into the gearbox. Use proper filter, see that no foreign particals other than oil enter the gearbox. Tighten the oil filler plug properly.

Mounting Position (Quantity in Litres)

Gear Box Model	Mounting Position (Quantity in Litres)				
	 B3	 B6	 B8	 V1	 V3
Gear Box Model	 B5	 B7		 V5	 V6
11 12 13	GREASE	GREASE	GREASE	GREASE	GREASE
21 22 23	GREASE	GREASE	GREASE	GREASE	GREASE
31 32 33	GREASE	GREASE	GREASE	GREASE	GREASE
41 42 43	1.25	2.25	2.4	3.5	3.0
51 52 53	2.0	3.2	3.5	5.0	4.5
61 62 63	4.0	4.5	5.0	8.0	7.5
71 72 73	6.0	7.0	8.0	11.0	10.0
81 82 83	4.0	4.5	5.0	8.0	7.5
91 92 93	11.0	22.0	21.0	35.0	30.0
101 102 103	18.0	35.0	33.0	50.0	45.0

Quantity mentioned are approximate and will change for different speeds / Ratios

INSTRUCTIONS

FOR THE INSTALLATION AND OPERATION OF " ROTOFLEX" AC/DC GEARED MOTORS

During the warranty period the gear boxes / geared Motors must not be opened without our consent, lest warranty will be forfeited. We do not honour any claims raised during the warranty period, which should arise from alterations or repairs carried out without our consent.

Installation :

When installing the geared Motors, make sure that the foundations or the Base Frames are properly machined and don't notably tend to vibrate. The load bearing surfaces, Base plates or Flanges, should bear the weight uniformly and be properly tightened.

The output shaft is coated with a rust protective, which should be removed by kersosene prior fitting the transmission parts like Pulleys, Couplings or Gears, which are to be fitted to the output shaft, must have a bore of H7 tolerance (Pushfit). Remove machining burrs, Apply thin film of oil on shaft and fit transmission parts by means of a Pull on device which may be screwed into the tapped hole in the shafthub. It is advisable to heat the part prior to fitting. Avoid hammer blows. Carefully align geared motor and see that shaft as well as belt or chain have proper alignment. This work should be done with utmost care. Power connection should be properly given. It is advisable to fit a protective motor switch with three adjustable thermal relays. This switch is adjusted to the motor Rating, cuts out all three phases in case of overload, or failure of one phase. The normal fuses donot afford sufficient protection. It is necessary to use Torque limiteres or Fluid couplings, Powder couplings, soft start, where the driven equipment takes more time to accelerate than motor to pick up full speed. Otherwise the gears will get damaged.

Installation of Motor :

Use B5 Flange IS/325 & IS 2223 Flange mounted Motors suitable for your application or as per our recommendation. Check Motor condition, Open the terminal box cover, check the type of connection & voltage on name plate before connecting the mains, run with no load & record the amps drawn, repair if fan cover is damaged & touching the fan. Clean motor shaft, flange of motor using Kerosine /Thinner, check for any damage. It is necessary that the motor flange should be perpendicular to shaft axis within 0.05mm. Apply oil or grease to shaft & then fit the motor to gearbox input side. Push fit is preferred. Push until motor flange touches the gear box flange. Don't use hammer to fit Motor.

Lubrication :

Rotoflex gear/ geared motors are suitable for oil lubrication except 13, 23 & 33 Models. However grease lubricated gear can be supplied on special request at extra cost. The oil level may please be checked at the sight glass. The filling plug is always located at the highest point of the gear housing. Use any standard gear oil as specified below. Use sealed tin or container from reputed companies like HP/Caltex/ESSO/Shell/ Indian Oil. Change oil after 2500 to 3000 working hours.

Recommended gear oil

HP -	Gearvil EP - 220 Gearvil EP - 320
IOC-	Servomesh - 220 servomesh - 320
BPC-	Amoeam Oil -220 Amoeam Oil -320

Recommended grease

BPC Lantex EP-2 BPC Lantex EP-1 or Balmerol Liprex EP-1 Balmerol Liprex EP-2
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MAINTENANCE AND FAILURE ANALYSIS SCHEDULED MAINTENANCE ACTIONS

The objective of this maintenance program is to ensure satisfactory gearbox performance at all times and to maintain the transmission in a state of readiness if it is not in operation. A program should be planned which includes regular maintenance action and periodic monitoring of operating characteristics to determine whether any problems are developing.

Every gearbox comes with a set of maintenance instructions. These instructions include the following information.

Maintenance requirements - storage, overhaul & Trouble shooting

Maintenance Requirements :

Table 1 Regular Gearbox Maintenance Actions

Frequency	Maintenance item	Corrective action
Daily	Check oil temperature and pressure at operating condition	If there is a drastic change from previous readings, stop unit and determine cause.
	Check for noise, vibration and oil leaks	
	Check sump oil level.	Add oil if necessary
Weekly	Check oil filter (if provided)	Change filter element if necessary
Monthly	Check lubricating oil for contamination	Drain and refill lube system if necessary. Change oil filter.
	Check all gages, controls and alarm systems. (If provided) Clean breather element.	
Every 2500* hours or 6 months	Change lubricating system oil.	

*If operating conditions are unusually severe, such as high-temperature or high moisture atmospheres, oil change requirements might be more frequent. Changes can be based on inspection of the oil for viscosity or acid number in such cases.

The following section presents some general comments on maintenance of gearboxes. A specific unit may require special maintenance procedures and the manufacturer's instructions should be adhered to.

There are several maintenance actions that should be affected during the initial operation of a gearbox. After approximately 2500 hr of running time, the following should be accomplished:

Check coupling alignment and correct if necessary
Check bolt torques and retighten if necessary.

Check piping connections and retighten if necessary
Change oil and clean sump.

The oil, after 2500 hr, need to be discarded & to be drained. Particles may be found in the oil and the sump due to normal wearing in process. At this point the sump or reservoir should be thoroughly cleaned. After draining the original oil it is recommended that the gearbox and lubrication system be flushed out with a flushing oil. if possible, bring the unit up to operating speed at light load after filling with flushing oil. Shut down immediately after achieving full speed. Drain the flushing oil and refill with the recommended lubricant to the proper level.

After First 50 hr maintenance a regular program should be followed as outlined in Table 1. Logs should be kept of instrument readings and maintenance actions to keep a running account of the gearbox condition.

When performing maintenance operations, every precaution must be taken to prevent foreign matter from entering the gearbox. The introduction of moisture, dirt, or fumes can lead to sludge formation and deterioration of the lubrication and cooling system (If provided).

STORAGE

Quite often, the gearbox is delivered before the complete system is ready for assembly and it must be stored for some period of time prior to operation. When operation is delayed for more than 1 month after shipment, special precautions must be taken to prevent rusting of the components. If possible, the gearbox should be completely filled with oil during storage. Where this is not practical, all exposed metal parts, both inside and outside the unit, should be sprayed with a heavy-duty rust preventative. The gearbox should be stored in a dry area remaining at approximately constant temperature, preferably indoors. If stored outdoors, the gearbox should be raised off the ground and completely enclosed by a protective covering such as a tarpaulin. If possible, the unit should be rotated at weekly intervals while in storage.

OVERHAUL AND SPARE PARTS

Generally, gearboxes do not have a specific time period after which the unit is disassembled and overhauled. It is more common to observe deterioration of components such as bearings and gears during operation and replace the particular component at a convenient time. consult the manufacturer for how to disassemble and assemble the unit. If the user is not completely familiar with the equipment, it would be prudent to send it to factory for any major component replacements. Spare gears or bearings for gearboxes are not necessarily readily available from the manufacturers. Bearings are not usually stocked by distributors. In many cases the bearings are customized for the specific gearbox and therefore are even harder to replace.

Finished gears are rarely stocked by manufacturers and lead times on gears or bearings might be 6 weeks or more. When purchasing the drive the user should request a recommended spares list and determine what the availability of these parts will be. The user and manufacturer can then arrive at some agreement over what spares will be available and where they will be stored.

TROUBLE SHOOTING

The major causes of **gearbox failure are improper lubrication and overload**. Care must be taken to check for proper oil level before operation. Excessive oil volume can be as detrimental as lack of lubrication and will result in churning and over temperature of components. Overload can be a result of vibration shock loads, or high torque at low speed. If there is a possibility that operating loads will exceed rated gearbox loads, the manufacturer should be consulted.

Table - 2 is a troubleshooting guide that gives some guidance in how to identify and correct some of the common problem areas occurring during gearbox operation.

Table - 2 Gearbox Troubleshooting Chart

	Problem	Recommended Inspection	Corrective action
A)	Overheating	1. Oil cooler Operation (if provided)	Check flow of coolant and oil flow. Measure oil temperature into and out of cooler. Check cooler internally for buildup of deposits from coolant water.
		2. Is oil level too Low or too high?	Check oil level indicator.
		3. Bearing Installation	Make sure that bearings are not pinched and properly adjusted.
		4. Grade and condition of oil	Check that oil is specified grade. Inspect oil to see if it is oxidized, dirty or with high sludge content.
		5. Lubrication System (if provided)	Check operation of oil pump. Make sure that suction side is not sucking air. Measure flow. Check if oil passages are free. Inspect oil line pressure regulator, nozzles, and Filters to be sure they are free of obstruction.
		6. Coupling float and alignment	Check coupling alignment and adjust end float.
B.	Shaft failure	1. Type of coupling	Rigid couplings between rigidly supported shafts can cause shaft failure. Replace with coupling to provide required flexibility and lateral float.
		2. Coupling alignment	Realign equipment as required
		3. Excessive over hung Load	Reduce overhung load. Use outboard bearing or replace with higher capacity unit.
		4. High transient loading	Use couplings capable of absorbing shocks. Use couplings with shear pins.
		5. Torsional or lateral vibrations	Adjust system mass elastic characteristics to control critical speed location. Possibly, coupling geometry can be modified.
		6. Cracks due to fretting corrosions	Note cause of fretting and correct. Press fits between gear and shaft.
C.	Oil leakage	1. Exceed oil level	Check oil level indicator
		2. Is breather open	Check oil breather
		3. Are oil drains open	Check that all oil drain locations are free and clean.
		4. Oil seals	Check oil seals and replace if worn. Check conditions of shaft under the seal and polish if necessary.

Table 2 (Continued)

Problem	Recommended Inspection	Corrective action
	5. Plugs at drains, levels, and pipe fittings	Apply sealant and tighten fittings.
	6. Housing and caps	Tighten cap screws or bolts. If not effective, remove housing cover and caps. Clean mating surfaces with thinner and apply new sealing compound. Reassemble. Check compression joints by tightening fasteners firmly.

Gear teeth should be inspected for nicks, burrs, and scratches, which may be repaired by blending provided that they are minor and not on the working surfaces of a tooth. The blend may be accomplished using a small file and an oil stone. Crocus cloth should be used for the final polishing. All repairs must be finished smoothly. Power tools are not permitted for blend repairs.

In many gearboxes the teeth can be visually inspected by removing inspection covers bolted into the casing. When opening these inspection covers care must be taken to ensure that no foreign material enters the gearbox. Gear teeth should be examined under good lighting and be wiped clean of oil to prevent a false diagnosis. The content pattern should cover approximately 80% of the tooth. The following section discusses gear tooth failure modes and describes various conditions that may be encountered in the field.

Gear Tooth Failure Modes

The major modes of gear tooth failure are breakage, wear, pitting, and scoring. When these problems are encountered in the field, it is important to accurately define the condition and causes of failure, to be able to determine corrective actions for the particular units in difficulty and also to modify analytical and manufacturing methods for future gearboxes, so that they will not suffer the same problems. Also, an accurate diagnosis of field problems will enable the user to determine if a gearbox requires immediate modification or replacement or if it can be expected to continue to function for some period of time, when repairs can be made more conveniently.

Breakage

Breakage of gear teeth is the most catastrophic form of failure. It occurs precipitously with no advance warning. If a number of teeth break, load transmission is no longer possible. If only one tooth or a portion of a tooth breaks, there is the possibility of secondary damage if the broken part interferes with other components in the system. Also, dynamic loading will increase and if operation continues, other teeth will soon fail. Breakage of gear teeth is caused by excessive bending stress in the root imposed by the transmitted load. Tooth breakage can be the result of a fatigue mechanism (Figure 1) or an overload which exceeds the gear tooth fracture strength (Figure 2) A fatigue break initiates as a small crack which, over a large number of load cycles, propagates until a portion of, or a whole tooth, separates from the gear. Failures of this nature may be a result of system overloads greater than the design load, such as torsional vibrations. Manufacturing discrepancies such as tool marks or metallurgical discrepancies can also lead to fatigue failures by initiating cracks. In surface-hardened gears, if the case in the root is not correct either due to heat-treatment problems or excessive machining, bending failures can result.

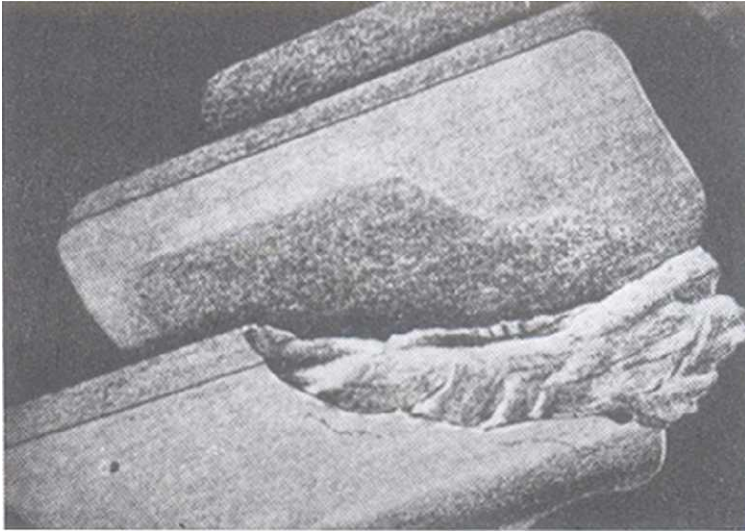


Figure 1 : Fatigue Breakage

As shown in Figure I, the smooth appearance of the fracture surface attests to the fact that considerable working of the cracked surfaces occurred prior to final separation. Overload breakage occurs in relatively few cycles; therefore, the fracture surfaces are rougher than those of a high-cycle fatigue failure. Some causes of overload breakage are :

- Large particles or contaminants passing through the gear mesh
- Sudden misalignments such as when a coupling fails
- Bearing seizures
- Shock loads such as jam in the driven system/equipment



Figure 2 : Overload breakage

In some cases other failure modes such as wear or pitting may increase dynamic loading or weaken the tooth to the extent that breakage ultimately occurs.

WEAR

Wear may be defined as the loss of metal due to the rubbing action of two surfaces moving in relation to one another when the oil film is not of sufficient thickness to separate them. One form of rubbing wear is adhesive wear characterized by metal particles from one gear tooth adhering to the mating gear tooth by a welding action and subsequently detaching. The other form of rubbing wear is abrasive wear caused by abrasive action between the sliding gear teeth or by the presence of abrasive particles between them. These particles may be contaminants in the oil or pieces detached from the tooth surfaces themselves. Figure 3 illustrates some worn areas on a helical gear.

Gear teeth do not necessarily wear during operation. If the oil film thickness is sufficient to separate the mating tooth surfaces, millions of cycles can be accumulated with no measurable wear. In some cases there may be an initial wearing in of gear teeth and if rubbing wear diminishes with time it may not be detrimental ; therefore, when wear is first noted the gearset should be closely monitored to determine the rate at which wear progresses such that a determination can be made as to whether it will be damaging. The wear in Phenomenon is more common with through-hardened gears (Rc 32 approximately) than surface-hardened gearing (approximately Rc 60)

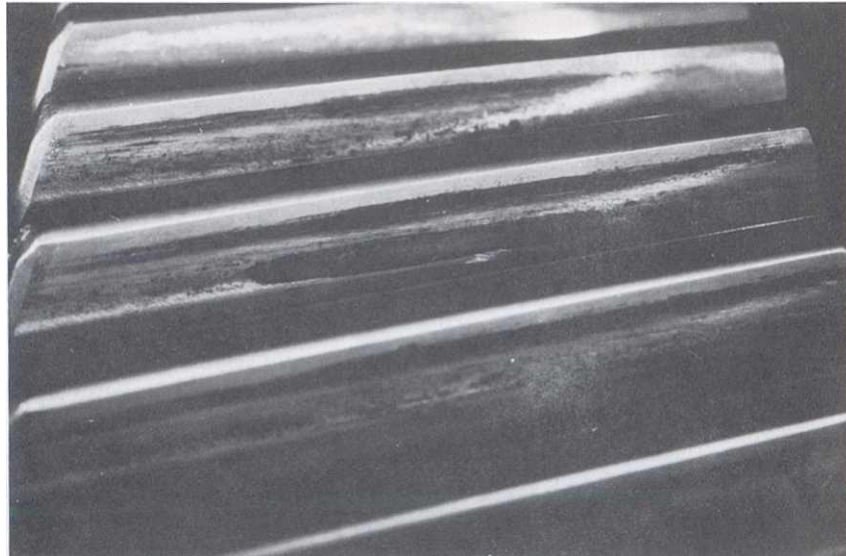


Figure 3 : Tooth wear

Pitting

Pitting manifests itself in several forms. Initial pitting, sometimes called frosting, may occur during early operation. This is a surface -oriented failure mode where local high spots contact and exhibit distress. As the high spots are removed, the load is more evenly distributed and the pitting action diminishes. This condition may be acceptable.

Destructive fatigue pitting is a result of repeated stress cycling of the tooth surface beyond the material's endurance limit. Surface or subsurface cracks initiate, propagate, and eventually material detaches from the tooth surface leaving pitted areas. Pitting may progress to a point where large areas are broken out. This condition is referred to as spalling.

SCORING

Scoring is a form of surface damage on the tooth flank which occurs when over heating causes the lubricant film to become unstable, allowing metal to metal contact. Local welding is initiated and the welding junctions are torn apart by the relative motion of the gear teeth, resulting in radial score marks.

Figures 4 illustrate degrees of the scoring phenomenon. Light scoring which does not progress may be acceptable, but heavier scoring can destroy the tooth profile the lead to pitting and breakage. The scoring type of failure mode generally occurs in high speed applications using low-viscosity lubricants.

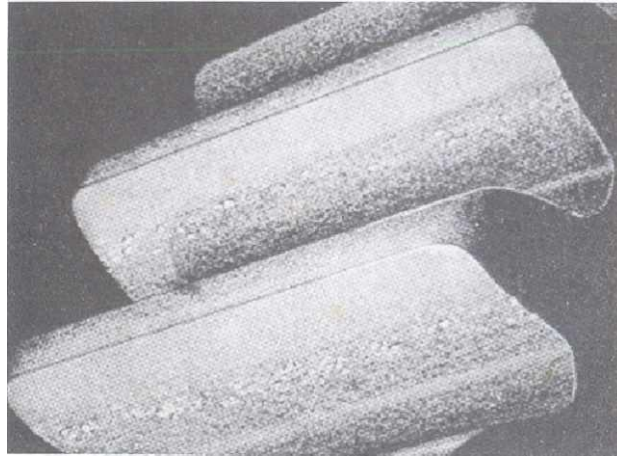


Figure 4 : Tooth condition after scoring

Cracking

On occasion, cracks are observed on gear teeth. Cracks are usually a result of incorrect heat treatment or abusive grinding. In some cases improper heat treatment results in brittle tooth tips or ends that chip off during operation.

Cracks on the tooth flanks are dangerous since they can propagate and lead to catastrophic failure. Gears exhibiting cracking should be replaced. Chipping of gear teeth at the tips or ends may be repairable by blending. The danger here is that if more chipping occurs, the pieces may interfere with rotating components.

Improper heat treatment of case-hardened gears can result in case-core separation. Cracks originating in the core material propagate along the case to core boundary and then work out to the surface. When this occurs large areas of material are removed.

Oil Starvation

Quite a few gearboxes have been lost because the units were run without lubrication. Sometimes when viewing the components after failure it is not obvious what the cause was. The pinion gear has failed catastrophically, shedding all its teeth. Other gears and antifriction bearing are in reasonably good condition. The pinion gear having the least area to dissipate heat, reached the melting point at its teeth and suffered the most damage.

HOW TO FIT THE SEAL? INSTALLATION METHODS

One of the major causes of seal premature failure is wrong fitment. To assist the installation, the oil seal should be pre-lubricated with greases or oil to reduce sliding friction of contact surfaces. This will help to protect the seal lips during initial run-in. An installation tool should always be used when installing an oil seal which make installation easier and lower the possibility of seal cocking.



Inline Input Shaft type Gear Box
Flange type 1Stage



Inline Input Shaft type Helical
Reduction Gear Box Flange type 2/3 Stage



Hollow o/p gearbox
2 stage solid input



Foot type Single stage Helical
Reduction Geared Motor



Foot type Helical Reduction
Geared Motor 2/3 Stage



Foot type Coupled Helical Reduction
Geared Motor 4 Stage



Foot type Coupled Helical
Reduction Geared Motor 5/6 Stage



Flange type Single Stage
Helical Reduction
Geared Motor



Flange type Helical
Reduction Geared
Motor 2/3 Stage



Flange type coupled
Helical Reduction Geared
Motor 4 Stage



Flange type Coupled
Helical Reduction
Geared Motor 5/6 Stage



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