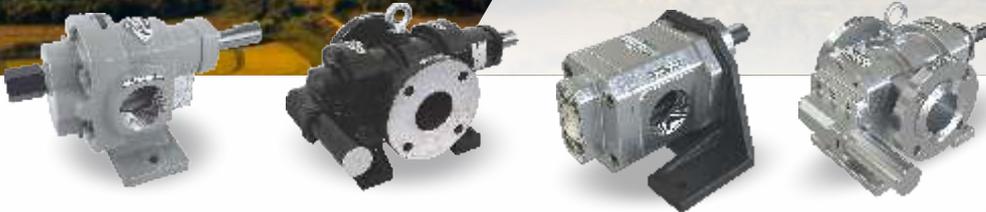




Rotary Gear Pumps  
SINCE : 1993

Top gear  
**Performance,**  
every time.



# Pump it up with Gear!

**30<sup>+</sup>**  
YEARS

Establishment

**3.5<sup>+</sup>**  
LACS

Installation

**4000<sup>+</sup>**  
VALUABLE

Clients

**40<sup>+</sup>**  
COUNTRIES

Served

**FLUID TECH SYSTEMS** commenced its business operation in 1993, under the able guidance of great visionary leader Mr. Mansukh Patel. What started off as a modest production capacity plant is one of the largest in India today.

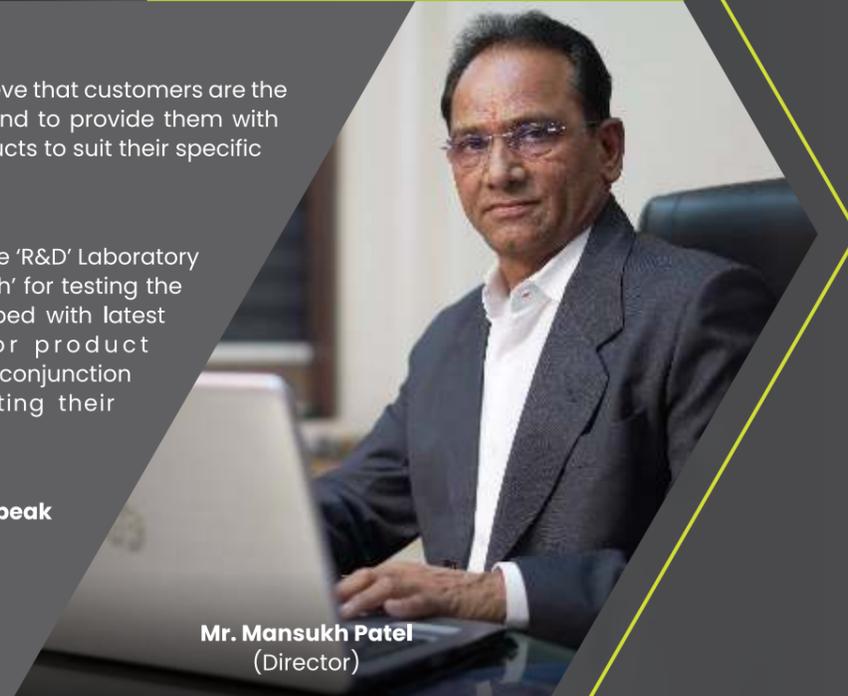
We have various types of Gear Pumps under the Brand name of "ROTOFLUID" considering the need of common requirement of gear pumps for various industries. Due to the quality and reliability, "Rotofluid" brand has been very well accepted in the domestic and overseas market.

Our strength is our highly qualified team including engineers, promoters, proactive quality culture and policy of winning and retaining customers.

We, at Fluid Tech Systems's believe that customers are the very essence of our business and to provide them with innovative and consistent products to suit their specific applications is our core focus.

The factory today houses a large 'R&D' Laboratory & 'Automated Lab Testing Bench' for testing the rotary gear pumps. It is equipped with latest machineries required for product development and works in close conjunction with our customers in meeting their required end application.

**Our motto is "Let our Quality speak for itself".**



**Mr. Mansukh Patel**  
(Director)

# ABOUT ROTOFLUID PUMPS

## EXCEPTIONAL SOLUTION FOR CLIENTS

The state-of-art manufacturing capacity based in Ahmedabad covers 18,000 sq.ft and is equipped with modern infrastructure and technically advanced machineries that meets the quality standards. The Group employs modern processes and system for manufacturing products that are finest in the industry.

We have a skilled & dedicated team for design and development, who are very much innovative and conscious to understand and fulfill the market requirement.

Furthermore, we highly appreciate our most quality conscious business partners/vendors/suppliers and our customers and most importantly our dealers, distributors, retailers network throughout India and Abroad for contributing to our success.

We FLUID TECH SYSTEMS, are extremely proud of the committed and skilled workforce that constantly strive to innovate and deliver value to the customer through constant improvement in the product and service portfolio. The research & development cell and regular training programs continuously enhance the skill sets of our team and motivate them to give their best.



# VISION MISSION

Gearing up to be a "Global Leader in the World" of rotary gear pumps.

We adapt to the changes and meet the challenges by creative entrepreneurship, empowered teamwork, continuously improvements, environment friendly practices and optimization of profits.

To deliver best quality product at affordable price coupled with excellent after sales service support.

Remain "Always A Step Ahead in Technology" by continuously investing in research and development to cater to new applications, industries and segments as well as improvement of our existing product ranges.





Technical Specification

Model	Suction & Delivery Size	Capacity at 1440 RPM			Recommended Motor HP		
		LPM	US GPM	M <sup>3</sup> /hr	Up to 3 kg./cm <sup>2</sup>	Up to 7 kg./cm <sup>2</sup>	Up to 10 kg./cm <sup>2</sup>
FT - 025	1/4" x 1/4"	2.5	0.6	0.1	0.25	0.35	0.5
		5	1.3	0.3			
FT - 050	1/2" x 1/2"	10	2.6	0.6	0.5	0.75	1.0
		20	5.2	1.2			
FT - 075	3/4" x 3/4"	25	6.6	1.5	0.75	1.0	1.5
		30	7.9	1.8			
FT - 100	1" x 1"	35	9.2	2.1	1.0	1.5	2.0
		50	13.2	3.0			
FT - 125	1 1/4" x 1 1/4"	75	19.8	4.5	1.5	2.0	3.0
FT - 150	1 1/2" x 1 1/2"	110	29.0	6.6	2.0	3.0	5.0
FT - 200	2" x 2"	225	59.4	13.5	3.0	5.0	7.5
FT - 250	2 1/2" x 2 1/2"	350	92.5	21.0	5.0	10.0	12.5
FT - 300	3" x 3"	500	132.0	30.0	10.0	15.0	20.0

Material of Construction

Part	Material For Standard (Up to 80° C)	Material For H.T. (Up to 200° C)
Body	IS.210 FG 220 C.I. Grade	IS.210 FG 220 C.I. Grade
Back Cover	IS.210 FG 220 C.I. Grade	IS.210 FG 220 C.I. Grade
Gland Cover	IS.210 FG 220 C.I. Grade	IS.210 FG 220 C.I. Grade
R.H. & L.H. Gear	EN-8	EN-24 [H. Nitrated]
Rotor/Stator Shaft	EN-19	EN-19
Bearing [Bushes]	Non Ferrous Sintered Bronze	Non Ferrous Sintered Bronze
Sealing	Neoprene oil Seal / Mechanical seal	"GFO" Pack Teflon / Mechanical Seal
R.V. Cap	Aluminum	Aluminum
Key for coupling	EN-8	EN-8

Features

- Simple and Efficient design.
- Single helical gear design.
- Low noise.
- Wide capacity range. 2.5 LPM to 500 LPM
- Max. Temperature can be handle up to 200° C
- With relief valve design.
- High efficiency.
- Optionally available in double helical gear design.
- Self priming pump.
- Bi-direction positive displacement pumps.
- Can Handle Max. Capacity 25000 CST
- Working Pressure Up to 10 kg/cm<sup>2</sup>

Application

- Refineries.
- All kind of mineral Oils.
- Printing inks.
- Dyes and Resins.
- Glycerin and Glycol.
- Bitumen.
- Fuel oil, Diesel oil, Furnace oil.
- Power plant.
- Steel plant.
- Cement plant.
- Oil storage installation

**Technical Specification**

Model	Suction & Delivery Size	Capacity at 1440 RPM			Recommended Motor HP		
		LPM	US GPM	M <sup>3</sup> /hr	Up to 3 kg./cm <sup>2</sup>	Up to 7 kg./cm <sup>2</sup>	Up to 10 kg./cm <sup>2</sup>
FTSS - 025	1/4" x 1/4"	8	2.1	0.5	0.25	0.35	0.5
FTSS - 040	3/8" x 3/8"	15	3.9	0.9	0.5	0.75	1.0
FTSS - 050	1/2" x 1/2"	25	6.6	1.5	0.5	0.75	1.0
FTSS - 075	3/4" x 3/4"	30	7.9	1.8	0.75	1.0	1.5
FTSS - 100	1" x 1"	50	13.2	3.0	1.0	1.5	2.0
FTSS - 125	1 1/4" x 1 1/4"	100	26.4	6.0	1.5	2.0	3.0
FTSS - 150	1 1/2" x 1 1/2"	125	33.0	7.5	2.0	3.0	5.0
FTSS - 200	2" x 2"	200	52.8	12.0	3.0	5.0	7.5
FTSS - 250	2 1/2" x 2 1/2"	350	92.7	21.0	5.0	10.0	12.5
FTSS - 300	3" x 3"	500	132.0	30.0	10.0	15.0	20.0



**Material of Construction**

Part	Material For FTSS
Pump Body	CF8M [SS-316]
Front Cover	CF8M [SS-316]
Back Cover	CF8M [SS-316]
Gland Cover	CF8M [SS-316]
Packing	Teflon Sheet
Sealing	"GFO" Pack Teflon / Mech. Seal / Viton oil seal
Bush Bearings	Teflon Coated "DU"
Mounting Bracket	C.I.Gr.-20 IS 210
Dom Nut	AISI [SS-316]
Rotor/Stator Shaft	AISI [SS-316]
R.H. & L.H. Gear	AISI [SS-316]
Key For Coupling	SS-304

**Features**

- Construction is in three piece so easily cleanable and maintainable.
- PTFE coated DU bush for smooth running and dry bearing condition.
- Self priming pump
- Single helical gear design.
- Optionally available in double helical gear design.
- Bi-direction positive displacement pump.
- Corrosion prevent pump
- Wide capacity range 8 LPM to 500 LPM
- Max. Temperature can be handle up to 250° C
- Can handle Max. Viscosity 25,000 CST
- Max. working pressure up to 10 kg/cm<sup>2</sup>

**Application**

- Food product like Ghee, Butter, Pulp, Vegetable sauce.
- Pharmaceutical industries.
- Cosmetic industries.
- Dyes and Resins.
- Chemical industries for corrosive viscose chemical.
- Dyeing and Printing house.
- Special chemical and Acid industries.



**Technical Specification**

Model FTRN   FTRB   FTRX	Suction & Delivery Size	Capacity at 1440 RPM			Recommended Motor BHP At 1440 R.P.M.		
		LPM	US GPM	M <sup>3</sup> /hr	Up to 3 kg./cm <sup>2</sup>	Up to 7 kg./cm <sup>2</sup>	Up to 10 kg./cm <sup>2</sup>
050 - S	1/2" x 1/2"	10	2.6	0.6			
050 - M	1/2" x 1/2"	15	3.9	0.9	0.5	0.75	1.0
050 - L	1/2" x 1/2"	25	6.6	1.5			
100 - S	1" x 1"	30	7.9	1.8			
100 - M	1" x 1"	50	13.2	3.6	1.0	1.5	2.0
100 - L	1" x 1"	60	15.8	3.6			
150 - S	1 1/2" x 1 1/2"	80	21.1	4.8			
150 - M	1 1/2" x 1 1/2"	100	26.4	6.0	2.0	3.0	5.0
150 - L	1 1/2" x 1 1/2"	125	33.0	7.5			
200 - S	2" x 2"	150	39.6	9.0			
200 - M	2" x 2"	165	43.5	9.9	3.0	5.0	7.5
200 - L	2" x 2"	200	52.8	12.0			
250 - S	2 1/2" x 2 1/2"	250	66.0	15.0			
250 - M	2 1/2" x 2 1/2"	300	79.2	18.0	5.0	7.5	10.0
250 - L	2 1/2" x 2 1/2"	330	87.1	19.8			
300 - S	3" x 3"	415	109.6	24.9			
300 - M	3" x 3"	450	118.8	27.0	10.0	12.5	15.0
300 - L	3" x 3"	500	132.0	30.0			
400 - S	4" x 4"	600	158.5	36.0			
400 - M	4" x 4"	665	175.6	39.9	15.0	20.0	25.0
400 - L	4" x 4"	830	219.2	49.8			
500 - S	5" x 5"	1000	264.1	60.0			
500 - M	5" x 5"	1250	330.2	75.0	20.0	30.0	40.0
500 - L	5" x 5"	1500	396.2	90.0			
600 - S	6" x 6"	1650	435.8	99.0			
600 - M	6" x 6"	1825	482.1	132.0	30.0	50.0	60.0
600 - L	6" x 6"	2083	549.4	124.8			
600A - S	6" x 6"	2500	660.4	150.0			
600A - M	6" x 6"	2915	770.0	174.9	60.0	75.0	100.0
600A - L	6" x 6"	3330	879.6	199.8			
800 - S	8" x 8"	3750	990.6	225.0	<b>AT 960 R.P.M.</b>		
800 - M	8" x 8"	4165	1100.2	250.0	100.0	120.0	150.0
800 - L	8" x 8"	4583	1210.7	275.0			

**Material of Construction**

Part	Material For FTRN / FTRX	Material For FTRB
Pump Body	CI/CS	CI/CS
Front Cover	CI/CS	CI/CS
Back Cover	CI/CS	CI/CS
Gland Cover	CI/CS	CI/CS
Rotor & Stator Shaft	EN-19	EN-19
Gear	EN-24/EN-353	EN-24/EN-353
Bush/Needle Bearing	INA/IKO [Japan]	Non-Ferrous
Wear Plate	Non-Ferrous	Non-Ferrous
Lifting Hook	Mild Steel	Mild Steel
R.V. Housing	Mild Steel	Mild Steel
R.V. Piston	EN-8	EN-8
R.V. Spring	Spring Steel	Spring Steel
R.V. AD. Screw	EN-8	EN-8
Sealing	"GFO" Teflone/Mechanical Seal	"GFO" Teflone/Mechanical Seal
Key	EN-8	EN-8
Dowel Pin	EN-31	EN-31
Hex - Bolt	Mild Steel	Mild Steel

**Features**

- Heavy duty gear pump design for continuous application.
- Herringbone rotor design eliminate side thrust.
- Modified tooth profile enhance tooth life.
- Floating gear design ensures uniform load distribution.
- Optionally steam jacket available.
- Double helical gear design prevent axial load.
- Low leakage path by design improve volumetric efficiency.
- Shorter bearing span reduces bending effect.
- Max. Temperature can be handle up to 300° C
- Can handle Max. Viscosity 75,000 CST
- Max. working pressure up to 10 kg/cm<sup>2</sup>

**Application**

- Power plant.
- Steel plant.
- Cement plant.
- Bitumen plant.
- Petroleum industries.
- Refineries.
- Pumping station.
- All kind of liquid loading and unloading.



**Technical Specification**

Model FTRBJ	Suction & Delivery Size	Capacity at 1440 RPM			Recommended Motor BHP At 1440 R.P.M.		
		LPM	US GPM	M <sup>3</sup> /hr	Up to 3 kg/cm <sup>2</sup>	Up to 7 kg/cm <sup>2</sup>	Up to 10 kg/cm <sup>2</sup>
050 - S	1/2" x 1/2"	10	2.6	0.6			
050 - M	1/2" x 1/2"	15	3.9	0.9	0.5	0.75	1.0
050 - L	1/2" x 1/2"	25	6.6	1.5			
100 - S	1" x 1"	30	7.9	1.8			
100 - M	1" x 1"	50	13.2	3.6	1.0	1.5	2.0
100 - L	1" x 1"	60	15.8	3.6			
150 - S	1 1/2" x 1 1/2"	80	21.1	4.8			
150 - M	1 1/2" x 1 1/2"	100	26.4	6.0	2.0	3.0	5.0
150 - L	1 1/2" x 1 1/2"	125	33.0	7.5			
200 - S	2" x 2"	150	39.6	9.0			
200 - M	2" x 2"	165	43.5	9.9	3.0	5.0	7.5
200 - L	2" x 2"	200	52.8	12.0			
250 - S	2 1/2" x 2 1/2"	250	66.0	15.0			
250 - M	2 1/2" x 2 1/2"	300	79.2	18.0	5.0	7.5	10.0
250 - L	2 1/2" x 2 1/2"	330	87.1	19.8			
300 - S	3" x 3"	415	109.6	24.9			
300 - M	3" x 3"	450	118.8	27.0	10.0	12.5	15.0
300 - L	3" x 3"	500	132.0	30.0			
400 - S	4" x 4"	600	158.5	36.0			
400 - M	4" x 4"	665	175.6	39.9	15.0	20.0	25.0
400 - L	4" x 4"	830	219.2	49.8			
500 - S	5" x 5"	1000	264.1	60.0			
500 - M	5" x 5"	1250	330.2	75.0	20.0	30.0	40.0
500 - L	5" x 5"	1500	396.2	90.0			
600 - S	6" x 6"	1650	435.8	99.0			
600 - M	6" x 6"	1825	482.1	132.0	30.0	50.0	60.0
600 - L	6" x 6"	2083	549.4	124.8			
600A - S	6" x 6"	2500	660.4	150.0			
600A - M	6" x 6"	2915	770.0	174.9	60.0	75.0	100.0
600A - L	6" x 6"	3330	879.6	199.8			
800 - S	8" x 8"	3750	990.6	225.0			
800 - M	8" x 8"	4165	1100.2	250.0	100.0	120.0	150.0
800 - L	8" x 8"	4583	1210.7	275.0			

**AT 960 R.P.M.**

**Material of Construction**

Part	Material For FTRBJ
Pump Body	CI/CS
Front Cover	CI/CS
Back Cover	CI/CS
Gland Cover	CI/CS
Rotor & Stator Shaft	EN-19
Gear	EN-24/EN-353
Bush/Needle Bearing	Non-Ferrous
Wear Plate	Non-Ferrous
Lifting Hook	Mild Steel
R.V. Housing	Mild Steel
R.V. Piston	EN-8
R.V. Spring	Spring Steel
R.V. AD. Screw	EN-8
Sealing	"GFO" Teflone/Mechanical Seal
Key	EN-8
Dowel Pin	EN-31
Hex - Bolt	Mild Steel

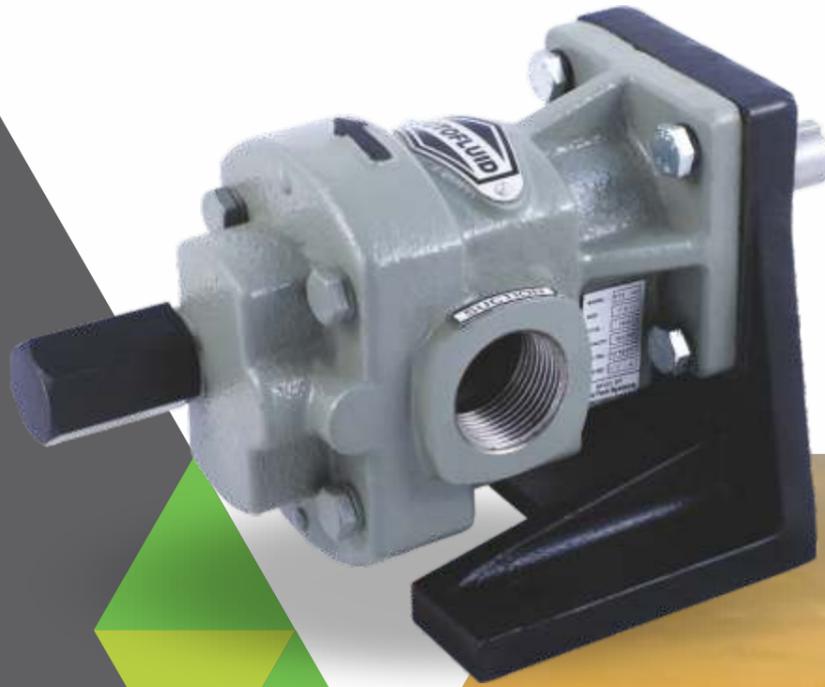
**Features**

- Heavy duty gear pump design for continuous application.
- Herringbone rotor design eliminate side thrust.
- Modified tooth profile enhance tooth life.
- Floating gear design ensures uniform load distribution.
- Optionally steam jacket available.
- Double helical gear design prevent axial load.
- Low leakage path by design improve volumetric efficiency.
- Shorter bearing span reduces bending effect.
- Max. Temperature can be handle up to 300° C
- Can handle Max. Viscosity 75,000 CST
- Max. working pressure up to 10 kg/cm<sup>2</sup>

**Application**

- Bitumen industries.
- Refineries.
- Bitumen loading and unloading.
- Asphalt batch mix plant.

**Technical Specification**



Model	Suction & Delivery Size	Capacity at 1440 RPM			Recommended Motor HP		
		LPM	US GPM	M <sup>3</sup> /hr	Up to 3 kg/cm <sup>2</sup>	Up to 7 kg/cm <sup>2</sup>	Up to 10 kg/cm <sup>2</sup>
FTX - 025	1/4" x 1/4"	2.5	0.6	0.1	0.25	0.35	0.5
		5	1.3	0.3			
FTX - 050	1/2" x 1/2"	10	2.6	0.6	0.5	0.75	1.0
		15	3.9	0.9			
FTX - 075	3/4" x 3/4"	20	5.3	1.2	0.75	1.0	1.5
		25	6.6	1.5			
FTX - 100	1" x 1"	35	9.2	2.1	1.0	1.5	2.0
		50	13.2	3.0			
FTX - 125	1 1/2" x 1 1/2"	60	15.8	3.6	1.5	2.0	3.0
		75	15.8	4.5			
FTX - 150	1 1/2" x 1 1/2"	100	26.4	6.0	2.0	3.0	5.0
		120	31.7	7.2			
FTX - 200	2" x 2"	150	39.6	9.0	3.0	5.0	7.5
		200	52.8	12.0			
FTX - 250	2 1/2" x 2 1/2"	225	59.4	13.0	7.5	10.0	12.5
		300	79.2	18.0			
		350	92.4	21.0			
		400	105.6	24			



**Material of Construction**

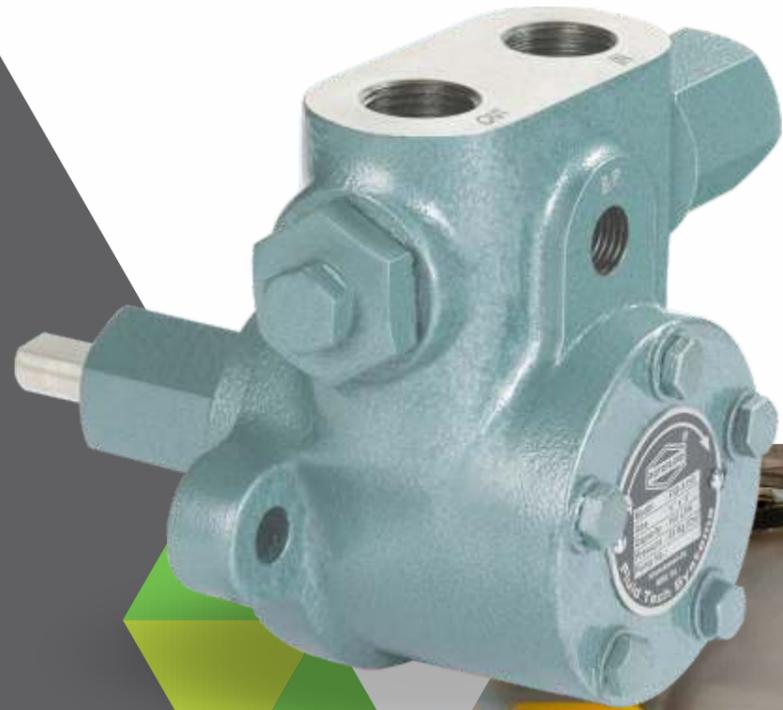
Part	Material For Standard (80° C)	Material For H.T. (up to 200° C)
<b>Body</b>	IS.210 FG 220 C.I. Grade	IS.210 FG 220 C.I. Grade
<b>Back Cover</b>	IS.210 FG 220 C.I. Grade	IS.210 FG 220 C.I. Grade
<b>R.H. &amp; L.H. Gear</b>	EN-8	EN-24 [H. Nitrated]
<b>Rotor/Stator Shaft</b>	EN-19	EN-19
<b>Bearing [Bushes]</b>	Non Ferrous Sintered Bronze	Non Ferrous Sintered Bronze
<b>Sealing</b>	Neoprene oil Seal	"GFO" Pack Teflon
<b>R.V. Cap</b>	Aluminum	Aluminum
<b>Key for coupling</b>	EN-8	EN-8

**Features**

- Compact and Simple design.
- Foot and Flange mounting options.
- Self priming pump.
- Single helical gear design.
- Optionally available in double helical gear design
- Bi-directional positive displacement pump.
- With relief valve design.
- Wide Capacity range 25 LPM to 400 LPM
- Max. Temperature can be handle up to 200° C
- Can handle Max. Viscosity 25,000 CST
- Max. working pressure up to 10 kg/cm<sup>2</sup>

**Application**

- Oil filtration systems.
- Pumping and Heating systems.
- Cleaning and Cooling systems.
- Centralize lubrication systems.
- Petroleum industries.
- Machine tools industries.



**Technical Specification**

Model	Capacity in LPH at 1440 RPM	Suction & Delivery Size	Motor HP	
			3 kg/cm <sup>2</sup>	30 kg/cm <sup>2</sup>
<b>FIG - S60</b>	60	3/8" x 3/8"	0.25	1.0
<b>FIG - S90</b>	90	3/8" x 3/8"	0.25	1.0
<b>FIG - S120</b>	120	3/8" x 3/8"	0.25	1.0
<b>FIG - A150</b>	150	1/2" x 1/2"	0.25	1.5
<b>FIG - A300</b>	300	1/2" x 1/2"	0.25	1.5
<b>FIG - A450</b>	450	1/2" x 1/2"	0.25	2.0
<b>FIG - A600</b>	600	1/2" x 1/2"	0.25	2.0
<b>FIG - B1000</b>	1000	3/4" x 3/4"	0.75	3.0
<b>FIG - B1500</b>	1500	3/4" x 3/4"	0.75	3.0
<b>FIG - B2000</b>	2000	3/4" x 3/4"	0.75	5.0
<b>FIG - B2500</b>	2500	3/4" x 3/4"	0.75	5.0
<b>FIG - C3000</b>	3000	1" x 1"	1.5	7.5
<b>FIG - C4500</b>	4500	1" x 1"	1.5	10.0
<b>FIG - C6000</b>	6000	1" x 1"	1.5	15.0

**Material of Construction**

Part	Material For FIG
<b>Body</b>	IIS.210 FG 220 C.I. Grade
<b>Eccentric</b>	IIS.210 FG 220 C.I. Grade
<b>Idler Gear</b>	SAE-8620
<b>Rotor shaft</b>	SAE-8620
<b>Sealing</b>	Mechanical seal
<b>Piston</b>	EN-8
<b>Adjusting Screw</b>	EN-8
<b>Spring</b>	Spring Steel

**Features**

- Higher suction lift.
- Self priming pump and Capacity to create vacuum up to 600/650 mm hg
- Flange and Foot mounting option.
- Maximum temperature up to 200° c.
- Continues duty pump.
- Internal lubrication systems.
- Available with or without built-in pressure relief valve and external by pass.
- Pressure regulator, progressively adjustable.
- Max. Viscosity up to 500 CST
- Dimension of rotation clock wise - R
- Anti clock wise - L

**Application**

- Highly used in fuel injection Burners, Boilers, Furnaces.
- Booster application in diesel locomotive.
- Force feed lubrication.
- Eventually with separate pressure regulating valves.
- For gas oil, medium, heavy and very heavy oil.
- Filter pumping.
- Pumps for PHF units.
- Pump for hydraulic oil.
- Pump suitable for LDO, FO, HSD and LSHS.



Technical Specification

Model FTMS/FTM	Suction & Delivery Size	Capacity at 1440 RPM			Recommended Motor BHP AT 1440 R.P.M.		
		LPM	US GPM	M <sup>3</sup> /hr	Up to 3 kg/cm <sup>2</sup>	Up to 7 kg/cm <sup>2</sup>	Up to 10 kg/cm <sup>2</sup>
050 - S	1/2" x 1/2"	15	3.9	0.9	0.5	0.75	1.0
050 - M	1/2" x 1/2"	20	5.2	1.2			
100 - S	1" x 1"	30	7.9	1.8	1.0	1.5	2.0
100 - M	1" x 1"	35	9.2	2.1			
150 - S	1 1/2" x 1 1/2"	60	15.8	3.6	1.5	2.0	3.0
150 - M	1 1/2" x 1 1/2"	75	19.8	4.5			
200 - S	2" x 2"	100	26.4	6.0	3.0	5.0	7.5
200 - M	2" x 2"	125	33.0	7.5			
250 - S	2 1/2" x 2 1/2"	150	39.6	9.0	5.0	7.5	10.0
250 - M	2 1/2" x 2 1/2"	200	52.8	12.0			
300 - S	3" x 3"	250	66.0	15.0	7.5	10.0	12.5
300 - M	3" x 3"	330	87.1	19.8			
400 - S	4" x 4"	415	109.6	24.9	12.5	15.0	20.0
400 - M	4" x 4"	500	132.0	30.0			
500 - S	5" x 5"	600	158.0	36.0	15.0	25	30
500 - M	5" x 5"	750	197.5	45.0			
600 - S	6" x 6"	1000	263.0	60.0	25	30	50
600 - M	6" x 6"	1335	351.0	80.0			

Material of Construction

Part	Material For FTMS	Material For FTM
Pump Body	ICF8M [SS-316]	C.I/WCB Casting
Front Cover	CF8M [SS-316]	C.I/WCB Casting
Back Cover	CF8M [SS-316]	C.I/WCB Casting
Gland Cover	CF8M [SS-316]	C.I/WCB Casting
Rotor & Stator Shaft	AISI [SS-316]/EN-57	EN-36/SS-316
Gear	AISI [SS-316]	AISI [SS-316]
Bushes	Teflon Coated DU	Teflon Coated DU
Wear Plate	Non-Ferrous	Non-Ferrous
R.V. Housing	AISI [SS-316]	AISI [SS-316]
R.V. Piston	AISI [SS-316]	AISI [SS-316]
R.V. Spring	Spring Steel	Spring Steel
R.V. AD. Screw	EN-8	EN-8
Key	SS-304	SS-304
Sealing	"GFO" Peck/Mech. Seal	"GFO" Peck/Mech. Seal

Features

- Herringbone rotor design eliminate side thrust.
- Modified tooth profile enhance tooth life.
- Optional steam jacket pump available.
- Optionally In-built relief valve construction
- Gear is double helical design which prevent axial load.
- Corrosion prevent pump
- Max. Temperature can be handle up to 300° C
- Can handle Max. Viscosity 75,000 CST
- Max. working pressure up to 10 to 12 kg/cm<sup>2</sup>

Application

- Foam pressurizing application for fire fighting.
- High pressure coolant transfer application for machine tools.
- Handling thinner liquid at moderate measuring.
- Light fuel pressurizing application for loader and burners.
- Heavy viscous liquid transfer application like Molasses, Magma, Tar, Bitumen, Soap stock, Paints, Varnish, Suspended, Sugar juice, Vegetable oil, Printing ink, Paper pulp, Spent wash.



Technical Specification

Model FTNX/FTBX/FTVX	Suction & Delivery Size	Capacity			Recommended Motor BHP AT 1440 R.P.M.		
		LPM	US GPM	M <sup>3</sup> /hr	Up to 7 kg/cm <sup>2</sup>	Up to 14 kg/cm <sup>2</sup>	Up to 20 kg/cm <sup>2</sup>
050 - S	½" x ½"	5	1.3	0.3			
050 - M	½" x ½"	8	2.1	0.4	0.5	1.0	1.5
050 - L	½" x ½"	15	3.9	0.9			
100 - S	1" x 1"	25	6.6	1.5			
100 - M	1" x 1"	30	7.9	1.8	1.5	2.0	3.0
100 - L	1" x 1"	40	10.5	2.4			
125 - S	1¼" x 1¼"	50	13.2	3.0			
125 - M	1¼" x 1¼"	60	16.6	3.6	3.0	5.0	7.5
125 - L	1¼" x 1¼"	80	21.1	4.8			
150 - S	1½" x 1½"	100	26.5	6.0			
150 - M	1½" x 1½"	125	33.0	7.5	5.0	7.5	10.0
150 - L	1½" x 1½"	150	39.7	9.0			
200 - S	2" x 2"	165	43.5	9.9			
200 - M	2" x 2"	200	53.0	12.0	10.0	12.5	15.0
200 - L	2" x 2"	250	66.2	15.0			
250 - S	2 ½" x 2 ½"	300	79.5	18.0			
250 - M	2 ½" x 2 ½"	330	87.1	19.8	15.0	20.0	25.0
250 - L	2 ½" x 2 ½"	350	92.7	21.0			
300 - S	3" x 3"	400	106.0	24.0			
300 - M	3" x 3"	450	119.0	27.0	25.0	30.0	40.0
300 - L	3" x 3"	600	159.0	36.0			
400 - S	4" x 4"	700	185.0	42.0			
400 - M	4" x 4"	800	212.0	48.0	40.0	50.0	60.0
400 - L	4" x 4"	900	238.5	54.0			
500 - S	5" x 5"	1000	265.0	60.0			
500 - M	5" x 5"	1200	318.0	72.0	60.0	75.0	100.0
500 - L	5" x 5"	1400	371.0	84.0			
600 - S	6" x 6"	1650	435.8	99.0			
600 - M	6" x 6"	1825	482.1	109.5	100.0	120.0	150.0
600 - L	6" x 6"	2082	552.0	125.0			

Material of Construction

Part	Material For FTNX / FTVX	Material For FTBX
Pump Body	CI/CS	CI/CS
Front Cover	CI/CS	CI/CS
Back Cover	CI/CS	CI/CS
Gland Cover	CI/CS	CI/CS
Rotor/Stator Shaft	EN-19	EN-19
Gear	EN-24/EN-353	EN-24/EN-353
Needle/Bush Bearing	INA/IKO [Japan]	Non- Ferrous
Wear Plate	Non- Ferrous	Non- Ferrous
Sealing	"GFO" Pack Teflon / Mech. Seal	"GFO" Pack Teflon / Mech. Seal
R.V. Housing	Mild Steel	Mild Steel
R.V. Piston	EN - 8	EN - 8
R.V. Spring	Spring Steel	Spring Steel
R.V. AD. Screw	EN-8	EN-8
Key	EN-8	EN-8
Hex - Bolt	Mild Steel	Mild Steel

Features

- High pressure pump offered to 20 kg/cm<sup>2</sup>
- Heavy duty gear pump design for continuous application.
- Modification tooth profile enhances the tool life.
- Optionally In Floating gear design ensures uniform load distribution.
- Heavy duty gear pump double helical design prevent axial load and side thrust.
- Shorter bearing span reduces bending effect.
- Low leakage path by design improve volumetric efficiency.
- Max. Temperature 300° C
- Can handle Max. Viscosity 75,000 CST

Application

- Power plant.
- Steel plant.
- Cement plant.
- Bitumen plant.
- Petroleum industries.
- Refineries
- Pumping station.
- All kind of liquid loading and unloading.

**Technical Specification**

Pump Model	Suction & Delivery	Displacement @ 100 RPM		Max. Speed (RPM)	Pressure (kg/cm <sup>2</sup> )
		LPM	US GPM		
<b>FTLB - 100S</b>	1"	5	1.4	1000	7
<b>FTLB - 100L</b>	1"	8	2.25	1000	7
<b>FTLB - 150S</b>	1½"	12	3.38	1000	7
<b>FTLB - 150L</b>	1½"	18	4.78	1000	7
<b>FTLB - 200S</b>	2"	26	7.03	1000	7
<b>FTLB - 200L</b>	2"	38	10.15	1000	7
<b>FTLB - 250S</b>	2½"	55	14.64	1000	7
<b>FTLB - 250L</b>	2½"	79	20.87	1000	7
<b>FTLB - 300S</b>	3"	116	30.65	600	7
<b>FTLB - 300L</b>	3"	175	44.39	600	7
<b>FTLB - 400S</b>	4"	261	68.7	500	7
<b>FTLB - 400L</b>	4"	354	93.26	500	7



**Material of Construction**

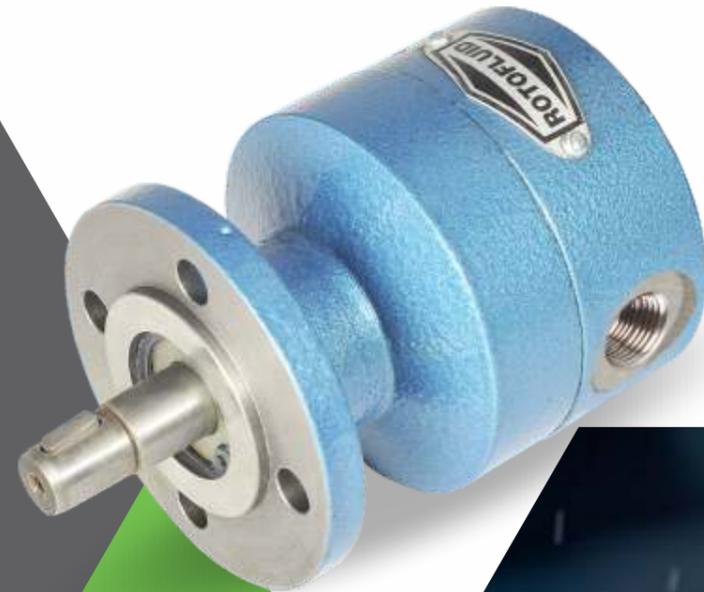
Part	Material
<b>Pump Chamber</b>	ss - 316
<b>Tri-Lobe Rotor</b>	ss - 316
<b>Top Cover</b>	ss - 316
<b>Shaft</b>	ss - 316
<b>Shaft Seal</b>	Mech. Seal
<b>Gear</b>	EN - 24
<b>Casing</b>	CI
<b>Back Cover</b>	CI
<b>Bearing Spaler</b>	CI
<b>Bearing</b>	SKF

**Features**

Working Pressure upto 7 kg/cm<sup>2</sup>  
 Size from 1" to 4" to handle flow from 5 LPM to 1062 LPM  
 Can handle maximum viscosity 2,00,000 CST  
 Designed to handle fluid at temperature upto 150°C  
 Vertical and Horizontal type.  
 High strength three pieces stainless steel construction in the pump makes its easily cleanable and maintainable.  
 Available connection is SMS Union, TC Connection and Flange.

**Application**

Food & Beverages Industry  
 Pharmaceutical Industry  
 Dyeing & Printing Houses  
 Chemical Industry  
 Cosmetic Industry



**Technical Specification**

Model	Capacity in LPM at 1440 RPM	Suction & Delivery Size	Motor Rating Required [HP]
FTMP - 0.5	0.5	1/8" x 1/8"	0.25
FTMP - 1	1	1/4" x 1/4"	0.25
FTMP - 3	3	1/4" x 1/4"	0.25
FTMP - 6	6	3/8" x 3/8"	0.5
FTMP - 10	10	3/8" x 3/8"	0.5
FTMP - 16	16	1/2" x 1/2"	1
FTMP - 25	25	1/2" x 1/2"	1.5
FTMP - 40	40	1" x 1"	1.5

**Gear Oil Pump Material of Construction**

Part	Material For FTMP
Body	IS.210 FG 220 C.I. Grade
Back Cover	IS.210 FG 220 C.I. Grade
Shaft	EN-19
Gear	Sintered Iron
Bush Bearing	Non Ferrous Sintered Bronze
Sealing	Neoprene oil Seal
Key for coupling	EN-8

**Features**

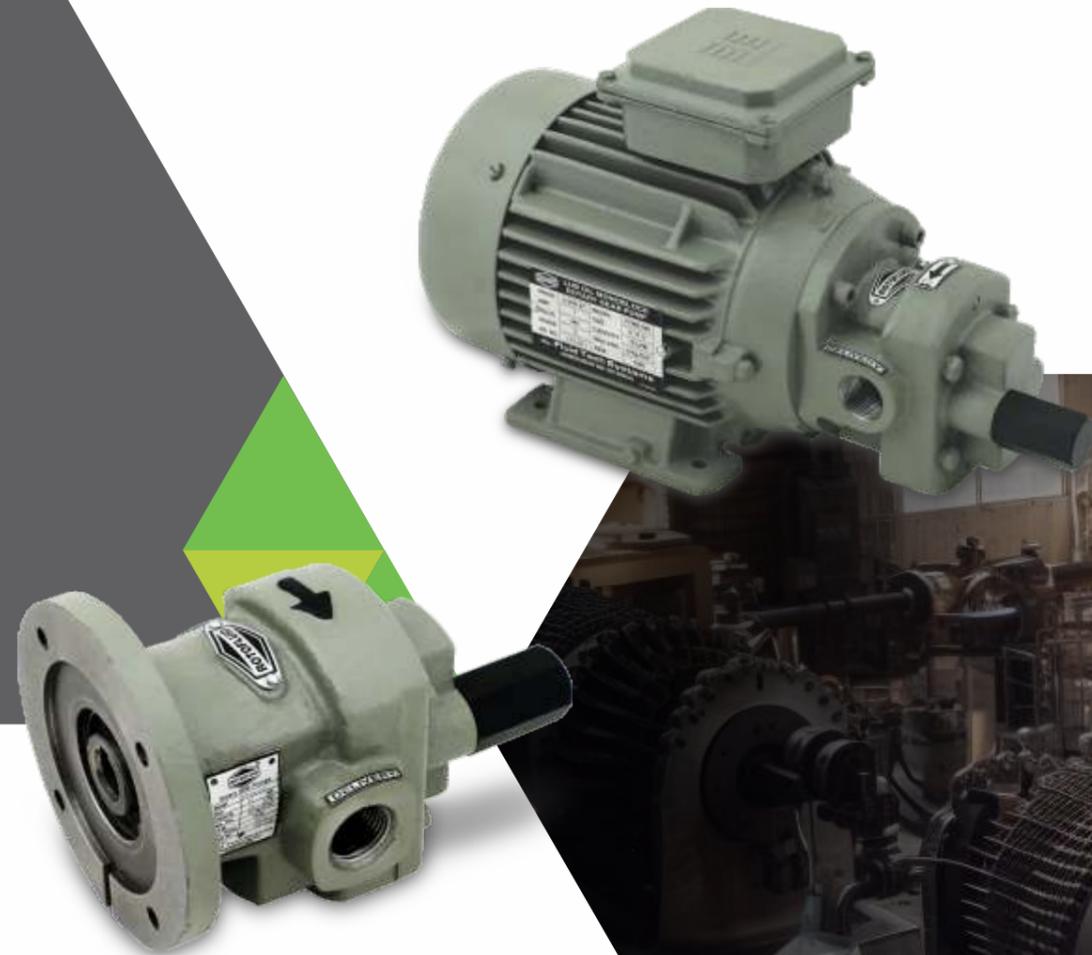
Compact in size.  
smooth running and Low noise.  
Monoblock version is available.  
Maximum suction head is 1 meter at 1500 RPM,  
keeping pressure line open.  
Max. Temperature 150° C  
working pressure up to 8 to 10 kg/cm<sup>2</sup>

**Application**

Lubrication of gear boxes.  
Lead stocks.  
Transfer of oil.  
Low pressure hydraulic power packs.  
Rotary oil fillers.  
Automobile and Machine tools.  
Heavy machineries and equipments.

**Technical Specification**

Model	Suction & Delivery Size	Capacity at 1440 RPM			Motor HP
		LPM	US GPM	M <sup>3</sup> /hr	
<b>FTHS   FTMB 050</b>	1/2" x 1/2"	15	4.0	0.9	0.5
<b>FTHS   FTMB 075</b>	3/4" x 3/4"	25	6.6	1.5	1
<b>FTHS   FTMB 100</b>	1" x 1"	50	13.2	3.0	1.5



**Material of Construction**

Part	Material For FTMB
<b>Body</b>	IS.210 FG 220 C.I. Grade
<b>Back Cover</b>	IS.210 FG 220 C.I. Grade
<b>Rotor/Stator Shaft</b>	EN-19
<b>R.H. &amp; L.H. Gear</b>	EN-8
<b>R.V. Spring</b>	Spring Steel
<b>Bearing [Bushes]</b>	Non Ferrous Sintered Bronze
<b>Sealing</b>	Neoprene oil Seal
<b>R.V. Cap</b>	Aluminum
<b>Key for coupling</b>	EN-8

**Features**

- High reliable.
- Easily portable.
- Base plate, Coupling, Coupling Guard is not required.
- Compact size and Space saving model.
- In built relief valve available.
- Self priming pump.
- Bi-direction positive displacement pump.
- Ensure perfect alignments.
- Max. Temperature 150° C
- Can handle Max. Viscosity 25,000 CST
- Max. working pressure up to 5 kg/cm<sup>2</sup>

**Application**

- Machine tools application.
- Pre-Lubrication of engines.
- Transfer of oil.
- Lubrication of gear boxes.



**Features**

- Self Priming pump.
- Bi-directional positive displacement pump.
- High Efficiency.
- Low noise.
- Spur gear design.



**Material of Construction**

Part	Material For FTCP
Body	IS.210 FG 220 C.I. Grade
Back Cover	IS.210 FG 220 C.I. Grade
Rotor/Stator Shaft	EN-19
Gear	EN-8
Bearing [Bushes]	Non Ferrous Sintered Bronze
Sealing	Neoprene oil Seal
Key for coupling	EN-8

**Application**

Heavy duty stone crusher machine.



**Technical Specification**

Model	Suction & Delivery Size	Capacity at 1440 RPM			Recommended Motor HP		
		LPM	US GPM	M <sup>3</sup> /hr	Up to 3 kg/cm <sup>2</sup>	Up to 7 kg/cm <sup>2</sup>	Up to 10 kg/cm <sup>2</sup>
FTGM - 025	1/4" x 1/4"	2.5	0.6	0.1	0.25	0.35	0.5
		5	1.3	0.3			
FTGM - 050	1/2" x 1/2"	10	2.6	0.6	0.5	0.75	1.0
		20	5.2	1.2			
FTGM - 075	3/4" x 3/4"	25	6.6	1.5	0.75	1.0	1.5
		30	7.9	1.8			
FTGM - 100	1" x 1"	35	9.2	2.1	1.0	1.5	2.0
		50	13.2	3.0			
FTGM - 125	1 1/4" x 1 1/4"	75	19.8	4.5	1.5	2.0	3.0
FTGM - 150	1 1/2" x 1 1/2"	110	29.0	6.6	2.0	3.0	5.0
FTGM - 200	2" x 2"	225	59.4	13.5	3.0	5.0	7.5
FTGM - 250	2 1/2" x 2 1/2"	350	92.5	21.0	5.0	10.0	12.5
FTGM - 300	3" x 3"	500	132.0	30.0	10.0	15.0	20.0



**Material of Construction**

Part	Material For FTGM
Pump Body	85555 Gunmetal Cast
Back Cover	85555 Gunmetal Cast
Gland Cover	85555 Gunmetal Cast
Rotor/Stator Shaft	SS - 316
Gear	SS - 316
Bush	Non Ferrous Sintered Bronze
Sealing	"GFO" Pack Teflon
Key	EN - 8
Hex - Bolt	Mild Steel

**Features**

- Simple and Efficient design.
- Single helical gear design.
- Low noise.
- Wide capacity range. 2.5 LPM to 500 LPM
- Max. Temperature can be handle up to 200° C
- With relief valve design.
- High efficiency.
- Optionally available in double helical gear design.
- Self priming pump.
- Bi-direction positive displacement pumps.
- Can Handle Max. Capacity 25000 CST
- Working Pressure Up to 10 kg/cm<sup>2</sup>

**Application**

- Paints industries
- Colours loading and unloading.



**Features**

- Compact and Simple design.
- Foot and Flange mounting options.
- Self priming pump.
- Bi-directional positive displacement pump.
- With relief valve design.
- Optional high temperature version up to 200° c
- Flange end construction at suction & Delivery.
- Low cost.



**Material of Construction**

Part	Material For FTFX
Body	IS.210 FG 220 C.I. Grade
Back Cover	IS.210 FG 220 C.I. Grade
R.H. & L.H. Gear	EN-8
Rotor/Stator Shaft	EN-19
Bearing [Bushes]	Non Ferrous Sintered Bronze
Sealing	"GFO" Pack Teflon
R.V. Cap	Aluminum
Key for coupling	EN-8

**Application**

- Widely used in Bitumen Application
- Bitumen loading and unloading.

Bitumen jacket med gear pump

Series  
**FTDP**



**Application**

- Bitumen
- Coal Tar
- Asphalt
- Wax
- Grease
- High Viscous Liquid
- Adhesive
- Molasses
- Silicate

**Material of Construction**

Part	Material For FTDP
Pump Body	S.G.I.N Casting
Front Cover	S.G.I.N Casting
Gland Cover	Graded casting
Rotor/Stator Shaft	EN - 8
Gear	EN - 8 / Graded Casting
Bush	Non Ferrous Sintered Bronze
Sealing	"GFO" Pack Teflon
Key	EN - 8
Hex - Bolt	Mild Steel

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