CREATIVE ENGINEERS

www.malharpumps.com



"LOBE" PUMPS

A range of High Quality Hygienic Stainless Steel Positive Displacement Pumps for use in the food Process Industries

SALIENT FEATURES

- These Pumps are meant for high Mechanical Efficiency means less energy Consumption, Lower Cost Smaller Motors, Lower Drive Costs.
- •Easy-clean pump of head which is ideal for in place cleaning, or can be rapidly stripped for manual cleaning, without disconnecting the pipe work.
- •Positive, Uninterrupted Displacement by specially designed rotors creates a steady, gentle pumping action which does not shear, agitate or aerate the product.
- Pumping chambers are without pockets or crevices to harbor bacteria or contaminants. No Contact between moving parts and no internal bearings in the pump head.
- •Solid stainless steel, ASI 316 quality, pump head, rotors and shafts. Food quality rubber covered and plastic rotors are also available.
- Robust, Cast Iron gear case enclosing oil Lubricated rolling bearings are precision timing gears.
- Generous distance separating the pump head from the gear case.
- End Connection / Port Flanged / Threaded Customized.



TYPICAL APPLICATIONS FOR POSITIVE DISPLACEMENT

• Dairy :

Cream, Milk, Cheese, Curd & Whey, Cottage, Cheese, Yogurt, Margarine, Butter

· Bakery:-

Batters, Flavorings, Frostings, Fruit Fillings, Fat & Oils , Sweeteners , Yeast Slurry Dough.

Meat Packing:

Meat-Emulsions, Ground Meat, Pet Foods, Extracts, Minced Meat, Sausage Meat.

• Beverage:

Beer, Wort, Yeast, Alcohols & Wines soft Drinks, Fruit Concentrates, Fruit Drinks, Essences.

Pharmaceutical:

Pill Pastes, Syrup, Slurries, Extracts, Latex Emulsion.

· Canning :-

Tomato Paste, Fruit Paste, Cream Style, Vegetables, slurries, Puddings, Jams, Jellies, Salads Dressings, Mayonnaise, Baby Foods, Soups, Stews.

Confectionery :

Syrups, Cream Fillings, Chocolates, Coffee Caramel.

• Cosmetics:

Heand & Face Creams , Lotion Shampoos , Dyes , Alcohols , Essential Oils.

MODEL PORT CONNECTION		MAXIMU	M HEAD	MAX	PUMP MAX CAPACITY		
	CONNECTION	BAR PSI			LPM	IGPM	
LOBE-100	25 MM (1")	7	100	960	100	22	
LOBE-150	38 MM (11/2")	7	100	960	100	35	
LOBE-200	50 MM (2")	7	100	720	300	67	
LOBE-250	65 MM (21/2")	6	87	720	450	100	
LOBE-300	80 MM (3")	7.6	87	600	480	110	
LOBE-400	100 MM(4")	5	72	600	750	168	

OPTIONS

- Manual Control By-pass
- Relief Valve
- Jacked Rotor case
- Electric Heating Tapes
- Trolley









"SEG" SERIES

APPLICATION

EXTERNAL GEAR PUMP

- "MALHAR" Rotary gear pumps are useful for handling following viscous and semi viscous liquid.
- Clean lube oil, Castor oil, Coconut oil, Ground nut oil, Cotton seed oil and Hydraulic oil.
- All kind of vegetable oils.
- Paints & Varnish, Viscous Chemical, Printing Ink.
- · All Kind of fish and animal oils.
- · Soap Solutions, Glycerin, Glycol and Glue
- Sugar molasses and syrups.
- Rotary gear pumps are widely used in paper mills, refineries,
 Steel mills and textile Industries.









FEATURES

- All Positive displacement rotary gear pumps are self priming pumps with suction lift of 5 meters at mean viscosity and speed 1440 rpm
- The SEG series of MALHAR pump has a modified profile of teeth to give accurate discharge within the pressure range .
- The helical gear design delivers constant volume without any pulsation. It also reduces internal slippage and gives high volumetric efficiency.
- Compact in size and highly economical
- All these are self lubricated pumps recommended for use where the liquid to be transferred has lubrication properties hence the bearing is lubricated by the pumping fluid and do not need any external lubrication.
- Easy maintenance due to availability and interchangeability of spares.
- All MALHAR gear pumps are designed and assembled with close tolerances to reduce the mechanical losses, thus it consumes lesser power and operates at higher efficiency.







RANGE

Pressure : Up to 10 Kg/Cm²
 Discharge : 10 LPM to 500 LMP
 Pipe Size : 1/4" BSP to 3" BSP

CAST	IRON CONSTRUCTION	STAINLESS STEEL CONSTRUCTION			
Pump Body Back / RV Cover Gears Gear Design Shaft Shaft Seal PRV Temperature Bush Bearings Special Note	CI Gr. FG 200 CI Gr. FG 200 EN-8 Single Helix En-8 H & G Oil Seal STD Steel IN Built 80°C Self-Lubricated Sntered In Built Reief valves provided in	Pump Body Covers Gears Gear Design Shaft Shaft Seal Mouting Bracket Temperature Limit Bush Beatings	CF-8M (SS-316) CF-8M (SS-316) SS-316 Nitrided Spur type Single Helix SS-316 Nitrided PTFE Gland Packing / Mechanical seal (C/TC or C/SC) Cast Iron L-Type 150°C PRFE Coated DU / PTFE Coated DU / Bronze CFT-PTFE		

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"SEG" SERIES

CAST IRON PUMP PERFORMANCE TABLE

	1	1												
MODEL SUC DEL		CAPACITY		PRESSURE IN KG/CM ²							NET WEIGHT			
	MM	MM LPM		1	2	3	4	5	6	7	8	9	10	KGS
			R	MOTOR REQUIRED IN HP (SPPED 1440 RPM)										
SEG-5	10 X 10	5	0.6	0.25	0.25	0.25	0.25	0.50	0.50	0.50	0.50	0.75	0.75	2.400
SEG-20	15 X 15	20	1.2	0.50	0.50	0.50	0.50	0.75	0.75	0.75	0.75	1.00	1.00	2.800
SEG-30	20 X 20	30	1.8	0.50	0.50	0.75	0.75	0.75	1.00	1.00	1.00	1.50	1.50	5.000
SEG-50	25 X 25	50	3	0.50	0.75	0.75	1.00	1.00	1.50	1.50	1.50	2.00	2.00	6.000
SEG-75	32 X 32	75	4.5	1.50	1.50	1.50	2.00	2.00	2.00	3.00	3.00	3.00	3.00	8.000
SEG-110	40 X 40	110	6.6	1.50	2.00	3	3.00	3.00	3.00	5.00	5.0	5.00	5.00	11.000
SEG-225	50 X 50	225	13.5	3.00	3.00	5	5.00	5.00	5.00	7.50	7.50	7.50	12.50	18.500
SEG-350	65 X 65	350	21	5.00	7.50	7.50	10.00	10.00	10.00	12.50	12.50	15.00	15.00	29.000
SEG-500	80 X 80	500	30	7.50	10.00	10	12.50	12.5	15.00	15.00	20.00	20.00	20.00	45.000

SS-316 PUMP PERFORMANCE TABLE

MODEL	SUC DEL MM	CAPA	CITY	POWER REQUIREMENTS IN AT KG/CM ² DIFFERENT PRESSURE AT 500 SSU VICOCITY LUB OIL			WT OF PUMP IN KGS (APPROX)	
		LPM	M³/HR	02 KG/CM ²	04 KG/CM ²	08KG/CM ²	(* * * * * * * * * * * * * * * * * * *	
SSEG-025	10 X 10	5	0.3	0.25	0.25	0.75	3.5	
SSEG-50R	15 X 15	15	0.9	0.5	0.5	1.0	3.8	
SSEG-50	15 X 15	25	1.5	0.5	1.0	1.5	4.0	
SSEG-100	25 X 25	50	3	1.0	1.5	2.0	6.0	
SSEG-125	32 X 32	80	4.8	2.0	3.0	5.0	11.0	
SSEG-150	40 X 40	125	7.5	2.0	3.0	5.0	15.0	
SSEG-200R	50 X 50	150	9	3.0	5.0	7.5	21.0	
SSEG-200	50 X 50	200	12	5.0	7.5	10.0	22.0	

SPEED	CAPACITY
1500 RPM	100 %
1000 RPM	66 %
750 RPM	50 %
500 RPM	33 %
380 RPM	25 %
300 RPM	20 %
200 RPM	13 %
150 RPM	10 %
	1500 RPM 1000 RPM 750 RPM 500 RPM 380 RPM 300 RPM 200 RPM



