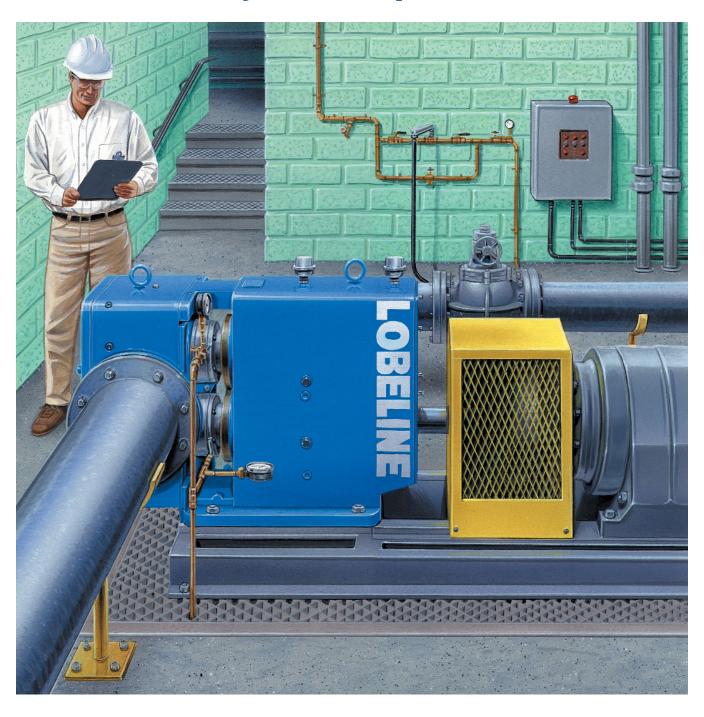


LOBELINE™ Rotary Lobe Pumps





LOBELINE™ is designed for superior pumping capabilities in a wide range of industrial applications. Choose from 8 models, each available in 12 sizes to suit a variety of operating conditions. Both bare pump and complete pump and drive packages are available. With interchangeable seal arrangements and a selection of wet end metallurgies and designs for your specific application, LOBELINE offers the perfect engineered pumping solution to meet your needs.

LOBELINETM

Heavy-Duty, Self-Priming Industrial Rotary Lobe Pumps

- Capacities to 2310 GPM (524 m³/hr)
- Pressures to 150 PSIG (10 bar)
- Temperatures to 212° F (100° C)
- Fluid Viscosities up to 1,000,000 cps

LOBELINETM

is a Positive Displacement Pump with the following operational features:

Pump Runs Dry

Non-contacting pumping elements allows periodic use without fluid. Excellent for fluid transfers from tank to tank. Requires no flow indication equipment as used on Screw (Progressive Cavity) pumps that would cease and malfunction if run dry.

Low Shear Action

Smooth tri-lobe geometry provides gentle rolling action enabling shear sensitive fluids to be pumped with minimal damage.

Reversible Flow

Ability to utilize pump in both directions excellent for purging lines or changing pumping system requirements enabling greater process control.

Gas/Air Entrained Fluids

Lobe design can easily handle fluid containing gas/air. Centrifugal pumps are low on efficiency and are prone to losing prime.

Pump Jamming

With LOBELINE simply remove the front cover plate to inspect or clear the pump blockage. Many other pump types such as Screw (Progressive Cavity), Flexible Member (Hose), Plunger, Diaphragm if jammed require substantial disassembly to simple inspect or clear blockages.

Solids Handling

Ability to handle incompressible solids up to 3½" (90mm) suspended within the fluid.

Metering/Controlled Flow

Provides smooth predictable flow with minimal pulsation or surging when faced with varying pressures. Does not require pulsation dampeners like Plunger, Diaphragm type pumps.

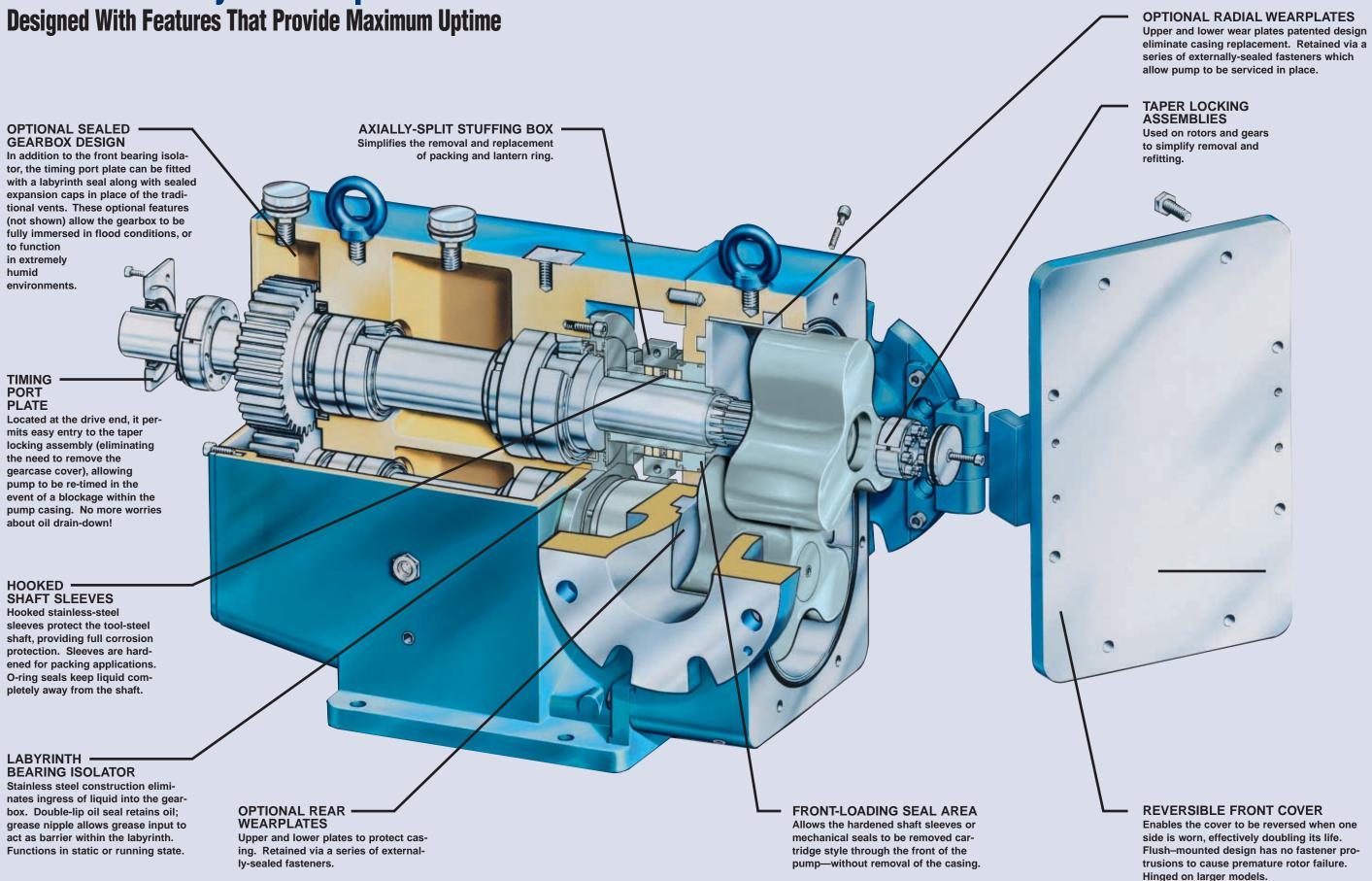
Power Consumption Expense

Lobe pumps require less power due to the non-contacting design. Screw (Progressive Cavity) due to their design require higher start up and running horsepower. Centrifugal pumps require increased power on viscosities greater that 300-500 cps.

Pump Installation Space Problem

Lobe pumps require substantially less floor space than traditional Screw (Progressive Cavity and Plunger type pumps.

LOBELINE™ Rotary Lobe Pump



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m 3}$

LOBELINE™...State-of-the-art Rotary Lobe Pumps

For Use in a Wide Variety of Applications

Pulp and Paper

- Paper Coating
- Tio₂ Pigment
- Clay Slurry
- Calcium Carbonate Slurry
- Latex
- Starch Slurry
- Paper Pulp
- Bio Solids Waste Sludge
- Soap Scums
- Resins



Process Maintenance Alternative To

- Conventional Lobe Pumps
- Gear Pumps
- Progressive Cavity Pumps
- Plunger Pumps
- Centrifugal Pumps
- Diaphragm Pumps
- Hose (Peristaltic) Pumps

Typical Processes

- Fluid Transfer/Handling
- Blending/Metering
- Dewatering Feed
- Thickening Feed/Discharge
- Tanker Loading/Unloading

Water & Wastewater Industry

- Grease & Scum
- Primary, Secondary, & Tertiary Sludge Transfer
- Waste Activated Sludge
- Alum Sludge
- Lime Sludge
- Polymer Solution
- Chemical Sludge
- Return Activated Sludge
- Digested Sludge





Chemical Industry

- Polymer Solutions
- Polymer Resins
- Caustic Solutions
- Lime Sludae
- Bio Waste Sludge
- Nylon Waste Sludge
- Gelatin Solution

Sugar Industry

- Calcium Carbonate Slurry
- Massecuites
- Magmas
- Thick Juices
- Molasses
- Crystaline Sugar Syrup
- Sugar Syrups
- Waste Śludge

Petrolium/ Oil Industry

- Oilv Water
- Waste Oil Sludge
- Heavy Crude Öil
- Refinery Waste
- Waste Lube Oil Sludges

General Industry

- Paint Industry
 - Waste Sludges
 - Bulk Pigment Transfer
- Cosmetics Industry
 - Raw Materials Handling Soap, Shampoo Waste Sludges
- Metals Industry
 - Coal Tar
 - Waste Sludge
- Mining Industry
 - Concentrate Thickener Underflows
- Food Processing Industry
 - Raw Material Handling
 - Tomato Pastes
 - Concentrated Fruit Juices
 - Meat Processing
 - Waste Products

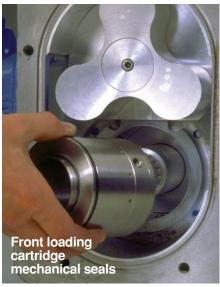
LOBELINE™ the Maintenance Friendly Pump





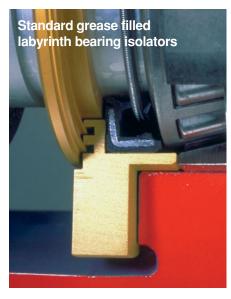












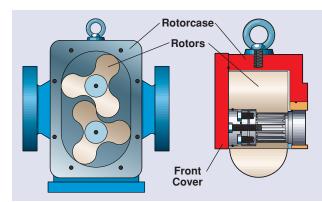




Construction and Materials to Suit Your Application

For Pumping Viscous Fluids with:

Shear Sensitivity • Low Lubricating Properties • Require Dry Running, Non-contacting Pumping Action



None – Low Abrasive Applications



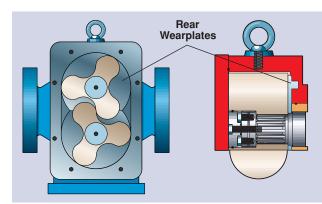
Non-corrosive Services

Rotorcase: Ductile Iron Rotors: Elastomer Covered, Solid Ductile Iron Front Cover: Carbon Steel

Corrosive Services

Rotorcase: 316 Stainless Steel Rotors: Elastomer Covered, Solid 316 Stainless Steel

Front Cover: 316 Stainless Steel



Moderate Abrasive Applications



Model Non-corrosive **Services**

Rotorcase: Ductile Iron Rotors: Flastomer Covered Solid Ductile Iron Front Cover: Reversible

> Hardened Carbon Steel Rear

Wearplates: Hardened Carbon Steel



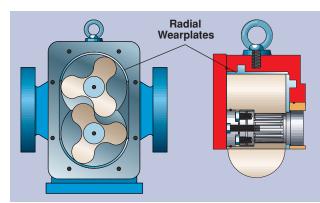
Model Corrosive **Services**

Rotorcase: 316 Stainless Steel Rotors: Flastomer Covered Solid 316 Stainless Steel

Front Cover: Reversible

Duplex Stainless Steel Rear

Wearplates: Duplex Stainless Steel



Severe Abrasive Applications



Model Non-corrosive Services

Rotorcase: Ductile Iron Rotors: Elastomer Covered, Solid Ductile Iron

Front Cover: Reversible

Hardened Carbon Steel

Rear

Wearplates: Hardened Carbon Steel . Radial

Wearplates: Hardened Carbon Steel



Model Corrosive **Services**

Rotorcase: 316 Stainless Steel Rotors: Elastomer Covered, Solid 316 Stainless Steel

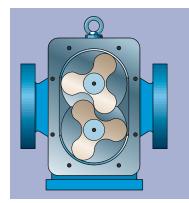
Front Cover: Reversible Duplex

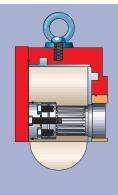
Stainless Steel

Rear Wearplates: Duplex Stainless Steel

. Radial

Wearplates: Duplex Stainless Steel





Extreme Abrasive Applications



Non-corrosive Services

Rotorcase: Consult Factory Rotors: Consult Factory Front Cover: Consult Factory Rear

Wearplates: Consult Factory Radial

Wearplates: Consult Factory



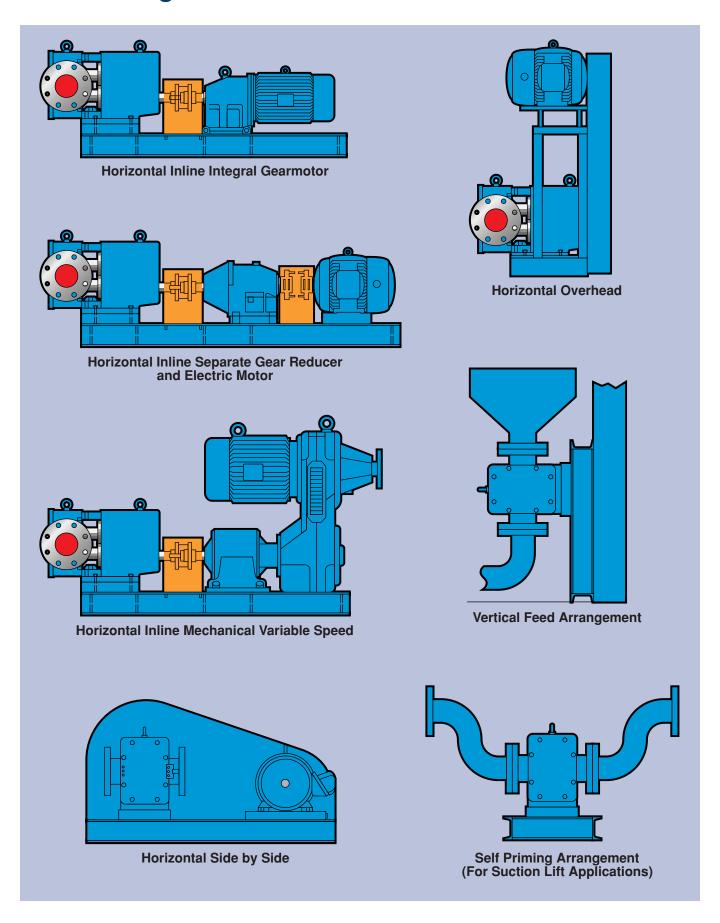
Corrosive Services

Rotorcase: Consult Factory Rotors: Consult Factory Front Cover: Consult Factory Rear

Wearplates: Consult Factory Radial

Wearplates: Consult Factory

Drive Arrangement Possibilities LOBELINE™



Selection Chart

Size	Displacement		Max. Differential Pressure Water		Suction/ Discharge Connection		Max Speed Water
	US gal / 100 rev	Litres / 100 rev	psi	bar	inches	mm	RPM
30	30	114	150	10	3	75	750
45	45	170	75	5	4	100	500
60	60	227	150	10	4	100	500
75	75	284	75	5	6	150	500
110	110	416	150	10	6	150	500
135	135	511	75	5	6	150	500
160	160	606	150	10	6	150	500
185	185	700	75	5	6	150	500
220	220	833	150	10	6	150	500
330	330	1250	75	5	8	200	500
440	440	1665	150	10	10	250	500
660	660	2498	75	5	12	300	350

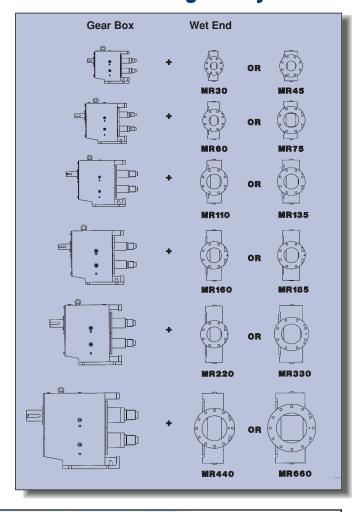
LOBELINE™ Industrial Pumps offer:

- Flow rates up to 2310 GPM (524 m³/hr)
- Differential pressures up to 150 psi (10 bar)
- Fluid viscosities up to 1,000,000 cps
- Fluid temperatures up to 212°F (100°C)
- 8 models with a selection of wet end metallurgies and designs
- 12 sizes to suit a wide range of operating conditions
- Interchangeable seal arrangements

■ Bare pump or complete pump-anddrive packages available



Wet End Interchangeability



Plant:

SWABY Lobeline Pump Co.

921 Seaco St. Deer Park, TX 77536 Tel. (281) 479-7500

Fax: (281) 479-1181

Visit our website at www.swabypump.com



SWABY Pumps, Since 1893 Made In U.S.A. 5420 West Roosevelt Road Chicago, Illinois 60644 Tel: (773) 626-1400

Fax: (773) 626-3646



Email: swabypump@msn.com