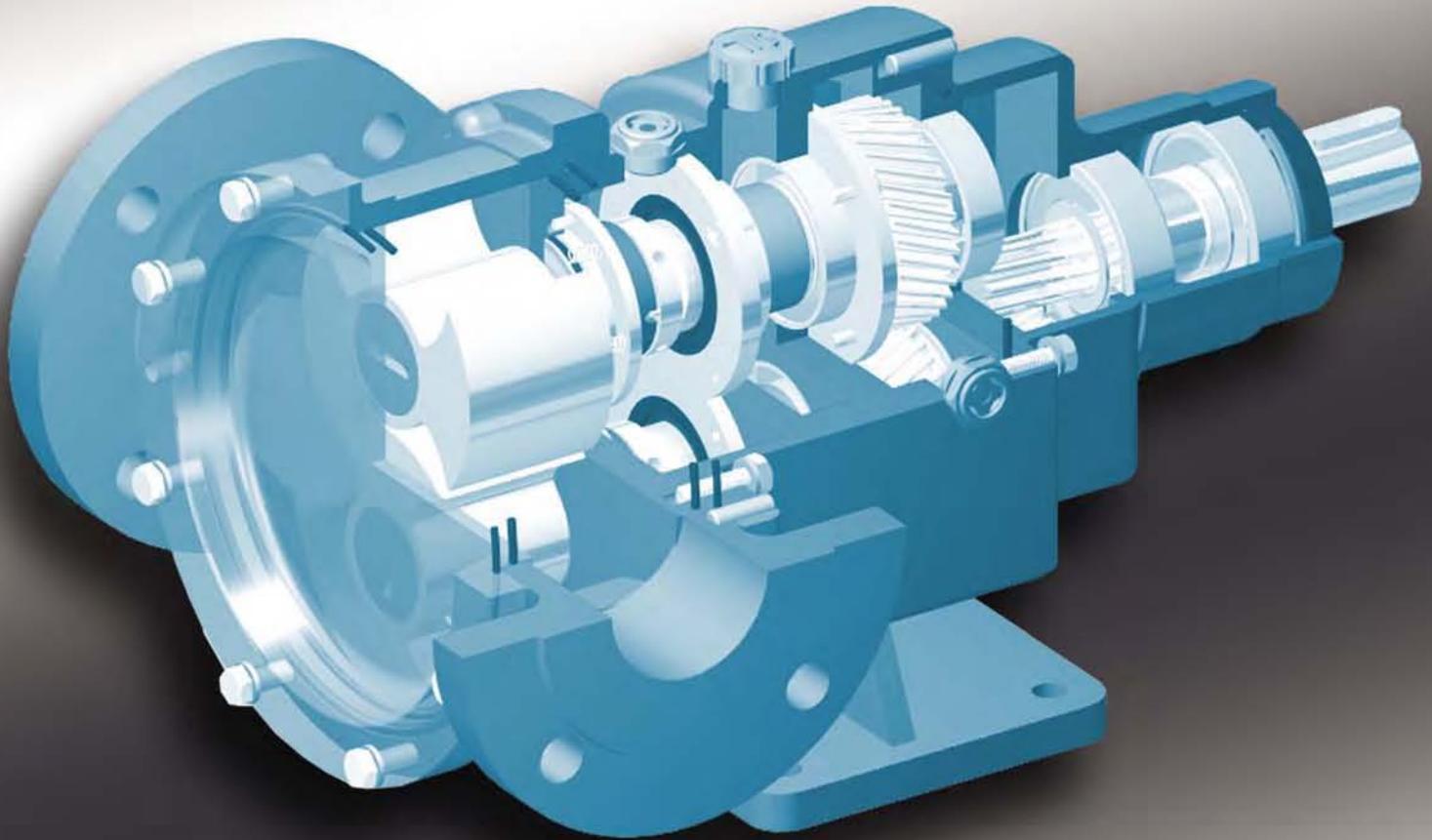


MEGATOR LOBE PUMP



Specializing in pumping fluids that are high viscous, abrasive and laden with solids while ensuring a low life cycle cost

Lobe Flex Pump Specifications

Pumping fluids that are highly viscous, abrasive, laden with solids or all of these things is the daily task for the Megator Lobe pump.

Due to a number of carefully engineered features, the Megator Lobe Flex manages such a task while ensuring a low life cycle cost.

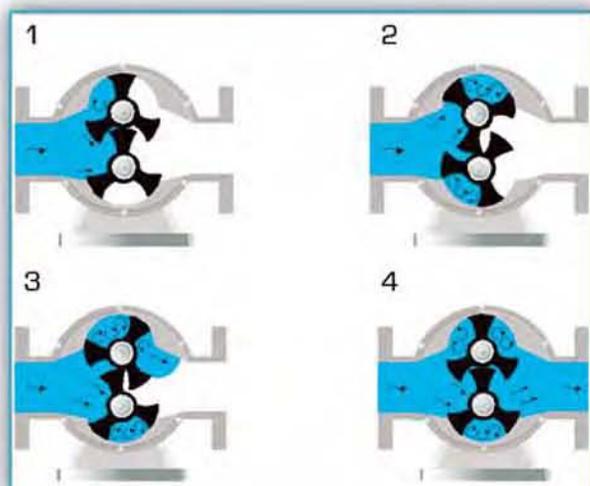
- Capacity up to 350m³/h
- Solids up to 61mm
- Differential pressure up to 30bar
- Viscosity up to 1,000,000cp
- Temperatures up to 450 deg. C
- Pipe Diameter 1" to 10"
- Seal system : lip seals, double mechanical seals, single mechanical seals, stuffing box and a combination of these seal types
- Casing : AL7075 (for skimmer pumps), FCD45, Bronze, SUS316, SUS316L, Hastelloy B, Titanium, Monel, etc.
- Rotors : Elastomer compounds, SUS316, Bronze, Teflon, PVDF, MC Nylon, Hastelloy B, etc.

The gentle action of the two interacting rotors creates a fluid movement through the pump, with minimal damage to suspended particles. Various types of rotor materials can be used, combined with a wide range of materials for all other wetted parts, resistance to wear and corrosion are obtained.

The special design of the Megator Lobe pump allows dry running, as the standard mechanical/lip - seal system is constantly lubricated. The same lubrication acts as a seal detector, allowing the user to react swiftly in case of any leaks occurring.

Typical fluids handled with the Megator Lobe Pump are:

- Sludge with high dry solids content
- Mud slurries
- Chemicals
- Centrifuge feed fluid
- Meat offal
- Cement slurry
- Gypsum, sauces with vegetables
- Marmalade etc.



How the Rotary Lobe Pump Works

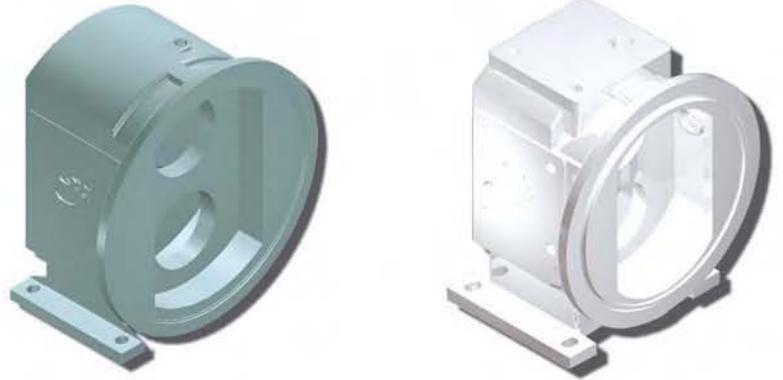
As the lobes disengage, they create an increasing volume on the inlet side of the pump. Liquid flows into the cavity and is trapped by the lobes as they rotate.

Liquid travels around the interior of the casing in the areas between the lobes and the casing - Liquid does not flow between the lobes.

As the lobes re-engage, the liquid is forced through the outlet port under pressure.

Gearbox

The timing gear of the Lobe Pump uses highly wear resistant heat treated gear wheels to ensure a high torque transfer capability, as well as a low noise level.



Casing

A wide selection of construction materials are available for the Lobe Pump. This means that maximum life span of the pump is secured even with highly corrosive and abrasive fluids. For highly abrasive fluids, the Lobe can be supplied with wear resistant liners on both front and rear cover.



Shaft & Bearings

The robust bearing and shaft design help the Lobe Pump to withstand the stress of high pressure pumping. Up to 30 bar pressure loss can be overcome, due to the rigid and sturdy design.



Rotors and Elastomers

The large inlet and outlet ports ensures an undisturbed flowpath in and out of the pump. Shear sensitive fluids are thereby transported with maximum care, and with minimal damage. Further to this, the combination of the 'so called' "bucket shaped rotors" and the large ports ensures that a high degree of suction can be achieved where required. Very high viscosities and large particles can be handled while avoiding damage from cavitation or wear.



A range of rotors are offered : 2- or 3-vane, elastomer or metallic.

Megator ensures that the manufacture of all their elastomers are of the highest level of quality and uses only optimum compounds.

Speed Reducer



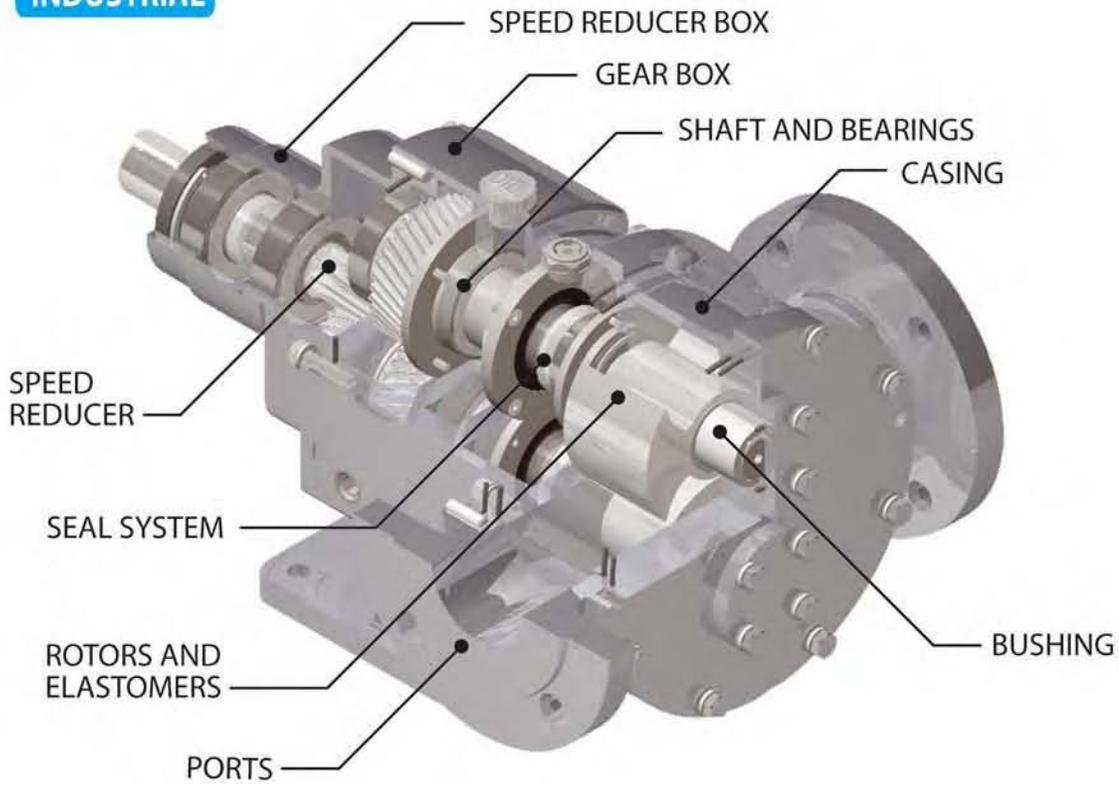
Optionally the lobe pump may be supplied with an integrated speed reducer, making it possible to drive the pump with a standard electrical motor. This eliminates the need for the more costly gearmotor.

Seal Systems

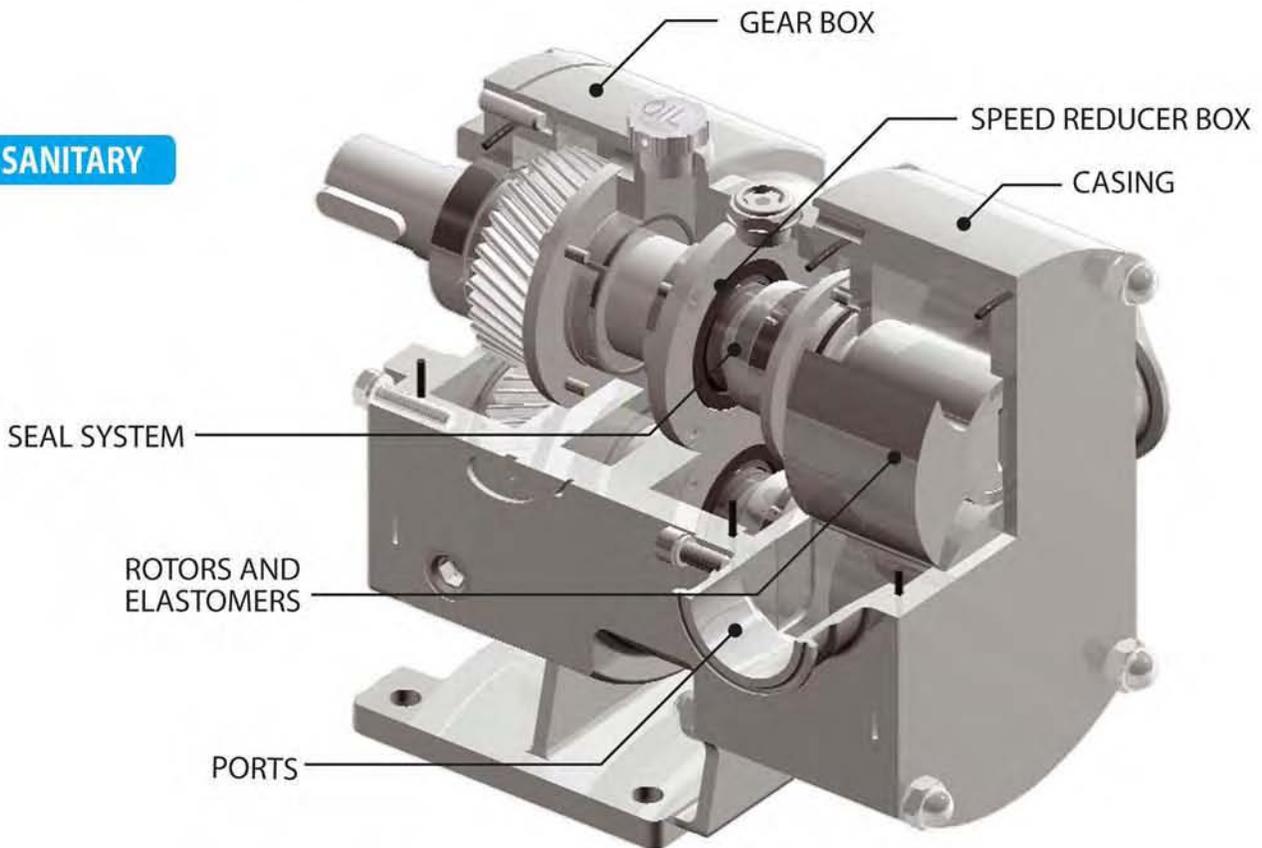
Megator can offer several special mechanical seal designs for even high viscosities, as well as a sturdy and simple lipseal design.



INDUSTRIAL



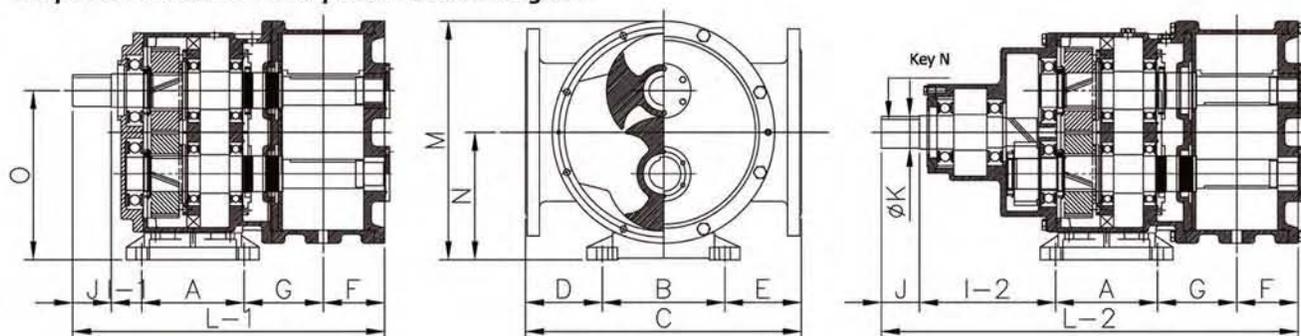
SANITARY



Standard Ratings

MODEL	INLET/ OUTLET DIA.	PRESSURE (kg/cm ² g)	FLOW (l/m)							Per 1Rev
			VANE	960rpm	725rpm	580rpm	480rpm	380rpm		
MLP-L20	25	10	2	62	47	38	31	25	64cc	
MLP-L25	25	15	2	82	62	50	41	33	85cc	
MLP-L32	32	15	2	105	79	64	53	42	109cc	
MLP-L40	40	30	2	214	161	129	107	85	222cc	
MLP-L50	50	30	2	300	227	181	150	119	312cc	
MLP-L65	65	30	2	400	302	242	200	158	416cc	
MLP-L80	80	30	2		519	415	343	272	715cc	
MLP-L100	100	30	2		728	575	475	377	990cc	
MLP-L120	125	30	2		1037	830	687	544	1430cc	
MLP-L125	125	30	2		1506	1205	997	790	2077cc	
MLP-L150	150	30	2		2034	1627	1347	1066	2805cc	
MLP-L200	200	30	2			2978	2466	1953	5137cc	
MLP-L250	250	30	2			4172	3453	2733	7192cc	

For pressure above 15 bars please contact Megator

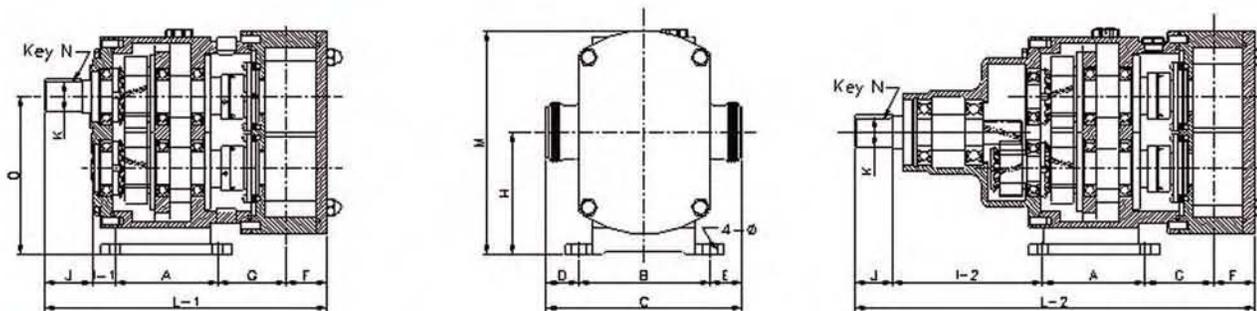

Dimension of Pump

MODEL	A	B	C	D	E	F	G	H	I-1	I-2	J	K	L-1	L-2	M	N	O	4-fl
	units : mm																	
MLP-L20	100	100	230	55	55	36	64	100	29	127	30	22	259	357	180	7X7	126.5	9
MLP-L25	100	100	230	55	55	36	64	100	29	127	30	22	259	357	180	7X7	126.5	9
MLP-L32	100	100	230	55	55	40	68	100	29	127	30	22	267	365	180	7X7	126.5	9
MLP-L40	110	140	290	65	65	46	70	132	30	156	42	32	298	424	242	10X8	171	11
MLP-L50	110	140	290	65	65	52	78	132	30	156	42	32	311	437	242	10X8	171	11
MLP-L65	110	140	290	65	65	60	85	132	30	156	42	32	326	452	242	10X8	171	11
MLP-L80	135	165	360	92	92	68	100	160	51	189	55	38	409	547	293	10X8	209	13
MLP-L100	135	165	360	92	92	80	113	160	51	189	55	38	434	572	293	10X8	209	13
MLP-L120	135	165	360	92	92	100	133	160	51	189	55	38	474	612	293	10X8	209	13
MLP-L125	180	210	440	115	115	89	110	200	48	224	70	52	497	673	373	16X12	265.2	17
MLP-L150	180	210	440	115	115	106	127	200	48	224	70	52	531	707	373	16X12	265.2	17
MLP-L200	200	240	542	170	170	120	155	250	60	266	75	62	610	816	467	16X12	331.5	22
MLP-L250	200	240	542	170	170	160	195	250	60	266	75	62	690	896	467	16X12	331.5	22

Standard Ratings

MODEL	INLET/ OUTLET DIA.	PRESSURE (kg/cm ² g)	FLOW (l/m)						
			VANE	960rpm	725rpm	580rpm	480rpm	380rpm	Per 1Rev
MLP-1S	23	15	2	92	69	56	46	37	95cc
MLP-1.5S	35.7	15	2	135	102	82	68	54	140cc
MLP-1.5SL	35.7	30	2	279	211	169	140	111	290cc
MLP-2S	47.8	30	2	356	269	215	178	141	370cc
MLP-2SL	47.8	30	2		428	343	284	225	590cc
MLP-2.5SL	60.5	30	2		515	412	341	270	710cc
MLP-3S	72.3	30	2		638	511	423	335	880cc

For pressure above 15 bars please contact Megator



Dimension of Pump

MODEL	A	B	C	D	E	F	G	H	I-1	I-2	J	K	L-1	L-2	M	N	O	4-fl
	units : mm																	
MLP-1S	100	100	154	27	27	31	48	100	29	127	30	22	238	336	181	7X7	126.5	11
MLP-1.5S	100	100	154	27	27	37	56	100	29	127	30	22	252	350	181	7X7	126.5	11
MLP-1.5SL	110	140	210	35	35	40	58	130	24.5	161	40	32	257	355	243	7X7	171	13
MLP-2S	110	140	210	35	35	44	73	130	24.5	161	40	32	302	428	243	10X8	171	13
MLP-2SL	135	165	252	43.5	43.5	48	84	160	51	203	50	38	368	520	295	10X8	209	14
MLP-2.5SL	135	165	252	43.5	43.5	54	89	160	51	203	50	38	379	531	295	10X8	209	14
MLP-3S	135	165	252	43.5	43.5	61.5	96.5	160	51	203	50	38	394	546	295	10X8	209	14

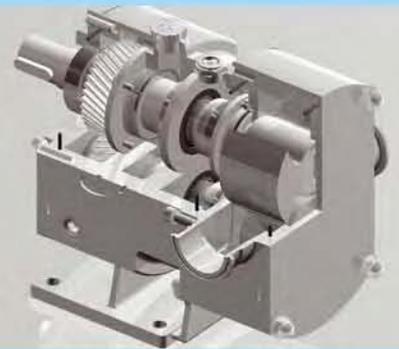
Application

Industry Pump:

- Oil
- Wastewater
- Sludge
- Chemicals
- Asphalt
- Excretions
- Paints
- Polymers

Sanitary Pump:

- Dairy
- Bakery
- Meats
- Canned Foods
- Beverages
- Candy
- Flavorings
- Dressings
- Cosmetics



562 Alpha Drive, Pittsburgh, PA 15238

Telephone: 412.963.9200 • Toll-Free: 1.800.245.6211 • Fax: 412.963.9214

E-mail: info@megator.com www.megator.com

Distributor