



FULL PRODUCT GUIDE



PERFORMANCE

QUALITY

SERVICE

TRUST

Delivering Vertical Turbine Pump
Reliability, Quality
and Service Since 1969



Pump Type	6" - 30" Vertical Deep Well	Close Coupled Vertical Turbine	6" - 30" Submersible Turbine
Application	Agricultural Irrigation, Municipal Water Supply, Industrial Process Water, Golf Course & Turf Irrigation, Dewatering, Offshore Platforms	Fuel Oil Transfer & Storage, Water/brine Injection, Light Hydrocarbon Service, Raw & Potable Water Supply, Pipeline Boosters, Cooling Tower Service, Desalinization, Dry Docks	Agricultural Irrigation, Municipal Water Supply, Industrial Process Water, Golf Course & Turf Irrigation, Dewatering, Offshore Platforms, Booster Pumps
Description	Water or oil lubricated lineshaft, threaded or flanged column pipe	Product lubricated or enclosed lineshaft, mechanical seals or stuffing box	Vertical deep well, vertical booster, horizontal in-line booster pumps
Materials	Cast iron enameled bowls, bronze impellers, bronze or rubber bearings as standard; special materials available	Cast iron enameled bowls, bronze impellers, threaded or flanged column pipe, special coatings and materials available	Cast iron enameled bowls, bronze impellers, threaded or flanged column pipe, special coatings and materials available
Performance Capacity	To 20,000 GPM	To 20,000 GPM	To 20,000 GPM
Head (TDH)	To 2,000 Ft.	To 2,000 Ft. (865 PSI)	To 2,000 Ft.
Horsepower	Up to 1500 hp with electric motor or right angle gear drive. VFD, electric motor with solid or hollow shaft available	Up to 1500 hp with electric motor or right angle gear drive. VFD, electric motor with solid or hollow shaft available	Submersible electric motor up to 1500 hp 2, 4, 6 pole speeds
Model	6"-30" diameter bowls NF fab. steel heads N260 — Hi-Pro heads	6"-30" diameter bowls NF, NLF, NTF, NUF heads	6"-30" diameter bowls S6 — S30
Features and Options	Extra lateral for deep set pumps up to 1200 Ft., chrome plated bowl shaft, LH or RH oil tube	Suction bell, single or dual wear rings, dynamic balanced impellers, keyed or colletted impellers	Flanged connection on bowls, motor brackets for all motor sizes

- ▶ API/Oil & Gas
- ▶ Commercial
- ▶ Industrial
- ▶ Irrigation
- ▶ Mining
- ▶ Municipal
- ▶ Residential



Pump Type	API 610	Test Facilities	4", 6", 8" Stainless Steel Submersible
Application	Pipeline Booster, Condensate Return, Light Hydrocarbon Transfer, Crude Oil Booster, Flare Knockout, Secondary Recovery Injection, Offshore Fire Water and Process Water, Aircraft Hydrant Fueling, Slop Oil, Cooling Tower	<i>Type of Tests:</i> Bowl assembly, complete unit performance, mechanical run, NPSH testing, string test 40 Ft. TPL max, vibration, hydrostatic testing, witness and non-witness testing	General water supply, booster, sump circulation and irrigation
Description	API-610 vertically suspended single casing type VS-1 and vertically suspended double casing type VS-6	<i>Size:</i> 18 Ft. wide x 16 Ft. deep x 45 Ft. long Two (2) 5 Ft. diameter holes extend to depth of 45 Ft. 100,000 gallon capacity	Threaded connections, completely submerged sealed motor. 2 and 3 wire; 1 phase and 3 phase oil filled, rewindable motors available
Materials	<i>API-610 Materials Classes:</i> I-1, I-2, S-1 thru S-9 C-6, A-7, A-8, D-1	Threaded and flanged connections, complete units or de-staged, with calibrated motors to measure full performance range in flow, head and efficiency	Pro Series — Stainless Steel, with Noryl impellers and diffusers Max Purity & NS Series All Stainless Steel
Performance Capacity	50 GPM - 20,000 GPM	To 20,000 GPM	To 110 GPM 5 GPM to 600 GPM
Head (TDH)	To 3000 Ft (1,300 PSI)	To 300 Lb flange (rated at 750 PSI)	To 1,000 Ft. To 1,450 Ft.
Suction Discharge	2" - 24" ANSI flange sizes 150# - 1500# ANSI Ratings	2" - 16" discharge	N/A 1 1/4" - 5"
Horsepower	To 2,500 HP	5 to 1,000 HP @ 3600 RPM (460 & 4160 Volt), 1800 RPM, 900 RPM	1/2 to 10 HP – 4" 5 to 200 HP – 6" & 8"
Model	6" thru 30" bowl sizes Fabricated types "L", "F", and "T" style discharge heads	All National Pump Company pumps can be tested as well as other manufacturer's pumps	Pro Series Pro-Pressure Max Purity NS Series

MAXIMUM Efficiency
MAXIMUM Performance
MAXIMUM Dependability



High Pressure Booster Pumps	Self-priming Shallow Well and Convertible Jets	Vertical Horizontal Multi-stage Deep Well Jets	Self-priming Centrifugal	End Suction Centrifugal and Split-case
General purpose booster, warm and cold water wash down, cleaning	Residential and general water supply systems, booster and light irrigation	General water supply, booster, sump circulation and irrigation for 2", 3" & 4" or larger water wells	Lawn sprinkling, light irrigation, general dewatering and sump drainage, liquid transfer	General purpose, process, booster and liquid transfer
Threaded connections, motor-drive, mechanical seals, ODP and TEFC motors	Threaded connections, motor-drive, mechanical seal, back pull-out design, convertible to deep well use	Threaded connections, motor-drive, mechanical seals 2 stage or 3 stage	Fast priming, threaded connections, motor and engine drive, portable or permanent installation, mechanical seals, back pull-out design	Frame mounted and motor-drive, ODP and TEFC, mechanical seals-standard and high temperature, back pull-out design
Stainless Steel and cast iron with Noryl impellers and diffusers	Cast Iron with Noryl impellers or brass impellers	Cast Iron with Noryl impellers or brass impellers	Cast Iron with Noryl impellers or brass impellers	Cast Iron with Noryl impellers or brass impellers
To 70 GPM	To 30 GPM	To 64 GPM	To 220 GPM	To 2500 GPM
To 390 Ft.	To 248 Ft.	To 350 Ft.	To 165 Ft.	To 450 Ft.
¾" to 1 ¼" suction 1 ¼" - 2" discharge	1 ¼" suction ¾" - 1" discharge	1 ¼" suction 1" discharge	2" - 3" suction 1 ½" - 3" discharge	1 ¼" - 12" suction 1" - 12" discharge
½ to 3 HP	½ to 1 ½ HP	¾ to 2 HP	¾ to 5 HP	1/3 to 300 HP
BF5000-8000-12000 18K • 25M 50Y • 70V	SW Series SFH Series SF Series	MSH MSV MSC	SFLP BMLS	EC ES VL SC



National Pump Company offers a variety of custom packaged pump stations. All of our packages can be custom fabricated to replace an existing system or designed to meet a new application. NPC's packages are designed around seven different control packages that range from an NPS 1, constant speed with mechanical controls to an NPS 8 for up to eight pumps with multiple motor controls utilizing VFD or Solid State Soft Starters with programmable logic controls. Each control package can be enhanced with options depending on the application. These options include, but are not limited to: sequencing, pump alternation, touch screen or push button interface, remote monitoring, NEMA 12, 3R, 4, and 4X enclosures, pressure transducers or mechanical pressure control. We offer packages complete with disconnects for single power connection or for remote panel mounting. Additionally, several mechanical options are also available, including aluminum and fiberglass station enclosures. All metal surfaces are grit blasted and powder coated for a superior, non-chip finish. All packages are U.L. Listed and designed to meet the National Electric Code.

***We also have complete CAD drawings for your engineering/specifications and approval process.
Call us today to see how we can assist...***

National Keeps You Pumping Around The World

From gold mines to golf courses to grain fields, our pumps are hard at work around the world. Serving commercial, industrial, municipal, power, residential, mining, oil and gas, and agricultural irrigation needs, each National Pump produced is an individual pumping system designed to do a specific pumping job. Precisely matched drivers, discharge heads, impellers, bowls and column / shaft assemblies deliver consistent pumping capacity.

We offer a full range of vertical turbine and submersible pumps, water or oil lubricated, of threaded or flanged construction, with capacities to 20,000 GPM and pressures up to 1,500 PSI. All pump models are in stock as standard materials, and they can be customized at the service center level. We also manufacture custom pumps, using special alloys and coatings to suit your specific needs. We have multiple patterns in order to meet special alloy requirements in a timely manner.



Creating Quality Pump Systems and Satisfied Customers
 Visit us on the web at: www.nationalpumpcompany.com

Proud member of American Petroleum Institute and these organizations:

Delivering Pump and Pump Systems
 Reliability, Quality
 and Service Since 1969



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 (866) 668-4914

TEXAS

3107 Slaton Highway, Lubbock, TX 79404
 (806) 745-5396 • Fax (806) 745-6668
 (800) 745-5393

Principle of Operation

This pump is a positive displacement pump and is used to pump a large variety of fluids.

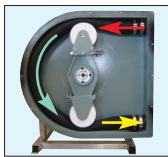
The fluid is contained in an elastomeric hose mounted inside a semi-circular shaped pump housing.

A rotor arm allow a number of rollers to totally compress and close the internal of the hose when passing.

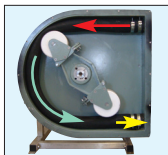
The passing motion force the fluid in front of the roller to move in the same direction as the roller.

As the hose behind the roller return to its natural state, fluid is again induced into the hose.

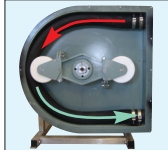
This process is named "peristalsis", thus the pump is named a peristaltic pump.



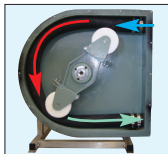
The roller compress the hose and force the fluid forward.



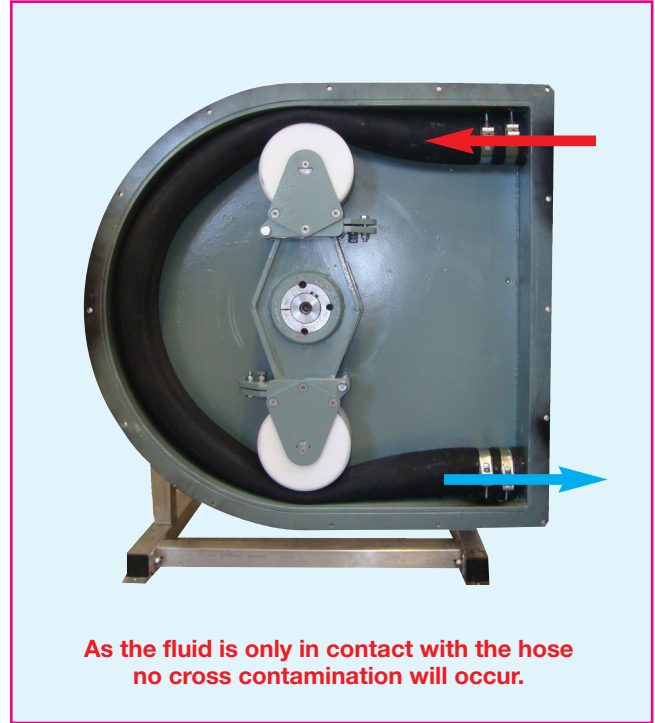
As the hose behind the roller return to its natural state, fluid is again induced into the hose.



When a fluid segment is forced forward another is induced into the hose.



Each 180° the opposite rollers compress the hose in two places and the motion is continued.



As the fluid is only in contact with the hose no cross contamination will occur.

Pump Capacity per Rotation

Model	Size	DN	Ø	Gal / r	m ³ / r	Liter / r
LSM-010	¼"	10	10	0,01	-	0,05
LSM-015	½"	15	15	0,03	-	0,11
LSM-020	¾"	20	19	0,08	-	0,314
LSM-025	1"	25	25	0,14	-	0,54
LSM-032	1¼"	32	32	0,33	-	1,26
LSM-040	1½"	40	40	0,63	-	2,37
LSM-050	2"	50	50	1,14	-	4,31
LSM-065	2½"	65	65	2,55	-	9,66
LSM-080	3"	80	80	4,14	0,016	15,66
LSM-100	4"	100	100	8,15	0,031	30,83
LSM-125	5"	125	125	12,8	0,048	48,3
LSM-150	6"	150	150	22,0	0,083	83,3
LSM-200	8"	200	200	50,6	0,192	191,7

Gal = Gallons r = Rotation m³ = Cubic meter

Pump Capacity by Size

Peristaltic Hose Pump				GPM							m ³ /h						
Model	Size	DN	Ø	10	20	30	35	40	50	57	10	20	30	35	40	50	57
LSM-010	¼"	10	10	0,1	0,3	0,4	0,45	00,5	0,7	0,8	0,03	0,06	0,09	0,105	0,120	0,150	0,171
LSM-015	½"	15	15	0,3	0,6	0,9	1,0	1,2	1,5	1,7	0,066	0,132	0,198	0,231	0,264	0,330	0,376
LSM-020	¾"	20	19	0,8	1,7	2,5	2,9	3,3	4,1	4,7	0,188	0,377	0,565	0,659	0,754	0,942	1,074
LSM-025	1"	25	25	1,4	2,9	4,3	5,0	5,7	-	-	0,324	0,648	0,972	1,134	1,296	-	-
LSM-032	1¼"	32	32	3,3	6,7	10,0	11,7	13,3	-	-	0,756	1,512	2,268	2,646	3,024	-	-
LSM-040	1½"	40	40	6,3	12,5	18,8	21,9	25,0	-	-	1,422	2,844	4,266	4,977	5,70	-	-
LSM-050	2"	50	50	11,4	22,8	35,3	39,9	-	-	-	2,586	5,172	7,758	9,051	-	-	-
LSM-065	2½"	65	65	25,5	51,0	79,1	89,3	-	-	-	5,80	11,60	17,40	20,3	-	-	-
LSM-080	3"	80	80	41,4	82,7	128	145	-	-	-	9,40	18,80	28,2	32,9	-	-	-
LSM-100	4"	100	100	81,5	163	253	285	-	-	-	18,50	37,0	55	65	-	-	-
LSM-125	5"	125	125	128	255	383	450	-	-	-	29	58	87	102	-	-	-
LSM-150	6"	150	150	220	440	660	-	-	-	-	50	100	150	-	-	-	-
LSM-200	8"	200	200	507	1014	1322	-	-	-	-	115	230	300	-	-	-	-

Factory recommended max. pump speed (rpm)

MODEL LSM-010

Peristaltic Hose Pumps



DOUBLE the HOSE LIFE and HALF the POWER

Features

- ✓ Handle Slurries, Viscous, Aggressive and Shear Sensitive materials
- ✓ Pump casings in many corrosion resistant materials and coatings
- ✓ 100% isolation between fluid and pump – hose is ONLY wetted part
- ✓ No cavities, rotors, balls or valves to stick
- ✓ No Seals, No Packings
- ✓ Special Adjustable Soft Rollers ensure extended Hose life
- ✓ Reversible Flow direction
- ✓ Self Priming with suction lift to 29.5 ft, 9 m H₂O
- ✓ Dry run capability
- ✓ Variable Speed Drives for accurate dosing and integration into your process control systems
- ✓ Low Simplified Maintenance
Only 1 wearing part and virtually no spares needed

Superior Technology

The LSM pump solution gives you all the advantages offered by other Peristaltic Hose Pumps, and **5 additional features** which significantly reduce the operating cost for the pump.

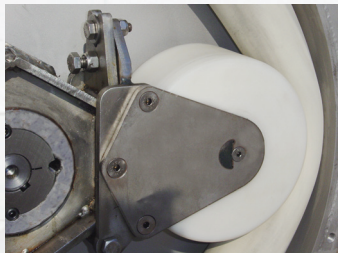
Technical features include:

1. Lower pump speed
2. Lower power consumption
3. Rollers not Shoes
4. Adjustable hose compression
5. Double Hose Life and Half Power

Increased pump diameter means longer perimeter, increased hose volume and a higher pump capacity per rotation.

LSM pumps need **fewer rotations** than others to move an equal volume. In other words, a much **lower pump speed**.

As the LSM design displaces around double the volume per rotation of a similar pump, **only half the power** is consumed when pumping the same volume.

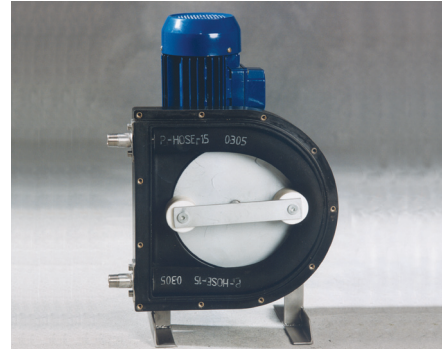


Unique roller/hose-adjustment for precise hose compression.

LSM use **rollers not shoes** for the hose compression. Rollers made of a soft poly- or fluorocarbonate provide extremely low friction when compressing the hose.

Hard fixed shoes generate much higher friction, increased wear, and physical stress when pulled over the hose surface.

Adjustable hose compression, soft rollers and the movement distributed over a longer hose length, **extend the hose life to double or more**.



Model LSM-010 without the cover. The hose and fittings are the ONLY wetted part. The soft rollers, unique adjustment system and larger diameter ensure longer hose life and lower operating costs.



Special LSM-010 dosing unit for injection of jam into ice cream (Ghana, Africa). This design will handle many similar dosing applications, and is available tailor made for your applications.



The LSM-010 dosing pumps, are either with Polyurethane or Stainless Steel housing.



manufacturer
of the

Worlds Largest Peristaltic Hose Pumps



ATEX
Approved
Zone 1 and 2

SPECIFICATIONS

Model	LSM - 010	
Displacement	0.05 l/rev	0.01 gal/rev
Speed (max rpm)	57 rpm (recommended)	
Flow (at max speed)	171 l/hr	0.8 GPM
Hose Diameter	10 mm	0.394 in
Pressure (max)	16 Bar(g)	230 psig
Temperature (max)	80°C	175°F
Fluid Temp. (max.)	Depend on Hose material	
Connections (standard)	¼" BSP Male (others available)	
Weight (approx)	22 kg	48 lb
Dimensions (HxWxL)	335x340x210mm	13.2x13.4x8.3 in

Hose Materials (others on request)

Materialer	Temperatur range	
Natural Rubber, NR	-20 to + 80°C	-5 to +175°F
Nitrile Rubber, NBR	-20 to + 80°C	-5 to +175°F
Neoprene	-10 to + 80°C	-15 to +175°F
EPDM	-20 to + 100°C	-5 to +210°F
Hypalon®, CSM	-20 to + 85°C	-5 to +185°F
Silicone	-20 to + 80°C	-5 to +175°F
Butyl	-20 to + 80°C	-5 to +175°F

Above data is for general info only. Temperatures for Fluid pumped.
FDA, USDA and 3A approved hose materials available.
 ® Hypalon is a registered Trade mark for Dupont Dow Polymers.

Typical Applications:

- Agriculture
- Biomass, Biogas and Bioethanol
- Brewing
- Ceramics
- Construction
- Food & Beverage
- Chemical
- Fish & Seafood
- Mining
- Pharmaceutical
- Paint & Coatings
- Pulp & Paper
- Power
- Oil & Gas, Offshore
- Water & Wastewater

Accessories & Options:

- Lubrication Level Guard
- Hose Rupture Detection
- AntiStatic Soft Rollers
- Polymer Coated Housing
- FDA approved hoses
- 3A Sanitary Clamps
- Flanges DIN / ANSI / JIS
- Threaded BSP / NPT / RG
- Dosing Control System
- Process Control Interface
- Variable Speed Drives
- Vacuum Control System
- 110 to 575V, 50/60 Hz
- CSA, FM, PTB, UL etc



LSM-015 pumps for Acid and Caustic dosing in a CIP system



Trolley mounted LSM-025 on a mobile pumping unit for manure in an agriculture facility.

LM32 "Low Maintenance" pump. LSM "Low Simplified Maintenance" design will supersede the LM series.



LSM-100 pumps installed in an African mining facility. Part of major order awarded due to the excellent features and superior hose life.



The LSM-200 "Super Size" which replace the LSM-150 "Big Flow" as the "World's Largest Peristaltic Hose Pump". Both pumps are designed and manufactured by LSM PUMPS

LSM

All information contained in this document is believed to be correct, but neither LSM Pumper A/S (the factory), LSM Pumps USA, Inc. nor its distributors or Agents shall accept any liability for any errors or omissions, and reserves the right to alter the specifications without notice.

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**DOUBLE the HOSE LIFE and HALF the POWER
of other Peristaltic Hose Pumps**

MODEL LSM-015

Peristaltic Hose Pumps



DOUBLE the HOSE LIFE and HALF the POWER

Features

- ✓ Handle Slurries, Viscous, Aggressive and Shear Sensitive materials
- ✓ Pump casings in many corrosion resistant materials and coatings
- ✓ 100% isolation between fluid and pump – hose is **ONLY** wetted part
- ✓ No cavities, rotors, balls or valves to stick
- ✓ No Seals, No Packings
- ✓ Special Adjustable Soft Rollers ensure extended Hose life
- ✓ Reversible Flow direction
- ✓ Self Priming with suction lift to 29.5 ft, 9 m H₂O
- ✓ Dry run capability
- ✓ Variable Speed Drives for accurate dosing and integration into your process control systems
- ✓ **Low Simplified Maintenance**
Only 1 wearing part and virtually no spares needed

Superior Technology

The LSM pump solution gives you all the advantages offered by other Peristaltic Hose Pumps, and **5 additional features** which significantly reduce the operating cost for the pump.

Technical features include:

1. Lower pump speed
2. Lower power consumption
3. Rollers not Shoes
4. Adjustable hose compression
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Increased pump diameter means longer perimeter, increased hose volume and a higher pump capacity per rotation.

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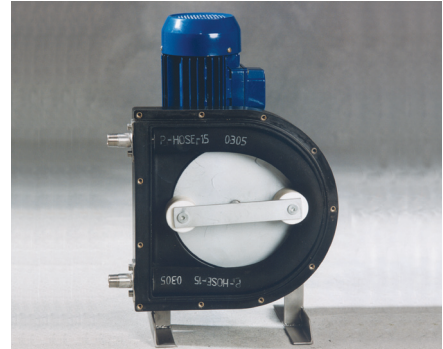


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Special LSM-015 dosing unit for injection of jam into ice cream (Ghana, Africa). This design will handle many similar dosing applications, and is available tailor made for your applications.



The LSM-015 dosing pumps, are either with Polyurethane or Stainless Steel housing.



manufacturer
of the

Worlds Largest Peristaltic Hose Pumps



SPECIFICATIONS

Model	LSM - 015	
Displacement	0.11 l/rev	0.03 gal/rev
Speed (max rpm)	57 rpm (recommended)	
Flow (at max speed)	376 l/hr	1.7 GPM
Hose Diameter	15 mm	0.59 in
Pressure (max)	16 Bar(g)	230 psig
Temperature (max)	80°C	175°F
Fluid Temp. (max.)	Depend on Hose material	
Connections (standard)	¼" BSP Male (others available)	
Weight (approx)	22 kg	48 lb
Dimensions (HxWxL)	335x340x210mm	13.2x13.4x8.3 in

Hose Materials (others on request)

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- Pharmaceutical
- Paint & Coatings
- Pulp & Paper
- Power
- Oil & Gas, Offshore
- Water & Wastewater

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LSM

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MODEL LSM-020

Peristaltic Hose Pumps



DOUBLE the HOSE LIFE and HALF the POWER

Features

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- ✓ Pump casings in many corrosion resistant materials and coatings
- ✓ 100% isolation between fluid and pump – hose is **ONLY** wetted part
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As the LSM design displaces around double the volume per rotation of a similar pump, **only half the power** is consumed when pumping the same volume.



Unique roller/hose-adjustment for precise hose compression.

LSM use **rollers not shoes** for the hose compression. Rollers made of a soft poly- or fluorocarbonate provide extremely low friction when compressing the hose.

Hard fixed shoes generate much higher friction, increased wear, and physical stress when pulled over the hose surface.

Adjustable hose compression, soft rollers and the movement distributed over a longer hose length, **extend the hose life to double or more**.



Model LSM-020 with the cover opened. The hose and fittings are the **ONLY** wetted part. The soft rollers, unique adjustment system and larger diameter of the rotor ensure longer hose life and lower operating costs.



LSM Peristaltic Hose Pump with special coating. Beside Galvanized Steel and Stainless Steel, the pumps are available with special coatings for extremely harsh environments.



The LM (Low Maintenance) series pump – this design will be replaced with the LSM (Low Simplified Maintenance) series.



manufacturer
of the

Worlds Largest Peristaltic Hose Pumps



SPECIFICATIONS

Model	LSM - 020	
Displacement	0.314 l/rev	0.083 gal/rev
Speed (max rpm)	57 rpm (recommended)	
Flow (at max speed)	1074 l/hr	4.7 GPM
Hose Diameter	20 mm	0.787 in
Pressure (max)	16 Bar(g)	230 psig
Temperature (max)	80°C	175°F
Fluid Temp. (max.)	Depend on Hose material	
Connections (standard)	¾" BSP Male (others available)	
Weight (approx)	48 kg	106 lb
Dimensions (HxWxL)	450x375x500mm	15.7x14.8x19.7 in

Hose Materials (others on request)

Materialer	Temperatur range	
Natural Rubber, NR	-20 to +80°C	-5 to +175°F
Nitrile Rubber, NBR	-20 to +80°C	-5 to +175°F
Neoprene	-10 to +80°C	-15 to +175°F
EPDM	-20 to +100°C	-5 to +210°F
Hypalon®, CSM	-20 to +85°C	-5 to +185°F
Silicone	-20 to +80°C	-5 to +175°F
Butyl	-20 to +80°C	-5 to +175°F

Above data is for general info only. Temperatures for Fluid pumped.
FDA, USDA and 3A approved hose materials available.
 ® Hypalon is a registered Trade mark for Dupont Dow Polymers.

Typical Applications:

- Agriculture
- Biomass, Biogas and Bioethanol
- Brewing
- Ceramics
- Construction
- Food & Beverage
- Chemical
- Fish & Seafood
- Mining
- Pharmaceutical
- Paint & Coatings
- Pulp & Paper
- Power
- Oil & Gas, Offshore
- Water & Wastewater

Accessories & Options:

- Lubrication Level Guard
- Hose Rupture Detection
- AntiStatic Soft Rollers
- Polymer Coated Housing
- FDA approved hoses
- 3A Sanitary Clamps
- Flanges DIN / ANSI / JIS
- Threaded BSP / NPT / RG
- Dosing Control System
- Process Control Interface
- Variable Speed Drives
- Vacuum Control System
- 110 to 575V, 50/60 Hz
- CSA, FM, PTB, UL etc

LSM

LSM Pumps USA Inc.

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LSM-015 pumps for Acid and Caustic dosing in a CIP system



Trolley mounted LSM-025 on a mobile pumping unit for manure in an agriculture facility.



LM32 "Low Maintenance" pump. LSM "Low Simplified Maintenance" design will supersede the LM series.



LSM-100 pumps installed in an African mining facility. Part of major order awarded due to the excellent features and superior hose life.



The LSM-200 "Super Size" which replace the LSM-150 "Big Flow" as the "Worlds Largest Peristaltic Hose Pump". Both pumps are designed and manufactured by LSM PUMPS

MODEL LSM-025

Peristaltic Hose Pumps



DOUBLE the HOSE LIFE and HALF the POWER

Features

- ✓ Handle Slurries, Viscous, Aggressive and Shear Sensitive materials
- ✓ Pump casings in many corrosion resistant materials and coatings
- ✓ 100% isolation between fluid and pump – hose is **ONLY** wetted part
- ✓ No cavities, rotors, balls or valves to stick
- ✓ No Seals, No Packings
- ✓ Special Adjustable Soft Rollers ensure extended Hose life
- ✓ Reversible Flow direction
- ✓ Self Priming with suction lift to 29.5 ft, 9 m H₂O
- ✓ Dry run capability
- ✓ Variable Speed Drives for accurate dosing and integration into your process control systems
- ✓ **Low Simplified Maintenance**
Only 1 wearing part and virtually no spares needed

Superior Technology

The LSM pump solution gives you all the advantages offered by other Peristaltic Hose Pumps, and **5 additional features** which significantly reduce the operating cost for the pump.

Technical features include:

1. Lower pump speed
2. Lower power consumption
3. Rollers not Shoes
4. Adjustable hose compression
5. Double Hose Life and Half Power

Increased pump diameter means longer perimeter, increased hose volume and a higher pump capacity per rotation.

LSM pumps need **fewer rotations** than others to move an equal volume. In other words, a much **lower pump speed**.

As the LSM design displaces around double the volume per rotation of a similar pump, **only half the power** is consumed when pumping the same volume.



Unique roller/hose-adjustment for precise hose compression.

LSM use **rollers not shoes** for the hose compression. Rollers made of a soft poly- or fluorocarbonate provide extremely low friction when compressing the hose.

Hard fixed shoes generate much higher friction, increased wear, and physical stress when pulled over the hose surface.

Adjustable hose compression, soft rollers and the movement distributed over a longer hose length, **extend the hose life to double or more**.



Model LSM-025 with the cover opened. The hose and fittings are the **ONLY** wetted part. The soft rollers, unique adjustment system and larger diameter of the rotor ensure longer hose life and lower operating costs.



LSM Peristaltic Hose Pump with special coating. Beside Galvanized Steel and Stainless Steel, the pumps are available with special coatings for extremely harsh environments.



The LM (Low Maintenance) series pump – this design will be replaced with the LSM (Low Simplified Maintenance) series.



manufacturer
of the

Worlds Largest Peristaltic Hose Pumps



SPECIFICATIONS

Model	LSM - 025	
Displacement	0.54 l/rev	0.14 gal/rev
Speed (max rpm)	40 rpm (recommended)	
Flow (at max speed)	1296 l/hr	5.7 GPM
Hose Diameter	25 mm	1 in
Pressure (max)	16 Bar(g)	230 psig
Temperature (max)	80°C	175°F
Fluid Temp. (max.)	Depend on Hose material	
Connections (standard)	1 BSP Male (others available)	
Weight (approx)	60 kg	132 lb
Dimensions (HxWxL)	600x510x470mm	23.6x20.1x18.5 in

Hose Materials (others on request)

Materialer	Temperatur range	
Natural Rubber, NR	-20 to +80°C	-5 to +175°F
Nitrile Rubber, NBR	-20 to +80°C	-5 to +175°F
Neoprene	-10 to +80°C	-15 to +175°F
EPDM	-20 to +100°C	-5 to +210°F
Hypalon®, CSM	-20 to +85°C	-5 to +185°F
Silicone	-20 to +80°C	-5 to +175°F
Butyl	-20 to +80°C	-5 to +175°F

Above data is for general info only. Temperatures for Fluid pumped.
FDA, USDA and 3A approved hose materials available.
 ® Hypalon is a registered Trade mark for Dupont Dow Polymers.

Typical Applications:

- Agriculture
- Biomass, Biogas and Bioethanol
- Brewing
- Ceramics
- Construction
- Food & Beverage
- Chemical
- Fish & Seafood
- Mining
- Pharmaceutical
- Paint & Coatings
- Pulp & Paper
- Power
- Oil & Gas, Offshore
- Water & Wastewater

Accessories & Options:

- Lubrication Level Guard
- Hose Rupture Detection
- AntiStatic Soft Rollers
- Polymer Coated Housing
- FDA approved hoses
- 3A Sanitary Clamps
- Flanges DIN / ANSI / JIS
- Threaded BSP / NPT / RG
- Dosing Control System
- Process Control Interface
- Variable Speed Drives
- Vacuum Control System
- 110 to 575V, 50/60 Hz
- CSA, FM, PTB, UL etc

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LSM-015 pumps for Acid and Caustic dosing in a CIP system



Trolley mounted LSM-025 on a mobile pumping unit for manure in an agriculture facility.



LM32 "Low Maintenance" pump. LSM "Low Simplified Maintenance" design will supersede the LM series.



LSM-100 pumps installed in an African mining facility. Part of major order awarded due to the excellent features and superior hose life.



The LSM-200 "Super Size" which replace the LSM-150 "Big Flow" as the "Worlds Largest Peristaltic Hose Pump". Both pumps are designed and manufactured by LSM PUMPS

MODEL LSM-032

Peristaltic Hose Pumps



DOUBLE the HOSE LIFE and HALF the POWER

Features

- ✓ Handle Slurries, Viscous, Aggressive and Shear Sensitive materials
- ✓ Pump casings in many corrosion resistant materials and coatings
- ✓ 100% isolation between fluid and pump – hose is **ONLY** wetted part
- ✓ No cavities, rotors, balls or valves to stick
- ✓ No Seals, No Packings
- ✓ Special Adjustable Soft Rollers ensure extended Hose life
- ✓ Reversible Flow direction
- ✓ Self Priming with suction lift to 29.5 ft, 9 m H₂O
- ✓ Dry run capability
- ✓ Variable Speed Drives for accurate dosing and integration into your process control systems
- ✓ **Low Simplified Maintenance**
Only 1 wearing part and virtually no spares needed

Superior Technology

The LSM pump solution gives you all the advantages offered by other Peristaltic Hose Pumps, and **5 additional features** which significantly reduce the operating cost for the pump.

Technical features include:

1. Lower pump speed
2. Lower power consumption
3. Rollers not Shoes
4. Adjustable hose compression
5. Double Hose Life and Half Power

Increased pump diameter means longer perimeter, increased hose volume and a higher pump capacity per rotation.

LSM pumps need **fewer rotations** than others to move an equal volume. In other words, a much **lower pump speed**.

As the LSM design displaces around double the volume per rotation of a similar pump, **only half the power** is consumed when pumping the same volume.



Unique roller/hose-adjustment for precise hose compression.

LSM use **rollers not shoes** for the hose compression. Rollers made of a soft poly- or fluorocarbonate provide extremely low friction when compressing the hose.

Hard fixed shoes generate much higher friction, increased wear, and physical stress when pulled over the hose surface.

Adjustable hose compression, soft rollers and the movement distributed over a longer hose length, **extend the hose life to double or more**.



Model LSM-032 with the cover opened. The hose and fittings are the **ONLY** wetted part. The soft rollers, unique adjustment system and larger diameter of the rotor ensure longer hose life and lower operating costs.



LSM Peristaltic Hose Pump with special coating. Beside Galvanized Steel and Stainless Steel, the pumps are available with special coatings for extremely harsh environments.



The LM (Low Maintenance) series pump – this design will be replaced with the LSM (Low Simplified Maintenance) series.



manufacturer
of the

Worlds Largest Peristaltic Hose Pumps



SPECIFICATIONS

Model	LSM - 032	
Displacement	1.26 l/rev	0.33 gal/rev
Speed (max rpm)	40 rpm (recommended)	
Flow (at max speed)	3024 l/hr	13.3 GPM
Hose Diameter	32 mm	1.26 in
Pressure (max)	16 Bar(g)	230 psig
Temperature (max)	80°C	175°F
Fluid Temp. (max.)	Depend on Hose material	
Connections (standard)	1¼"(1½") BSP Male (others available)	
Weight (approx)	130 kg	286 lb
Dimensions (HxWxL)	635x660x490mm	25x26x19.3 in

Hose Materials (others on request)

Materialer	Temperatur range	
Natural Rubber, NR	-20 to +80°C	-5 to +175°F
Nitrile Rubber, NBR	-20 to +80°C	-5 to +175°F
Neoprene	-10 to +80°C	-15 to +175°F
EPDM	-20 to +100°C	-5 to +210°F
Hypalon®, CSM	-20 to +85°C	-5 to +185°F
Silicone	-20 to +80°C	-5 to +175°F
Butyl	-20 to +80°C	-5 to +175°F

Above data is for general info only. Temperatures for Fluid pumped.
FDA, USDA and 3A approved hose materials available.
 ® Hypalon is a registered Trade mark for Dupont Dow Polymers.

Typical Applications:

- Agriculture
- Biomass, Biogas and Bioethanol
- Brewing
- Ceramics
- Construction
- Food & Beverage
- Chemical
- Fish & Seafood
- Mining
- Pharmaceutical
- Paint & Coatings
- Pulp & Paper
- Power
- Oil & Gas, Offshore
- Water & Wastewater

Accessories & Options:

- Lubrication Level Guard
- Hose Rupture Detection
- AntiStatic Soft Rollers
- Polymer Coated Housing
- FDA approved hoses
- 3A Sanitary Clamps
- Flanges DIN / ANSI / JIS
- Threaded BSP / NPT / RG
- Dosing Control System
- Process Control Interface
- Variable Speed Drives
- Vacuum Control System
- 110 to 575V, 50/60 Hz
- CSA, FM, PTB, UL etc

LSM

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LSM-015 pumps for Acid and Caustic dosing in a CIP system



Trolley mounted LSM-025 on a mobile pumping unit for manure in an agriculture facility.



LM32 "Low Maintenance" pump. LSM "Low Simplified Maintenance" design will supersede the LM series.



LSM-100 pumps installed in an African mining facility. Part of major order awarded due to the excellent features and superior hose life.



The LSM-200 "Super Size" which replace the LSM-150 "Big Flow" as the "World's Largest Peristaltic Hose Pump". Both pumps are designed and manufactured by LSM PUMPS

MODEL LSM-040

Peristaltic Hose Pumps



DOUBLE the HOSE LIFE and HALF the POWER

Features

- ✓ Handle Slurries, Viscous, Aggressive and Shear Sensitive materials
- ✓ Pump casings in many corrosion resistant materials and coatings
- ✓ 100% isolation between fluid and pump – hose is **ONLY** wetted part
- ✓ No cavities, rotors, balls or valves to stick
- ✓ No Seals, No Packings
- ✓ Special Adjustable Soft Rollers ensure extended Hose life
- ✓ Reversible Flow direction
- ✓ Self Priming with suction lift to 29.5 ft, 9 m H₂O
- ✓ Dry run capability
- ✓ Variable Speed Drives for accurate dosing and integration into your process control systems
- ✓ **Low Simplified Maintenance**
Only 1 wearing part and virtually no spares needed

Superior Technology

The LSM pump solution gives you all the advantages offered by other Peristaltic Hose Pumps, and **5 additional features** which significantly reduce the operating cost for the pump.

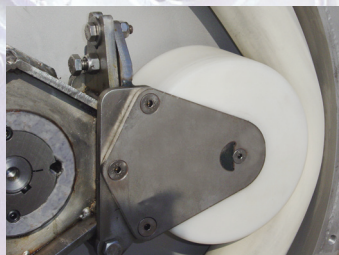
Technical features include:

1. Lower pump speed
2. Lower power consumption
3. Rollers not Shoes
4. Adjustable hose compression
5. Double Hose Life and Half Power

Increased pump diameter means longer perimeter, increased hose volume and a higher pump capacity per rotation.

LSM pumps need **fewer rotations** than others to move an equal volume. In other words, a much **lower pump speed**.

As the LSM design displaces around double the volume per rotation of a similar pump, **only half the power** is consumed when pumping the same volume.

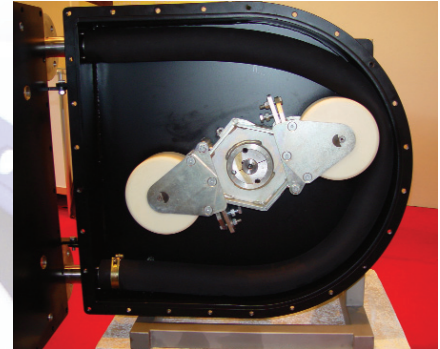


Unique roller/hose-adjustment for precise hose compression.

LSM use **rollers not shoes** for the hose compression. Rollers made of a soft poly- or fluorocarbonate provide extremely low friction when compressing the hose.

Hard fixed shoes generate much higher friction, increased wear, and physical stress when pulled over the hose surface.

Adjustable hose compression, soft rollers and the movement distributed over a longer hose length, **extend the hose life to double or more**.



Model LSM-040 with the cover opened. The hose and fittings are the **ONLY** wetted part. The soft rollers, unique adjustment system and larger diameter ensure longer hose life and lower operating costs.



LSM Peristaltic Hose Pump with special Fluoropolymer coating. Beside Galvanized Steel and Stainless Steel housings, the pumps are available with special coatings for extremely harsh environments



Pumps with special coatings. One pump is oriented "right" and the other "left".



manufacturer
of the

Worlds Largest Peristaltic Hose Pumps



SPECIFICATIONS

Model	LSM - 040	
Displacement	2.37 l/rev	0.63 gal/rev
Speed (max rpm)	40 rpm	(recommended)
Flow (at max speed)	5700 l/hr	25 GPM
Hose Diameter	40 mm	1.57 in
Pressure (max)	16 Bar(g)	230 psig
Temperature (max)	80°C	175°F
Fluid Temp. (max.)	Depend on Hose material	
Connections (standard)	1½" BSP Male (others available)	
Weight (approx)	180 kg	396 lb
Dimensions (HxWxL)	800x810x740mm	31.1x31.9x29.1 in

Hose Materials (others on request)

Materialer	Temperatur range	
Natural Rubber, NR	-20 to +80°C	-5 to +175°F
Nitrile Rubber, NBR	-20 to +80°C	-5 to +175°F
Neoprene	-10 to +80°C	-15 to +175°F
EPDM	-20 to +100°C	-5 to +210°F
Hypalon®, CSM	-20 to +85°C	-5 to +185°F
Silicone	-20 to +80°C	-5 to +175°F
Butyl	-20 to +80°C	-5 to +175°F

Above data is for general info only. Temperatures for Fluid pumped.
FDA, USDA and 3A approved hose materials available.
 ® Hypalon is a registered Trade mark for Dupont Dow Polymers.

Typical Applications:

- Agriculture
- Biomass, Biogas and Bioethanol
- Brewing
- Ceramics
- Construction
- Food & Beverage
- Chemical
- Fish & Seafood
- Mining
- Pharmaceutical
- Paint & Coatings
- Pulp & Paper
- Power
- Oil & Gas, Offshore
- Water & Wastewater

Accessories & Options:

- Lubrication Level Guard
- Hose Rupture Detection
- AntiStatic Soft Rollers
- Polymer Coated Housing
- FDA approved hoses
- 3A Sanitary Clamps
- Flanges DIN / ANSI / JIS
- Threaded BSP / NPT / RG
- Dosing Control System
- Process Control Interface
- Variable Speed Drives
- Vacuum Control System
- 110 to 575V, 50/60 Hz
- CSA, FM, PTB, UL etc

LSM

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LSM-015 pumps for Acid and Caustic dosing in a CIP system



Trolley mounted LSM-025 on a mobile pumping unit for manure in an agriculture facility.



LM32 "Low Maintenance" pump. LSM "Low Simplified Maintenance" design will supersede the LM series.



LSM-100 pumps installed in an African mining facility. Part of major order awarded due to the excellent features and superior hose life.



The LSM-200 "Super Size" which replace the LSM-150 "Big Flow" as the "World's Largest Peristaltic Hose Pump". Both pumps are designed and manufactured by LSM PUMPS

MODEL LSM-050

Peristaltic Hose Pumps



DOUBLE the HOSE LIFE and HALF the POWER

Features

- ✓ Handle Slurries, Viscous, Aggressive and Shear Sensitive materials
- ✓ Pump casings in many corrosion resistant materials and coatings
- ✓ 100% isolation between fluid and pump – hose is **ONLY** wetted part
- ✓ No cavities, rotors, balls or valves to stick
- ✓ No Seals, No Packings
- ✓ Special Adjustable Soft Rollers ensure extended Hose life
- ✓ Reversible Flow direction
- ✓ Self Priming with suction lift to 29.5 ft, 9 m H₂O
- ✓ Dry run capability
- ✓ Variable Speed Drives for accurate dosing and integration into your process control systems
- ✓ **Low Simplified Maintenance**
Only 1 wearing part and virtually no spares needed

Superior Technology

The LSM pump solution gives you all the advantages offered by other Peristaltic Hose Pumps, and **5 additional features** which significantly reduce the operating cost for the pump.

Technical features include:

1. Lower pump speed
2. Lower power consumption
3. Rollers not Shoes
4. Adjustable hose compression
5. Double Hose Life and Half Power

Increased pump diameter means longer perimeter, increased hose volume and a higher pump capacity per rotation.

LSM pumps need **fewer rotations** than others to move an equal volume. In other words, a much **lower pump speed**.

As the LSM design displaces around double the volume per rotation of a similar pump, **only half the power** is consumed when pumping the same volume.

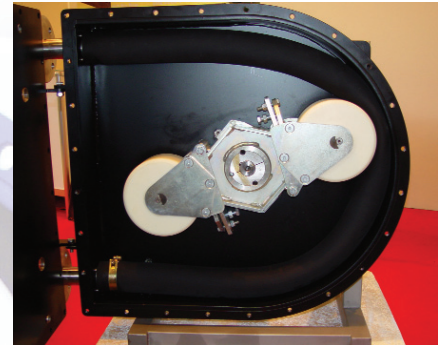


Unique roller/hose-adjustment for precise hose compression.

LSM use **rollers not shoes** for the hose compression. Rollers made of a soft poly- or fluorocarbonate provide extremely low friction when compressing the hose.

Hard fixed shoes generate much higher friction, increased wear, and physical stress when pulled over the hose surface.

Adjustable hose compression, soft rollers and the movement distributed over a longer hose length, **extend the hose life to double or more**.



Model LSM-050 with the cover opened. The hose and fittings are the **ONLY** wetted part. The soft rollers, unique adjustment system and larger diameter of the rotor ensure longer hose life and lower operating costs.



LSM Peristaltic Hose Pump with special coating. Beside Galvanized Steel and Stainless Steel, the pumps are available with special coatings for extremely harsh environments.



Pumps with special coatings. One pump is oriented "right" and the other "left".



manufacturer
of the

Worlds Largest Peristaltic Hose Pumps



SPECIFICATIONS

Model	LSM - 050	
Displacement	4.31 l/rev	1.14 gal/rev
Speed (max rpm)	35 rpm (recommended)	
Flow (at max speed)	9,05 m ³ /hr	39.9 GPM
Hose Diameter	50 mm	1.97 in
Pressure (max)	16 Bar(g)	230 psig
Temperature (max)	80°C	175°F
Fluid Temp. (max.)	Depend on Hose material	
Connections (standard)	2" BSP Male (others available)	
Weight (approx)	250 kg	550 lb
Dimensions (HxWxL)	50x920x745mm	33.5x35.2x29.3 in

Hose Materials (others on request)

Materialer	Temperatur range	
Natural Rubber, NR	-20 to +80°C	-5 to +175°F
Nitrile Rubber, NBR	-20 to +80°C	-5 to +175°F
Neoprene	-10 to +80°C	-15 to +175°F
EPDM	-20 to +100°C	-5 to +210°F
Hypalon®, CSM	-20 to +85°C	-5 to +185°F
Silicone	-20 to +80°C	-5 to +175°F
Butyl	-20 to +80°C	-5 to +175°F

Above data is for general info only. Temperatures for Fluid pumped.
FDA, USDA and 3A approved hose materials available.
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Typical Applications:

- Agriculture
- Biomass, Biogas and Bioethanol
- Brewing
- Ceramics
- Construction
- Food & Beverage
- Chemical
- Fish & Seafood
- Mining
- Pharmaceutical
- Paint & Coatings
- Pulp & Paper
- Power
- Oil & Gas, Offshore
- Water & Wastewater

Accessories & Options:

- Lubrication Level Guard
- Hose Rupture Detection
- AntiStatic Soft Rollers
- Polymer Coated Housing
- FDA approved hoses
- 3A Sanitary Clamps
- Flanges DIN / ANSI / JIS
- Threaded BSP / NPT / RG
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LSM-015 pumps for Acid and Caustic dosing in a CIP system



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The LSM-200 "Super Size" which replace the LSM-150 "Big Flow" as the "World's Largest Peristaltic Hose Pump". Both pumps are designed and manufactured by LSM PUMPS

MODEL LSM-065

Peristaltic Hose Pumps



DOUBLE the HOSE LIFE and HALF the POWER

Features

- ✓ Handle Slurries, Viscous, Aggressive and Shear Sensitive materials
- ✓ Pump casings in many corrosion resistant materials and coatings
- ✓ 100% isolation between fluid and pump – hose is **ONLY** wetted part
- ✓ No cavities, rotors, balls or valves to stick
- ✓ No Seals, No Packings
- ✓ Special Adjustable Soft Rollers ensure extended Hose life
- ✓ Reversible Flow direction
- ✓ Self Priming with suction lift to 29.5 ft, 9 m H₂O
- ✓ Dry run capability
- ✓ Variable Speed Drives for accurate dosing and integration into your process control systems
- ✓ **Low Simplified Maintenance**
Only 1 wearing part and virtually no spares needed

Superior Technology

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Technical features include:

1. Lower pump speed
2. Lower power consumption
3. Rollers not Shoes
4. Adjustable hose compression
5. Double Hose Life and Half Power

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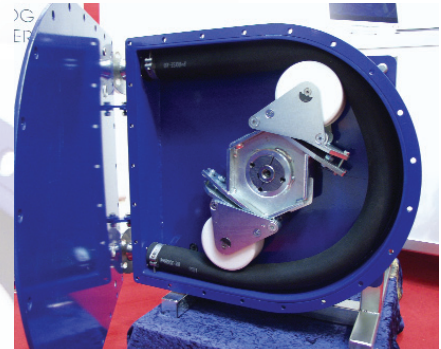


Unique roller/hose-adjustment for precise hose compression.

LSM use **rollers not shoes** for the hose compression. Rollers made of a soft poly- or fluorocarbonate provide extremely low friction when compressing the hose.

Hard fixed shoes generate much higher friction, increased wear, and physical stress when pulled over the hose surface.

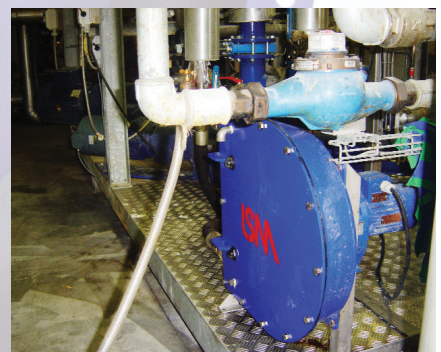
Adjustable hose compression, soft rollers and the movement distributed over a longer hose length, **extend the hose life to double or more**.



Model LSM-065 with the cover opened. The hose and fittings are the **ONLY** wetted part. The soft rollers, unique adjustment system and larger diameter of the rotor ensure longer hose life and lower operating costs.



Pump housing in Stainless Steel for vacuum application in Chemical Industry.



LSM Peristaltic Hose Pump with special coating. Beside Galvanized Steel and Stainless Steel, the pumps are available with special coatings for extremely harsh environments.



manufacturer
of the

Worlds Largest Peristaltic Hose Pumps



SPECIFICATIONS

Model	LSM - 065	
Displacement	9.66 l/rev	2.55 Gal/rev
Speed (max rpm)	35 rpm (recommended)	
Flow (at max speed)	20.3 m ³ /hr	89.3 GPM
Hose Diameter	65 mm	2.56 in
Pressure (max)	16 Bar(g)	230 psig
Temperature (max)	80°C	175°F
Fluid Temp. (max.)	Depend on Hose material	
Connections (standard)	2 1/2" BSP Male (others available)	
Weight (approx)	400 kg	880 lb
Dimensions (HxWxL)	1050x1080x830mm	41.3x42.5x32.7 in

Hose Materials (others on request)

Materialer	Temperatur range	
Natural Rubber, NR	-20 to +80°C	-5 to +175°F
Nitrile Rubber, NBR	-20 to +80°C	-5 to +175°F
Neoprene	-10 to +80°C	-15 to +175°F
EPDM	-20 to +100°C	-5 to +210°F
Hypalon®, CSM	-20 to +85°C	-5 to +185°F
Silicone	-20 to +80°C	-5 to +175°F
Butyl	-20 to +80°C	-5 to +175°F

Above data is for general info only. Temperatures for Fluid pumped.
FDA, USDA and 3A approved hose materials available.
 ® Hypalon is a registered Trade mark for Dupont Dow Polymers.

Typical Applications:

- Agriculture
- Biomass, Biogas and Bioethanol
- Brewing
- Ceramics
- Construction
- Food & Beverage
- Chemical
- Fish & Seafood
- Mining
- Pharmaceutical
- Paint & Coatings
- Pulp & Paper
- Power
- Oil & Gas, Offshore
- Water & Wastewater

Accessories & Options:

- Lubrication Level Guard
- Hose Rupture Detection
- AntiStatic Soft Rollers
- Polymer Coated Housing
- FDA approved hoses
- 3A Sanitary Clamps
- Flanges DIN / ANSI / JIS
- Threaded BSP / NPT / RG
- Dosing Control System
- Process Control Interface
- Variable Speed Drives
- Vacuum Control System
- 110 to 575V, 50/60 Hz
- CSA, FM, PTB, UL etc

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LSM-015 pumps for Acid and Caustic dosing in a CIP system



Trolley mounted LSM-025 on a mobile pumping unit for manure in an agriculture facility.



LM32 "Low Maintenance" pump. LSM "Low Simplified Maintenance" design will supersede the LM series.



LSM-100 pumps installed in an African mining facility. Part of major order awarded due to the excellent features and superior hose life.



The LSM-200 "Super Size" which replace the LSM-150 "Big Flow" as the "Worlds Largest Peristaltic Hose Pump". Both pumps are designed and manufactured by LSM PUMPS

MODEL LSM-080

Peristaltic Hose Pumps



DOUBLE the HOSE LIFE and HALF the POWER

Features

- ✓ Handle Slurries, Viscous, Aggressive and Shear Sensitive materials
- ✓ Pump casings in many corrosion resistant materials and coatings
- ✓ 100% isolation between fluid and pump – hose is **ONLY** wetted part
- ✓ No cavities, rotors, balls or valves to stick
- ✓ No Seals, No Packings
- ✓ Special Adjustable Soft Rollers ensure extended Hose life
- ✓ Reversible Flow direction
- ✓ Self Priming with suction lift to 29.5 ft, 9 m H₂O
- ✓ Dry run capability
- ✓ Variable Speed Drives for accurate dosing and integration into your process control systems
- ✓ **Low Simplified Maintenance**
Only 1 wearing part and virtually no spares needed

Superior Technology

The LSM pump solution gives you all the advantages offered by other Peristaltic Hose Pumps, and **5 additional features** which significantly reduce the operating cost for the pump.

Technical features include:

1. Lower pump speed
2. Lower power consumption
3. Rollers not Shoes
4. Adjustable hose compression
5. Double Hose Life and Half Power

Increased pump diameter means longer perimeter, increased hose volume and a higher pump capacity per rotation.

LSM pumps need **fewer rotations** than others to move an equal volume. In other words, a much **lower pump speed**.

As the LSM design displaces around double the volume per rotation of a similar pump, **only half the power** is consumed when pumping the same volume.

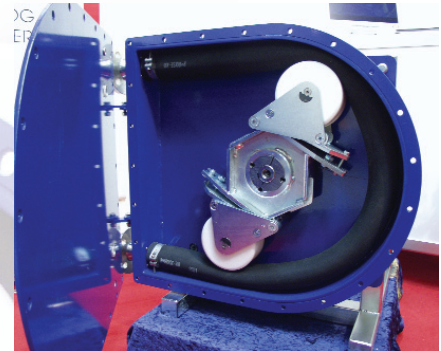


Unique roller/hose-adjustment for precise hose compression.

LSM use **rollers not shoes** for the hose compression. Rollers made of a soft poly- or fluorocarbonate provide extremely low friction when compressing the hose.

Hard fixed shoes generate much higher friction, increased wear, and physical stress when pulled over the hose surface.

Adjustable hose compression, soft rollers and the movement distributed over a longer hose length, **extend the hose life to double or more**.



Model LSM-080 with the cover opened. The hose and fittings are the **ONLY** wetted part. The soft rollers, unique adjustment system and larger diameter of the rotor ensure longer hose life and lower operating costs.



Pump housing in Stainless Steel for vacuum application in Chemical Industry. The hinged door is reinforced and with sensor holes for transmitters.



LSM Peristaltic Hose Pump with special coating. Beside Galvanized Steel and Stainless Steel, the pumps are available with special coatings for extremely harsh environments.



manufacturer
of the

Worlds Largest Peristaltic Hose Pumps



SPECIFICATIONS

Model	LSM - 080	
Displacement	15.66 l/rev	4.14 Gal/rev
Speed (max rpm)	35 rpm	(recommended)
Flow (at max speed)	32.9 m ³ /hr	145 GPM
Hose Diameter	80 mm	3.15 in
Pressure (max)	16 Bar(g)	230 psig
Temperature (max)	80°C	175°F
Fluid Temp. (max.)	Depend on Hose material	
Connections (standard)	3" BSP Male (others available)	
Weight (approx)	475 kg	1045 lb
Dimensions (HxWxL)	1220x1230x880mm	48x48.4x34.6 in

Hose Materials (others on request)

Materialer	Temperatur range	
Natural Rubber, NR	-20 to +80°C	-5 to +175°F
Nitrile Rubber, NBR	-20 to +80°C	-5 to +175°F
Neoprene	-10 to +80°C	-15 to +175°F
EPDM	-20 to +100°C	-5 to +210°F
Hypalon®, CSM	-20 to +85°C	-5 to +185°F
Silicone	-20 to +80°C	-5 to +175°F
Butyl	-20 to +80°C	-5 to +175°F

Above data is for general info only. Temperatures for Fluid pumped.
FDA, USDA and 3A approved hose materials available.
 ® Hypalon is a registered Trade mark for Dupont Dow Polymers.

Typical Applications:

- Agriculture
- Biomass, Biogas and Bioethanol
- Brewing
- Ceramics
- Construction
- Food & Beverage
- Chemical
- Fish & Seafood
- Mining
- Pharmaceutical
- Paint & Coatings
- Pulp & Paper
- Power
- Oil & Gas, Offshore
- Water & Wastewater

Accessories & Options:

- Lubrication Level Guard
- Hose Rupture Detection
- AntiStatic Soft Rollers
- Polymer Coated Housing
- FDA approved hoses
- 3A Sanitary Clamps
- Flanges DIN / ANSI / JIS
- Threaded BSP / NPT / RG
- Dosing Control System
- Process Control Interface
- Variable Speed Drives
- Vacuum Control System
- 110 to 575V, 50/60 Hz
- CSA, FM, PTB, UL etc

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LSM-015 pumps for Acid and Caustic dosing in a CIP system



Trolley mounted LSM-025 on a mobile pumping unit for manure in an agriculture facility.



LM32 "Low Maintenance" pump. LSM "Low Simplified Maintenance" design will supersede the LM series.



LSM-100 pumps installed in an African mining facility. Part of major order awarded due to the excellent features and superior hose life.



The LSM-200 "Super Size" which replace the LSM-150 "Big Flow" as the "Worlds Largest Peristaltic Hose Pump". Both pumps are designed and manufactured by LSM PUMPS

MODEL LSM-100

Peristaltic Hose Pumps



DOUBLE the HOSE LIFE and HALF the POWER

Features

- ✓ Handle Slurries, Viscous, Aggressive and Shear Sensitive materials
- ✓ Pump casings in many corrosion resistant materials and coatings
- ✓ 100% isolation between fluid and pump – hose is **ONLY** wetted part
- ✓ No cavities, rotors, balls or valves to stick
- ✓ No Seals, No Packings
- ✓ Special Adjustable Soft Rollers ensure extended Hose life
- ✓ Reversible Flow direction
- ✓ Self Priming with suction lift to 29.5 ft, 9 m H₂O
- ✓ Dry run capability
- ✓ Variable Speed Drives for accurate dosing and integration into your process control systems
- ✓ **Low Simplified Maintenance**
Only 1 wearing part and virtually no spares needed

Superior Technology

The LSM pump solution gives you all the advantages offered by other Peristaltic Hose Pumps, and **5 additional features** which significantly reduce the operating cost for the pump.

Technical features include:

1. Lower pump speed
2. Lower power consumption
3. Rollers not Shoes
4. Adjustable hose compression
5. Double Hose Life and Half Power

Increased pump diameter means longer perimeter, increased hose volume and a higher pump capacity per rotation.

LSM pumps need **fewer rotations** than others to move an equal volume. In other words, a much **lower pump speed**.

As the LSM design displaces around double the volume per rotation of a similar pump, **only half the power** is consumed when pumping the same volume.



Unique roller/hose-adjustment for precise hose compression.

LSM use **rollers not shoes** for the hose compression. Rollers made of a soft poly- or fluorocarbonate provide extremely low friction when compressing the hose.

Hard fixed shoes generate much higher friction, increased wear, and physical stress when pulled over the hose surface.

Adjustable hose compression, soft rollers and the movement distributed over a longer hose length, **extend the hose life to double or more**.



Model LSM-100 with the cover opened. The hose and fittings are the **ONLY** wetted part. The soft rollers, unique adjustment system and larger diameter of the rotor ensure longer hose life and lower operating costs.



LSM-100 pumps for a mining application in Africa. The expectation to the hose life is long exceeded due to the hose quality and design of these pumps. More than **Double the Hose life** and **Half the Power** consumption than other peristaltic hose pumps.



The LSM-100 pump in Stainless Steel for a vacuum application. The rigid design make these pumps ideal for dirty, nasty and critical applications where simplicity and reliability is a must. Our LSM-series (Low Simplified Maintenance) will replace the LM-series (Low Maintenance) due to the LSM's-series more user friendly design.



manufacturer
of the

Worlds Largest Peristaltic Hose Pumps



ATEX
Approved
Zone 1 and 2

SPECIFICATIONS

Model	LSM - 100	
Displacement	30.83 l/rev	8.15 gal/rev
Speed (max rpm)	35 rpm (recommended)	
Flow (at max speed)	65 m ³ /hr	285 GPM
Hose Diameter	100 mm	3.94 in
Pressure (max)	8 Bar(g)	116 psig
Temperature (max)	80°C	175°F
Fluid Temp. (max.)	Depend on Hose material	
Connections (standard)	4" BSP Male (others available)	
Weight (approx)	700 kg	1540 lb
Dimensions (HxWxL)	1642x1472x1156mm	64.6x58x45.5 in

Hose Materials (others on request)

Material	Temperature range	
Natural Rubber, NR	-20 to + 80°C	-5 to +175°F
Nitrile Rubber, NBR	-20 to + 80°C	-5 to +175°F
Neoprene	-10 to + 80°C	-15 to +175°F
EPDM	-20 to + 100°C	-5 to +210°F
Hypalon®, CSM	-20 to + 85°C	-5 to +185°F
Silicone	-20 to + 80°C	-5 to +175°F
Butyl	-20 to + 80°C	-5 to +175°F

Above data is for general info only. Temperatures for Fluid pumped.
FDA, USDA and 3A approved hose materials available.
 ® Hypalon is a registered Trade mark for Dupont Dow Polymers.

Typical Applications:

- Agriculture
- Biomass, Biogas and Bioethanol
- Brewing
- Ceramics
- Construction
- Food & Beverage
- Chemical
- Fish & Seafood
- Mining
- Pharmaceutical
- Paint & Coatings
- Pulp & Paper
- Power
- Oil & Gas, Offshore
- Water & Wastewater

Accessories & Options:

- Lubrication Level Guard
- Hose Rupture Detection
- AntiStatic Soft Rollers
- Polymer Coated Housing
- FDA approved hoses
- 3A Sanitary Clamps
- Flanges DIN / ANSI / JIS
- Threaded BSP / NPT / RG
- Dosing Control System
- Process Control Interface
- Variable Speed Drives
- Vacuum Control System
- 110 to 575V, 50/60 Hz
- CSA, FM, PTB, UL etc

LSM

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LSM-015 pumps for Acid and Caustic dosing in a CIP system



Trolley mounted LSM-025 pumping unit for manure in an agriculture facility. The pumps are reversible and are used to fill and empty a reservoir – even with fluids as Lime slurries, manure or Biomass.



LM32 "Low Maintenance" pump. LSM "Low Simplified Maintenance" design will supersede the LM series.



LSM-100 pumps installed in an African mining facility. Part of major order awarded due to the excellent features and superior hose life.



The LSM-200 "Super Size" which replace the LSM-150 "Big Flow" as the "Worlds Largest Peristaltic Hose Pump". Both pumps are designed and manufactured by LSM PUMPS

MODEL LSM-125

Peristaltic Hose Pumps



DOUBLE the HOSE LIFE and HALF the POWER

Features

- ✓ Handle Slurries, Viscous, Aggressive and Shear Sensitive materials
- ✓ Pump casings in many corrosion resistant materials and coatings
- ✓ 100% isolation between fluid and pump – hose is **ONLY** wetted part
- ✓ No cavities, rotors, balls or valves to stick
- ✓ No Seals, No Packings
- ✓ Special Adjustable Soft Rollers ensure extended Hose life
- ✓ Reversible Flow direction
- ✓ Self Priming with suction lift to 29.5 ft, 9 m H₂O
- ✓ Dry run capability
- ✓ Variable Speed Drives for accurate dosing and integration into your process control systems
- ✓ **Low Simplified Maintenance**
Only 1 wearing part and virtually no spares needed



manufacturer
of the

Superior Technology

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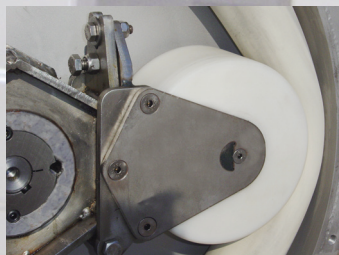
Technical features include:

1. Lower pump speed
2. Lower power consumption
3. Rollers not Shoes
4. Adjustable hose compression
5. Double Hose Life and Half Power

Increased pump diameter means longer perimeter, increased hose volume and a higher pump capacity per rotation.

LSM pumps need **fewer rotations** than others to move an equal volume. In other words, a much **lower pump speed**.

As the LSM design displaces around double the volume per rotation of a similar pump, **only half the power** is consumed when pumping the same volume.



Unique roller/hose-adjustment for precise hose compression.

LSM use **rollers not shoes** for the hose compression. Rollers made of a soft poly- or fluorocarbonate provide extremely low friction when compressing the hose.

Hard fixed shoes generate much higher friction, increased wear, and physical stress when pulled over the hose surface.

Adjustable hose compression, soft rollers and the movement distributed over a longer hose length, **extend the hose life to double or more**.



Model LSM-125 with the cover opened. The hose and fittings are the **ONLY** wetted part. The soft rollers, unique adjustment system and larger diameter of the rotor ensure longer hose life and lower operating costs.



The LSM-125 placed next to a LSM-100 pump. The pumping capacity of the standard LSM-125 is more than 50% higher than for LSM-100. Both pumps shown are with Galvanized Steel pump housing. Other connections and materials available.



LSM-125 in an unloading facility for sea food. The LSM-series is widely used in the fishing industry as this pump design will transport the sea food **without any damage** to the meat. **LSM can pump live fish in fish farms.**



SPECIFICATIONS

Model	LSM - 125	
Displacement	48.3 l/rev	12.8 gal/rev
Speed (max rpm)	30 rpm (recommended)	
Flow (at max speed)	87 m ³ /hr	383 GPM
Hose Diameter	125 mm	4.92 in
Pressure (max)	7 Bar(g)	102 psig
Temperature (max)	80°C	175°F
Fluid Temp. (max.)	Depend on Hose material	
Connections (standard)	4" BSP Male (others available)	
Weight (approx)	1000 kg	2200 lb
Dimensions (HxWxL)	1795x1700x1205mm	70.7x66.9x47.4 in

Hose Materials (others on request)

Materialer	Temperatur range	
Natural Rubber, NR	-20 to +80°C	-5 to +175°F
Nitrile Rubber, NBR	-20 to +80°C	-5 to +175°F
Neoprene	-10 to +80°C	-15 to +175°F
EPDM	-20 to +100°C	-5 to +210°F
Hypalon®, CSM	-20 to +85°C	-5 to +185°F
Silicone	-20 to +80°C	-5 to +175°F
Butyl	-20 to +80°C	-5 to +175°F

Above data is for general info only. Temperatures for Fluid pumped.
FDA, USDA and 3A approved hose materials available.
 ® Hypalon is a registered Trade mark for Dupont Dow Polymers.

Typical Applications:

- Agriculture
- Biomass, Biogas and Bioethanol
- Brewing
- Ceramics
- Construction
- Food & Beverage
- Chemical
- Fish & Seafood
- Mining
- Pharmaceutical
- Paint & Coatings
- Pulp & Paper
- Power
- Oil & Gas, Offshore
- Water & Wastewater

Accessories & Options:

- Lubrication Level Guard
- Hose Rupture Detection
- AntiStatic Soft Rollers
- Polymer Coated Housing
- FDA approved hoses
- 3A Sanitary Clamps
- Flanges DIN / ANSI / JIS
- Threaded BSP / NPT / RG
- Dosing Control System
- Process Control Interface
- Variable Speed Drives
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LSM-015 pumps for Acid and Caustic dosing in a CIP system



Trolley mounted LSM-025 pumping unit for manure in an agriculture facility. The pumps are reversible and are used to fill and empty a reservoir – even with fluids as Lime slurries, manure or Biomass.



LM32 "Low Maintenance" pump. LSM "Low Simplified Maintenance" design will supersede the LM series.



LSM-100 pumps installed in an African mining facility. Part of major order awarded due to the excellent features and superior hose life.



The LSM-200 "Super Size" which replace the LSM-150 "Big Flow" as the "Worlds Largest Peristaltic Hose Pump". Both pumps are designed and manufactured by LSM PUMPS

MODEL LSM-150

Peristaltic Hose Pumps



DOUBLE the HOSE LIFE and HALF the POWER

Features

- ✓ Handle Slurries, Viscous, Aggressive and Shear Sensitive materials
- ✓ Pump casings in many corrosion resistant materials and coatings
- ✓ 100% isolation between fluid and pump – hose is **ONLY** wetted part
- ✓ No cavities, rotors, balls or valves to stick
- ✓ No Seals, No Packings
- ✓ Special Adjustable Soft Rollers ensure extended Hose life
- ✓ Reversible Flow direction
- ✓ Self Priming with suction lift to 29.5 ft, 9 m H₂O
- ✓ Dry run capability
- ✓ Variable Speed Drives for accurate dosing and integration into your process control systems
- ✓ **Low Simplified Maintenance**
Only 1 wearing part and virtually no spares needed



manufacturer
of the

Superior Technology

The LSM pump solution gives you all the advantages offered by other Peristaltic Hose Pumps, and **5 additional features** which significantly reduce the operating cost for the pump.

Technical features include:

1. Lower pump speed
2. Lower power consumption
3. Rollers not Shoes
4. Adjustable hose compression
5. Double Hose Life and Half Power

Increased pump diameter means longer perimeter, increased hose volume and a higher pump capacity per rotation.

LSM pumps need **fewer rotations** than others to move an equal volume. In other words, a much **lower pump speed**.

As the LSM design displaces around double the volume per rotation of a similar pump, **only half the power** is consumed when pumping the same volume.



Unique roller/hose-adjustment for precise hose compression.

LSM use **rollers not shoes** for the hose compression. Rollers made of a soft poly- or fluorocarbonate provide extremely low friction when compressing the hose.

Hard fixed shoes generate much higher friction, increased wear, and physical stress when pulled over the hose surface.

Adjustable hose compression, soft rollers and the movement distributed over a longer hose length, **extend the hose life to double or more**.



Model LSM-125 with the cover opened. The hose and fittings are the **ONLY** wetted part. The soft rollers, unique adjustment system and larger diameter of the rotor ensure longer hose life and lower operating costs.



LSM Peristaltic Hose Pump in Galvanized Steel. Beside Galvanized Steel and Stainless Steel, the pumps are available with special coatings for extremely harsh environments.



LSM-150 as an unloading facility for sea going fishing vessels. The pump is moveable and can serve different vessels. Pump materials suitable for the high humidity and salt content of the surrounding environment.



SPECIFICATIONS

Model	LSM - 150	
Displacement	83.3 l/rev	22 gal/rev
Speed (max rpm)	30 rpm (recommended)	
Flow (at max speed)	150 m ³ /hr	660 GPM
Hose Diameter	150 mm	5.91 in
Pressure (max)	7 Bar(g)	102 psig
Temperature (max)	80°C	175°F
Fluid Temp. (max.)	Depend on Hose material	
Connections (standard)	Flanged or 6 "BSP Male (others available)	
Weight (approx)	1800 kg	3960 lb
Dimensions (HxWxL)	2035x1790x1350mm	80.1x70.5x53.1 in

Hose Materials (others on request)

Materialer	Temperatur range	
Natural Rubber, NR	-20 to +80°C	-5 to +175°F
Nitrile Rubber, NBR	-20 to +80°C	-5 to +175°F
Neoprene	-10 to +80°C	-15 to +175°F
EPDM	-20 to +100°C	-5 to +210°F
Hypalon®, CSM	-20 to +85°C	-5 to +185°F
Silicone	-20 to +80°C	-5 to +175°F
Butyl	-20 to +80°C	-5 to +175°F

Above data is for general info only. Temperatures for Fluid pumped.
FDA, USDA and 3A approved hose materials available.
 ® Hypalon is a registered Trade mark for Dupont Dow Polymers.

Typical Applications:

- Agriculture
- Biomass, Biogas and Bioethanol
- Brewing
- Ceramics
- Construction
- Food & Beverage
- Chemical
- Fish & Seafood
- Mining
- Pharmaceutical
- Paint & Coatings
- Pulp & Paper
- Power
- Oil & Gas, Offshore
- Water & Wastewater

Accessories & Options:

- Lubrication Level Guard
- Hose Rupture Detection
- AntiStatic Soft Rollers
- Polymer Coated Housing
- FDA approved hoses
- 3A Sanitary Clamps
- Flanges DIN / ANSI / JIS
- Threaded BSP / NPT / RG
- Dosing Control System
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- 110 to 575V, 50/60 Hz
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LSM-015 pumps for Acid and Caustic dosing in a CIP system



Trolley mounted LSM-025 pumping unit for manure in an agriculture facility. The pumps are reversible and are used to fill and empty a reservoir – even with fluids as Lime slurries, manure or Biomass.



LM32 "Low Maintenance" pump. LSM "Low Simplified Maintenance" design will supersede the LM series.



LSM-100 pumps installed in an African mining facility. Part of major order awarded due to the excellent features and superior hose life.



The LSM-200 "Super Size" which replace the LSM-150 "Big Flow" as the "Worlds Largest Peristaltic Hose Pump". Both pumps are designed and manufactured by LSM PUMPS

DOUBLE the HOSE LIFE and HALF the POWER of other Peristaltic Hose Pumps

MODEL LSM-200

Peristaltic Hose Pumps



DOUBLE the HOSE LIFE and HALF the POWER

Features

- ✓ Handle Slurries, Viscous, Aggressive and Shear Sensitive materials
- ✓ Pump casings in many corrosion resistant materials and coatings
- ✓ 100% isolation between fluid and pump – hose is **ONLY** wetted part
- ✓ No cavities, rotors, balls or valves to stick
- ✓ No Seals, No Packings
- ✓ Special Adjustable Soft Rollers ensure extended Hose life
- ✓ Reversible Flow direction
- ✓ Self Priming with suction lift to 29.5 ft, 9 m H₂O
- ✓ Dry run capability
- ✓ Variable Speed Drives for accurate dosing and integration into your process control systems
- ✓ **Low Simplified Maintenance**
Only 1 wearing part and virtually no spares needed



manufacturer
of the

Superior Technology

The LSM pump solution gives you all the advantages offered by other Peristaltic Hose Pumps, and **5 additional features** which significantly reduce the operating cost for the pump.

Technical features include:

1. Lower pump speed
2. Lower power consumption
3. Rollers not Shoes
4. Adjustable hose compression
5. Double Hose Life and Half Power

Increased pump diameter means longer perimeter, increased hose volume and a higher pump capacity per rotation.

LSM pumps need **fewer rotations** than others to move an equal volume. In other words, a much **lower pump speed**.

As the LSM design displaces around double the volume per rotation of a similar pump, **only half the power** is consumed when pumping the same volume.



Unique roller/hose-adjustment for precise hose compression.

LSM use **rollers not shoes** for the hose compression. Rollers made of a soft poly- or fluorocarbonate provide extremely low friction when compressing the hose.

Hard fixed shoes generate much higher friction, increased wear, and physical stress when pulled over the hose surface.

Adjustable hose compression, soft rollers and the movement distributed over a longer hose length, **extend the hose life to double or more**.



Model LSM-200 with the cover opened. The hose and fittings are the **ONLY** wetted part. The soft rollers, unique adjustment system and larger diameter of the rotor ensure longer hose life and lower operating costs.



LSM-200 which replace LSM-150 as the **Worlds Largest Peristaltic Hose Pump**. Peak capacity in excess of 300 m³ or 80,000 gal water per hour.



LSM-200 is available tailor made for your application in many materials for housing, process connections, hoses and gear motors. Also available with hydraulic drive.



SPECIFICATIONS

Model	LSM - 200	
Displacement	191.7 l/rev	50.6 gal/rev
Speed (max rpm)	20 rpm (recommended)	
Flow (at max speed)	230 m ³ /hr	1014 GPM
Hose Diameter	200 mm	7.87 in
Pressure (max)	7 Bar(g)	102 psig
Temperature (max)	80°C	175°F
Fluid Temp. (max.)	Depend on Hose material	
Connections (standard)	Flanged or 8" BSP Male (others available)	
Weight (approx)	3000 kg	6600 lb
Dimensions (HxWxL)	2700x2600x2200mm	106.3x102.4x86.6 in

Hose Materials (others on request)

Materialer	Temperatur range	
Natural Rubber, NR	-20 to +80°C	-5 to +175°F
Nitrile Rubber, NBR	-20 to +80°C	-5 to +175°F
Neoprene	-10 to +80°C	-15 to +175°F
EPDM	-20 to +100°C	-5 to +210°F
Hypalon®, CSM	-20 to +85°C	-5 to +185°F
Silicone	-20 to +80°C	-5 to +175°F
Butyl	-20 to +80°C	-5 to +175°F

Above data is for general info only. Temperatures for Fluid pumped.
FDA, USDA and 3A approved hose materials available.
 ® Hypalon is a registered Trade mark for Dupont Dow Polymers.

Typical Applications:

- Agriculture
- Biomass, Biogas and Bioethanol
- Brewing
- Ceramics
- Construction
- Food & Beverage
- Chemical
- Fish & Seafood
- Mining
- Pharmaceutical
- Paint & Coatings
- Pulp & Paper
- Power
- Oil & Gas, Offshore
- Water & Wastewater

Accessories & Options:

- Lubrication Level Guard
- Hose Rupture Detection
- AntiStatic Soft Rollers
- Polymer Coated Housing
- FDA approved hoses
- 3A Sanitary Clamps
- Flanges DIN / ANSI / JIS
- Threaded BSP / NPT / RG
- Dosing Control System
- Process Control Interface
- Variable Speed Drives
- Vacuum Control System
- 110 to 575V, 50/60 Hz
- CSA, FM, PTB, UL etc

LSM

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LSM-015 pumps for Acid and Caustic dosing in a CIP system



Trolley mounted LSM-025 pumping unit for manure in an agriculture facility. The pumps are reversible and are used to fill and empty a reservoir – even with fluids as Lime slurries, manure or Biomass.



LM32 "Low Maintenance" pump. LSM "Low Simplified Maintenance" design will supersede the LM series.



LSM-100 pumps installed in an African mining facility. Part of major order awarded due to the excellent features and superior hose life.



The LSM-200 "Super Size" which replace the LSM-150 "Big Flow" as the "Worlds Largest Peristaltic Hose Pump". Both pumps are designed and manufactured by LSM PUMPS