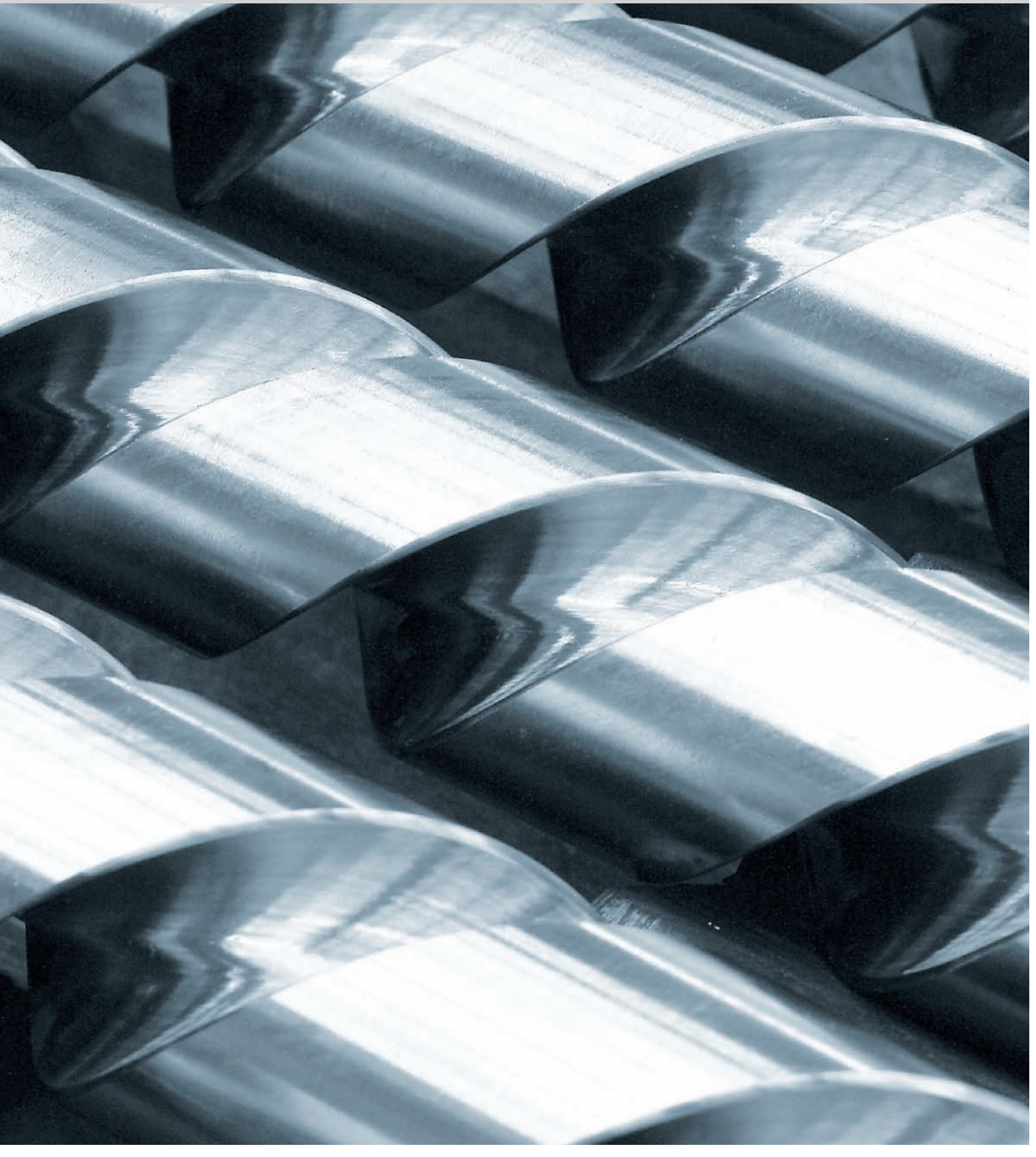
Leistritz

LEISTRITZ PUMPEN GMBH

Leistritz Screw Pumps & Systems



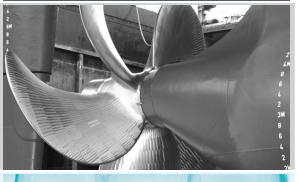
Markets & Industries

Leistritz Screw Pumps and Systems

Leistritz Pumpen GmbH, with its headquarters in Nuremberg/Germany, has been producing Screw Pumps since 1924. Latest Technology in combination with strictly controlled quality is the basis for the globally recognized Leistritz Product Efficiency and Reliability. With the widest range of Screw Pumps Leistritz serves all kind of markets and applications.

- Oil & Gas

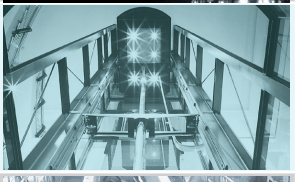
- Commercial and Military Shipbuilding



- Chemicals

- Power Generation

- Hydraulics

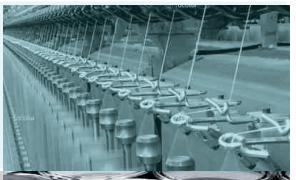


- Pulp and Paper

- Sugar

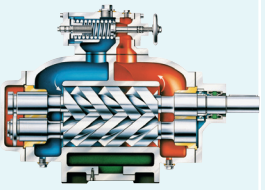
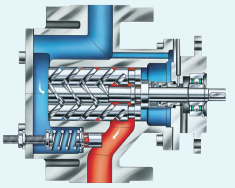
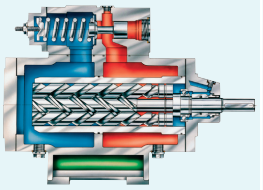
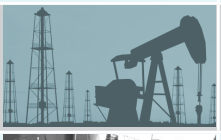
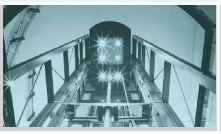
- Steel

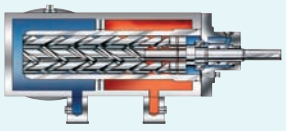
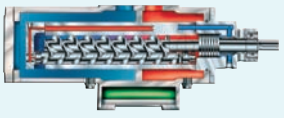
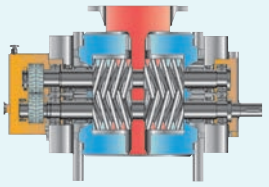
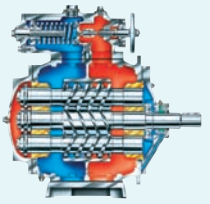
- Textiles



- Paints

Leistritz Screw-Pump-Program

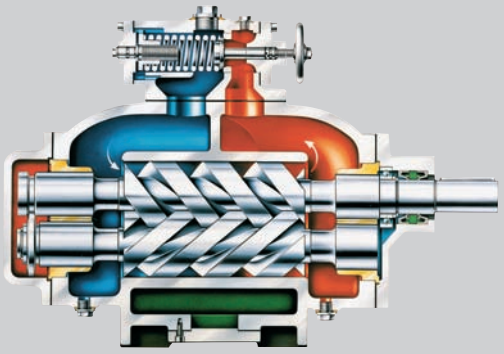
Leistritz Screw-Pump-Series:		L2	L3N	L3M
				
Oil & Gas		■	■	■
Commercial and Military Shipbuilding		■	■	■
Chemicals		■	■	■
Power Generation		■	■	■
Hydraulics				■
Pulp and Paper		■	■	■
Sugar		■	■	■
Steel		■	■	■
Textiles		■		■
Paints		■		■

L3H	L3V/U	L4	L5	LPS
				
■	■	■	■	■
■		■	■	■
■	■	■	■	■
■	■	■	■	■
■	■			
■				
■	■	■		
■	■	■		
■				

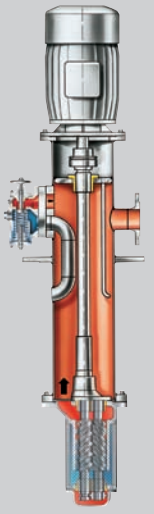
Leistritz Screw-Pump-Program

L2-Series

L2NG



L2NT



GENERAL USE

Leistritz Screw Pumps of series L2NG/NT are Twin Screw single volute, self-priming positive displacement pumps for low pressure duty, suitable for transport of light abrasive and corrosive, high or low viscous fluids with poor or good lubricity.

PERFORMANCE DATA

Capacity:	Max. 900 m^3/h (3,960 GPM)
Differential Pressure:	Max. 16 bar (232 psi)
Viscosity:	Max. 100,000 cSt
Pumping Temperature:	Max. 280 °C (536 °F)

USER ADVANTAGES

- Radial Slight Bearings > Long Service Life
- High Efficiency > Low Operating Costs
- Axially Balanced Rotors > No Axial Forces to Bearings
- Low Axial Flow Velocity > Excellent Priming
- Only One Shaft Seal > Easy Maintenance, Low Costs
- Limited Dry Running Capability > Maximized Process Safety
- Resistant Against Aeration > Low Noise, Minimized Vibration
- Availability of Sealless Design by Magnetic Drive
- Semi Submersible Pump Design Available

APPLICATION

Oil & Gas / Refineries

Use as unloading, stripping, circulating, transfer, blending or export pumps for fluids with poor and good lubricity, clean or slightly abrasive/corrosive fluids, low and high viscous fluids, e.g. lube oils, crude oils, fuel oils, bitumen, tar, asphalt, grease, residues, paraffin. Use as water turbines in fire-fighting systems.

Shipbuilding

Use as (main) lube oil-, transfer-, control-, hydraulic-, cooling/circulating-, fuel oil/diesel pumps for diesel engines, gas-turbines and gearboxes. Use as ship-loading/unloading pumps.

Chemicals

Use as unloading, stripping, circulating, transfer, blending or export pumps for fluids with poor and good lubricity, clean or slightly abrasive/corrosive fluids, low and high viscous fluids, e.g. additives, resins, grease, glue, adhesives, isocyanates, polyol, paints, polymers.

Power Generation and Fuel Oil Systems

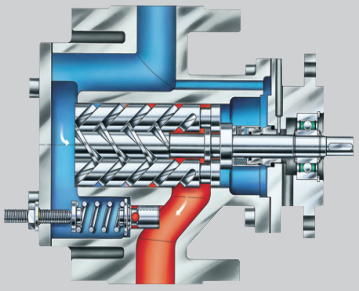
Use as unloading and transfer pumps, charging pumps, for transport of heavy and light oils, pumps for all lubricating fluids.

Rotating and General Machinery

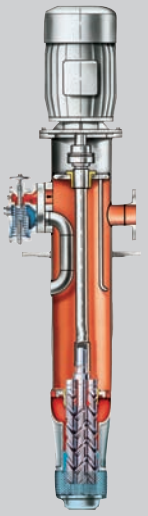
Use as lube oil, seal oil-, control oil-, hydraulic-, cooling/circulating-, fuel oil/diesel pumps for diesel engines, compressors, gas-, steam-, water turbines and gearboxes.

L3N-Series

L3NG



L3NT



GENERAL USE

Leistritz Screw Pumps of series L3NG/NT are Triple Screw single volute, self-priming positive displacement pumps for low pressure duty, suitable for transport of non abrasive lubricating fluids.

PERFORMANCE DATA

Capacity:	Max. 700 m^3/h (3,100 GPM)
Differential Pressure:	Max. 16 bar (232 psi)
Viscosity:	Max. 15,000 cSt
Pumping Temperature:	Max. 180 °C (356 °F)

USER ADVANTAGES

- High Efficiency > Low Operating Costs
- Axially Balanced Rotors > No Axial Forces to Bearings
- Only One Shaft Seal > Easy Maintenance, Low Costs
- Availability of Sealless Design by Magnetic Drive
- Semi Submersible Pump Design Available
- Resistant Against Aeration > Low Noise, Minimized Vibration
- Simple Design > Reasonable Price

APPLICATION

Oil & Gas / Refineries

Use as transfer, circulating, blending or export pumps for all kind of clean, lubricating, low/high viscous fluids, e.g. lube oils, crude oils, fuel oils.

Shipbuilding

Use as (main) lube oil-, transfer-, control-, hydraulic-, cooling/circulating-, fuel oil/diesel pumps for diesel engines, gas-turbines and gearboxes.

Chemicals

Use as transfer, circulating, blending or export pumps for all kind of clean, lubricating, low/high viscous fluids, e.g. additives, resins, grease, glue, adhesives, isocyanats, polyol, paints.

Power Generation and Fuel Oil Systems

Use as transfer and charging pumps for transport of heavy and light oils, pumps for all lubricating fluids.

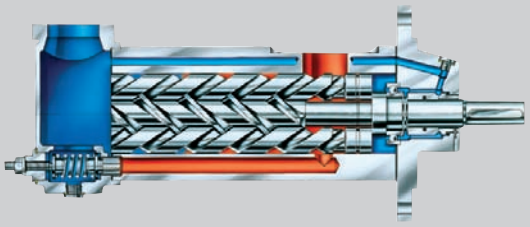
Rotating and General Machinery

Use as lube oil, control oil-, hydraulic-, cooling/circulating-, fuel oil/diesel pumps for diesel engines, compressors, gas-, steam-, water turbines and gearboxes.

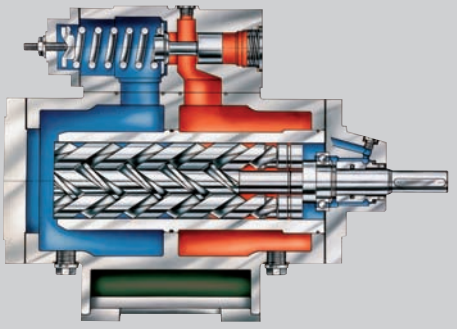
Leistritz Screw-Pump-Program

L3M-Series

L3MF



L3MG



GENERAL USE

Leistritz Screw Pumps of series L3MF/MG are Triple Screw single volute, self-priming positive displacement pumps for medium pressure duty, suitable for transport of non abrasive lubricating fluids.

PERFORMANCE DATA

Capacity (L3MF):	Max. 120 m^3/h (530 GPM)
Capacity (L3MG):	Max. 300 m^3/h (1,320 GPM)
Differential Pressure:	Max. 80 bar (1,160 psi)
Viscosity:	Max. 10,000 cSt
Pumping Temperature:	Max. 280 °C (536 °F)

USER ADVANTAGES

- High Efficiency > Low Operating Costs
- Interchangeable Casing Insert (MG) > Easy Maintenance
- Axially Balanced Rotors > No Axial Forces to Bearings
- Only One Shaft Seal > Easy Maintenance, Low Costs
- Availability of Sealless Design by Magnetic Drive
- Semi Submersible Pump Design Available
- Resistant Against Aeration > Low Noise, Minimized Vibration
- Simple Design > Reasonable Price

APPLICATION

Oil & Gas / Refineries

Use as transfer, circulating, blending or export pumps for all kind of clean, lubricating, low/high viscous fluids, e.g. lube oils, crude oils, fuel oils, bitumen, grease, paraffin. Use as foam injection pumps in fire-fighting systems.

Shipbuilding

Use as lube oil-, transfer-, control-, hydraulic-, cooling/circulating-, fuel oil/diesel pumps for diesel engines, gas-turbines and gearboxes.

Chemicals

Use as transfer, circulating, blending or export pumps for all kind of clean, lubricating, low/high viscous fluids, e.g. additives, resins, grease, glue, adhesives, isocyanates, polyol, paints.

Power Generation and Fuel Oil Systems

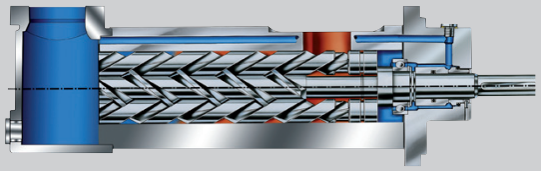
Use as transfer and charging pumps, for transport of heavy and light oils, pumps for all lubricating fluids.

Rotating and General Machinery

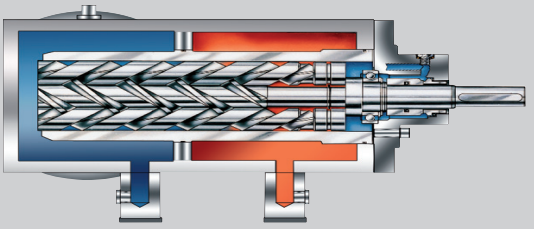
Use as lube oil, control oil-, hydraulic-, cooling/circulating-, fuel oil/diesel pumps for diesel engines, compressors, gas-, steam-, water turbines and gearboxes.

L3H-Series

L3HF



L3HG



GENERAL USE

Leistritz Screw Pumps of series L3HF/HG are Triple Screw single volute, self-priming positive displacement pumps for high pressure duty, suitable for transport of non abrasive lubricating fluids.

PERFORMANCE DATA

Capacity (L3HF):	Max. 120 m^3/h (530 GPM)
Capacity (L3HG):	Max. 200 m^3/h (880 GPM)
Differential Pressure:	Max. 160 bar (2,320 psi)
Viscosity:	Max. 10,000 cSt
Pumping Temperature:	Max. 280 °C (536 °F)

USER ADVANTAGES

- High Efficiency > Low Operating Costs
- Interchangeable Casing Insert (HG) > Easy Maintenance
- Axially Balanced Rotors > No Axial Forces to Bearings
- Only One Shaft Seal > Easy Maintenance, Low Costs
- Availability of Sealless Design by Magnetic Drive
- Semi Submersible Pump Design Available
- Resistant Against Aeration > Low Noise, Minimized Vibration
- Simple Design > Reasonable Price

APPLICATION

Oil & Gas / Refineries

Use as transfer, circulating, blending or export pumps for all kind of clean, lubricating, low/high viscous fluids, e.g. lube oils, crude oils, fuel oils, bitumen, paraffin, grease.

Shipbuilding

Use as hydraulic pumps.

Chemicals

Use as transfer, circulating, blending or export pumps for all kind of clean, lubricating, low/high viscous fluids, e.g. additives, resins, grease, glue, adhesives, isocyanates, polyol, paints.

Power Generation and Fuel Oil Systems

Use as fuel oil injection, seal oil and jacking pumps.

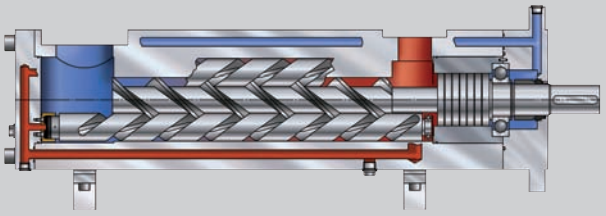
Rotating and General Machinery

Use as fuel oil injection pumps for gas-turbines, seal oil pumps for compressors and gas-turbines, jacking pumps for steam-, water and gas-turbines, hydraulic pumps for presses.

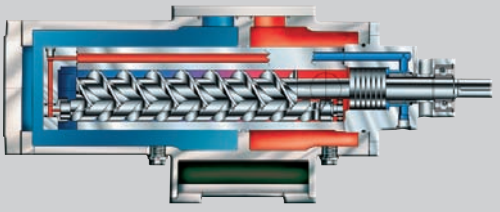
Leistritz Screw-Pump-Program

L3V/U-Series

L3VF/UF



L3VG/UG



GENERAL USE

Leistritz Screw Pumps of series L3VF/UF (VG/UG) are Triple Screw single volute, self-priming positive displacement pumps for ultra high pressure duty suitable for transport of light abrasive and corrosive, high or low viscous fluids with poor or good lubricity.

PERFORMANCE DATA

Capacity:	Max. 180 m^3/h (792 GPM)
Differential Press. (VF/VG):	Max. 200 bar (2,900 psi)
Differential Press. (UF/UG):	Max. 280 bar (4,060 psi)
Viscosity:	Max. 1,000 cSt
Pumping Temperature:	Max. 280 °C (536 °F)

USER ADVANTAGES

- High Efficiency > Low Operating Costs
- Interchangeable Casing Insert (VG/UG) > Easy Maintenance
- Wear Resistant Coatings Available
- Axially Balanced Rotors > No Axial Forces to Bearings
- Only One Shaft Seal > Easy Maintenance, Low Costs
- Availability of Sealless Design by Magnetic Drive
- Semi Submersible Pump Design Available
- Resistant Against Aeration > Low Noise, Minimized Vibration
- Simple Design > Reasonable Price

APPLICATION

Oil & Gas / Refineries

Use as transfer, circulating, blending or export pumps for clean, light abrasive or corrosive, high and low viscous fluids with poor and good lubricity, e.g. lube oils, crude oils, fuel oils, bitumen, asphalt, tar, kerosene, oil/water emulsions, residues, grease, paraffin. Use as crude oil booster pumps.

Shipbuilding

Use as hydraulic pumps.

Chemicals

Use as transfer, circulating, blending or export pumps for for clean, light abrasive or corrosive, high and low viscous fluids with poor and good lubricity, e.g. additives, resins, grease, glue, adhesives, isocyanats, polyol, paints.

Power Generation and Fuel Oil Systems

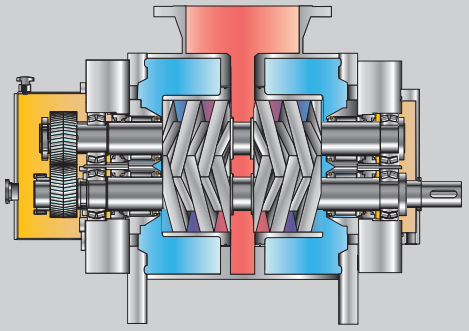
Use as fuel oil injection, seal oil and jacking pumps.

Rotating and General Machinery

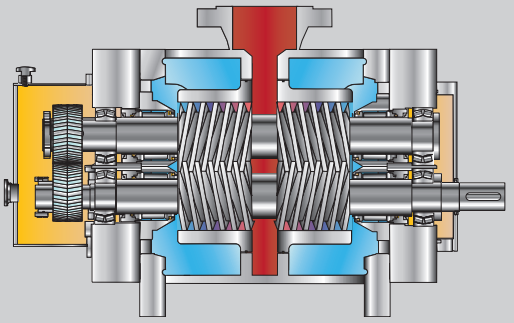
Use as fuel oil injection pumps for gas-turbines, seal oil pumps for compressors and gas-turbines, jacking pumps for steam-, water and gas-turbines, as hydraulic pumps for presses.

L4 -Series

L4NG/MG



L4HG



GENERAL USE

Leistritz Screw Pumps of series L4 are Twin Screw double volute, self-priming positive displacement pumps for low, medium and high pressure duty, suitable for transport of abrasive/non abrasive, corrosive/non corrosive, lubricating/non lubricating, high or low viscous fluids.

PERFORMANCE DATA

Capacity:	Max. 5,000 m^3/h (22,000GPM)
Differential Pressure:	Max. 150 bar (2,175 psi)
Viscosity:	Max. 150,000 cSt
Pumping Temperature:	Max. 350 °C (662 °F)

USER ADVANTAGES

- Rotors (Screws and Shafts) Made out of a Single Piece of Bar Stock
  > Limited Shaft Deflection
  > Low Bearing Loads
- Maximum Allowable Rotor Deflection Limited to 50% of Radial Clearance between Rotor Housing and Rotor > Highest Process Safety
- Gear Designs with Helical Gear Teeth
  > Reduced Noise Level
  > Easy Maintenance
- Interchangeable Liner > Easy Maintenance, Low Costs
- Special Rotor Design Available
  > Minimized Pulsation
  > Optimized NPSHR
- Low Axial Flow Velocity > Excellent Priming
- Axially Balanced Rotors > No Axial Forces to Bearings
- Suitable for Dry Running > Maximized Process Safety

APPLICATION

Oil & Gas / Refineries

Use as pipeline start-up, unloading, tank cleaning, stripping, transfer and booster, circulating, blending and export pumps for all kinds of fluids, e.g. multiphase liquids, crude oils, produced water, crude oil/water emulsions, fuel oils, bitumen, tar, asphalt, grease, residues, paraffin, molten sulphur, kerosene, slops and drains.

Shipbuilding

Use as ship-loading and unloading pumps.

Chemicals

Use as unloading, tank cleaning, stripping, transfer, circulating, blending and export pumps for all kinds of fluids, e.g. additives, resins, grease, glue, adhesives, isocyanates, polyol, paints, acids, caustic solutions, rubber solutions, polymers.

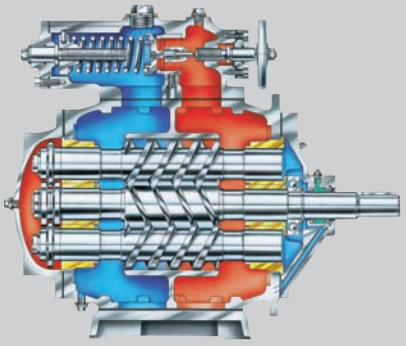
Power Generation and Fuel Oil Systems

Use as unloading, transfer and charging pumps, for transport of heavy and light oils.

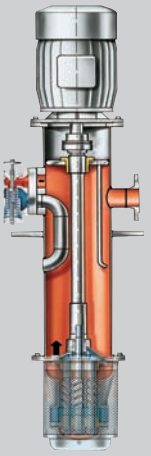
Leistritz Screw-Pump-Program

L5-Series

L5NG



L5NT



GENERAL USE

Leistritz Screw Pumps of series L5NG/NT are Five Screw single volute, self-priming positive displacement pumps for low pressure duty, suitable for transport of light abrasive and corrosive, high or low viscous fluids with poor or good lubricity.

PERFORMANCE DATA

Capacity:	Max. 1,700 m^3/h (7,500 GPM)
Differential Pressure:	Max. 10 bar (145 psi)
Viscosity:	Max. 100,000 cSt
Pumping Temperature:	Max. 280 °C (536 °F)

USER ADVANTAGES

- High Efficiency > Low Operating Costs
- Radial Slight Bearings > Long Service Life
- Axially Balanced Rotors > No Axial Forces to Bearings
- Low Axial Flow Velocity > Excellent Priming
- Limited Dry Running Capability > Maximized Process Safety
- Only One Shaft Seal > Easy Maintenance, Low Costs
- Resistant Against Aeration > Low Noise, Minimized Vibration
- Semi Submersible Pump Design Available

APPLICATION

Oil & Gas / Refineries

Use as unloading, stripping, transfer or export pumps for fluids with poor and good lubricity, clean or slightly abrasive/corrosive fluids, low and high viscous fluids, e.g. lube oils, crude oils, fuel oils, bitumen, tar, asphalt, grease, residues, paraffin. Use as water turbines in fire-fighting systems.

Shipbuilding

Use as main lube oil pump for diesel engines and as ship-loading/unloading pumps.

Chemicals

Use as unloading, stripping, transfer or export pumps for fluids with poor and good lubricity, clean or slightly abrasive/corrosive fluids, low and high viscous fluids, e.g. additives, resins, grease, glue, adhesive, isocyanates, polyol, paints.

Power Generation and Fuel Oil Systems

Use as unloading, transfer and charging pumps, for transport of heavy and light oils, pumps for all lubricating fluids.

LPS-Series

Leistritz-Pump-Systems

Beside simple pump skids, consisting of Leistritz Screw Pumps, drivers and common baseplates, Leistritz supplies complete Pump Systems, suitable for various duties and applications.
These Pump Systems include variable speed drives, external lubrication systems, filtration systems, extended pipings with valves, various instrumentation- and control-systems, recirculation systems, cooling facilities, and fire-fighting systems.
Leistritz Pump Systems are particularly used for Crude Oil Boosting or Multiphase Application.

Leistritz Screw-Pump-Program

Pump-Inquiry-Form

Customer Data			
Date:		Contact Person:	
Company:		E-Mail:	
Street:		Phone:	
Post Code:		Fax:	
City:		Project Name:	

Project-Classification					
Number of Pumps:	☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ ___		Required Delivery Date:		
Market:	☐ Oil & Gas	☐ Chemicals	☐ Power Generation	☐ Shipbuilding	☐ Textiles
	☐ Hydraulics	☐ Steel	☐ Sugar	☐ Paints	
	☐ Other: _____				

Leistritz Pump Scope of Supply/Accessiores				
	☐ Pump	☐ Internal/Top Mounted Safety Valve		☐ External API Safety Valve
	☐ Baseplate	☐ Coupling	☐ Coupling Guard	☐ Drive
	☐ Frequency Inverter	☐ Counter Flanges	☐ Mano-/Vaccuummeter	☐ Commissioning Spares
	☐ 2 Years Operation Spares	☐ Other _____		

Product Specification							
Fluid:							
Density:	_____	Kg/m³					
Operating Temperature:	min:	_____	normal:	_____	max:	_____	°C/°F
Viscosity at Operat. Temp.:	min:	_____	normal:	_____	max:	_____	cst
Solid Content:	_____	% (weight/volume)	Solid Size	min/max:	_____		mm
Characteristics of Solids:	☐ soft		☐ hard				

Operating Data							
Capacity:	min:	_____	normal:	_____	max:	_____	☐ l/min ☐ m³/h ☐ US GPM
Discharge Pressure:	min:	_____	normal:	_____	max:	_____	☐ bar (g) ☐ psi (g)
Suction Pressure:	min:	_____	normal:	_____	max:	_____	☐ bar (g) ☐ psi (g)
Differential Pressure:	min:	_____	normal:	_____	max:	_____	☐ bar (g) ☐ psi (g)
NPSHA:	_____	mwc					
Operation:	☐ continous		☐ discontinous		_____	hrs/day	

Pump-Inquiry-Form

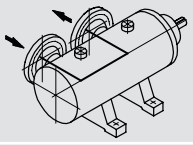
Drive

	☐ E-Motor	☐ Steam Turbine	☐ Reduction Gear	☐ Others _____
	Continous Speed _____		Variable Speed _____	
Voltage:	_____ V	Frequency: _____ Hz	☐ Insulation Class _____	☐ Enclose IP _____
Zone:	☐ Hazardous	☐ Non-Hazardous		
Hazardous:	☐ EExn	☐ EExe II T3	☐ EExd II BT4	☐ Other _____

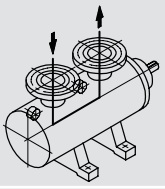
Pump Execution

Shaft Sealing:	☐ Stuffing Box	☐ Mechanical Seal: ☐ single ☐ double		
	☐ Radial Lip Seals	☐ Magnetic Coupling (Sealless)		
Installation:	☐ Horizontal	☐ Vertical	☐ Flanged	☐ Submerged
Flange Position:	☐ Supplier Standard			
	☐ Other, see below			

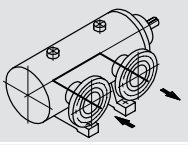
☐ **NR** side by side, right



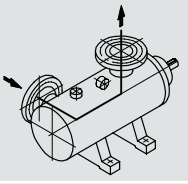
☐ **NO** side by side, top



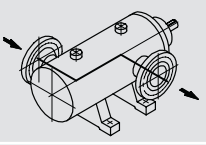
☐ **NL** side by side, left



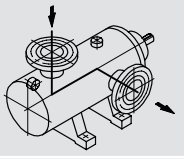
☐ **RRO** rectangular right to top



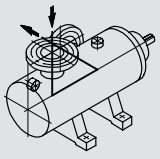
☐ **VRL** offset right to left



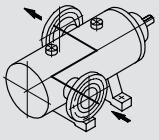
☐ **ROL** rectangular top to left



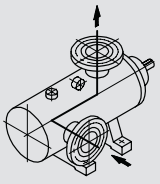
☐ **ROR** rectangular top to right



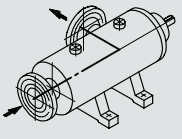
☐ **VLR** offset left to right



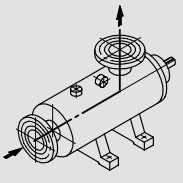
☐ **RLO** rectangular left to top



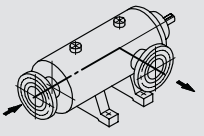
☐ **RER** rectangular end to right



☐ **REO** rectangular end to top



☐ **REL** rectangular end to left



Applicable Standards

☐ DIN/EN	☐ API 676	☐ API 614	☐ Other _____

Remarks

_____

_____

_____

_____

_____

Leistritz
Product Range

LEISTRITZ TURBOMASCHINEN TECHNIK GMBH
LEISTRITZ TURBINENTECHNIK GMBH
LEISTRITZ (THAILAND) LTD.
LEISTRITZ TURBINSKE KOMPONENTE BELISCE D.O.O.
Blades, Disks and Components for Turbines and Compressors

LEISTRITZ PUMPEN GMBH
Screw Pumps and Systems

LEISTRITZ EXTRUSIONSTECHNIK GMBH
Extruders

LEISTRITZ PRODUKTIONSTECHNIK GMBH
Tubing Technology/Sheet Metal Forming, Machine Tools, Tools
Profile Rolling Machines and Rolling Tools

■ Headquarter Nuernberg:
LEISTRITZ PUMPEN GMBH
Markgrafenstrasse 29-39
D-90459 Nuernberg
Germany
Phone: +49 (0)911/4306 - 0
Fax: +49 (0)911/4306 - 490
E-Mail: pumpen@leistritz.com
www.leistritz.com

● LEISTRITZ ITALIA SRL
Via dei Fontanili, 26
I-20141 Milan
Italy
Phone: +39 02 84477 451
+39 02 84477 505
Fax: +39 02 84477 444
E-Mail: pompeitalia@leistritz.com

▲ LEISTRITZ CORPORATION USA
165 Chestnut Street
USA-Allendale, NJ 07401
USA
Phone: +1 201/934 8262
Fax: +1 201/934 8266
E-Mail: staff@leistritzcorp.com

1.2 - 38 e 08/13 1,5' tü