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.
# Leistritz Screw-Pump-Program

<table>
<thead>
<tr>
<th>Leistritz Screw-Pump-Series:</th>
<th>L2</th>
<th>L3N</th>
<th>L3M</th>
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Leistritz Screw Pump Series: L2 L3N L3M L3H L3V/U L4 L5 LPS

Oil & Gas
Commercial and Military Shipbuilding
Chemicals
Power Generation
Hydraulics
Pulp and Paper
Sugar
Steel
Textiles
Paints
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.

**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 firefighting 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.
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.

**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.

**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

**PERFORMANCE DATA**

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<thead>
<tr>
<th>Parameter</th>
<th>L3NG</th>
<th>L3NT</th>
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<tr>
<td>Capacity:</td>
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<tr>
<td>Differential Pressure:</td>
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<tr>
<td>Viscosity:</td>
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<tr>
<td>Pumping Temperature:</td>
<td>Max. 180°C (356°F)</td>
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</table>
Leistritz Screw-Pump-Program

L3M-Series

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.

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.

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

PERFORMANCE DATA
- Capacity (L3MF): Max. 120 m³/h (530 GPM)
- Capacity (L3MG): Max. 300 m³/h (1,320 GPM)
- Differential Pressure: Max. 80 bar (1,160 psi)
- Viscosity: Max. 10,000 cSt
- Pumping Temperature: Max. 280°C (536°F)

APPLIED TECHNOLOGY
- L3MF
- L3MG
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.

**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.

**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 m³/h (530 GPM)
- Capacity (L3HG): Max. 200 m³/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
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.

**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 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.

**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 m³/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
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.

**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.

**PERFORMANCE DATA**

- **Capacity:** Max. 5,000 m³/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

![Image of L4NG/MG](image1.png)

![Image of L4HG](image2.png)
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.

**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 firefighting 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.

**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 m³/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
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 firefighting systems. Leistritz Pump Systems are particularly used for Crude Oil Boosting or Multiphase Application.
# Leistritz Screw-Pump-Program

## Pump-Inquiry-Form

### Customer Data

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### Project-Classification

- **Number of Pumps:** 1, 2, 3, 4, or ___.
- **Required Delivery Date:**

### Market:

- Oil & Gas
- Chemicals
- Power Generation
- Shipbuilding
- Textiles
- Hydraulics
- Steel
- Sugar
- Paints
- Other: _______________________________

### Leistritz Pump Scope of Supply/Accessories

- Pump
- Internal/Top Mounted Safety Valve
- External API Safety Valve
- Baseplate
- Coupling
- Coupling Guard
- Drive
- Frequency Inverter
- Counter Flanges
- Mano-/Vacuummeter
- 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: continuous, discontinuous
  - hrs/day: _____
# Pump-Inquiry-Form

## Drive
- [ ] E-Motor
- [ ] Steam Turbine
- [ ] Reduction Gear
- [ ] Others

- Continuous Speed
- Variable Speed

- Voltage: [ ] V
- Frequency: [ ] Hz

- Insulation Class: [ ]
- Enclose IP: [ ]

- Hazardous: [ ] EExn
- Non-Hazardous: [ ] EEex II T3
- Other: [ ] EEExd II BT4

## 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

![Pump Execution Diagrams](image)

## Applicable Standards
- [ ] DIN/EN
- [ ] API 676
- [ ] API 614
- [ ] Other

## Remarks

- [ ]
- [ ]
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LEISTRITZ TURBOMASCHINEN TECHNIK GMBH
LEISTRITZ TURBINENTECHNIK GMBH
LEISTRITZ (THAILAND) LTD.
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Blades, Disks and Components for Turbines and Compressors

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Screw Pumps and Systems

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Extruders

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

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