

PUMP TECHNOLOGY **L4NC**

The new compact screw pump design for the oil & gas industry!

- ✓ With focus on tank farm applications such as transfer, stripping, loading and unloading pumps. Further applications: Up- and midstream, shipbuilding and other offshore technology, chemical and petrochemical industry
- Developed for low capital expenditure (CAPEX) combined with highest efficiency and reliability for optimized operational expenditure (OPEX)

1 Pump Casing:

- → Economic and slim design for reduced weight
- ✓ Cast steel (1.0619) with integrated liner
- → ANSI & DIN flanges possible

2 Spindles:

- → Single bar stock for maximum stiffness
- → Case-hardened steel (1.7139), nitrided for max.
 hardness
- → Side by side arrangement for excellent lubrication capabilities of spindle, bearings and seals
- → Smooth running with reduced bearing load

3 Timing gears:

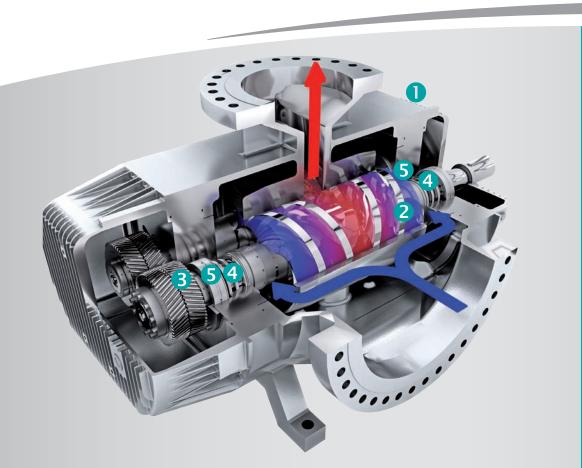
External double helical gear for efficient power transmission

4 Mechanical seal:

- → Single acting seals
- Component or cartridge design (API conform) possible
- ▶ API Plan 02 or 11 with or without oil/steam quench

5 Bearings:

- → Self-aligning roller bearings on DE and NDE side
- Oil lubricated as an API 676 demand and better lubrication of the shaft seals
- External lube oil cooler and systems for special applications possible

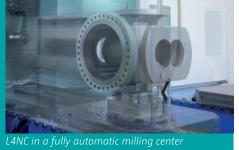














L4NC milling of pump casing





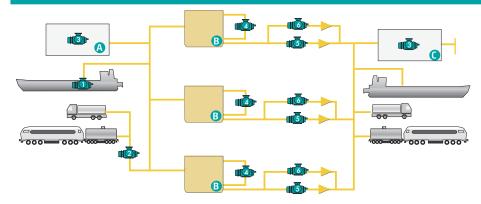
Final assembling of spindles for L4NC

Leistritz

OPERATING CONDITIONS

Viscosity	up to 10,000 mm ² /s
Temperature	up to 100 °C
Flow rate	up to 5,000 m³/h
Suction pressure	Cavitation limit up to 5 barg
Differential pressure	up to 20 barg
Casing design pressure	25 barg
Speed	up to 3,600 1/min

L4NC IN TANKFARM APPLICATIONS



- Crude and refined product
- On-Board crude oil cargo pump Circulation pump
- 2 Crude oil unloading pump
- **3** Booster pump

- Oil field

 - Storage tank
- **5** Stripping pump 6 Loading and transfer pump 6 Booster station

DESIGN CODE Seal Pump series Pump size Design code Mounting flange: Small B14 Inlet-Outlet: Side in top out Shaft sealing: Mechanical seal Roller bearing: External Pressure range Mounting: Foot Heating: Without Leistritz C 0 Κ R G Ν 135 29 46 63 80 172 38 65 83 105 106 133 51 230 78 295 98 132 166 345 95 126 158 190 395 120 146 173 200

177 200

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Subsidiaries: