

The **MTS RANGE**

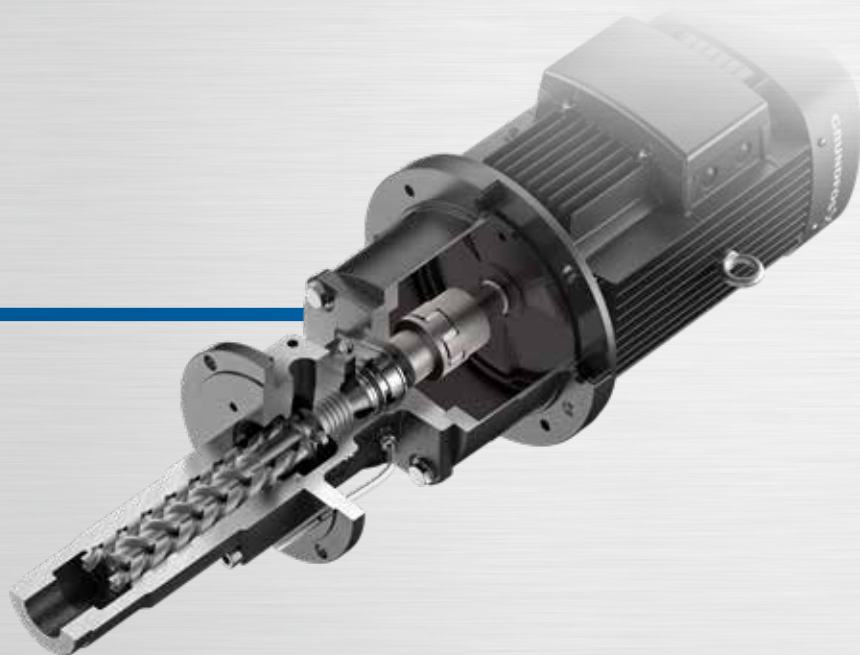
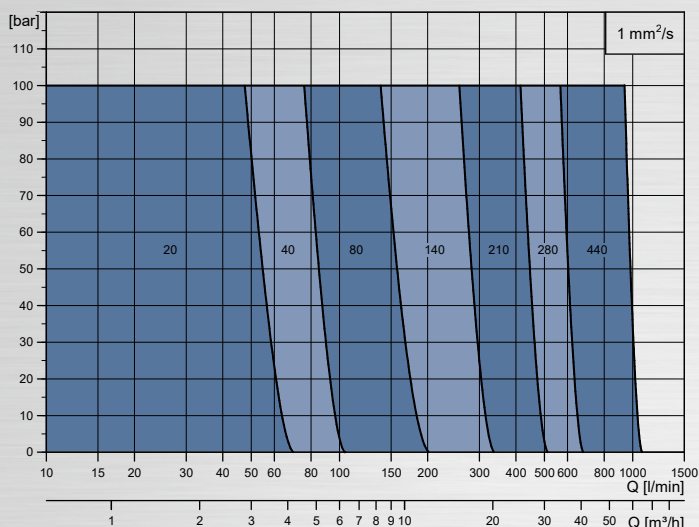
– high pressure screw pumps

Grundfos MTS pumps are screw pumps designed for high pressure pumping of cooling lubricants and cutting oils for machine tool applications. These pumps come with various pump sizes and screw pitches to provide the flow and pressure required.

Using MTS screw pumps in machine tool applications, where high pressure is required, results in an increased surface quality and a decreased machining time. The MTS pump is available in different installation variants, such as tank top, in-tank and dry installation, all with a range of connection options.

Pump capabilities:

Flow rate:	max 64.5 m ³ /h (1075 l/min)
Head:	max 100 bar
Motor:	1.5-200 kW
Liquid temp.:	0 °C to +80 °C
Liquid:	Min 2 % oil
Viscosity:	1 to 2000 mm ² /s
Pump sizes:	16



- Motor**
 Standard IE3 motor. Motor protection directly from PTC. IP55 as standard, available in a tropicalised variant for condensing environments.
- Screw pump design**
 High efficiency from the unique three-screw pump design and fine tolerances lead to operation with reduced cooling efforts and low operational costs
- Resistance to high pressure**
 The extra-long pressure compensation piston with labyrinth seal and the hydrostatic axial thrust balancing with special pressure-compensation bushings increase resistance to high pressure
- Maintenance-free sealing**
 Seal ring or mechanical seal according to EN 12796
- Broad range**
 Large number of pump sizes and pitch angles for different flows, and tank top, dry and horizontal installation

- Operation**
 Low vibration and noise level and long lifetime from highly wear-resistant hardened rotor housing and PVD-coated spindles
- Materials**
 Rotor housing: Special hardened, 1200 HV
 Screws: PVD coating, 1200 HV
- Connections**
 Internal thread: Rp
 Flange: SAE
- Leakage inspection tube**
 The transparent tube allows you to see when any leakage starts, enabling you to plan maintenance

APPROVALS

Meets current motor and pump efficiency requirements applicable in your market