

LubiCool®-XS high-pressure unit

**KNOLL**  
.It works

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## Features

Compact and mobile

Plug-and-Play

High pressure up to 70 bar

Effective filtration with filter element

Wear-resistant screw spindle pump

Attractive price-performance ratio

## Benefits

- Space-saving and flexible installation possible under standard bar loading magazines
- Fast installation
- Easy retrofitting
- Short, easy broken chips
- Reduced machining times thanks to higher cutting speeds
- Increased tool life
- Long service life of components and cooling lubricants
- Long service life of the filter element
- Low effort when changing the filter element
- Lockable filter element
- Long service life and high process reliability
- Short payback period

## Application

The KNOLL high-pressure unit LubiCool®-XS is a mobile high-pressure unit for chip-forming machine tools, in particular sliding headstock automatic lathes used in micro-machining. The unit is used for cleaning the cooling lubricant and for supplying the machine with high pressure.

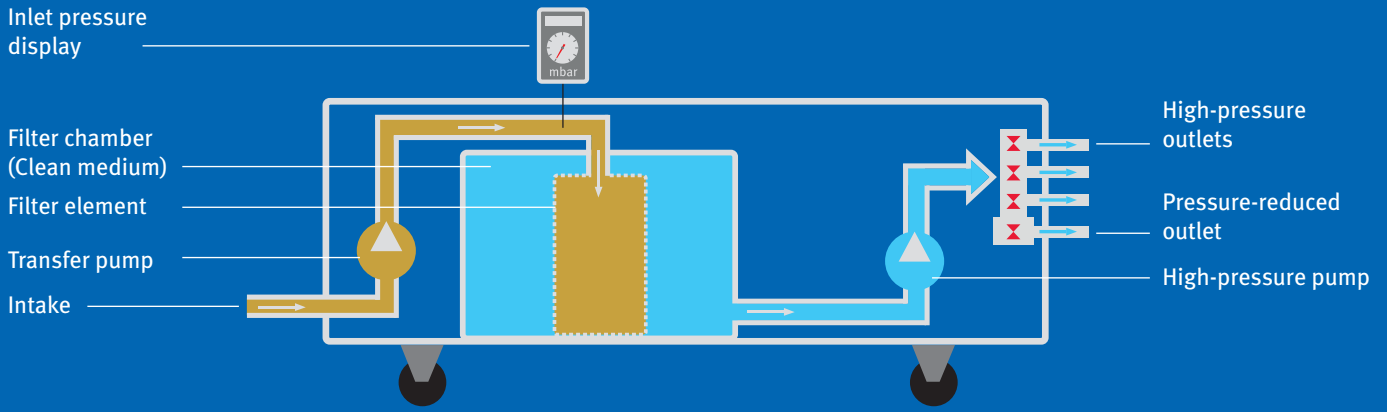
It is suitable, among other things:

- For demanding machining processes
- For machining difficult materials (e.g. high-alloy steels, titanium, copper, bronze)
- For every confined installation situations and limited available space
- For initial equipment and retrofitting

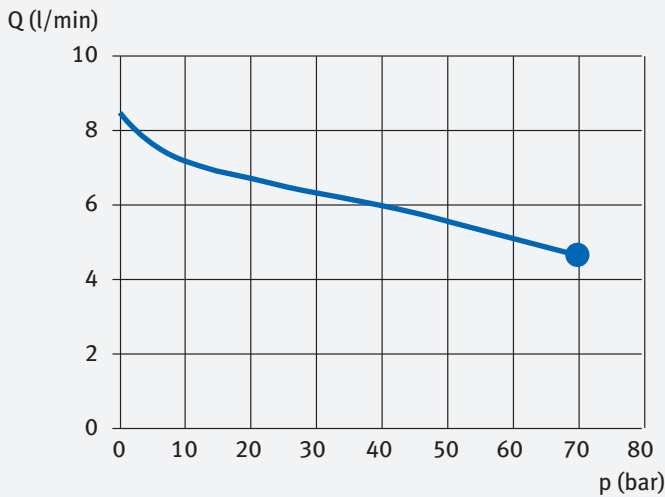
## Description

1. The transferpump conveys the contaminated coolant from the machine tool into the filter element.
2. The filter element separated very small chips, fine particles, and foreign matter from the coolant.
3. The cleaned coolant flows into the filter chamber.
4. The high-pressure pump supplies the machine tool with cleaned coolant via switchable outlets.
5. An LED-status indicator enables monitoring of the operating states of the high-pressure unit.

# Diagramm



## Pump characteristic curve KTS 20-30-T-G



Viscosity: 20 mm<sup>2</sup>/s  
 Pressure: 70 bar  
 Flow rate: 4.8 l/min

## Equipment

Enclosure	●
KNOLL screw spindle pump KTS	●
1 fixed pressure stage (HPB valve)	●
Filter element	●
Transfer pump	●
Control system	●
LED status indicator	●
Interface cabel (customized)	●
3 switchable outlets	●
1 pressure-reduced outlet	○
Copper-free version	○
Flexibel setting up to 7 pressure stages (SPB valve)	○

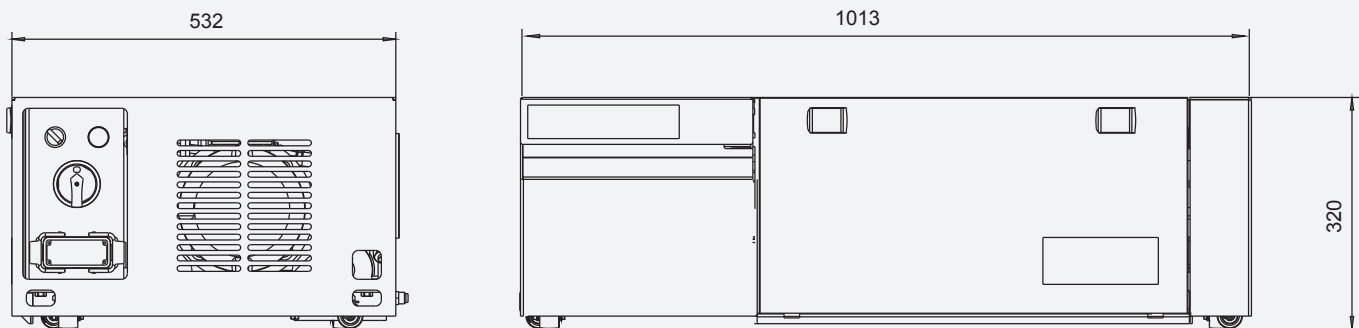
● Basic equipment  
 ○ Option

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LubiCool®-XS

Dimensions and technical Data



High-pressure pump connection cable	1.5 kW
Transfer pump connection cable	max. 0.48 kW
Transfer pump connection cable	Up to 70 bar
Volume flow	Up to 7 l/min (Öl)
Grade of filtration	25 µm
Cooling lubricant	Oil
Power supply	400 V / 50 Hz
Dimensions (L x W x H)	1013 x 532 x 320 mm