

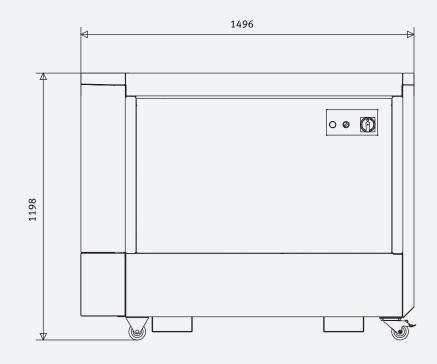
High pressure unit LubiCool®-M

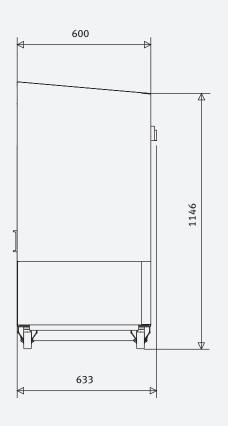
KNOLL Maschinenbau GmbH

Schwarzachstraße 20 DE-88348 Bad Saulgau Tel. +49 7581 2008-0 Fax +49 7581 2008-90140 info.itworks@knoll-mb.de www.knoll-mb.com www.lubicool.com



Dimensions and technical data





Connected load high-pressure pump	5.5 kW
Connected load transfer pump	0.63 kW
Pressure range	Up to 150 bar
Volumetric flow	Up to 27 l/min
Filter fineness	Up to 20 μm
Cooling lubricant	Emulsion, Oil
Power supply	400 V / 50 Hz
Tank capacity	150 l
Dimensions (L x W x H)	1496 x 600 x 1198 mm
Filter fineness Cooling lubricant Power supply Tank capacity	Up to 20 µm Emulsion, Oil 400 V / 50 Hz 150 l



Properties	Benefits
Compact and mobile	Space-saving and flexible installation
Plug-and-Play	Fast installation
	Easy retrofitting
High pressure up to 150 bar	Short-breaking chips
	 Reduced processing times due to
	higher cutting speeds
	Extended tool life
Effective filtration via belt filter	 Reduced concentration of ultra-fine particles
	 Long service life of components and the cooling
	lubricant (CL)
Wear-resistant screw spindle pump	Long service life and process reliability
Demand-driven pump control	Lower energy costs
	 Lower heat development
	Longer durability
Attractive price-performance ratio	Short amortization time

Application

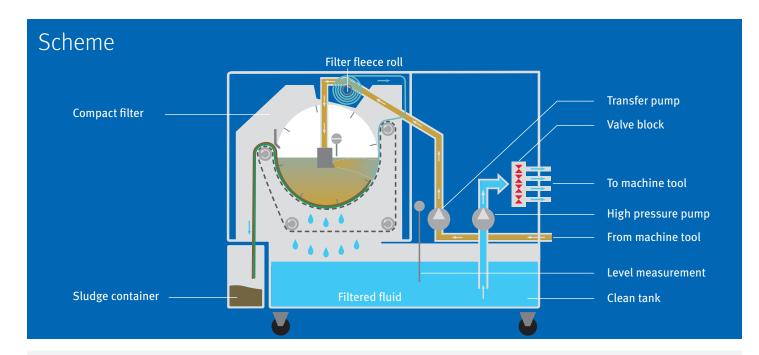
The KNOLL high pressure unit LubiCool®-M is a mobile high pressure unit for machine tools, particulary fixed- and sliding headstock automatic lathes. The system cleans the CL and provides the machine with high pressure.

It is suitable for

- demanding machining processes
- deep hole drilling in one move
- processing with difficult materials (e.g. high-alloyed steel, titanium, copper, bronze)
- original equipment and retrofitting

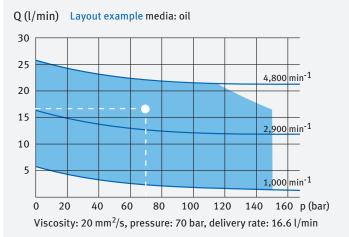
Description

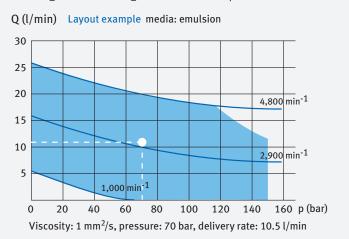
- 1. The transfer pump pumps the dirty CL from the machine tool into the compact filter.
- 2. The compact filter separates chips and the soiling from the CL, which flows in the clean media tank.
- 3. The dirty fleece is collected in the sludge container.
- 4. The high pressure pump provides the machine tool with cleaned CL through switchable outputs.
- 5. The integrated touchpad allows the control and visualization of the most important system parameters.



Pump characteristic curve

With the optional frequency control, every point within the diagram in the light blue area is possible.





Equipment

Paneling	•
KNOLL compact filter KF (with filter fleece)	•
KNOLL screw pump KTS	•
Transfer pump	•
KNOLL SmartConnect control incl. touchpad and LED-status light	•
Interface cables (individual)	•
Clean tank	•
Sludge container	•
4 switchable outputs	•
4 additional swichable outputs	0
Frequency inverter	0
Cooling (continuous flow cooler, plate heat exchanger or piggyback plate heat exchanger)	0
WHG-sensor	0
Hose set	0
Pressure reduction for spindle flushing	0
Temperature sensor	0

Standard equipmentOption



