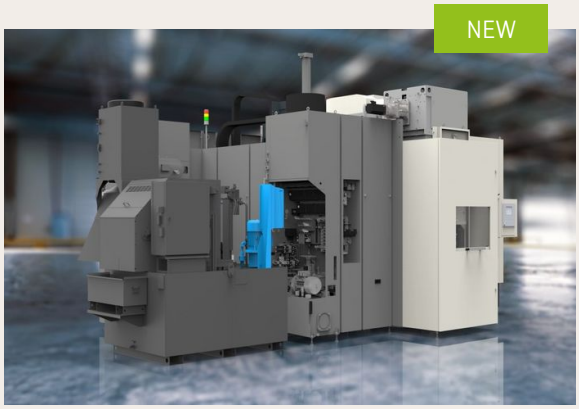
BLUE Coolant

Sustainability | Energy Efficiency



Series

MC | MCi | MCH | MCH-C | H | F | C

Control

SIEMENS Powerline | SIEMENS Solutionline

Via intelligent control of the high-pressure coolant pump, BLUE Coolant allows you to save energy in a sustainable manner for a significant reduction in operating costs – without any compromise.

Characteristics

- Control of high pressure pump with frequency converter
- Direct adjustment of the high pressure coolant pump's volume flow and hence the energy consumption to the machining task concerned
- Motor and pump are retained
- Compared to the standard high-pressure coolant pump:_ Energy savings per year (exemplarily for H2000 Gen.2): -7,200 kWh*
- CO2 savings per year (exemplarily for H2000 Gen.2): -3,125 kg CO2*
- * = Assumption energy statuses per day - STANDBY 4h, OPERATIONAL 4h, WORKING (with maximum cooling capacity in spindle warm-up) 16h. Energy statuses pursuant to VDMA form 34179, carbon emission according to the current fuel mix in Germany 434 g/kWh, with 250 working days per year

Benefits

- Up to approx. 70% energy savings depending on the machining process, compared to a system without frequency control
- Process-adapted speed results in lower noise level
- Longer service life of the high-pressure coolant pump
- Reduction of long-term maintenance costs
- Potential additional savings with use of coolant cooling

Requirements

- Coolant unit (manufacturer KNOLL)