

# COOLANT CONTROLLER

Lubricoolant control module for frequency-controlled pumps and control valves

## YOUR ADVANTAGES:

- + grindaix control unit for fully automatic adjustment of the lubricoolant exit speed during grinding
- + needs-based, process- and cycle-dependent lubricoolant supply with maximum energy efficiency
- + calculation of pump consumption data (volume flow, energy consumption)
- + setpoint selection possible during the machining process
- + connection for the machine control system via analog channels or Profibus
- + several pump and valve circuits possible
- + expansion possibilities (e.g. differential pressure, temperature, direct power measurement/filter monitoring)



from €6,490 (net)

## LUBRICOOLANT CONTROL MODULE FOR FREQUENCY-CONTROLLED PUMPS AND CONTROL VALVES

Intelligent controls are gaining in importance in the context of the energy-saving measures and needs-based use of resources in machine tools. To guarantee the required quality of your product in a consistently cost-efficient way, precise lubricoolant supply is necessary.

The grindaix needle nozzles ensure optimum coverage of the grinding profile, while the grindaix audits analyse your grinding process with respect to lubricoolant requirements at the grinding site as well as at other components requiring lubricoolant supply.

The grindaix Coolant Controller ensures the necessary supply conditions in running operation. This guarantees optimum grinding results with minimum resource usage. Depending on the process – roughing, finishing, fine finishing or rinsing – our controlled pumps or valves always run in the required operating points.

Consisting of a controller with innovative calculation software, the module controls the lubricoolant supply to the nozzles according to pressure, exit speed and volume flow specifications.

The lubricoolant exit speed, in particular, is a decisive value for the machining process, whereas pressure data is less significant. The target value is always stored in the machining program of the machine and transferred to the Coolant Controller during machining. This ensures that precisely the right amount of lubricoolant is always supplied to the process with minimum energy consumption.

Your optimized lubricoolant supply system consistently guarantees maximum grinding quality with reduced energy consumption and thus lower CO<sub>2</sub> emissions, less lubricoolant consumption per workpiece and a higher tool life.

In addition, the energy consumed may be displayed, thereby supporting you in generating a CO<sub>2</sub> balance and in making reliable consumption prognoses for your company.

The Coolant Controller is available with a separate man-machine interface for manual intervention or as a “Black Box” for processing target values from the machine control system.

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