

Coolant Products

COOLANT BOX

LUBRICOOLANT PRESSURE BOOSTING STATIONS FOR MACHINE TOOLS

The requirement per lubricoolant exit in your machine is the crucial control variable, not merely the supply pressure!



YOUR ADVANTAGES:

- + optimum supply to all lubricoolant exits and lubricoolant consumption points of your machine
- + minimum lubricoolant consumption
- + fully automated pump control per nozzle, process setting and cycle
- + the most productive supply to the machining site
- + efficient supply to the other lubricoolant consumption points
- + automatic comparison of all lubricoolant exits (volume, lubricoolant exit speed)
- + consumer-specific settings possible
- + incl. the Coolant Controller control module
- + incl. connection for the control system (machine tool)
- + pumps with frequency control dimensioned according to needs

GRINDAIX LUBRICOOLANT PRESSURE BOOSTING STATIONS WITH NEEDS-BASED, NOZZLE-SPECIFIC COOLANT VOLUME CONTROL

Requirements with respect to lubricoolant supply in machine tools are very different depending on the particular **machining situation**. At **machining sites**, a high exit speed is required; with **bed flushing**, high cleaning efficiency is demanded. In all cases, the **lubricoolant volume flow** needs to be as low as possible.

The interplay of all lubricoolant exits/nozzles, the needs-based consumption data relating to them and the associated pressure supply are the key to success – it is not simply a matter of controlling the lubricoolant pressure at the machine infeed. The pressure at your lubricoolant exits and the resulting exit power (pressure, volume flow, lubricoolant exit speed) are the decisive variables which need to be known. Only then is your lubricoolant supply robust and calculable!

Via **frequency-controlled pumps**, the lubricoolant status can be adapted manually to the particular requirements (pressure, volume flow, velocity of the lubricoolant) of different machining situations. It can also be set for each individual consumption point and changed via the control system.

The Coolant Box is a plug-and-play solution:

Standardized connections with quick-change systems, flexible positioning, for all oils and emulsions.

Control of the Coolant Box is achieved fully automatically via the **integrated Coolant Controller module**. This allows setpoint selection of volume flow or exit speed at each individual lubricoolant nozzle, depending on what your machine is doing – dressing, grinding, bed flushing, drilling, milling or turning. Our pumps are adjusted accordingly and supply only what is needed at the most energy-efficient speed. This renders your processes more robust and saves a lot of money!

We can determine the **requirements of your individual machine** by means of a Coolant Audit. This enables the Coolant Box to be precisely dimensioned in such a way that it covers your application area completely but not wastefully.

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