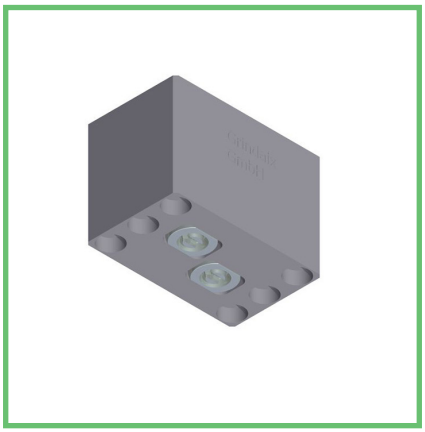
grindaix
A QUAKER HOUGHTON COMPANY

LUBRICOOLANT SUPPLY SYSTEM FOR **GRINDING WHEEL CLEANING**

CHALLENGES

In certain grinding applications, the chip formation geometry and the material of the component to be machined may lead to clogging of the grinding wheel surface (grains and pore spaces). This impairs the cutting efficiency of the grinding wheel and leads to quality problems on the part (surface defects and grinding burn) as well as to increased tool wear. To prevent this, special high-pressure lubricoolant nozzles are used for cleaning the grinding wheel.



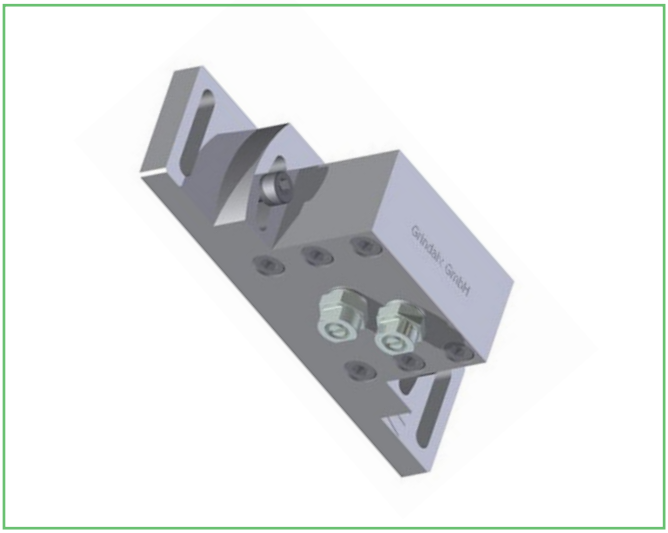
However, users often do not have sufficient information on

- suitable nozzles for wheel cleaning
- suitable lubricoolant volumes and exit speeds for achieving the desired cleaning effect
- positioning the nozzles
- selecting a suitable pump for adequate and energy-efficient supply of the nozzles

Clean your Nozzles with Minimum Energy Costs.

OUR SOLUTION

The Grindaix cleaning system comprising **nozzles, application recommendation and pumps** customised to your requirements.





HP CLEANING PACKAGE (HIGH PRESSURE)

- Nozzles designed for high-pressure application and for the application geometry
- Standard nozzle widths up to 100mm
- Suitable for particularly difficult cases of clogging and high circumferential speeds
- Pressure range: 30-60 bar
- Pump: suitable screw spindle pump

LP CLEANING PACKAGE (LOW PRESSURE)

- Analyses have shown that at a certain nozzle distance a pressure of only 20 bar is often sufficient for achieving a good cleaning effect
- Adapted nozzles in standard widths up to 100 mm; also nozzles with radial and angle adjustment including adjustment scale
- Pressure: approx. 20 bar
- Pump: centrifugal pump – less prone to wear than a screw spindle pump and less energy consumption due to lower pressure



ORDER INFORMATION

Grindaix nozzles for grinding wheel cleaning

Name	Description
RD-20-LP	nozzle, 20 mm wide with LP pump
RD-20-HP	nozzle, 20 mm wide with HP pump
	other nozzle widths up to 100 mm available

Auxiliary Equipment

Name	Description
Pressure Sensor	analog/digital
Pressure Sensor Connector	standard ¼“
Compressed Air Connector	nozzle cleaning ø ¼“
Quick-Change Systems	quick release/interchangeable head

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