



Coolant Supply Systems for HONING

Improve your productivity
Reduce your CO2 emissions

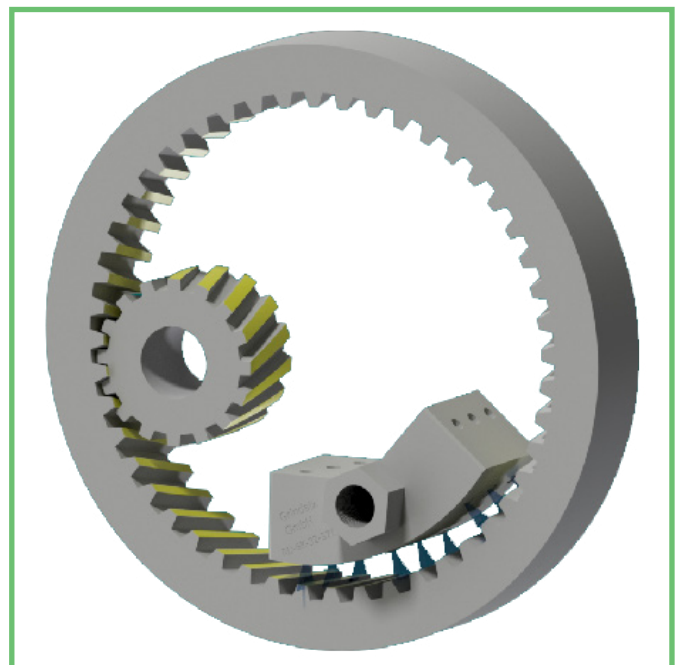
In gear honing, the special Grindaix nozzle enables the honing ring to be cleaned efficiently and at the same time ensures an adequate coolant supply for the honing process.

FUNCTION

Shortly before the machining point, the honing ring is first freed from any clogging and then the free pore spaces are filled with coolant. Due to the rotary motion of the honing ring, the coolant is guided into the machining zone. The Grindaix nozzle for gear honing is available in two versions. A) high pressure (screw pump 40 bar) and b) low pressure (centrifugal pump 20 bar). The nozzles are suitable for oil and emulsion and are available for all honing ring geometries. The nozzle is positionally stable and flexibly positionable up to 50 bar by means of an articulated hose.

! OUR SOLUTION

Individually designed Grindaix nozzles for honing allow a targeted coolant supply.



Grindaix cleaning nozzle

SAMPLE CALCULATION (FOR OIL)

Nozzle	Pressure	Volume flow
Cleaning nozzle	40 bar	45 l/min
Cleaning nozzle	60 bar	55 l/min

THE NOZZLE CHARACTERISTIC CURVE

The nozzle diagram is intended to provide you with a first aid for the realisation of a suitable supply of the nozzle with regard to pressure and volume flow.



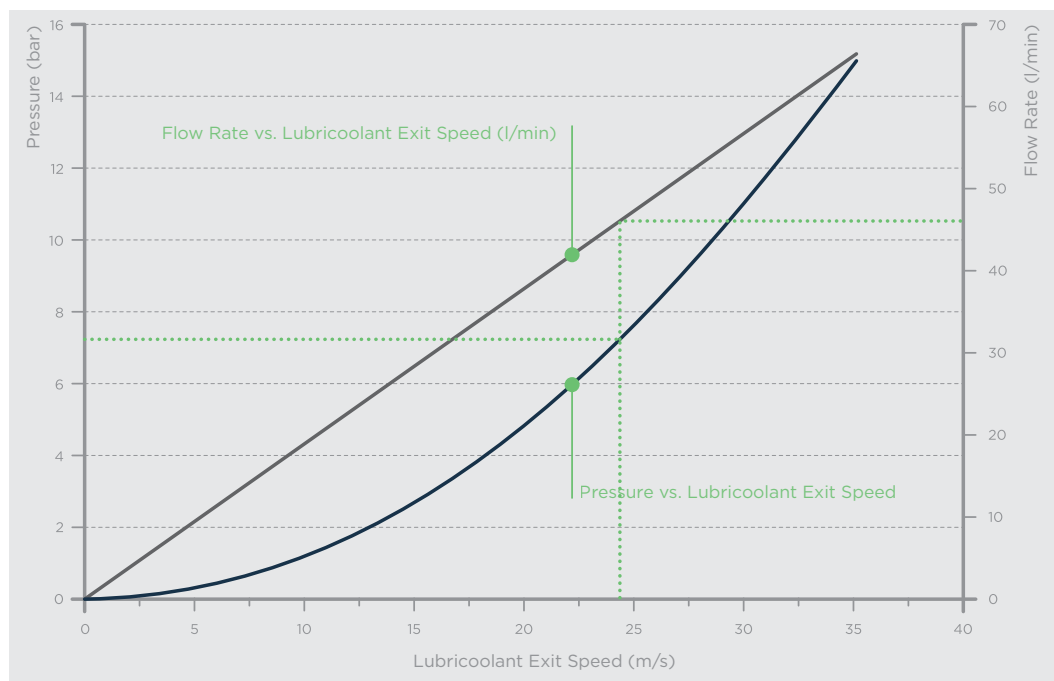
It shows the total pressure (static and dynamic) that would be measured directly in front of the nozzle. This pressure does not correspond to your pump pressure or the delivery head of the pump.

Pressure losses in the supply line between pump and nozzle as well as influences of possible other cooling

lubricant outlets on the same supply line are not considered. These factors can be included and evaluated in a COOLANT AUDIT offered by us. Only in this way can your system be designed to optimise consumption.

Starting from the print, you will find the corresponding coolant outlet speed directly. Using the grey straight line you will then find the correlation between the cooling lubricant outlet speed and the associated cooling lubricant volume flow.

EXAMPLE NOZZLE CHARACTERISTIC CURVE



ORDER INFORMATION

Grindaix Nozzle

Name	Description
ND-SK-	The nozzles are individually designed for the geometric parameters of the grinding application. All nozzles incl. characteristic curves.

Zubehör

Name	Description
Pressure Sensor	analog/digital
Pressure Sensor Connector	standard 1/4"
Compressed Air Connector	nozzle cleaning \varnothing 1/4"
Wear Protection	available in all widths and geometries
Profile geometry stabilizer	available in all widths and geometries
Coolant Pointer	laser adjustment aid - nozzle positioning
Coolant Display	device for grinding burn monitoring

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