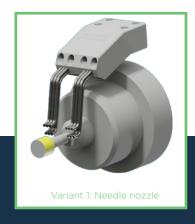


Coolant Supply Systems for



CAGE GRINDING

Improve your productivity Reduce your CO2 emissions

With cage internal grinding, there is very little space for mounting a coolant nozzle. For this reason, we have developed a Grindaix nozzle which is mounted on the grinding headstocks and guarantees optimum coolant supply to hard-to-reach machining zones via specially curved needle geometries. This increases your tool life and reduces the risk of grinding burns very significantly.

- Reduction of the risk of grinding burn
- ♣ Increased productivity
- n Reduced reject rate



OUR SOLUTION

Individually designed Grindaix nozzles for cage grinding allow a coolant supply in line with requirements.

SAMPLE CALCULATION (FOR OIL)

Nozzle	Pressure	Volume flow	Exit speed
Needle nozzle	5,2 bar	45 l/min	20 m/s
	8 bar	56 l/min	25 m/s



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.

A

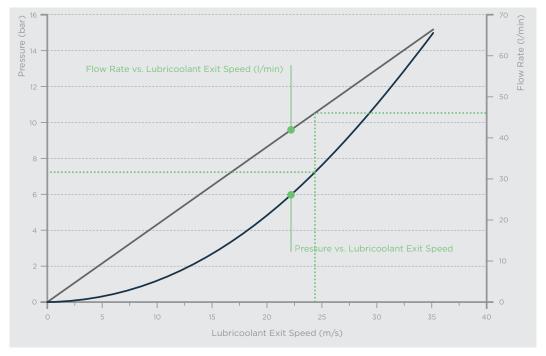
It shows the total pressure (static and dynamic) that would be measured directly in front of the nozzle. This pressure does not correspond to your pump pressure or the delivery head of the pump.

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.

Auxiliary Equipment

Name	Description	
Pressure Sensor	analog/digital	
Pressure Sensor Connector	standard 1/4"	
Compressed Air Connector	nozzle cleaning ø 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	



