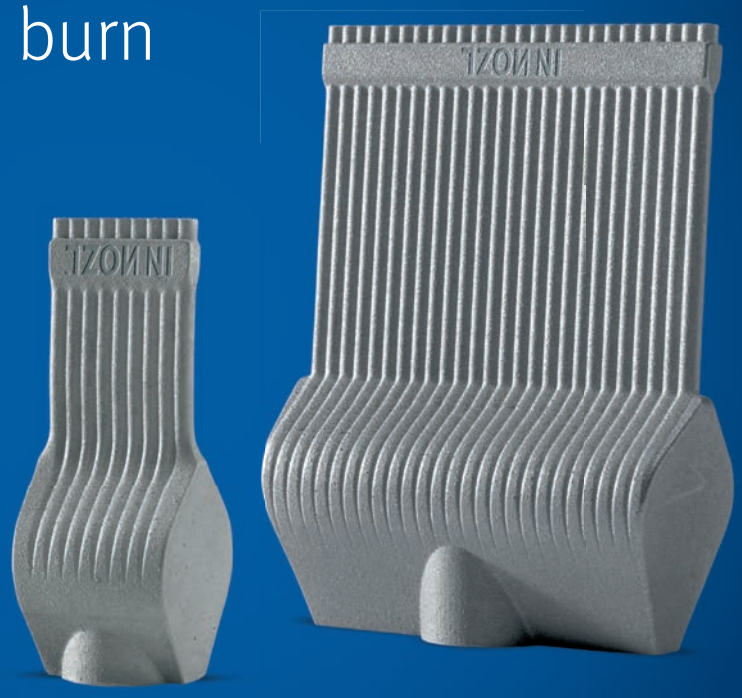
With INNOZL™ coolant nozzles to prevent grinding burn



Newest products in the KNOLL portfolio: The 3D-printed INNOZL™ coolant nozzles made of titanium or stainless steel. The standard products INNOZL™ SL are available directly from stock.

From 1 October 2021 KNOLL assumes the entire product portfolio of the INNOZL™ coolant nozzles from the Dutch company INNOGRIND. The 3D-printed grinding nozzles made of titanium or stainless steel were developed specially for round, flat as well as centreless grinding and reliably prevent thermal damage during the grinding process.

KNOLL Maschinenbau GmbH, Bad Saulgau, is one of the leading suppliers of grinding machines with its conveying and filter systems for chips and cooling lubricants. Matthias Knoll says: "With our tried-and-tested units in the machining process we ensure optimal grinding results and in particular high process reliability. We continue this commitment directly in the area of metal cutting with the takeover of the INNOZL™ coolant nozzles."

KNOLL has been in contact with Jos van Langh, founder and owner of Innogrind B.V., for many years. Grinding technology was always a common theme, something on which Jos van Langh has been concentrating for over 40 years. Apart from his consulting work for different companies, he developed specially designed coolant nozzles at the request of his customers to combat the dreaded grinding burn.

3D-printed and made of titanium or stainless steel, these INNOZL™ nozzles are superior to traditional plastic products in many respects: The geometry of the internal flow channel ensures that the coolant always reaches the contact zone uniformly both in terms of the flow rate and flow velocity and direction. The lubricant action is maximised and thermal damage to the workpiece is reliably prevented. With flow analyses these properties are examined and optimised with every new development. A resulting benefit: The nozzles operate almost without loss, whereby the flow rate required is lower and energy is saved.

In addition, the titanium and stainless steel nozzles are generally more resistant than their plastic counterparts and are also suitable for high-pressure applications. As a result, they can also be used as cleaning nozzles for ceramic

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INNOZL™

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CBN grinding discs. Their compact design is another benefit. As a single-piece accessory they can be easily mounted on existing cooling systems.

"The INNOZL™ coolant nozzles are an ideal addition to our product portfolio", highlights Matthias Knoll. They are supplied directly from stock as standard products INNOZL™ SL. KNOLL also develops customer- and process-specific INNOZL™ CL versions. The company can still count on Jos van Langh, who in future will also be responsible for the BeNeLux region as KNOLL Area Sales Manager.

KNOLL also develops and produces customer- and process-specific INNOZL™ CL variants.

KNOLL Maschinenbau GmbH

KNOLL Maschinenbau is one of the leading suppliers of conveyor and filter systems for chips and cooling lubricants in metal processing. Highly flexible transport systems supplement KNOLL's product range. With its comprehensive range of products, KNOLL develops complete systems and system solutions with centralised or decentralised functions. Since 1970, KNOLL has stood for innovation, progress and growth.

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