

You will find KNOLL Maschinenbau at stand 7C20 in hall 7 at GrindingHub 2022 in Stuttgart/Germany.

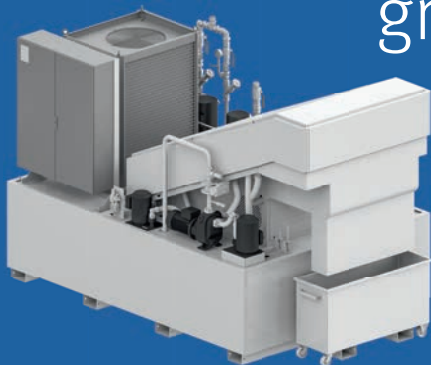
The HydroPur hydrostatic filter system, which can be configured by the customer as required thanks to its modular design.



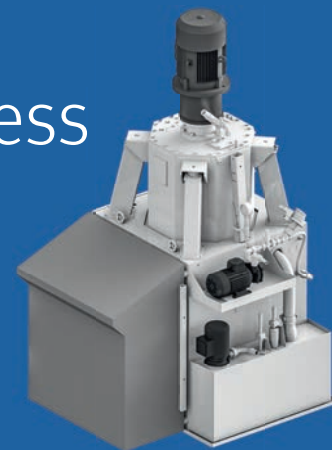
The super-fine filter MicroPur® is perfect for the tool grinding of carbide metal and HSS. It achieves a filter fineness of less than 3 µm.



## The right filter technology for every grinding process



Designed for profile grinding with machining oil: The vacuum filter system VLO.



The fluid centrifuge CA 100 is suitable for the continuous ultra-fine cleaning of up to 80 l/min of cooling lubricant and impresses with its superb price/performance ratio.

Optimised cleaning of the grinding oils and other cooling lubricants is essential for high-quality grinding results. KNOLL Maschinenbau provides customised filter solutions for diverse grinding applications. Visitors to GrindingHub 2022 in Stuttgart can examine the broad selection at the KNOLL stand (Hall 7, Stand 7C20): the superfine filter MicroPur® which manages without filter consumables, the individually configurable hydrostatic filter HydroPur, the vacuum filter VLO, as well as a fluid centrifuge for bypass operation.

The finer the machining, the higher the proportion of ultra-fine particles in the grinding oil or cooling lubricant, which in turn jeopardises the quality of the machining result. The job of the **modular superfine filter MicroPur®** from KNOLL

Maschinenbau, Bad Saulgau, is to prevent this. It is perfect for the tool grinding of carbide metal and HSS. But it also delivers optimal filter results in the machining of castings. The MicroPur® achieves a filter fineness less than 3 µm and

manages without filter consumables thanks to its special design, which makes a significant contribution to its high degree of efficiency. At GrindingHub KNOLL showcases the standard model MicroPur® 240/900 – together with the integrated sludge concentrator AK5 matched to the capacity, which ensures automated sludge discharge. In addition to such standardised systems for individual or several machines, KNOLL also offers individual central filter systems on MicroPur® basis for entire production areas.

Anyone who needs an independent cleaning unit for grinding and would like to configure it as required is best advised with the **hydrostatic filter HydroPur**, which is presented for the first time at a trade fair by KNOLL. This filtration unit has a modular design. It comprises a tank and filter upper part with a fine filter fleece, which when combined with the hydrostatic principle separates fluid and chips. Pumps, coolers, etc., can be added as needed – for simple equipment through to the full version, which then meets even the most demanding requirements. The operation of the HydroPur is also simple and very intuitive. Because KNOLL uses its new **SmartConnect operating concept**, with which a small industry PC is connected to the system PLC via a 7" touch display. SmartConnect also has app connectivity so that the operator can access the filtration unit on mobile end devices such as a smartphone or tablet, display statuses, as well as check and change parameters.

In addition, KNOLL presents the **vacuum filter system VLO**, which is ideally installed for profile grinding with machining oil. Due to simple scalability, the filtration unit can be used locally for individual machines or centrally for machine groups. Without the use of filter aids the VLO vacuum filter system achieves clean oil as well as pure, dry concentrate.

Last but not least, KNOLL presents an **automatic fluid centrifuge CA 100** at GrindingHub, which is of great importance in the cleaning of grinding oil with its proven technology. It assumes the bath care in the bypass in many filter systems and prevents the accumulation of fine particles. This system technology is also popular for upgrading existing systems.



### KNOLL Maschinenbau GmbH

KNOLL is the leading provider of conveyor systems, filtration units and pumps for metalworking. These transport and separate chips and cooling lubricants. The comprehensive product range offers systems for decentralised or centralised applications. Its Automation division deals with solutions for demanding assembly and logistics tasks. These include stationary transport systems with chain and roller conveyors. With the integration of handling units (robots, cobots) and transport robots (AGV), flexible systems are created from a single source.

KNOLL Maschinenbau GmbH  
Schwarzachstraße 20  
DE-88348 Bad Saulgau  
Tel.: +49 7581 2008-0  
info.itworks@knoll-mb.de  
www.knoll-mb.com