

World premiere at GrindingHub

Kellenberger presents new innovative CNC control philosophy

At the Grinding Hub in Stuttgart, **Hall 10 Stand A70**, Swiss grinding specialist Kellenberger will be presenting an updated software suite for the first time across all its complete product portfolio as well as the Voumard universal internal cylindrical grinding range: The KELLENBERGER® 100 and KELLENBERGER® 1000 and the VOUMARD® 1000 will also be shown.

An innovative touch HMI software solution is being presented to the public for the first time, which can be adapted equally across all series and is easy and logically intuitive for the operator to use. Regardless of whether the focus of machining is internal grinding or external grinding.

The KELLENBERGER 100 is perfectly automated with a Wenger loader for chuck and shaft parts. This automation solution is also available for the KELLENBERGER 1000.

The machine will be shown with a flexible automation solution specially developed for this machine allowing quick changeovers and even viable for small batches. The machine offers a wide range of configuration options for the most diverse grinding operations.



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The KELLENBERGER 1000 has hydrostatic guides in all main axes for the highest form accuracies in grinding tasks with interpolating axes. The hydrostatic universal cylindrical grinding machine is oriented towards the high demands of precision production of prototypes, as well as small and medium series, for example in tool and mould making, the automotive and electrical industries and the aircraft industry. The solid machine table with the reinforced machine bed provides very high rigidity and stability, prerequisites for high precision. Workpieces weighing up to 300 kg can be



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machined. Full flexibility is provided with over 30 different grinding head variants with external and internal grinding spindles as well as optional centre heights of 250 and 300 mm and 1,000/1,600 mm between centres.

The VOUMARD 1000 internal and external cylindrical grinding machine can also be easily automated if required. The internal and external cylindrical grinding machine VOUMARD 1000 was designed for precision workpieces with a length of 300 mm and a swing circle diameter of 300 mm. The hydrostatic linear axes with newly developed HYDROLIN® guides are backlash-free for positioning accuracies in the nano range. The two high-precision hydrostatic B axes additionally carry out all necessary movements of the dressing and measuring devices.

This flexibility makes grinding a wide range of different component types possible and shortens setup times. The spindle turret on the B1 axis is equipped with a uniquely compact grinding spindle head with flexible internal grinding spindle arrangement for max. four grinding spindles.



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New generation Okamoto ACC-64CAiQ FANUC controlled surface grinder (OKAMOTO Hall 7 Stand D46)

Okamoto will present the new improved ACC-64CAiQ from the ACC-CAiQ range of heavy-duty precision surface grinders. The ACC-CAiQ range consists of 5 models ranging in table size from 600 x 400 up to 1,000 x 600 mm. With a capacity of 600 x 400 mm, the ACC-64CAiQ is one of the most popular sizes in this range.

The touch screen user interface has proven to be popular, not only in production, but also in the tool room. The graphical touch screen interface featured on the iQ range of surface grinders has proven to make machine setup quicker and easier, an example of the iQ function can be seen when the optimal grinding conditions are automatically set, simply by entering the wheel grit size.

The new FANUC control now offers an even faster response, and the touch screen has been further improved with crisper graphics. Until now complex tasks in precision grinding depended very much on the experience of a skilled operator. The development of the new Okamoto iQ touch screen control and its easy-to-use software, coupled with the inherent mechanical accuracy of the column moving design, allows even unskilled operators to use the machine with maximum efficiency.

Also on show is the time saving Aerolap polishing machine. This product can create mirror finishes in a fraction of the time to polish and is perfect for precise components with forms and profiles as it does not alter the geometry. This is possible using a special process and flexible media that deforms when applied at high pressure to the component in question.

In addition to huge time saving this special process also can increase the life of tooling such as punches.

UK & Eire contact:
DF Precision Machinery Ltd
Tel: 0116 201 3000
Email: info@dfpmach.com
www.dfpmach.com

Hall 10 - Stand 10A70
Hall 7 - Stand 7D46