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Advanced Okamoto Surface Grinders make AMB 2022 Debut

3 Mins



ADVANCED OKAMOTO
SURFACE GRINDERS
MAKE AMB 2022 DEBUT

As a Director of DF Precision Machinery Ltd, the exclusive distributor of Okamoto Grinding Products in the UK, Mike Duignan will be in attendance on the Okamoto stand (hall 5, aisle B, Booth 16) at AMB 2022 to greet all potential customers.

Making a debut at the exhibition, held from 13 – 17 September 2022 in Stuttgart, will be the advanced new Okamoto ACC-63SA1 surface grinder range. Replacing the globally popular SA Series, the innovative Okamoto surface grinder is available in 6 sizes, 500×200, 600×300, 600×400, 600×500, 800×400, and 1000 x 500.

The new ACC-SA1 Series feature an easy-to-use touch screen control with colour graphics, allowing trouble-free, advanced surface grinding with automatic wheel dressing. The innovative series enable fully automatic grinding operations for standard surface grinding or shift plunge surface grinding and deliver enhanced levels of productivity. The new machines' grinding methods are selected via the main panel. Whilst feed-rates and feed change points can be set, and easily adjusted at any time. Table-park and wheel head retract at cycle finish are provided as standard.

Coupled with the surface grinder's touch screen control are 1/10 Micron, AC Servo Motor driven ball screws in both axes with 2 axis DRO as standard. The grinding wheel is directly driven via an elastic coupling between the motor and shaft and offers the best possible power, precision and surface finish values. Wheel speed inverter and wheel dressing from the table mounted diamond are also provided.

ACC-SA1 range machines boast a robust, rigid cast iron construction providing excellent static and dynamic stiffness characteristics, in addition to delivering first-class dampening qualities. The machines' hydraulically driven table features double V slideways with minimal overhang and non-contact switches for table reversal. Whilst all slideways features automatic lubrication.

Also at AMB 2022, the new version of Okamoto's ACC-42SAiQ surface grinder features a long list of improvements, including ball-screw table drives and the latest Fanuc control with faster response times and clearer, crisper graphics.

The Okamoto graphical touch screen, operator interface featured on the iQ range allows significantly quicker and easier machine setup. Graphical representation of common, grind patterns and wheel shapes are set-up directly on the touch screen view pane with the help of the iQ function.

The ACC-42SAiQ retains and improves on the unique table position control of the previous generation. It features fast reciprocation and can be set to grind with up to 5 different table positions in the same cycle. The switch from hydraulic control to a ball screw table drive reduces heat build-up and improves reversal accuracy. The machines' double V slideways have minimal overhang in both X and Z axes. Whilst a robust, cast iron construction provides optimum stiffness and ensure the highest levels of precision.

In addition to its comprehensive list of standard equipment, the new machines will be shown with a new 5 position swing dresser for wheel forming. The single point diamond used in the swing dresser is quickly and easily changed when worn. The ACC-42SAiQ is also offered with other specialist optional equipment such as rotary indexing tables, cylindrical grinding attachments, and rotary spinning tables.

In addition to fist-class grinding machines, Okamoto will be demonstrating the company's highly efficient Aero Lap polishing machine. By the use of an exclusive, automatic, high-speed multi-cone technology and a unique abrasive medium, the easy-to-use machine can create a mirror-smooth finish even on hard-to-polish parts, such as punches, dies and small-sized moulds. With the ability to be used on almost all metals, Aero Lap machines perform 10 – 25x faster than conventional polishing machines and can bring an Ra 24 finish to Ra 1.5 in just 30 seconds.

Mike Duignan enthused. "In addition to being the UK distributor for world renowned precision grinding brands, including, Kellenberger, Voumard, Hauser, Tschudin, and Jones & Shipman, all at DF Precision Machinery are proud that we are the exclusive UK distributor for Okamoto's high-quality, cost-effective machines. In addition to anticipating high-levels of sales for the exciting new Okamoto surface grinding machines, we also expect the innovative Okamoto Aero Lap polishing machine to prove very popular in the UK.



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