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Buehler IsoMet™ High Speed Precision Cutter: Outstanding Sectioning Quality, Even for the Most Delicate Samples

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IsoMet™ High Speed is a new table-top precision cutters available from Buehler – ITW Test & Measurement GmbH (www.buehler.com), designed for use on the laboratory table. Equipped with abrasive or diamond blades, the machines section virtually any type of material, from ductile metals to brittle ceramics. The design is ideal for consistent, and precise sectioning performance.

This saw excels in efficiency with a powerful motor, intuitive user interface and rapid sample fastening. IsoMet™ High Speed models are therefore particularly suited to busy laboratories requiring highest quality standards.

The straightforward, intuitive touchscreen layout featuring animated icons provides access to all sectioning parameters and facilitates programming of consistent, repeatable single or serial sections. An innovative rapid clamping rail and a new, tool-less vising system offer easy fastening and adjustment of the sample within a few seconds. Sectioning can be performed either manually by means of a joystick, or automatically according to a previously entered program, with highly consistent results. The SmartCut™ automated cutting blade feed system avoids damage to the sectioning machine and to the sample, resulting in optimized sectioning processes whatever the sample material.

Both versions of the IsoMet™ High Speed precision cutter from Buehler accommodate wafering blades with diameters ranging from 3 to 8 in (76 mm to 203 mm) or abrasive cutting blades with diameters from 5 to 8 in (127 mm to 203 mm). Both models offer quick and precise horizontal (x) and linear (y) alignment of the cutting blade, the Pro model also allows vertical alignment. Available cutting lengths range from 0.01 to 7.25 in (0.25 mm to 184 mm) at feed rates from 0.04 to 1 in/min (1mm/min to 25 mm/min), with feed increments of 0.01 in (1 mm). Maximum sectioning size (diameter) is 2.8 in (71 mm). The High Speed Pro model additionally provides an automatic dressing system, which ensures consistently high sectioning quality and reduces cut setup time with the capabilities to dress the blade during a cut program, as well as a laser system for instant visual alignment of the cutting blade.

Buehler offer an impressive range of accessories for the IsoMet High Speed precision cutters, including rapid rail vise holder, single and double saddle chucks, a variety of quick clamp vises and a retrofit kit with an external recirculation coolant tank that provides enhanced cooling in demanding applications.

The video <https://www.buehler-met.de/videos/Buehler-IsoMet-High-Speed-Precision-Saw.mp4> shows Buehler's new IsoMet High Speed precision cutter in action.

Buehler – ITW Test & Measurement GmbH, Esslingen, has for 80 years been a leading manufacturer of instruments, consumables and accessories for materialography and materials

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