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VOLLMER QX D400

The Vollmer **QX D400** is a universal fully automated rotary disc-erosion machine for flexible machining of Polycrystalline diamond tools. The machine is uniquely equipped with two tool loaders. The first loader for tools comes with the option to hold from 4 to 72 tools depending on the size of the tool. The second loader comes with the option to hold up to eight different rotary electrodes and grinding wheels.

The machine has six (6) simultaneous CNC controlled axes for machining and four (4) additional CNC controlled axes for the two handling systems. This unique combination of CNC machine tool and loading system allows for fully automated grinding and erosion of PCD tipped tools with different dimensions, geometries and shank sizes. This highly advanced machining concept allows for unmanned 24/7 production of PCD tipped cutting tools.

Production and service for practically any PCD tipped tool is available, including complex profile tools, tools with left and right flutes, hoppers and saw blades. A monolithic, mineral-cast central block is the basis of this very rigid machine structure. It provides for superior precision, unmatched surface quality, and exceptionally short erosion times.

The QX D400 completes the relief of the tool body and the PCD erosion operation in one set-up. This saves time and produces a more accurate tool with a significantly better finish. The machine control allows storing of all tool production programs (projects) in order to save time on repeat erosion operations. The machine probes all PCD tips to ensure proper erosion of all tips including tips that are misaligned from brazing operations. The machine control compensates for any misalignment leading the electrode to the cutting edge of the tool.

Pre-programmed regular dressing of electrodes with subsequent dimension compensation keeps electrodes clean and effective during the entire erosion process. The user-friendly operator's terminal has a 15-inch flat screen. Programming of the machine control is based on Windows CE providing the possibility to integrate Windows applications in the future. Creating a new program or loading and unloading the handling system can be done while the machine is running eliminating downtime. The engineering and manufacturing of the QX D400 achieves the objective to produce and to service PCD tools in the most efficient way.

The Vollmer QX D400 is part of a new generation of Vollmer machines that is based on a modular concept allowing our customers to start with acquiring the basic machine before adding loading systems in the future. We are very excited to have this brand new machine premier in all of America during the 2006 IWF show in Atlanta, Georgia.

For complete details contact Vollmer Of America; 105 Broadway Ave. Carnegie, PA 15106;
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About Vollmer Of America

The VOLLMER Group has evolved as the specialist in re-sharpening and production of PCD tooling, Carbide-tipped circular saws, HSS circular saws, and Band saws. VOLLMER Technology & service offers the latest in grinding, erosion and conditioning machines for tooling and circular saw and band saw blades used in woodworking, metal-cutting, and the processing of composite materials.