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## **New Technology For Precise Manufacturing A Wide Variety of Diamond Cutting Tools**

Carnegie, PA..... Vollmer of America Corporation has introduced a new series of wire erosion machines designed specifically for the manufacture of diamond tipped metal cutting tools. The Model QWD 760H incorporates the unique and patented wire erosion technology that has proven to be the most efficient and successful method for removing large volumes of PCD profiles that cannot be reached by a grinding wheel in a typical tool cutter/grinder. Specifically designed to manufacture smaller diameter tools with intricate geometries, such as stepped tools, the QWD760H delivers precise erosion of tools between centers with unmatched concentricity and minimum TIR.

The QWD 760H features 5 axis machining including a rotating work head in the E axis (patented) and A axis that enables extremely precise, repeatable and continuous path profiling of complex tool shapes such as step and profile tools. This enables the electrode to swivel around the center of the head to cut difficult axial and radial angles in a single set-up. This feature is ideal for tools with “internal” cutting edges. Unique to the QWD 760H is the addition of a 5-axis CNC loader. This feature brings a new level of automation into play, making unattended machining a viable option.

At the heart of this technology is Vollmer’s proprietary generator and ExProg Software that interfaces with any industrial PC. With ExProg Software parts machining can be simulated for review prior to eroding the first workpiece. Completely programmable, the generator can be set for four erosion stages for coarse roughing, roughing, finishing and fine finishing. Settings can be stored and recalled easily to accurately control the amount of erosion required for any stage. This results in consistent surface finishes less than 0.2 microns Ra. The QWD 760H can be equipped with magazines holding 4, 12 or 36 tools and multiple chucking systems such as SK and HSK. The QWD 760H can be fully automated to provide unattended third shift operation.

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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.