

Jet Edge Exhibiting 90,000 PSI Waterjet

Jet Edge, Inc. will demonstrate its 90,000 PSI waterjet cutting technology at EASTEC 2011.

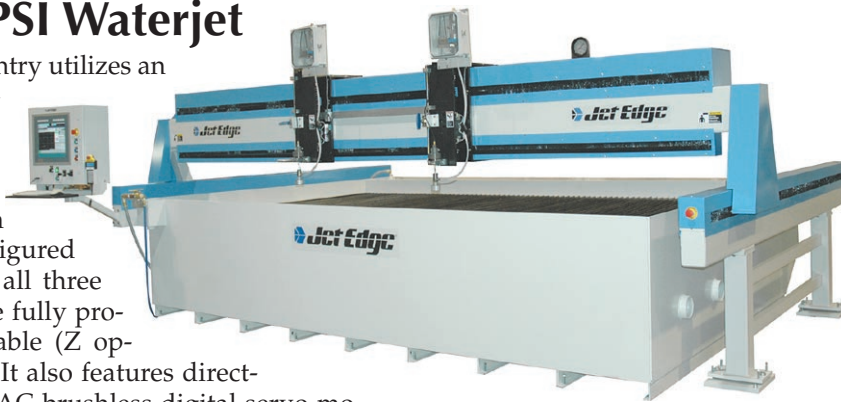
During EASTEC, Jet Edge will showcase several precision waterjet cutting products, including its 90,000 PSI (6,200 bar) X-Stream waterjet intensifier pumps and Mid Rail Gantry precision waterjet cutting machine. Jet Edge technical experts will be available to answer questions about waterjet cutting applications.

"Designed to produce complex parts out of virtually any material, the Jet Edge Mid Rail Gantry waterjet cutting machine features an exposed tank that easily accommodates overhead loading. It comes standard with one abrasivejet cutting head. A second cutting head can be added to increase productivity. Optional mirroring capabilities make it possible to cut part cycle time in half."

The Mid Rail Gantry is ball-screw driven. Its heavy-wall tubular steel construction is intended to eliminate vibration and increase longevity. The Mid

Rail Gantry utilizes an industrial PC controller and can be configured so that all three axes are fully programmable (Z optional). It also features direct-couple AC brushless digital servo motors and single or double carriages. Critical bearing components are protected with heavy metal covers with brush seals and positive air pressure. The Jet Edge Mid Rail Gantry waterjet machine is available in many sizes, including 5' x 5', 5' x 13', 8' x 5', 8' x 13', 13' x 13', 21' x 5', 21' x 13' and 24' x 13'.

Jet Edge will exhibit both models of its X-Stream waterjet intensifier pumps, the 50 HP xP90-50 and 100 HP xP90-100. Jet Edge's X-Stream intensifier pumps are capable of producing



90,000 PSI and support 75,000 PSI continuous operating pressure. The X-Stream is designed to achieve faster cutting speeds and lower operating costs compared to traditional 60,000 PSI pumps, the company said.

"The X-Stream produces 50% more pressure than a 60,000 PSI intensifier pump, resulting in a 40-50% increase in productivity for many materials," said a company spokesperson. "Compared to a 60,000 PSI pump, typical operating pressures of 75,000 PSI use 30% less water, 30% less power and up to 50% less abrasive, resulting in a 40% reduction in operating costs. The xP90-50 is capable of producing flow rates of 0.7 GPM and supports up to a .011 inch orifice. The xP90-100 is capable of producing flow rates of 1.45 GPM and sup-

ports up to a .017 inch orifice. Fittings and tubing are rated for 100 KSI."

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EXSYS Tool, Inc. Develops Tooling Tailored for Mazak Machines

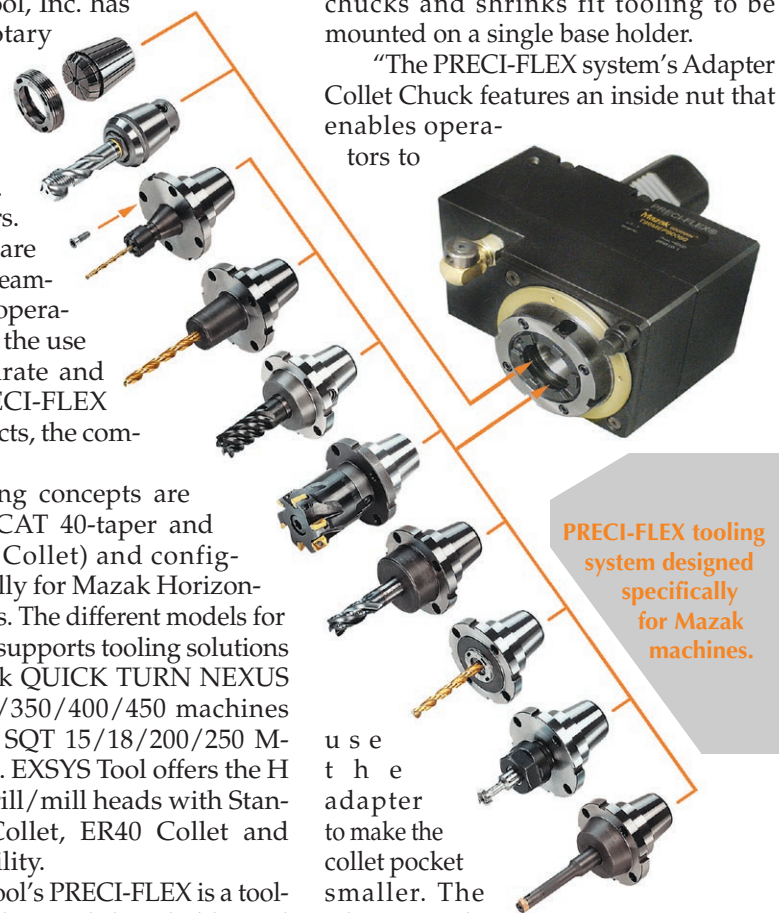
EXSYS Tool, Inc. has developed rotary and static tool holding concepts specifically for Mazak Corp. turning centers. The concepts are intended to streamline machine operations through the use of rigid, accurate and efficient PRECI-FLEX tooling products, the company said.

The tooling concepts are heavy-duty (CAT 40-taper and Standard ER Collet) and configured specifically for Mazak Horizontal CNC Lathes. The different models for which EXSYS supports tooling solutions include Mazak QUICK TURN NEXUS 200/250/300/350/400/450 machines and previous SQT 15/18/200/250 M-MS/28 M-MS. EXSYS Tool offers the H and V-type drill/mill heads with Standard ER32 Collet, ER40 Collet and CAT40 capability.

"EXSYS Tool's PRECI-FLEX is a tooling system with a single base holder and multiple tooling adapters that utilizes the ER collet pocket, making lathe tooling changeovers quick, accurate and cost-effective," said a company spokesperson. "The product's compact design ensures maximum torque transmission and rigidity. Additionally, the modular system's conical and flat face planar interface allows the use of either an adapter or a standard ER collet and enables collets, endmill holders, expanding collet

chucks and shrinks fit tooling to be mounted on a single base holder.

"The PRECI-FLEX system's Adapter Collet Chuck features an inside nut that enables operators to



use the adapter to make the collet pocket smaller. The adapter can then clamp onto the endmill while remaining compact during machining. The chuck also allows the adapter to be utilized as a pre-settable option offline to increase set-up capability.

"PRECI-FLEX provides repeatability within 10 microns. The system is also designed to virtually eliminate machine downtime and to allow tooling adapters to be interchanged between fixed and rotary base holders," said an