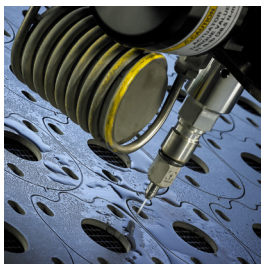
MAJOR ACCESSORY QUICK REFERENCE

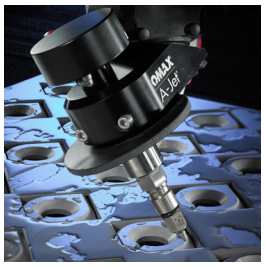
TILT-A-JET

The Tilt-A-Jet® enables the OMAX® JetMachining® Center to achieve virtually zero taper with most materials without programming. Predictive software calculates the type and amount of taper that will occur at each point along the cutting path. During the cutting process, the software rapidly adjusts the position of the cutting head to angle the jet stream from the nozzle so that taper is offset at each point along the path.Taper doesn't disappear it just gets moved to the scrap part of the material, leaving your part with exactly square edges.



A-JET

The A-Jet® is a completely software-controlled multi-axis cutting head that greatly expands the versatility of the OMAX and MAXIEM® JetMachining Centers. With a cutting range from 0° to 60°, the A-Jet can easily cut beveled edges, angled sides, and countersinks. Advanced features in the Intelli-MAX® Software Suite allow the A-Jet to compensate for taper and create complex 3D shapes. Because the A-Jet has extremely high positioning accuracy, it is capable of cutting parts that require no secondary finishing which can significantly reduce production time.

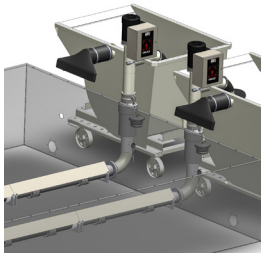


TERRAIN FOLLOWER

The OMAX Terrain Follower allows the JetMachining Center to automatically cut all parts from materials with irregular or warped surfaces without the need for special programming. The Terrain Follower attaches directly to the A-Jet cutting head. Changes in a material's height are detected and the nozzle position is automatically adjusted to maintain the necessary standoff height to avoid collision with the surface of the workpiece. This protects the nozzle and connected hardware from damage when moving over warped or uneven material.

VARIABLE SPEED SOLIDS REMOVAL SYSTEM

The programmable variable speed system provides precise contral over garnet evacuation rate, direction, and duration to efficiently remove garnet from the waterjet catcher tank. The Variable Speed Solids Removal System (VS-SRS) gives the operator the ability to program flow rate and direction. An optimized fluid return trough increases settling time and minimizes abrasive volume returning to the tank.



ROTARY AXIS

The Rotary Axis is a robust, water resistant submersible rotary head that allows the abrasive waterjet to cut 6-axis paths when combined with the A-Jet to create complex 3D shapes in tube, pipe, and bar stock. Constant rotational control allows for continuous cutting around a shape. Advanced features in the Intelli-MAX Software Suite make it possible to cut complex shapes and angles when used in conjunction with the A-Jet articulated cutting head. Precision indexed rotations offer accurate cutting of multi-faceted shapes. The Rotary Axis can be mounted on any OMAX JetMachining Center, significantly expanding the cutting capabilities.

MAJOR ACCESSORY QUICK REFERENCE

WATER RECYCLING SYSTEM

The OMAX Water Recycling System is designed to capture the workable overflow water for recycling to the proper specifications, then return the water back to the high pressure pump. A filtration system traps suspended particles and ensures that high quality water feeds to the high pressure pump, while an ozone generator is used to reduce bacteria growth.

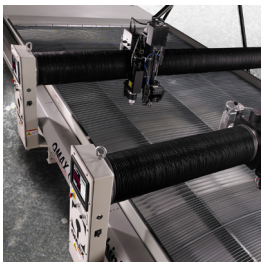
LAMINAR FILTER

This settling tank efficiently cleans overflow water from the catcher tank for required recycling through a closed loop system or for sanitary disposal down the drain. When water enters the OMAX Laminar Filter, an ideal gravitational filtering cycle begins in the unit. The accessory contains modular trays of angled laminar plates to capture smaller, lightweight particles during the natural settling process. Sediment collects at the bottom of the tank while clean water can exit to a closed loop system or disposal drain. The Laminar Filter is also designed for routine sediment cleaning.

VACUUM ASSIST

The OMAX Vacuum Assist accessory is the ideal abrasive waterjet solution for piercing brittle materials, advanced composites, challenging laminates, and more. While using lower pressure can generally pierce some brittle materials, the pressure of the jet can cause delamination if the abrasive feed is delayed even slightly. The OMAX Vacuum Assist eliminates that delay, allowing for consistent automatic piercing of composites, laminates, and other brittle materials. Designed to work on both cantilever and bridge machines in the OMAX and MAXIEM product line, the OMAX Vacuum Assist can increase production and reduce material waste for maximum part processing yields.

DUALBRIDGE SYSTEM



The DualBRIDGE® System offers dramatic increase in productivity and flexibility. This configuration option allows the addition of a second Y-bridge to boost efficiency and flexibility. The system can be added to any new or existing 80X, 120X or 160X OMAX JetMachining Center. With the DualBRIDGE system, two Y-bridges can work independent of one another on separate components, or in tandem to cut one large part. The system also boosts utilization rates, as cutting can be performed while materials are loaded and unloaded from the machine.

CHILLER

In the event that water temperature exceeds 60° F (16° C) on a seasonal or regular basis, shortened pump seal life can occur. The Chiller cools the water supply for the pump which improves seal life. Depending on the rating of the Chiller and ambient conditions, the water temperature can be lowered anywhere from 20° F (-7° C) to 40° F (4° C). Water from the OMAX system's charge pump is sent through the Chiller and to the waterjet pump. A portion of the water is recirculated back to the waterjet's internal charge tank to minimize water usage.

ABRASIVE WATERJET *vs.* OTHER METHODS

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