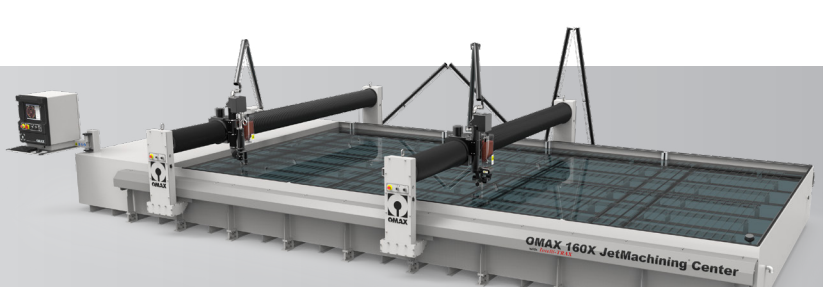
OMAX®
A Hypertherm Associates Brand

OMAX 160X

JetMachining Center



The OMAX JetMachining Center® is designed for advanced facilities where the desire for performance and results are paramount. A production workhorse in any manufacturing environment, the OMAX JetMachining Center delivers high precision multi-axis parts quickly and consistently in almost any material, maximizing machining throughput. Our innovative IntelliMAX® software enables precise and lightning-quick responses to a variety of cutting situations. Long-life and hard-wearing materials reduce maintenance items to a minimum, boosting uptime and productivity to improve your bottom line.

EnduroMAX pump innovation

The EnduroMAX® pump is the advanced direct drive pump that delivers the most horsepower to the nozzle. With 1000 hours between maintenance cycles, the EnduroMAX is the best choice for reliable and robust ultra high pressure waterjet pumps.

IntelliMAX Software Advantages

For decades, we have invested in extensive research and development to provide the most advanced abrasive waterjet software possible. Through software enhancements, your OMAX JetMachining Center is capable of advanced 5-axis machining in virtually any material, from aluminum and steel to carbon fiber, titanium, copper, glass, composites, and more.

Available accessories

- TiltaJET® for advanced taper removal for perfectly square part edges
- AJet® to cut to 60° for beveled edges, angled sides, and countersinks.
- Terrain Follower automatically adjusts to accommodate uneven part surfaces. Collision sensing capability is available with TiltaJET and Programmable Z cutting heads.
- Rotary Axis for creating complex 3D parts and tube & pipe cutting

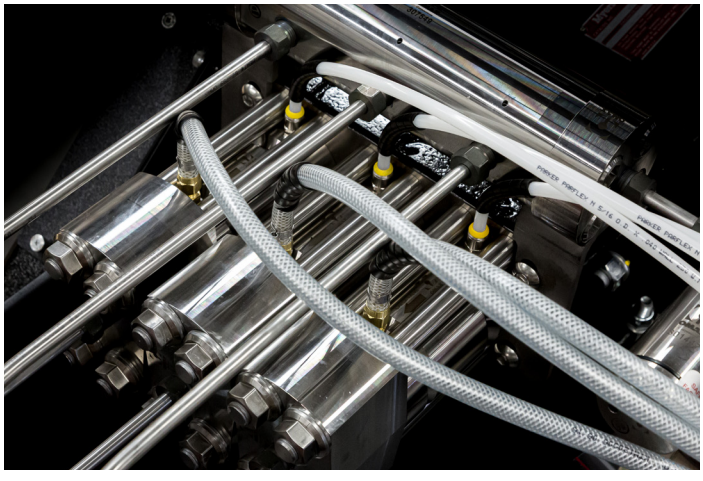
Specifications

Machine dimensions	
Footprint (standard layout)	37' 1" x 25' 6" (11.30 m x 7.77 m)
Weight (tank empty)	47,500 lbs (21,546 kg)
Height	11' 0" (3.35 m)
Operating weight	83,000 lbs (37,648 kg)

Work envelope	
X-Y cutting travel*	26' 8" x 13' 4" (8.12 m x 4.06 m)
Z-Axis travel (with motorized Z-Axis)*	8" (203 mm)
Table size	27' 6" x 14' 9" (8.38 m x 4.50 m)

Standard model specifications	
Material support slats	4" x 1/8" (102 mm x 3.2 mm) galvanized steel
Maximum supported material load	400 lbs/sq ft (1,950 kg/sq meter)
Electrical requirements	3-Phase, 380-480 VAC ±10%, 50-60 Hz
Noise level	Below 80 dBA at one meter for submerged cutting
Speed	350 in/min (8.89 m/min)
Linear axis accuracy*	±0.001" (±0.025 mm)
Linear axis repeatability*	±0.001" (±0.025 mm)
Ballbar circularity*	±0.005" (±0.127 mm)

*Optional accessories may reduce cutting travel. Accuracy specifications are at 72° F (22° C).



IntelliMAX Software Suite

The IntelliMAX Software Suite includes LAYOUT, a full-featured CAD design program; MAKE, the highly powerful machine controller software; IntelliVISOR®, the comprehensive system monitoring package; and much more.

- Ease of use: with LAYOUT, the user, whether a novice or an expert, can quickly and easily create a part file. With one click, that part file can be converted into a tool path that is ready for machining.
- Built-in intelligence: In MAKE, detailed reporting provides highly precise estimates on cut times, allowing for accurate job costing.
- Advanced monitoring: Included with the IntelliVISOR system monitoring application, the operator can set up detailed mainenance reminders that minimize downtime and maximize production. Advanced notification features send alerts to email or a smartphone, keeping the operator aware of the machine operation at all times.

World-class service, support and innovation for advanced abrasive waterjet systems

OMAX, part of Hypertherm Associates, sets the standard for service and support in the waterjet machine tool industry. It starts with a rigorous certification program at OMAX in Kent, Washington where OMAX direct and distributor technicians are trained to install, operate and maintain OMAX abrasive waterjet systems. OMAX engineers continue to innovate technology for abrasive waterjet machining, from proven 4th generation pump designs to cutting edge drive systems with micron-level accuracy. Customers have a number of contact options to suit their schedules and needs, including an extensive library of online resources. With the largest abrasive waterjet support network in the world, OMAX continues to shape the future of waterjets.

To see how an OMAX abrasive waterjet system can save you time and money, call or visit our website and request a free part analysis today.

TÜVRheinland®

ANAB ACCREDITED ISO/IEC 17021 MANAGEMENT SYSTEMS CERTIFICATION BODY

c UL us LISTED CE

UL 508A, CAN/CSA C22.2 No. 14,
CAN/CSA C22.2 No. 73
ISO 9001:2015 Certified

For more information, visit: www.omax.com

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