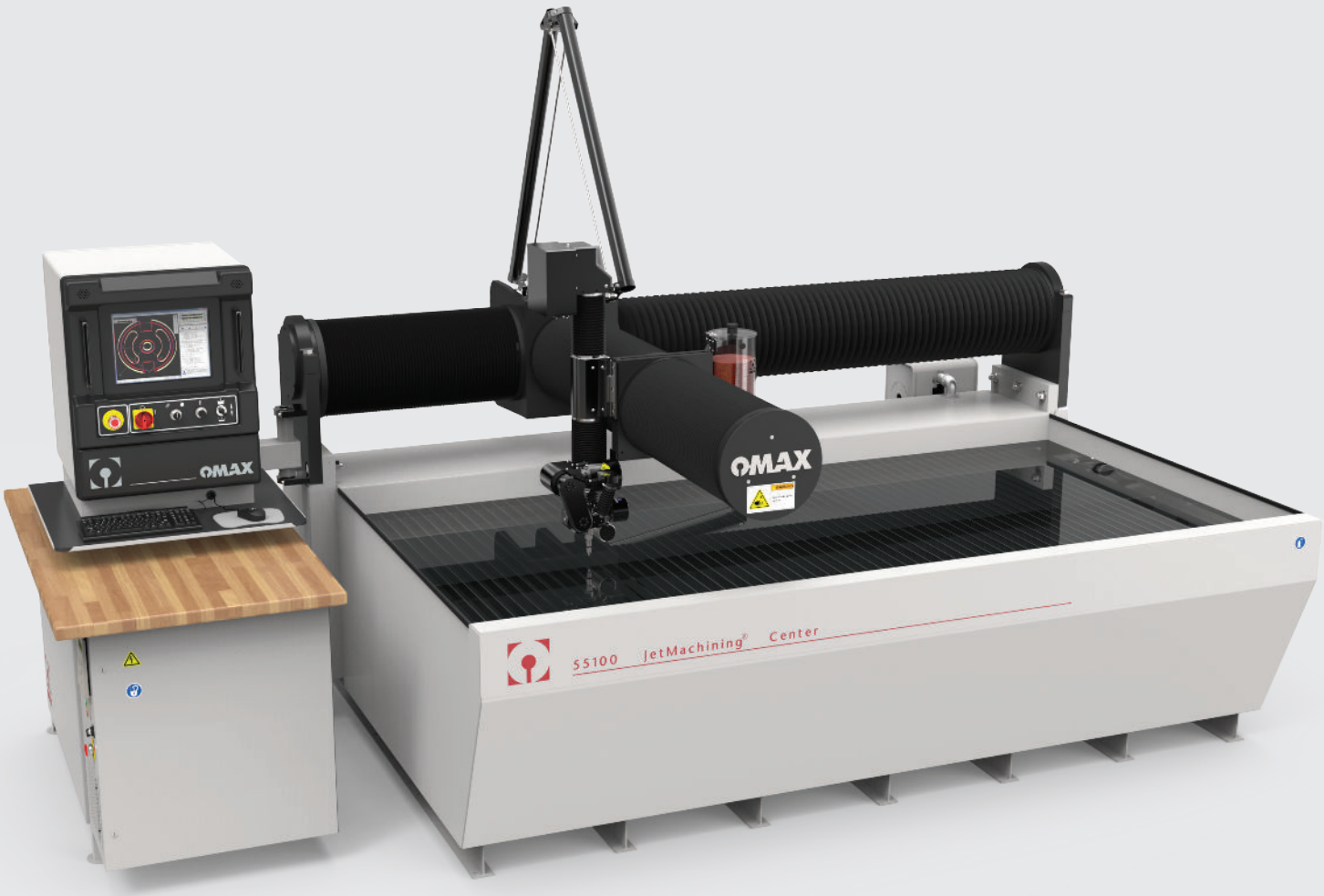
OMAX®
A Hypertherm Associates Brand

OMAX JetMachining Centers



Premium high-precision waterjet cutting

The premier 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 with OMAX IntelliMAX® software
- Improved efficiency with EnduroMAX® pumps delivering the highest nozzle horsepower
- Reduced maintenance through long-life and hard-wearing materials
- Increased uptime with enhanced IntelliVISOR® system monitoring
- Improved bottom line through maximized productivity

So it is no surprise that over 90% of all OMAX JetMachining Centers are still being used today.

Factory tested, field proven

All OMAX JetMachining Centers are extensively tested at the factory, including a ballbar circularity test and test cuts to ensure precision. With thousands of machines installed and operating worldwide, the OMAX JetMachining Center is proven to be fast, precise, and reliable, with low maintenance and high production rates.

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.

- 3060V 22 kW (30 hp.), 4138 bar (60,000 psi)
- 4060V 30 kW (40 hp.), 4138 bar (60,000 psi)
- 5060V 37 kW (50 hp.), 4138 bar (60,000 psi)
- 10060V 75 kW (100 hp.), 4138 bar (60,000 psi)

Cantilever specifications

	Model 2626	Model 2652	Model 5555	Model 55100
Machine footprint	2.97 m x 2.08 m (9' 9" x 6' 10")	3.68 m x 1.91 m (12' 1" x 6' 3")	3.48 m x 2.67 m (11' 5" x 8' 9")	4.60 m x 2.44 m (15' 1" x 8' 9")
X-Y cutting travel	0.66 m x 0.66 m (2'2" x 2'2")	1.32 m x 0.66 m (4' 4" x 2' 2")	1.39 m x 1.39 m (4' 7" x 4' 7")	2.54 m x 1.39 m (8' 4" x 4' 7")
Linear axis accuracy	±0.025 mm (±0.001")	±0.025 mm (±0.001")	±0.025 mm (±0.001")	±0.025 mm (±0.001")
Ballbar circularity	±0.064 mm (±0.0025")	±0.064 mm (±0.0025")	±0.064 mm (±0.0025")	±0.064 mm (±0.0025")
Linear axis repeatability	±0.025 mm (±0.001")	±0.025 mm (±0.001")	±0.025 mm (±0.001")	±0.025 mm (±0.001")

2 Limited YEAR WARRANTY | OMAX TECHNOLOGY GUARANTEE

The OMAX Technology Guarantee entitles you, as the original owner, to free OMAX software upgrades for the life of the machine.

MicroMAX

The industry standard for high precision abrasive waterjet micromachining.

Machine footprint	3.10 m x 2.18 m (10' 2" x 7' 2")
X-Y cutting travel	0.63 m x 0.63 m (2' 1" x 2' 1")
Ballbar circularity	±13 microns (±0.0005")
Linear axis repeatability	±2.5 microns (±0.0001")
Linear axis accuracy	±2.5 microns (±0.0001")

Specifications subject to change without notice.

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.

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

The IntelliMAX Software Suite offers:

- 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.
  - Included with the IntelliVISOR system monitoring application, the operator can set up detailed maintenance 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.

Bridge specifications

	Model 60120	80X Series	120X Series	160X Series
Machine footprint	6.78 m x 3.28 m (22' 3" x 10' 9")	7.54 m x 4.09 m (24' 9" x 13' 5") to 11.43 m x 5.61 m (37' 6" x 18' 5")	8.10 m x 5.92 m (26' 7" x 19' 5") to 15.70 m x 6.83 m (51' 6" x 22' 5")	8.94 m x 6.60 m (29' 4" x 21' 8") to 17.01 m x 6.60 m (56' 0" x 21' 8")
X-Y cutting travel	3.20 m x 1.57 m (10' 6" x 5' 2")	4.06 m x 2.03 m (13' 4" x 6' 8") to 8.12 m x 2.03 m (26' 8" x 6' 8")	4.06 m x 3.04 m (13' 4" x 10' 0") to 12.19 m x 3.04 m (40' 0" x 10' 0")	6.09 m x 4.06 m (20' 0" x 13' 4") to 14.22 m x 4.06 m (46' 8" x 13' 4")
Linear positional accuracy	±0.025 mm (±0.001")	±0.025 mm (±0.001")	±0.025 mm (±0.001")	±0.025 mm (±0.001")
Ballbar circularity	±0.064 mm (±0.0025")	±0.076 mm (±0.003")	±0.127 mm (±0.005")	±0.127 mm (±0.005")
Repeatability	±0.025 mm (±0.001")	±0.025 mm (±0.001")	±0.025 mm (±0.001")	±0.025 mm (±0.001")

NOTE: For larger table sizes, ask an OMAX sales representative for optional dimensions available in a model series. Optional accessories may reduce travel. Check with OMAX Sales for availability.

DualBRIDGE system

OMAX DualBRIDGE System available on 80X and larger models.

Available accessories

- A-Jet® for cutting beveled edges at specific angles
- Tilt-A-Jet® for advanced taper removal for perfectly square part edges
- Terrain Follower automatically adjusts to accommodate uneven part surfaces. Collision sensing capability is available with Tilt-A-Jet and Programmable Z cutting heads.
- Rotary Axis for creating complex 3D parts and tube & pipe cutting

Visit the OMAX website for a complete list of available accessories.

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.

SHAPING POSSIBILITY®

PLASMA | LASER | WATERJET | AUTOMATION | SOFTWARE | CONSUMABLES

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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Please visit www.omax.com/patents for more details about OMAX patent numbers and types.

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