



OPTIMAX 80X JETMACHINING CENTER

**The pinnacle in high performance precision
abrasive waterjet machining**

The OMAX OptiMAX is the culmination of three decades of engineering expertise and experience, resulting in the world's most accurate waterjet designed for maximum uptime in any manufacturing environment.



**Industry leading
cutting speeds
and precision**



**Environmentally
friendly technology
cuts more with less**



**Intelligent software
maximizes overall
productivity**

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.



OPTIMAX 80X

INDUSTRY LEADING STANDARD FEATURES

- Produce more parts with less water and garnet with the most efficient pump in the industry, the **EnduroMAX direct drive pump**
- With powerful optimizations for faster, more precise cutting and predictable operations, **IntelliMAX Premium** is industry-leading software that is intuitive and easy to use
- Patented Maintenance-Free **IntelliTRAX Drive System** with micron level encoders for positional accuracy
- Get up to speed and stay there with **Free Unlimited Training** for lifetime of ownership
- Highly customizable predictive maintenance tool, **IntelliVISOR System Monitoring**, comes with text and email notification abilities
- Automatic garnet line air sweep integrated into the **Motorized Z-Axis** for smooth and consistent abrasive flow to the cutting nozzle
- Quiet and clean submerged cutting with **Rapid Water Level Control** system
- Transport garnet reserves from the **Bulk Abrasive Delivery System** into the Zero Downtime Hopper located on the Z-Axis
- Enjoy safety and maintenance advantages with **Scissor Plumbing** that also contributes to a smaller system footprint

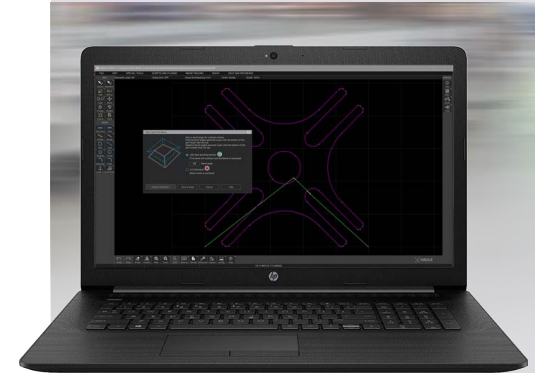
We could go on. [You want to know more?](#)

HIGHLY CUSTOMIZABLE BUILD IT YOUR WAY

State of the art accessory options configure the OptiMAX to perform your jobs, your way. Customize your waterjet with options to enhance productivity such as multi-axis cutting, automated garnet removal, secondary operations assistance, and water recycling. (not a complete list)

- Eliminate taper from cut parts with the **TiltaJET Cutting Head**
- Automate spent garnet removal with the **Variable Speed Solids Removal System**
- Cut up to 60 degrees with the **VersaJET Cutting Head** for bevel and angle cutting
- Maximize your production throughput with **EnduroMAX Pump** options from 30 HP up to 50 HP

And there's more. [Want to see them all?](#)



Our software makes the difference

Maximize machine time and profit margins with software built specifically for waterjet machining.

90+ file types supported for easy integration into existing workflow, including image files

70+ Separate data monitoring points for maximum machine uptime

26% more speed and precision on advanced cutting optimizations

\$0 No subscription, maintenance, or support fees ever

[Learn more](#)



OPTIMAX 80X

OPTIMAX 80X SYSTEM SPECIFICATIONS

MACHINE DIMENSIONS

Standard Layout Footprint*	26' 0" x 12' 11" (7,925 mm x 3,937 mm)
Weight (tank empty)	9,150lb (4,151 kg)
Height (with scissor plumbing)	10' 0" (3,048 mm)
Operating Weight	49,575 lb (22,487 kg)

WORK ENVELOPE

X-Y Cutting Travel*	14' 0" x 6' 8" (4,267 mm x 2,032 mm)
Z-Axis Travel*	12" (305 mm)
Table Size	21' 7" x 12' 11" (6,578 mm x 3,937 mm)

STANDARD MODEL SPECIFICATIONS

Material Support Slats	4" x 1/8" 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
X-Y Speed	350 in/min (8,890 mm/min)
Z Speed	100 in/min (2,540 mm/min)
Linear Positional Accuracy*	±0.001" (±0.025 mm)
Repeatability*	±0.001" (±0.025 mm)
Ballbar Circularity*	±0.0025 (0.0635mm)

Want to dive even deeper? [See all the details.](#)

*Optional accessories may reduce cutting travel. Standard Layout Footprint includes table and pump in an optimal layout configuration. Photos may show optional accessories. For a complete list of accessories, contact an OMAX sales representative. Accuracy specifications are at 72° F (22° C). Pumps are built to meet UL and CE specifications. Contact OMAX for detailed utility requirements.

Specifications subject to change without notice. MKT0221B © OMAX Corporation March 2022



OMAX. Our engineers continue to innovate technology for waterjet machining, from powerhouse pump designs to cutting edge drive systems with micron-level accuracy. And we have the largest abrasive waterjet support network in the world.

We continue to shape the future of waterjets.

[Want to know more about OMAX?](#)

OMAX CORPORATION

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