



**OMAX<sup>®</sup>**

A Hypertherm Associates Brand

# OMAX Product Catalog

Abrasive Waterjet Systems, Accessories, & Software



## **Important Notice:**

This catalog is a compilation of existing product specification sheets and the information is current as of February 2025. For the latest information and specifications visit [www.OMAX.com](http://www.OMAX.com).



**OMAX®**

A Hypertherm Associates Brand

# Get to know OMAX technology



## Global leader in advanced abrasive waterjet technology

In 1993, OMAX revolutionized the abrasive waterjet industry with its combination of innovative waterjet control software and advanced direct drive technology. In 2019, Hypertherm Associates acquired OMAX Corporation and continues to innovate and lead the industry in precision, affordability and ease of use that customers need for a broad range of industries. From the ProtoMAX® and GlobalMAX® through the MAXIEM®, MicroMAX®, and OptiMAX® product lines, OMAX abrasive waterjet systems deliver the productivity and profitability required in today's manufacturing environment.





### We are innovating for you

With more than 620 years of combined experience, our expert engineers continue to deliver an extensive list of industry firsts, patents and awards:

- First to introduce the most advanced abrasive waterjet technology
- Industry's most advanced and intuitive software
- Most efficient direct-drive pump technology on the market
- Developers of the most accurate part time and cost estimator application in the industry
- First to produce the most precise large-format abrasive waterjet
- Extensive array of reliable and retrofittable accessories
- Creators of the world's first mechanical motion drive system for waterjets
- First abrasive waterjet to provide 6-axis 3D cutting capabilities

### Our support and training give you the edge

We produce the world's most advanced abrasive waterjet technology and support you with the training and service you need to maximize your investment.

- State-of-the-art training facilities and programs for hands-on software and machine training
- Best training and user documentation in the industry, available in 13 languages
- 24/7 access to eLearning through software, product and training materials

### Where you need us

Our global network of domestic and international distributor partners supporting more than 60 countries keeps you competitive by providing solutions tailored to meet your needs.

- Long-time, successful distributor partnerships
- Country-specific technical support teams







### Our software puts you in control

Our intuitive IntelliMAX® Software Suite delivers extraordinary power and performance and makes it easy to quickly create precision 2D and 3D parts.

- First controller designed specifically for abrasive waterjet machining
- Includes a built-in cutting model based on years of real-world data
- Works on the Windows® operating system
- Available in 16 languages
- Converts, imports or views more CAD, artistic and other file types than any other software in the industry

### OMAX by the numbers

560+ years of combined support and service experience

60+ countries served

85% efficient direct-drive pump

620+ years of combined R&D experience

24/7 access to eLearning

1000-hour direct-drive pump maintenance cycles

200+ educational institutions served

1st to introduce waterjet to high schools and work with STEM robotics programs

### 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.





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## 5 Reasons to choose OptiMAX



### Exact. Tough. Optimized.

Designed for maximum uptime in any manufacturing environment while delivering high precision, the OMAX® OptiMAX® represents the pinnacle of three decades of engineering expertise and experience. With innovations such as IntelliTRAX®, the high precision traction drive technology designed for maximum accuracy and minimal maintenance, IntelliMAX® software that enhances automation capabilities while remaining easy to use, and EnduroMAX® pumps that feature a simple yet robust design specifically engineered to simplify maintenance while maximizing nozzle horsepower, the OMAX OptiMAX expands the possibilities of waterjet machining.





## 1 Improved Automation

With highly integrated system communications, the OptiMAX is the most connected OMAX waterjet ever. This means significantly reduced operator involvement, freeing the operator up to perform other tasks while the OptiMAX monitors everything. While this system monitoring can alert the operator remotely of errors or other problems, it can also be used to plan for scheduled maintenance, further reducing downtime and increasing overall production. Other automation features include an auto-homing tool that precisely homes the machine with just a couple clicks of the mouse.

## 2 Enhanced IntelliMAX Software

The OMAX IntelliMAX software expands the versatility and performance of the OptiMAX while simplifying overall operation. The IntelliCAM computer-aided manufacturing program allows the operator to easily input a 3D model and generate either a 2D or 3D cutting path. XData integrated into the IntelliMAX software lets the user input useful commands directly into the cutting path, further expanding capabilities of the OptiMAX. Advanced and detailed analytics and reporting provide detailed information for the most accurate job reporting available, maximizing profitability.

## 3 Innovative Air Sweep System

The new Air Sweep system integrated into the cutting head of the OptiMAX significantly reduces machine downtime by automatically clearing nozzle and abrasive feed line clogs. The IntelliMAX software can detect these clogs and activate the Air Sweep system, clearing the problem and resetting the cut path to allow the operator to easily resume the job with minimal downtime or additional maintenance.





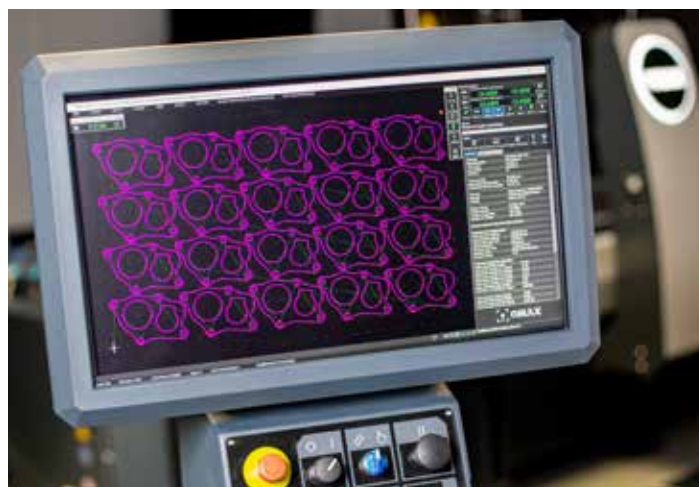


## 4 Upgraded EnduroMAX 5-Series Pumps

With the EnduroMAX pump already the most efficient waterjet pump on the market today, the EnduroMAX 5-Series designed for the OptiMAX elevates that technology even further. Innovative design features greatly improve maintenance access, reducing total system downtime during scheduled servicing, while the motorized adjustable dump orifice and complete software control reduces operator involvement while reducing pressure fluctuations and extending pump life.

## 5 Customizable Through Accessories

The OptiMAX is designed to meet your needs, with an array of state-of-the-art accessory options. Five-axis cutting, automated garnet removal systems, precision part locating, and more are all options designed to enhance your productivity and maximize profitability while allowing you to perform your jobs, your way.



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

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**OMAX®**

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# OptiMAX JetMachining Centers



## Maximum performance, maximum productivity

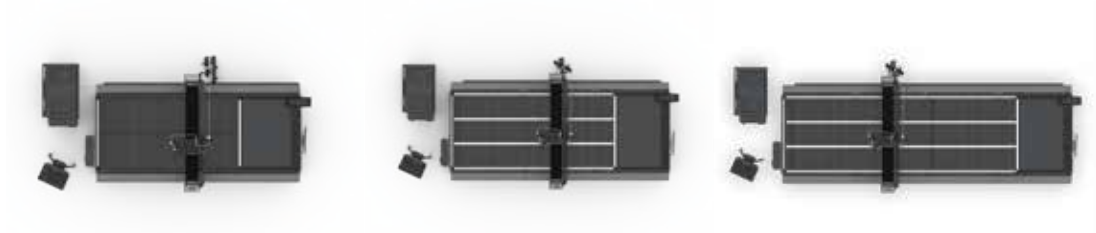
The OMAX OptiMAX® is the culmination of three decades of engineering expertise and experience, resulting in the world's most accurate waterjet designed for maximum uptime in any manufacturing environment. The OptiMAX jet machine center includes:

- IntelliTRAX®, the high precision traction drive technology designed exclusively for the abrasive waterjet environment for maximum accuracy and minimal maintenance.
- IntelliMAX® software that enhances automation capabilities with direct control of the advanced 5-Series EnduroMAX® pump, rapid auto-homing of the waterjet and more.
- EnduroMAX pump with a simple yet robust design that is specifically engineered to simplify maintenance through innovative features while maximizing nozzle horsepower.

The power of the IntelliMAX software and OptiMAX innovation results in more uptime, expanding the possibilities of the OptiMAX.

## OptiMAX model specifications

Family Specs	
X-Y Speed	350 ipm
Linear axis accuracy	0.001"
Linear axis repeatability	0.001"
Ballbar circularity	0.003"



## OptiMAX machine specifications

Dimensions	60X	80X	80X-1
Standard layout footprint*	22' 8" x 11' 11"	26' 0" x 12' 11"	32' 8" x 12' 11"
Weight (tank empty)	8,500 lb.	9,150 lb.	12,430 lb.
Height (with standard plumbing)	9' 9"	10' 0"	10' 0"
Operating weight	36,118 lb.	9,575 lb.	65,900 lb.
X-Y Cutting travel*	10' 0" x 5' 2"	13' 4" x 6' 8"	20' 0" x 6' 8"
Z-Axis travel*	12"	12"	12"
Table size	12' 6" x 6' 2"	15' 1" x 7' 2"	21' 9" x 7' 2"

\*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). Pumps are built to meet UL and CE specifications. Contact OMAX for detailed utility requirements. Specifications subject to change without notice.



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

## Customizable with accessories

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, water recycling, and more.





## 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 OptiMAX 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.



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

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# OptiMAX 60X

## JetMachining Center



The pinnacle in high performance precision abrasive waterjet machining, the OMAX OptiMAX® JetMachining Center® is the culmination of three decades of engineering expertise and experience. With Industry leading cutting speeds and precision, the OptiMAX is the world's most accurate waterjet designed for maximum uptime in any manufacturing environment. The OptiMAX's environmentally friendly technology cuts more with less while the intelligent software maximizes overall productivity.

### EnduroMAX 5-Series pump innovation

Developed alongside the OptiMAX JetMachining Center, the next generation EnduroMAX® 5-Series pump is the most advanced direct drive pump with unparalleled levels of automation, long operating cycles and quick, easy maintenance, the EnduroMAX 5-Series is the best choice for ultra high pressure waterjet pumps that deliver the utmost efficiency with minimum downtime in order to maximize production.

### Available accessories

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.

- Eliminate taper from cut parts with the TiltJet® Cutting Head
- Automate spent garnet removal with the Variable Speed Solids Removal System
- Maximize your production throughput with EnduroMAX 5-Series Pump options from 30 HP up to 50 HP
- Cut up to 60 degrees with the VersaJet® Cutting Head for bevel and angle cutting
- Rotary Axis for creating complex 3D parts and tube & pipe cutting
- Bridge Pendant for moving the cutting head and while standing next to the bridge

### Specifications

Machine dimensions	
Footprint (with controller)	22' 8" x 11' 11" (6.91 m x 3.63 m)
Weight (tank empty)	8,500 lb (3,855 kg)
Height	9' 9" (2.97 m)
Operating weight	36,118 lbs (16,383 kg)

Work envelope	
X-Y cutting travel*	10' 0" x 5' 2" (3.04 m x 1.57 m)
Z-Axis travel (with motorized Z-Axis)*	12" (304 mm)
Table size	12' 6" x 6' 2" (3.81 m x 1.88 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 (1,953 kg/sq meter)
Electrical requirements	3-Phase, 380-480 VAC $\pm 10\%$ , 50-60 Hz
Noise level	Below 80 dBA at one meter for submerged cutting
Speed	350 in/min (8.89 m/min)
Linear positional accuracy*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Repeatability*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Ballbar circularity*	$\pm 0.003"$ ( $\pm 0.076$ mm)



**OMAX®**

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# OptiMAX 80X

## JetMachining Center



The pinnacle in high performance precision abrasive waterjet machining, the OMAX OptiMAX® JetMachining Center® is the culmination of three decades of engineering expertise and experience. With Industry leading cutting speeds and precision, the OptiMAX is the world's most accurate waterjet designed for maximum uptime in any manufacturing environment. The OptiMAX's environmentally friendly technology cuts more with less while the intelligent software maximizes overall productivity.

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- Maximize your production throughput with EnduroMAX 5-Series Pump options from 30 HP up to 50 HP
- Cut up to 60 degrees with the VersaJet® Cutting Head for bevel and angle cutting
- Rotary Axis for creating complex 3D parts and tube & pipe cutting
- Bridge Pendant for moving the cutting head and while standing next to the bridge

### Specifications

Machine dimensions	
Footprint (with controller)	26' 0" x 12' 11" (7.92 m x 3.94 m)
Weight (tank empty)	9,150 lb (4,150 kg)
Height	10' 0" (3.05 m)
Operating weight	49,575 lb (22,487 kg)

Work envelope	
X-Y cutting travel*	13' 4" x 6' 8" (4.06 m x 2.03 m)
Z-Axis travel (with motorized Z-Axis)*	12" (304 mm)
Table size	15' 1" x 7' 2" (4.06 m x 2.03 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 (1,953 kg/sq meter)
Electrical requirements	3-Phase, 380-480 VAC $\pm 10\%$ , 50-60 Hz
Noise level	Below 80 dBA at one meter for submerged cutting
Speed	350 in/min (8.89 m/min)
Linear positional accuracy*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Repeatability*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Ballbar circularity*	$\pm 0.003"$ ( $\pm 0.076$ mm)





## 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, software maintenance, or software support fees ever

## The 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 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.



For more information, visit: [www.omax.com](http://www.omax.com)

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Please visit [www.omax.com/patents](http://www.omax.com/patents) for more details about Hypertherm Associates patent numbers and types.

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MKT221



## 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.

As 100% Associate owners, we are all focused on delivering a superior customer experience.  
[www.hyperthermassociates.com/ownership](http://www.hyperthermassociates.com/ownership)

Environmental stewardship is one of Hypertherm Associates' core values. [www.hyperthermassociates.com/environment](http://www.hyperthermassociates.com/environment)

100% Associate-owned





**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.

- 30 hp., 60,000 psi
- 40 hp., 60,000 psi
- 50 hp., 60,000 psi
- 100 hp., 60,000 psi

Cantilever specifications



	Model 2626	Model 2652	Model 5555	Model 55100
Machine footprint	9' 9" x 6' 10"	.12' 1" x 6' 3"	11' 5" x 8' 9"	15' 1" x 8' 9"
X-Y cutting travel	2'2" x 2'2"	.4' 4" x 2' 2"	4' 7" x 4' 7"	8' 4" x 4' 7"
Linear axis accuracy	±0.001"	±0.001"	±0.001	±0.001"
Ballbar circularity	±0.0025"	±0.0025"	±0.0025"	±0.0025
Linear axis repeatability	±0.001"	±0.001"	±0.001"	±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	10' 2" x 7' 2"
X-Y cutting travel	2' 1" x 2' 1"
Ballbar circularity	±0.0005"
Linear axis repeatability	±0.0001"
Linear axis accuracy	±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



	120X Series	160X Series
Machine footprint	26' 7" x 19' 5" to 51' 6" x 22' 5"	37' 1" x 25' 6"
X-Y cutting travel	13' 4" x 10' 0" to 40' 0" x 10' 0"	26' 8" x 13' 4"
Linear axis accuracy	±0.001"	±0.001"
Ballbar circularity	±0.005"	±0.005"
Linear axis repeatability	±0.001"	±0.001"

NOTE: 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 120X 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.

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# OMAX 2626

## 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

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

### Specifications

Machine dimensions	
Footprint (standard layout)	9' 9" x 6' 10" (2.97 m x 2.08 m)
Weight (tank empty)	3,840 lbs (1,742 kg)
Height	8' 0" (2.44 m)
Operating weight	7,393 lbs (3,353 kg)

Work envelope	
X-Y cutting travel*	2' 2" x 2' 2" (0.66 m x 0.66 m)
Z-Axis travel (with motorized Z-Axis)*	8" (203 mm)
Table size	3' 10" x 2' 7" (1.17 m x 0.79 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 (1,953 kg/sq meter)
Electrical requirements	3-Phase, 380-480 VAC $\pm 10\%$ , 50-60 Hz
Noise level	Below 80 dBA at one meter for submerged cutting
Speed	180 in/min (4.57 m/min)
Linear axis accuracy*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Linear axis repeatability*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Ballbar circularity*	$\pm 0.0025"$ ( $\pm 0.064$ mm)



**OMAX®**

A Hypertherm Associates Brand

# OMAX 2652

## 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.

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### Available accessories

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

### Specifications

Machine dimensions	
Footprint (standard layout)	12' 1" x 6' 3" (3.68 m x 1.91 m)
Weight (tank empty)	4,300 lbs (1,950 kg)
Height	8' 0" (2.44 m)
Operating weight	10,252 lbs (4,650 kg)

Work envelope	
X-Y cutting travel*	4' 4" x 2' 2" (1.32 m x 0.66 m)
Z-Axis travel (with motorized Z-Axis)*	8" (203 mm)
Table size	5' 9" x 2' 6" (1.75 m x 0.76 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 (1,953 kg/sq meter)
Electrical requirements	3-Phase, 380-480 VAC $\pm 10\%$ , 50-60 Hz
Noise level	Below 80 dBA at one meter for submerged cutting
Speed	180 in/min (4.57 m/min)
Linear axis accuracy*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Linear axis repeatability*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Ballbar circularity*	$\pm 0.0025"$ ( $\pm 0.064$ mm)





**OMAX®**

A Hypertherm Associates Brand

# OMAX 5555

## 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

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

### Specifications

Machine dimensions	
Footprint (standard layout)	11' 5" x 8' 9" (3.48 m x 2.67 m)
Weight (tank empty)	6,220 lbs (2,821 kg)
Height	10' 0" (3.05 m)
Operating weight	14,142 lbs (6,415 kg)

Work envelope	
X-Y cutting travel*	4' 7" x 4' 7" (1.39 m x 1.39 m)
Z-Axis travel (with motorized Z-Axis)*	8" (203 mm)
Table size	6' 8" x 5' 5" (2.03 m x 1.65 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 (1,953 kg/sq meter)
Electrical requirements	3-Phase, 380-480 VAC $\pm 10\%$ , 50-60 Hz
Noise level	Below 80 dBA at one meter for submerged cutting
Speed	180 in/min (4.57 m/min)
Linear axis accuracy*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Linear axis repeatability*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Ballbar circularity*	$\pm 0.0025"$ ( $\pm 0.064$ mm)



**OMAX®**

A Hypertherm Associates Brand

# OMAX 55100

## 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

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

### Specifications

Machine dimensions	
Footprint (standard layout)	15' 1" x 8' 9" (4.60 m x 2.44 m)
Weight (tank empty)	7,960 lbs (3,611 kg)
Height	10' 0" (3.05 m)
Operating weight	21,147 lbs (9,592 kg)

Work envelope	
X-Y cutting travel*	8' 4" x 4' 7" (2.54 m x 1.39 m)
Z-Axis travel (with motorized Z-Axis)*	8" (203 mm)
Table size	10' 6" x 5' 5" (3.20 m x 1.65 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 (1,953 kg/sq meter)
Electrical requirements	3-Phase, 380-480 VAC $\pm 10\%$ , 50-60 Hz
Noise level	Below 80 dBA at one meter for submerged cutting
Speed	180 in/min (4.57 m/min)
Linear axis accuracy*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Linear axis repeatability*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Ballbar circularity*	$\pm 0.0025"$ ( $\pm 0.064$ mm)

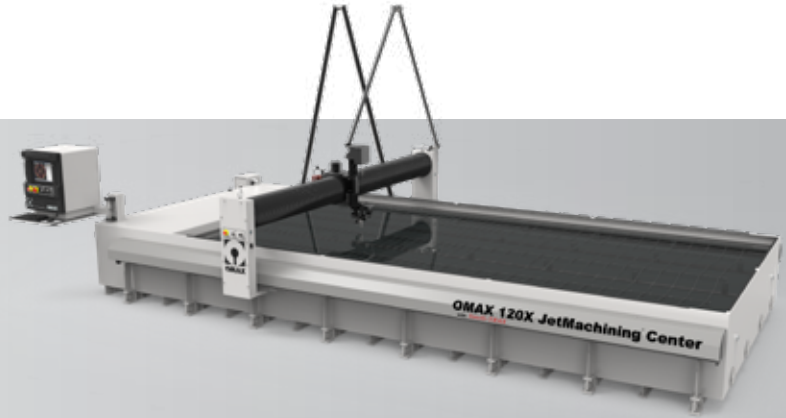


**OMAX®**

A Hypertherm Associates Brand

# OMAX 120X

## 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

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

### Specifications

Machine dimensions	
Footprint (standard layout)	33' 3" x 19' 5" (10.13 m x 5.92 m)
Weight (tank empty)	22,000 lbs (9,979 kg)
Height	14' 0" (4.27 m)
Operating weight	71,679 lbs (32,513 kg)

Work envelope	
X-Y cutting travel*	20' 0" x 10' 0" (6.09 m x 3.04 m)
Z-Axis travel (with motorized Z-Axis)*	8" (203 mm)
Table size	21' 0" x 11' 5" (6.40 m x 3.48 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 $\pm 10\%$ , 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*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Linear axis repeatability*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Ballbar circularity*	$\pm 0.005"$ ( $\pm 0.127$ mm)





**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

- Tilt-A-Jet® for advanced taper removal for perfectly square part edges
- A-Jet® 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 Tilt-A-Jet 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	21' 7" x 14' 9" (6.58 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.





## 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 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.

## 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.



For more information, visit: [www.omas.com](http://www.omas.com)

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MKT042



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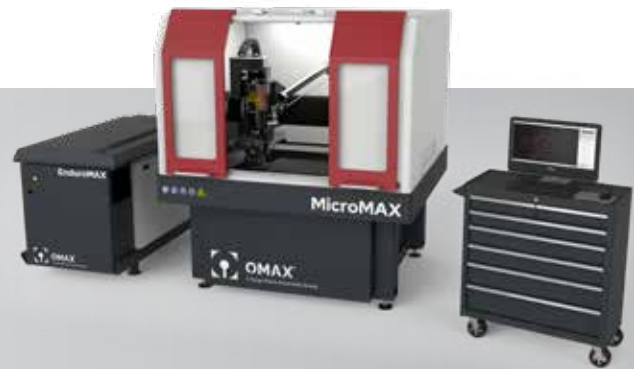


**OMAX®**

A Hypertherm Associates Brand

# MicroMAX

## JetMachining Center



The MicroMAX® JetMachining® Center is the ideal solution for ultra-precision abrasive waterjet machining. Utilizing advanced high precision linear encoders, innovative vibration isolation, and proven IntelliMAX® software control systems, the MicroMAX is capable of a positioning accuracy of less than five microns while retaining all the advantages of abrasive waterjet machining. The MicroMAX can machine stainless steel, titanium, carbon fiber, PEEK, glass, nitinol, graphite, copper, composites, laminates, and more, with high precision and smooth finishing, for either prototyping or production.

### MicroMAX EnduroMAX pump innovation

The unique EnduroMAX direct drive pump paired with the MicroMAX adds an attenuator to deliver the smoothest pressure output to the nozzle for maximum precision. With all the easy maintenance benefits of EnduroMAX technology, the MicroMAX EnduroMAX pump combines consistent uptime with a precision-oriented high pressure output.

### A system designed for ultimate waterjet precision

The MicroMAX JetMachining Center was designed from the beginning to be the ultimate in high precision abrasive waterjet machining. A highly rigid structure with vibration isolation of the table and gantries feature matched thermal expansion to reduce positional variances and maximize system accuracy. A full enclosure with environmental controls help maintain consistent and optimal operating temperatures, significantly reducing thermal impact on fixtured materials. The result is the pinnacle in abrasive waterjet machining.

### Advanced IntelliTRAX drive system

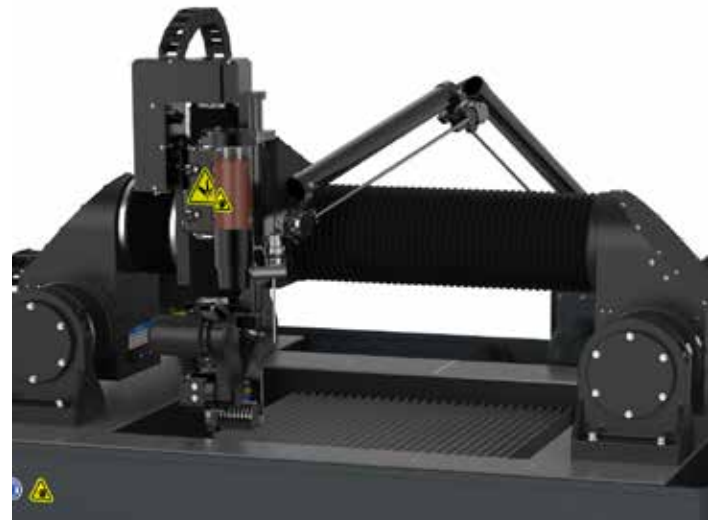
The ultimate in durable high-precision motion control, the OMAX IntelliTRAX® drive system used on the MicroMAX JetMachining Center incorporates a magnetic linear encoder and an electronic drive control for precise positioning. With a location resolution of one micron, the IntelliTRAX system provides extremely accurate positioning with an innovative feedback/feed-forward control loop. All combined makes IntelliTRAX the ideal motion control system for abrasive waterjets.

### Specifications

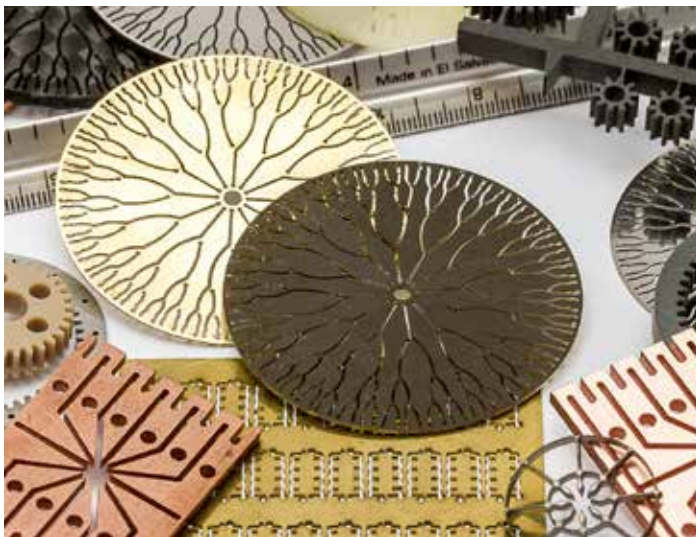
Machine dimensions	
Footprint (with pump & controller)	10' 2" x 7' 2" (3.10 m x 2.18 m)
Weight (tank empty)	3,700 lbs (1,678 kg)
Height	7' 6" (2.29 m)
Operating weight	7,372 lbs (3,344 kg)

Work envelope	
X-Y cutting travel*	2' 1" x 2' 1" (0.63 m x 0.63 m)
Z-Axis travel (with motorized Z-Axis)*	4.5" (114 mm)
Table size	2' 11" x 3' 0" (6.93 m x 3.25 m)

Standard model specifications	
Material support slats	4" x 11 gauge (102 mm x 2.9 mm) galvanized steel
Maximum supported material load	400 lbs/sq ft (1,953 kg/sq meter)
Electrical requirements	3-Phase, 380-480 VAC $\pm 10\%$ , 50-60 Hz
Noise level	Below 80 dBA at one meter for submerged cutting
Speed	100 in/min (2.54 m/min)
Linear axis accuracy*	$\pm 0.0001"$ ( $\pm 0.0025$ mm)
Linear axis repeatability*	$\pm 0.0001"$ ( $\pm 0.0025$ mm)
Ballbar circularity*	$\pm 0.0005"$ ( $\pm 0.013$ mm)







### Available accessories

- Rotary axis for tube and pipe micro abrasive waterjet machining.
- Precision Optical Locator for accurate material alignment and positioning.
- Collision Sensing Terrain Follower automatically adjusts to accommodate uneven part surfaces.
- Rapid water level control for clean and quiet submerged cutting.
- Variable Speed Solids Removal System (VS-SRS) for automated solids removal from the catcher tank.
- Bulk abrasive delivery hoppers to minimize production downtime.

Optional accessories may reduce cutting travel. Photos may show optional accessories. For a complete list of accessories, contact an OMAX sales representative.



For more information, visit: [www.omax.com](http://www.omax.com)

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### IntelliMAX Software Suite

For over 20 years, OMAX has invested extensive research and development to provide the most advanced abrasive waterjet software possible. Through software enhancements, your MAXIEM 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; 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 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.

### 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.

As 100% Associate owners, we are all focused on delivering a superior customer experience.  
[www.hyperthermassociates.com/ownership](http://www.hyperthermassociates.com/ownership)

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100% Associate-owned





**OMAX®**

A Hypertherm Associates Brand

# MAXIEM JetMachining Centers



## High performance abrasive waterjet cutting

Fast, smooth, and accurate, the MAXIEM® JetMachining® Center is ideal for the ambitious shop where new challenges are a permanent driving force. The MAXIEM waterjet system was developed, tested, and built in keeping with OMAX technology standards to deliver:

- Superior performance with its innovative IntelliTRAX® drive system
- Expanded versatility with multi-axis cutting head options
- High productivity with powerful and durable OMAX direct drive pumps
- Affordable price point across the entire MAXIEM product line
- Customized options to tailor your MAXIEM system for your specific needs
- Easy-to-use IntelliMAX® Software Suite simplifies operation while maximizing production

However you customize your MAXIEM, remember that there are no limits to its potential.

A system designed for your needs

Whether you need a small machine for rapid prototyping, or a large system capable of working with standard sheet and plate sizes for full-scale production, the MAXIEM JetMachining Center is customizable to fit your needs. Regardless of system size, every MAXIEM machine brings the same great performance and high reliability, maximizing your potential.

MAXIEM model specifications

Family Specs	
X-Y Speed	500 ipm
Linear axis accuracy	0.003"
Linear axis repeatability	0.001"
Ballbar circularity	0.005"



Machine Specs	1515	1530	2030
Standard Layout Footprint	13' 3" x 12' 5"	18' 5" x 13' 7"	18' 0" x 13' 2"
Weight (tank empty)	6,000 lb	7,000 lb	7,500 lb
Height	9' 8"	10' 6"	8' 10"
Operating Weight	14,144 lb	19,990 lb	23,432 lb
X-Y Cutting travel	5' 2" x 5' 2"	5710' 0" x 5' 2"	10' 0" x 6' 7"
Z-Axis travel	12"	12"	12"
Table size	7' 4" x 5' 8"	12' 2" x 5' 8"	12' 2" x 7' 0"

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.

Available accessories\*

- VersaJET 5-Axis cutting head with smart taper control
- Rapid water level control for submerged cutting
- IntelliMAX Premium software
- Additional seats of IntelliMAX Software Suite
- Bulk abrasive delivery assembly
- Terrain follower for A-Jet
- Collision sensing terrain follower
- High-pressure universal swivel plumbing
- Variable speed solids removal system (VS-SRS)
- Laser feature finder
- Z-Axis pneumatic drill
- Access control circuit interface for safety interlocks
- Laminar filter
- Water recycling system



\*Optional accessories may reduce travel. Photos may show optional accessories. For a complete list of available accessories, contact an OMAX sales representative.



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 MAXIEM 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 (available with the IntelliMAX Premium upgrade)

The IntelliMAX Software Suite benefits:

- 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 IntelliMAX Premium upgrade, the IntelliVISOR system monitoring application lets the operator 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.



2040	2060	2080	3060
21' 9" x 12' 11"	28' 9" x 12' 11"	35' 1" x 12' 11"	28' 6" x 16' 6"
8,500 lb	10,500 lb	12,800 lb	26,000 lb
8' 10"	8' 10"	10' 4"	8' 10"
28,283 lb	39,553 lb	50,123 lb	70,105 lb
13' 10" x 6' 7"	20' 6" x 6' 7"	27' 2" x 6' 7"	20' 6" x 10' 2"
12"	12"	12"	12"
16' 1" x 7' 0"	22' 9" x 7' 0"	27' 10" x 7' 0"	22' 9" x 10' 8"



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.



**OMAX®**  
A Hypertherm Associates Brand

# MAXIEM 1515

## JetMachining Center



Fast, smooth, and accurate, the MAXIEM® JetMachining Center® is ideal for the ambitious shop where new challenges are a permanent driving force. The MAXIEM waterjet system was developed, tested, and built in keeping with the OMAX philosophy to deliver superior performance, expanded versatility, and high productivity at an affordable price. Your MAXIEM can become even more individual thanks to a diverse selection of options, yet remains easy to use for any level of operator. However you customize your MAXIEM, remember that there are no limits to its potential.

### Direct drive pump innovation

The advanced direct drive pump paired with the MAXIEM JetMachining Center delivers the most horsepower to the nozzle. With 1000 hours between maintenance cycles, OMAX direct drive pumps are the best choice for reliable and robust ultra high pressure waterjet cutting.

### A system designed for your needs

Whether you need a small machine for rapid prototyping, or a large system capable of working with standard sheet and plate sizes for full-scale production, the MAXIEM JetMachining Center is customizable to fit your needs. Regardless of system size, every MAXIEM machine brings the same great performance and high reliability, maximizing your potential.

### Innovative IntelliTRAX drive system

The ultimate in durable high-precision motion control, the OMAX IntelliTRAX® drive system used on the MAXIEM JetMachining Center incorporates a magnetic linear encoder and an electronic drive control for precise positioning. With a location resolution of one micron, the IntelliTRAX system provides extremely accurate positioning with an innovative feedback/feed-forward control loop. All combined makes IntelliTRAX the ideal motion control system for abrasive waterjets.

### Specifications

Machine dimensions	
Footprint (with controller)	13' 3" x 12' 5" (4.04 m x 3.78 m)
Weight (tank empty)	6,000 lbs (2,722 kg)
Height	9' 8" (2.95 m)
Operating weight	14,114 lbs (6,402 kg)

Work envelope	
X-Y cutting travel*	5' 2" x 5' 2" (1.57 m x 1.57 m)
Z-Axis travel (with motorized Z-Axis)*	12" (304 mm)
Table size	7' 4" x 5' 8" (2.24 m x 1.73 m)

Standard model specifications	
Material support slats	4" x 14 gauge (102 mm x 2 mm) galvanized steel
Maximum supported material load	300 lbs/sq ft (1,465 kg/sq meter)
Electrical requirements	3-Phase, 380-480 VAC $\pm 10\%$ , 50-60 Hz
Noise level	Below 80 dBA at one meter for submerged cutting
Speed	500 in/min (12.70 m/min)
Linear positional accuracy*	$\pm 0.003"$ ( $\pm 0.076$ mm)
Repeatability*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Ballbar circularity*	$\pm 0.005"$ ( $\pm 0.127$ mm)





**OMAX®**  
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# MAXIEM 1530

## JetMachining Center



Fast, smooth, and accurate, the MAXIEM® JetMachining Center® is ideal for the ambitious shop where new challenges are a permanent driving force. The MAXIEM waterjet system was developed, tested, and built in keeping with the OMAX philosophy to deliver superior performance, expanded versatility, and high productivity at an affordable price. Your MAXIEM can become even more individual thanks to a diverse selection of options, yet remains easy to use for any level of operator. However you customize your MAXIEM, remember that there are no limits to its potential.

### Direct drive pump innovation

The advanced direct drive pump paired with the MAXIEM JetMachining Center delivers the most horsepower to the nozzle. With 1000 hours between maintenance cycles, OMAX direct drive pumps are the best choice for reliable and robust ultra high pressure waterjet cutting.

### A system designed for your needs

Whether you need a small machine for rapid prototyping, or a large system capable of working with standard sheet and plate sizes for full-scale production, the MAXIEM JetMachining Center is customizable to fit your needs. Regardless of system size, every MAXIEM machine brings the same great performance and high reliability, maximizing your potential.

### Innovative IntelliTRAX drive system

The ultimate in durable high-precision motion control, the OMAX IntelliTRAX® drive system used on the MAXIEM JetMachining Center incorporates a magnetic linear encoder and an electronic drive control for precise positioning. With a location resolution of one micron, the IntelliTRAX system provides extremely accurate positioning with an innovative feedback/feed-forward control loop. All combined makes IntelliTRAX the ideal motion control system for abrasive waterjets.

### Specifications

Machine dimensions	
Footprint (with controller)	18' 5" x 13' 7" (5.61 m x 4.14 m)
Weight (tank empty)	7,000 lbs (3,175 kg)
Height	10' 6" (3.20 m)
Operating weight	19,990 lbs (9,067 kg)

Work envelope	
X-Y cutting travel*	10' 0" x 5' 2" (3.04 m x 1.57 m)
Z-Axis travel (with motorized Z-Axis)*	12" (304 mm)
Table size	12' 2" x 5' 8" (3.71 m x 1.73 m)

Standard model specifications	
Material support slats	4" x 14 gauge (102 mm x 2 mm) galvanized steel
Maximum supported material load	300 lbs/sq ft (1,465 kg/sq meter)
Electrical requirements	3-Phase, 380-480 VAC $\pm 10\%$ , 50-60 Hz
Noise level	Below 80 dBA at one meter for submerged cutting
Speed	500 in/min (12.70 m/min)
Linear positional accuracy*	$\pm 0.003"$ ( $\pm 0.076$ mm)
Repeatability*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Ballbar circularity*	$\pm 0.005"$ ( $\pm 0.127$ mm)





**OMAX®**

A Hypertherm Associates Brand

# MAXIEM 2030

## JetMachining Center



Fast, smooth, and accurate, the MAXIEM® JetMachining Center® is ideal for the ambitious shop where new challenges are a permanent driving force. The MAXIEM waterjet system was developed, tested, and built in keeping with the OMAX philosophy to deliver superior performance, expanded versatility, and high productivity at an affordable price. Your MAXIEM can become even more individual thanks to a diverse selection of options, yet remains easy to use for any level of operator. However you customize your MAXIEM, remember that there are no limits to its potential.

### Direct drive pump innovation

The advanced direct drive pump paired with the MAXIEM JetMachining Center delivers the most horsepower to the nozzle. With 1000 hours between maintenance cycles, OMAX direct drive pumps are the best choice for reliable and robust ultra high pressure waterjet cutting.

### A system designed for your needs

Whether you need a small machine for rapid prototyping, or a large system capable of working with standard sheet and plate sizes for full-scale production, the MAXIEM JetMachining Center is customizable to fit your needs. Regardless of system size, every MAXIEM machine brings the same great performance and high reliability, maximizing your potential.

### Innovative IntelliTRAX drive system

The ultimate in durable high-precision motion control, the OMAX IntelliTRAX® drive system used on the MAXIEM JetMachining Center incorporates a magnetic linear encoder and an electronic drive control for precise positioning. With a location resolution of one micron, the IntelliTRAX system provides extremely accurate positioning with an innovative feedback/feed-forward control loop. All combined makes IntelliTRAX the ideal motion control system for abrasive waterjets.

### Specifications

Machine dimensions	
Footprint (with controller)	18' 0" x 13' 2" (5.49 m x 4.01 m)
Weight (tank empty)	7,500 lbs (3,402 kg)
Height	8' 10" (2.69 m)
Operating weight	23,432 lbs (10,629 kg)

Work envelope	
X-Y cutting travel*	10' 0" x 6' 7" (3.04 m x 2.00 m)
Z-Axis travel (with motorized Z-Axis)*	12" (304 mm)
Table size	12' 2" x 7' 0" (3.71 m x 2.13 m)

Standard model specifications	
Material support slats	4" x 14 gauge (102 mm x 2 mm) galvanized steel
Maximum supported material load	300 lbs/sq ft (1,465 kg/sq meter)
Electrical requirements	3-Phase, 380-480 VAC $\pm 10\%$ , 50-60 Hz
Noise level	Below 80 dBA at one meter for submerged cutting
Speed	500 in/min (12.70 m/min)
Linear positional accuracy*	$\pm 0.003"$ ( $\pm 0.076$ mm)
Repeatability*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Ballbar circularity*	$\pm 0.005"$ ( $\pm 0.127$ mm)





**OMAX®**  
A Hypertherm Associates Brand

# MAXIEM 2040

## JetMachining Center



Fast, smooth, and accurate, the MAXIEM® JetMachining Center® is ideal for the ambitious shop where new challenges are a permanent driving force. The MAXIEM waterjet system was developed, tested, and built in keeping with the OMAX philosophy to deliver superior performance, expanded versatility, and high productivity at an affordable price. Your MAXIEM can become even more individual thanks to a diverse selection of options, yet remains easy to use for any level of operator. However you customize your MAXIEM, remember that there are no limits to its potential.

### Direct drive pump innovation

The advanced direct drive pump paired with the MAXIEM JetMachining Center delivers the most horsepower to the nozzle. With 1000 hours between maintenance cycles, OMAX direct drive pumps are the best choice for reliable and robust ultra high pressure waterjet cutting.

### A system designed for your needs

Whether you need a small machine for rapid prototyping, or a large system capable of working with standard sheet and plate sizes for full-scale production, the MAXIEM JetMachining Center is customizable to fit your needs. Regardless of system size, every MAXIEM machine brings the same great performance and high reliability, maximizing your potential.

### Innovative IntelliTRAX drive system

The ultimate in durable high-precision motion control, the OMAX IntelliTRAX® drive system used on the MAXIEM JetMachining Center incorporates a magnetic linear encoder and an electronic drive control for precise positioning. With a location resolution of one micron, the IntelliTRAX system provides extremely accurate positioning with an innovative feedback/feed-forward control loop. All combined makes IntelliTRAX the ideal motion control system for abrasive waterjets.

### Specifications

Machine dimensions	
Footprint (with controller)	21' 9" x 12' 11" (6.63 m x 3.94 m)
Weight (tank empty)	8,500 lbs (3,856 kg)
Height	8' 10" (2.69 m)
Operating weight	28,283 lbs (12,829 kg)

Work envelope	
X-Y cutting travel*	13' 10" x 6' 7" (4.21 m x 2.00 m)
Z-Axis travel (with motorized Z-Axis)*	12" (304 mm)
Table size	16' 1" x 7' 0" (4.90 m x 2.13 m)

Standard model specifications	
Material support slats	4" x 14 gauge (102 mm x 2 mm) galvanized steel
Maximum supported material load	300 lbs/sq ft (1,465 kg/sq meter)
Electrical requirements	3-Phase, 380-480 VAC $\pm 10\%$ , 50-60 Hz
Noise level	Below 80 dBA at one meter for submerged cutting
Speed	500 in/min (12.70 m/min)
Linear positional accuracy*	$\pm 0.003"$ ( $\pm 0.076$ mm)
Repeatability*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Ballbar circularity*	$\pm 0.005"$ ( $\pm 0.127$ mm)

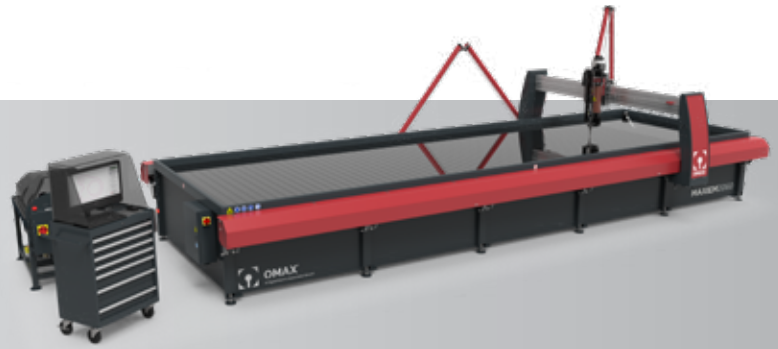


**OMAX®**

A Hypertherm Associates Brand

# MAXIEM 2060

## JetMachining Center



Fast, smooth, and accurate, the MAXIEM® JetMachining Center® is ideal for the ambitious shop where new challenges are a permanent driving force. The MAXIEM waterjet system was developed, tested, and built in keeping with the OMAX philosophy to deliver superior performance, expanded versatility, and high productivity at an affordable price. Your MAXIEM can become even more individual thanks to a diverse selection of options, yet remains easy to use for any level of operator. However you customize your MAXIEM, remember that there are no limits to its potential.

### Direct drive pump innovation

The advanced direct drive pump paired with the MAXIEM JetMachining Center delivers the most horsepower to the nozzle. With 1000 hours between maintenance cycles, OMAX direct drive pumps are the best choice for reliable and robust ultra high pressure waterjet cutting.

### A system designed for your needs

Whether you need a small machine for rapid prototyping, or a large system capable of working with standard sheet and plate sizes for full-scale production, the MAXIEM JetMachining Center is customizable to fit your needs. Regardless of system size, every MAXIEM machine brings the same great performance and high reliability, maximizing your potential.

### Innovative IntelliTRAX drive system

The ultimate in durable high-precision motion control, the OMAX IntelliTRAX® drive system used on the MAXIEM JetMachining Center incorporates a magnetic linear encoder and an electronic drive control for precise positioning. With a location resolution of one micron, the IntelliTRAX system provides extremely accurate positioning with an innovative feedback/feed-forward control loop. All combined makes IntelliTRAX the ideal motion control system for abrasive waterjets.

### Specifications

Machine dimensions	
Footprint (with controller)	28' 9" x 12' 11" (8.76 m x 3.94 m)
Weight (tank empty)	10,500 lbs (4,763 kg)
Height	8' 10" (2.69 m)
Operating weight	39,553 lbs (17,941 kg)

Work envelope	
X-Y cutting travel*	20' 6" x 6' 7" (6.24 m x 2.00 m)
Z-Axis travel (with motorized Z-Axis)*	12" (304 mm)
Table size	22' 9" x 7' 0" (6.93 m x 2.13 m)

Standard model specifications	
Material support slats	4" x 14 gauge (102 mm x 2 mm) galvanized steel
Maximum supported material load	300 lbs/sq ft (1,465 kg/sq meter)
Electrical requirements	3-Phase, 380-480 VAC $\pm 10\%$ , 50-60 Hz
Noise level	Below 80 dBA at one meter for submerged cutting
Speed	500 in/min (12.70 m/min)
Linear positional accuracy*	$\pm 0.003"$ ( $\pm 0.076$ mm)
Repeatability*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Ballbar circularity*	$\pm 0.005"$ ( $\pm 0.127$ mm)





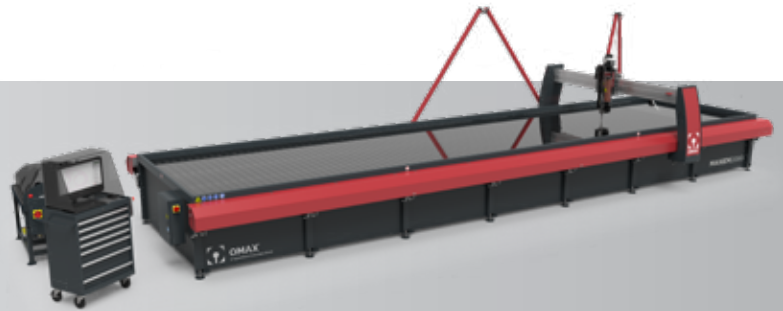


**OMAX®**

A Hypertherm Associates Brand

# MAXIEM 2080

## JetMachining Center



Fast, smooth, and accurate, the MAXIEM® JetMachining Center® is ideal for the ambitious shop where new challenges are a permanent driving force. The MAXIEM waterjet system was developed, tested, and built in keeping with the OMAX philosophy to deliver superior performance, expanded versatility, and high productivity at an affordable price. Your MAXIEM can become even more individual thanks to a diverse selection of options, yet remains easy to use for any level of operator. However you customize your MAXIEM, remember that there are no limits to its potential.

### Direct drive pump innovation

The advanced direct drive pump paired with the MAXIEM JetMachining Center delivers the most horsepower to the nozzle. With 1000 hours between maintenance cycles, OMAX direct drive pumps are the best choice for reliable and robust ultra high pressure waterjet cutting.

### A system designed for your needs

Whether you need a small machine for rapid prototyping, or a large system capable of working with standard sheet and plate sizes for full-scale production, the MAXIEM JetMachining Center is customizable to fit your needs. Regardless of system size, every MAXIEM machine brings the same great performance and high reliability, maximizing your potential.

### Innovative IntelliTRAX drive system

The ultimate in durable high-precision motion control, the OMAX IntelliTRAX® drive system used on the MAXIEM JetMachining Center incorporates a magnetic linear encoder and an electronic drive control for precise positioning. With a location resolution of one micron, the IntelliTRAX system provides extremely accurate positioning with an innovative feedback/feed-forward control loop. All combined makes IntelliTRAX the ideal motion control system for abrasive waterjets.

### Specifications

Machine dimensions	
Footprint (with controller)	35' 1" x 12' 11" (10.69 m x 3.94 m)
Weight (tank empty)	12,800 lbs (5,806 kg)
Height	10' 4" (3.15 m)
Operating weight	50,123 lbs (22,735 kg)

Work envelope	
X-Y cutting travel*	27' 2" x 6' 7" (8.28 m x 2.00 m)
Z-Axis travel (with motorized Z-Axis)*	12" (304 mm)
Table size	27' 10" x 7' 0" (8.48 m x 2.13 m)

Standard model specifications	
Material support slats	4" x 14 gauge (102 mm x 2 mm) galvanized steel
Maximum supported material load	300 lbs/sq ft (1,465 kg/sq meter)
Electrical requirements	3-Phase, 380-480 VAC $\pm 10\%$ , 50-60 Hz
Noise level	Below 80 dBA at one meter for submerged cutting
Speed	500 in/min (12.70 m/min)
Linear positional accuracy*	$\pm 0.003"$ ( $\pm 0.076$ mm)
Repeatability*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Ballbar circularity*	$\pm 0.005"$ ( $\pm 0.127$ mm)

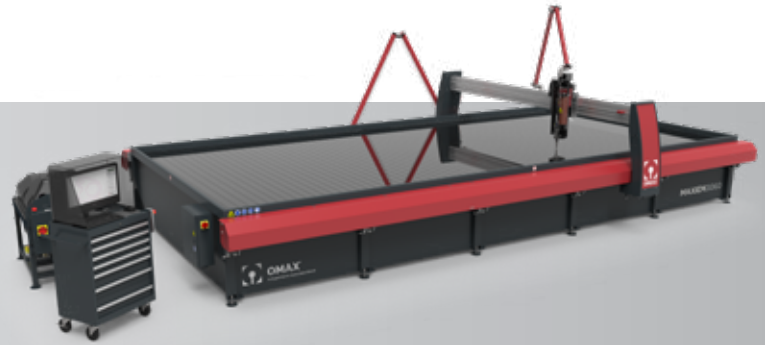


**OMAX®**

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# MAXIEM 3060

## JetMachining Center



Fast, smooth, and accurate, the MAXIEM® JetMachining Center® is ideal for the ambitious shop where new challenges are a permanent driving force. The MAXIEM waterjet system was developed, tested, and built in keeping with the OMAX philosophy to deliver superior performance, expanded versatility, and high productivity at an affordable price. Your MAXIEM can become even more individual thanks to a diverse selection of options, yet remains easy to use for any level of operator. However you customize your MAXIEM, remember that there are no limits to its potential.

### Direct drive pump innovation

The advanced direct drive pump paired with the MAXIEM JetMachining Center delivers the most horsepower to the nozzle. With 1000 hours between maintenance cycles, OMAX direct drive pumps are the best choice for reliable and robust ultra high pressure waterjet cutting.

### A system designed for your needs

Whether you need a small machine for rapid prototyping, or a large system capable of working with standard sheet and plate sizes for full-scale production, the MAXIEM JetMachining Center is customizable to fit your needs. Regardless of system size, every MAXIEM machine brings the same great performance and high reliability, maximizing your potential.

### Innovative IntelliTRAX drive system

The ultimate in durable high-precision motion control, the OMAX IntelliTRAX® drive system used on the MAXIEM JetMachining Center incorporates a magnetic linear encoder and an electronic drive control for precise positioning. With a location resolution of one micron, the IntelliTRAX system provides extremely accurate positioning with an innovative feedback/feed-forward control loop. All combined makes IntelliTRAX the ideal motion control system for abrasive waterjets.

### Specifications

Machine dimensions	
Footprint (with controller)	28' 6" x 16' 6" (8.69 m x 5.03 m)
Weight (tank empty)	26,000 lbs (11,793 kg)
Height	8' 10" (2.69 m)
Operating weight	70,105 lbs (31,799 kg)

Work envelope	
X-Y cutting travel*	20' 6" x 10' 2" (6.24 m x 3.09 m)
Z-Axis travel (with motorized Z-Axis)*	12" (304 mm)
Table size	22' 9" x 10' 8" (6.93 m x 3.25 m)

Standard model specifications	
Material support slats	4" x 14 gauge (102 mm x 2 mm) galvanized steel
Maximum supported material load	300 lbs/sq ft (1,465 kg/sq meter)
Electrical requirements	3-Phase, 380-480 VAC $\pm 10\%$ , 50-60 Hz
Noise level	Below 80 dBA at one meter for submerged cutting
Speed	500 in/min (12.70 m/min)
Linear positional accuracy*	$\pm 0.003"$ ( $\pm 0.076$ mm)
Repeatability*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Ballbar circularity*	$\pm 0.005"$ ( $\pm 0.127$ mm)





### Available accessories

- VersaJET® for bevel cutting up to 60° and advanced taper removal for perfectly square part edges
- Terrain Follower automatically adjusts to accommodate uneven part surfaces. Collision sensing capability is available with Programmable Z cutting heads.
- Rapid water level control for clean and quiet submerged cutting
- Variable Speed Solids Removal System (VS-SRS) for automated solids removal from the catcher tank
- Bulk abrasive delivery hoppers to minimize production downtime

Optional accessories may reduce cutting travel. Photos may show optional accessories. For a complete list of accessories, contact an OMAX sales representative.



For more information, visit: [www.omas.com](http://www.omas.com)

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Please visit [www.omas.com/patents](http://www.omas.com/patents) for more details about Hypertherm Associates patent numbers and types.

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MKT129



**HYPERTHERM  
ASSOCIATES™**

### IntelliMAX Software Suite

For over 20 years, OMAX has invested extensive research and development to provide the most advanced abrasive waterjet software possible. Through software enhancements, your MAXIEM 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; 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 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.

### 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.

As 100% Associate owners, we are all focused on delivering a superior customer experience.  
[www.hyperthermassociates.com/ownership](http://www.hyperthermassociates.com/ownership)

Environmental stewardship is one of Hypertherm Associates' core values. [www.hyperthermassociates.com/environment](http://www.hyperthermassociates.com/environment)

100% Associate-owned

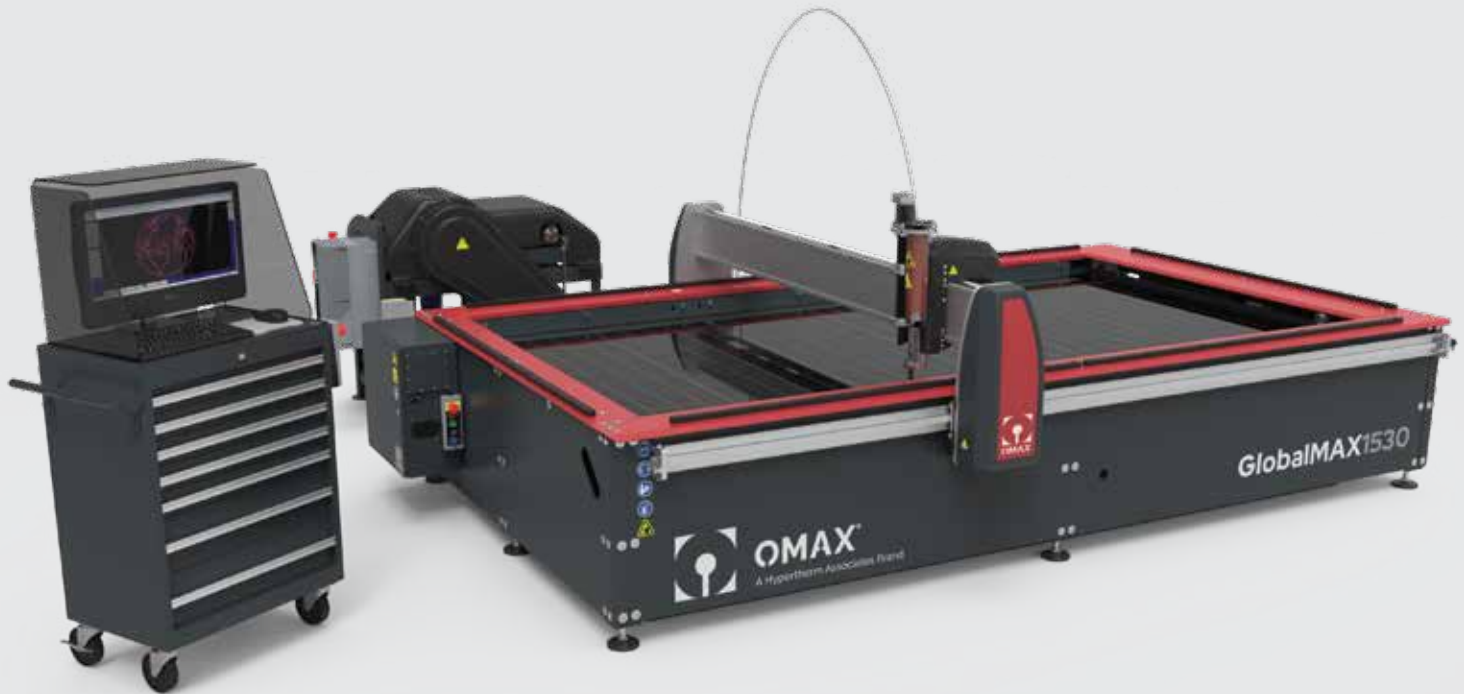






**OMAX®**  
A Hypertherm Associates Brand

# GlobalMAX JetMachining centers



## High performance abrasive waterjet cutting

The OMAX GlobalMAX® is ideal for the facility looking to add basic waterjet cutting capabilities to their production. The robust and straightforward GlobalMAX design delivers:

- Dependable performance based on decades of OMAX abrasive waterjet expertise
- Easy serviceability through product design that maximizes system access
- Maximum uptime with robust and long-lasting system components
- Easy-to-use IntelliMAX® Software Suite simplifies operation while maximizing production

## A system designed for your needs

Whether you need a small-sized machine for rapid prototyping, or a large system capable of working with standard sheet and plate sizes for full-scale production, the GlobalMAX line offers options for both. Regardless of system size, every GlobalMAX machine brings the same great performance and high reliability, maximizing your potential.

## GlobalMAX model specifications

Family Specs	
X-Y Speed	500 ipm
Linear axis accuracy	0.003"
Linear axis repeatability	0.001"
Ballbar circularity	0.007"



## GlobalMAX machine specifications

	GlobalMAX 1508	GlobalMAX 1530	GlobalMAX 2040
Standard Layout Footprint	5' 3" x 11' 8"	12' 8" x 11' 7"	15' 11" x 13' 5"
Weight (tank empty)	3,280 lb	4,824 lb	5,887 lb
Height	7' 2"	9' 0"	9' 3"
Operating Weight	5,400 lb	5,485 kg12,093 lb	18,421 lb
X-Y Cutting travel	2' 7" x 5' 0"	10' 0" x 5' 0"	13' 3" x 6' 8"
Z-Axis travel	5"	5"	5"
Table size	2' 10" x 5' 5"	10' 2" x 5' 5"	13' 7" x 7' 2"



## Available accessories\*

- Terrain follower
- Pneumatic drill
- Laser feature finder
- Air and water spray down kit
- Bulk feed hopper

\*Optional accessories may reduce travel. Photos may show optional accessories. For a complete list of available accessories, contact an OMAX sales representative. Contact OMAX for detailed utility requirements.

## 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 GlobalMAX JetMachining Center is capable of advanced 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

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.

## GlobalMAX direct drive pumps

Our direct drive pumps efficiently deliver horsepower (cutting power) to the machine nozzle. Designed to operate 500 hours between maintenance cycles, the GlobalMAX pump provides dependable performance. Pumps are available in 10, 20 and 30 horsepower.

## GlobalMAX direct drive pump specifications

	GlobalMAX 10	GlobalMAX 20	GlobalMAX 30
Pressure	30,000 psi	45,000 psi	45,000 psi
Motor power	10 hp	20 hp	30 hp
Jet power*	7 hp	17 hp	25.5 hp
Orifice & flow rate	0.011"/0.40 gpm	0.012"/0.62 gpm	0.015"/0.96 gpm

\*Jet power is directly proportional to the water pressure at the nozzle times the volume flow rate of the waterjet stream.



## 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.



**OMAX®**

A Hypertherm Associates Brand

# GlobalMAX 1508

## JetMachining Center



Essential, easy to use and powerful, GlobalMAX® is ideal for the facility looking to add basic waterjet cutting capabilities. The robust and straightforward design delivers dependable performance and easy serviceability to provide maximum uptime. The GlobalMAX JetMachining Center® was developed, tested, and built in keeping with the OMAX philosophy of performance, reliability, and ease of use. The GlobalMAX product line is manufactured and assembled at the OMAX facility in Kent, Washington.

### GlobalMAX direct drive pump innovation

Our direct drive pumps efficiently deliver horsepower (cutting power) to the machine nozzle. Designed to operate 500 hours between maintenance cycles, the GlobalMAX pump provides dependable performance. GlobalMAX pumps are available in 10, 20 and 30 horsepower configurations.

### Innovative Omega Drive System

The innovative Omega Drive system provides smoother transition from rotary motion to linear motion compared to traditional rack and pinion drive systems. The Omega Drive tooth engagement minimizes backlash and improves reliability and requires no lubrication which can attract and retain garnet. The lubricant-free zero maintenance Omega Drive system features closed loop, brushless servo motors and anodized drive system components for long life.

### Available accessories

- Terrain Follower automatically adjusts to accommodate uneven part surfaces.
- Pneumatic drill
- Laser Feature Finder
- Bulk Abrasive Feed Hopper
- Air & Water Spray Down Kit

### Specifications

Machine dimensions	
Footprint (standard layout)	11' 8" x 5' 3" (3.56 m x 1.60 m)
Weight (tank empty)	3,280 lbs (1,488 kg)
Height	7' 2" (2.18 m)
Operating weight	5,400 lbs (2,449 kg)

Work envelope	
X-Y cutting travel*	2' 7" x 5' 0" (0.78 m x 1.52 m)
Z-Axis travel (with motorized Z-Axis)*	5" (127 mm)
Table size	2' 10" x 5' 5" (0.86 m x 1.65 m)

Standard model specifications	
Material support slats	2.5" x 9 gauge (63.5 mm x 3.7 mm) galvanized steel
Maximum supported material load	100 lbs/sq ft (488 kg/sq meter)
Electrical requirements	3-Phase, 380-480 VAC $\pm 10\%$ , 50-60 Hz
Speed	500 in/min (12.70 m/min)
Linear axis accuracy*	$\pm 0.003"$ ( $\pm 0.076$ mm)
Linear axis repeatability*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Ballbar circularity*	$\pm 0.007"$ ( $\pm 0.127$ mm)

\*Optional accessories may reduce cutting travel.

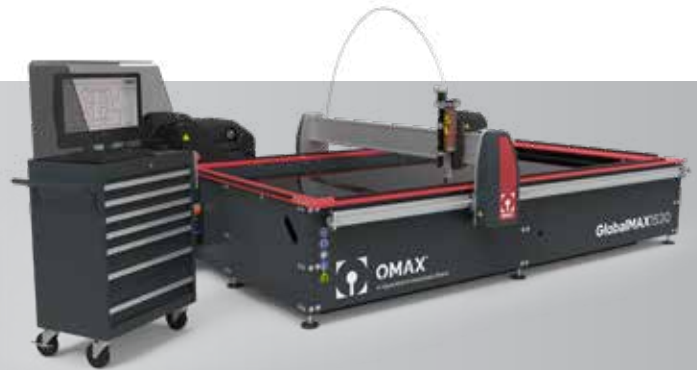


**OMAX®**

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# GlobalMAX 1530

## JetMachining Center



Essential, easy to use and powerful, GlobalMAX® is ideal for the facility looking to add basic waterjet cutting capabilities. The robust and straightforward design delivers dependable performance and easy serviceability to provide maximum uptime. The GlobalMAX JetMachining Center® was developed, tested, and built in keeping with the OMAX philosophy of performance, reliability, and ease of use. The GlobalMAX product line is manufactured and assembled at the OMAX facility in Kent, Washington.

### GlobalMAX direct drive pump innovation

Our direct drive pumps efficiently deliver horsepower (cutting power) to the machine nozzle. Designed to operate 500 hours between maintenance cycles, the GlobalMAX pump provides dependable performance. GlobalMAX pumps are available in 10, 20 and 30 horsepower configurations.

### Innovative Omega Drive System

The innovative Omega Drive system provides smoother transition from rotary motion to linear motion compared to traditional rack and pinion drive systems. The Omega Drive tooth engagement minimizes backlash and improves reliability and requires no lubrication which can attract and retain garnet. The lubricant-free zero maintenance Omega Drive system features closed loop, brushless servo motors and anodized drive system components for long life.

### Available accessories

- Terrain Follower automatically adjusts to accommodate uneven part surfaces.
- Pneumatic drill
- Laser Feature Finder
- Bulk Abrasive Feed Hopper
- Air & Water Spray Down Kit

### Specifications

Machine dimensions	
Footprint (standard layout)	12' 8" x 11' 7" (3.86 m x 3.53 m)
Weight (tank empty)	4,824 lbs (2,188 kg)
Height	9' 0" (2.74 m)
Operating weight	12,093 lbs (5,485 kg)

Work envelope	
X-Y cutting travel*	10' 0" x 5' 0" (3.04 m x 1.52 m)
Z-Axis travel (with motorized Z-Axis)*	5" (127 mm)
Table size	10' 2" x 5' 5" (3.10 m x 1.65 m)

Standard model specifications	
Material support slats	2.5" x 9 gauge (63.5 mm x 3.7 mm) galvanized steel
Maximum supported material load	100 lbs/sq ft (488 kg/sq meter)
Electrical requirements	3-Phase, 380-480 VAC $\pm 10\%$ , 50-60 Hz
Speed	500 in/min (12.70 m/min)
Linear axis accuracy*	$\pm 0.003"$ ( $\pm 0.076$ mm)
Linear axis repeatability*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Ballbar circularity*	$\pm 0.007"$ ( $\pm 0.127$ mm)

\*Optional accessories may reduce cutting travel.

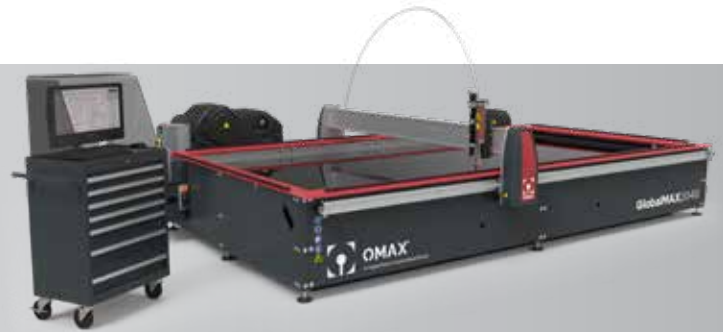


**OMAX®**

A Hypertherm Associates Brand

# GlobalMAX 2040

## JetMachining Center



Essential, easy to use and powerful, GlobalMAX® is ideal for the facility looking to add basic waterjet cutting capabilities. The robust and straightforward design delivers dependable performance and easy serviceability to provide maximum uptime. The GlobalMAX JetMachining Center® was developed, tested, and built in keeping with the OMAX philosophy of performance, reliability, and ease of use. The GlobalMAX product line is manufactured and assembled at the OMAX facility in Kent, Washington.

### GlobalMAX direct drive pump innovation

Our direct drive pumps efficiently deliver horsepower (cutting power) to the machine nozzle. Designed to operate 500 hours between maintenance cycles, the GlobalMAX pump provides dependable performance. GlobalMAX pumps are available in 10, 20 and 30 horsepower configurations.

### Innovative Omega Drive System

The innovative Omega Drive system provides smoother transition from rotary motion to linear motion compared to traditional rack and pinion drive systems. The Omega Drive tooth engagement minimizes backlash and improves reliability and requires no lubrication which can attract and retain garnet. The lubricant-free zero maintenance Omega Drive system features closed loop, brushless servo motors and anodized drive system components for long life.

### Available accessories

- Terrain Follower automatically adjusts to accommodate uneven part surfaces.
- Pneumatic drill
- Laser Feature Finder
- Bulk Abrasive Feed Hopper
- Air & Water Spray Down Kit

### Specifications

Machine dimensions	
Footprint (standard layout)	15' 11" x 13' 5" (4.85 m x 4.09 m)
Weight (tank empty)	5,887 lbs (2,670 kg)
Height	9' 3" (2.82 m)
Operating weight	18,421 lbs (8,356 kg)

Work envelope	
X-Y cutting travel*	13' 3" x 6' 8" (4.03 m x 2.03 m)
Z-Axis travel (with motorized Z-Axis)*	5" (127 mm)
Table size	13' 7" x 7' 2" (4.14 m x 2.18 m)

Standard model specifications	
Material support slats	2.5" x 9 gauge (63.5 mm x 3.7 mm) galvanized steel
Maximum supported material load	100 lbs/sq ft (488 kg/sq meter)
Electrical requirements	3-Phase, 380-480 VAC $\pm 10\%$ , 50-60 Hz
Speed	500 in/min (12.70 m/min)
Linear axis accuracy*	$\pm 0.003"$ ( $\pm 0.076$ mm)
Linear axis repeatability*	$\pm 0.001"$ ( $\pm 0.025$ mm)
Ballbar circularity*	$\pm 0.007"$ ( $\pm 0.127$ mm)

\*Optional accessories may reduce cutting travel.





## IntelliMAX Software Advantage

The IntelliMAX® Software Suite includes LAYOUT, a full-featured CAD design program and MAKE, the highly powerful machine controller software.

- 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.

## Designed for your needs

Whether you need a small-sized machine for rapid prototyping, or a large system capable of working with standard sheet and plate sizes for full-scale production, the GlobalMAX line offers options for both. Regardless of system size, every GlobalMAX machine brings the same great performance and high reliability, maximizing your potential.



## 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.

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# ProtoMAX



## True Waterjet Performance in a Compact Package

Designed and built alongside the revolutionary OMAX waterjets, The ProtoMAX is a compact, self-contained cutting system ideally suited for prototyping and low-volume cutting of almost any material approximately 1" thick. Bringing all the versatility benefits of large abrasive waterjet cutters together in a sleek and economic package, this machine is ideal for prototyping or as a complement to a larger machine shop.

ProtoMAX model specifications

Machine dimensions	
Footprint	41.5 in x 39.5 in
Weight (tank empty)	550 lb
Height (lid closed)	56.5 in
Height (lid open)	73.0 in
Operating weight (with water in tank)	750 lb
Standard model specifications	
Maximum supported material load	50 lbs/sq ft
Electrical requirements	
Speed	100 ipm
Linear positional accuracy	0.005"
Repeatability	0.003"
Work envelope	
X-Y cutting travel	12.0 in x 12.0 in
Z-axis travel	1.0 in
Table size	14.5 in x 15.25 in
Pump description	
Pump horsepower	5 hp
Output pressure	30000 psi
Orifice and flow rate¹	0.008 in / 0.25 gpm





## ProtoMAX package options

### ProtoMAX Standard System

The Standard System includes the ProtoMAX abrasive waterjet system, complete with the table, pump, laptop with pre-installed software, and everything needed to start abrasive waterjet cutting after initial installation. The ProtoMAX Standard System includes:

- ProtoMAX abrasive waterjet cutting table
- Nozzle Assembly (nozzle body, mixing tube, filter, & jewel orifice)
- Unlimited Seats of Software
- ProtoMAX Garnet Abrasive (55lb bucket)
- Shipping to Continental US (Not including Alaska & Hawaii)<sup>2</sup>
- ProtoMAX 30,000 psi 5 HP Direct Drive Pump
- Laptop with IntelliMAX Proto Software Pre-Installed
- Free Software Upgrades For Life
- One Year Warranty



### Upgrade Package

The Upgrade Package adds additional consumables, along with a powered Drain Water Filter Tank that helps filter excess material and garnet from the tank water. Also included is the Water Spray Kit, which helps keep the cutting area interior clean. The Upgrade Package includes:

- ProtoMAX Standard System
- System Spare Parts Kit (tank slats, mixing tubes, nozzle filters, and jewel orifices)
- Drain Water Filter Tank (DWFT)<sup>3</sup>
- Water Spray Kit (spray nozzle and hose)

### Power Package

Expand your ProtoMAX with Upgrade Package by adding the Power Package. The Power Package adds to the Upgrade Package by having six extra buckets of garnet at a bundled price to keep you cutting for hours on end. The Power Package includes:

- ProtoMAX Standard System
- Upgrade Package
- ProtoMAX Garnet Abrasive (six 55lb buckets)

<sup>1</sup> Recommended maximum orifice size. Smaller orifice sizes have a corresponding lower flow rate.

<sup>2</sup> For Alaska, Hawaii, and international shipments, contact [info@protomax.com](mailto:info@protomax.com).

<sup>3</sup> The Drain Water Filter Tank (DWFT) requires a separate 120VAC power source.



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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.



**OMAX**<sup>®</sup>

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# Direct drive technology



## Maximum efficiency with minimum downtime

OMAX Corporation's advanced direct drive technology delivers the most nozzle horsepower, or Jet Power, of any waterjet pump. This translates to more production and less downtime.

OMAX direct drive pumps provide:

- Faster and smoother cutting due to reduced pressure ripples
- Maximized operating cycles thanks to advanced hardened materials
- Simplified maintenance thanks to service-friendly design
- Reduced user involvement through automation and advanced pump monitoring

All this combined makes OMAX direct drive pumps the most efficient and cost-effective waterjet pump technology in the world.

## EnduroMAX technology

System uptime is a critical requirement for waterjet operators. EnduroMAX® technology:

- Extends pump life
- Reduces maintenance cycles
- Simplifies maintenance
- Reduces downtime



### Factory tested, field proven

All EnduroMAX direct drive pumps are extensively tested at the factory, first in a standalone testing rig and then connected to your machine for a final test. With thousands of machines installed and operating worldwide, our direct drive pump technology is the premier abrasive waterjet pump solution for maximum productivity.

## Pump specifications

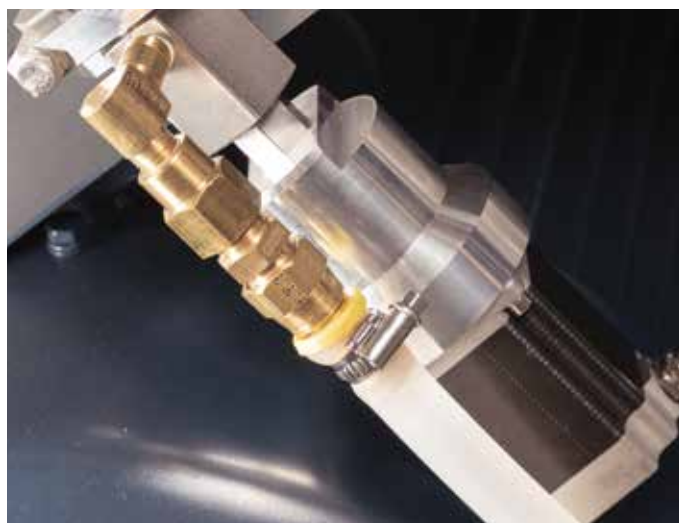
	EnduroMAX 5-series <sup>3</sup>			EnduroMAX <sup>4</sup>		
Motor power	30 hp	40 hp	50 hp	30 hp	40 hp	50 hp
Maximum jet power <sup>1</sup>	25.5 hp	4.0 hp	42.5 hp	25.5 hp	34.0 hp	42.5 hp
Output pressure	4138 bar (60,000 psi)			4138 bar (60,000 psi)		
Orifice and flow rate <sup>2</sup>	0.012"/0.67 gpm	0.014"/0.92 gpm	0.016"/1.20 gpm	0.012"/0.67 gpm	0.014"/0.92 gpm	0.016"/1.20 gpm

<sup>1</sup> Jet Power is directly proportional to the water pressure at the nozzle times the volume flow rate of the waterjet stream.

<sup>2</sup> Recommended maximum orifice size. Smaller orifice sizes have a corresponding lower flow rate.

<sup>3</sup> EnduroMAX 5-Series pumps are only available on OptiMAX JetMachining Centers.

<sup>4</sup> EnduroMAX pumps are standard on all OMAX JetMachining Centers and optional on MAXIEM® systems. Specifications subject to change without notice.



### 5-Series: beyond direct drive

Developed alongside the OptiMAX® JetMachining Center, the EnduroMAX 5-Series takes all the benefits of the previous generation of EnduroMAX and dials them up. The motorized adjustable dump orifice and complete software control:

- Further reduces operator involvement
- Automatically adjusts pressure settings
- Reduces fluctuations
- Extends pump life
- Reduces operator dependency
- Maximizes production



Enhanced technology

Variable Frequency Drive technology:

- Maximizes production potential
- Provides substantial energy savings by altering motor speed based on demand
- Provides precise pressure control by operating throughout a wide range of motor RPMs
- Reduces wear and tear on motor and pump crankcase resulting in limited maintenance costs by varying the speed and torque of the electric motor
- Flexibility to adapt to specific needs and requirements



	MAXIEM			GlobalMAX		
100 hp	20 hp	0 hp	40 hp	10 hp	20 hp	30 hp
85 hp	17 hp	25.5 hp	34 hp	7 hp	17 hp	25.5 hp
	3447 bar (50,000 psi)			2069 bar (30,000 psi)	3103 bar (45,000 psi)	
0.022"/2.25 gpm	0.011"/0.52 gpm	0.014"/0.84 gpm	0.015"/0.96 gpm	0.011"/0.40 gpm	0.012"/0.62 gpm	0.015"/0.96 gpm



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# EnduroMAX Pump



The 4th Generation OMAX EnduroMAX® Pump is the industry leader in high efficiency reliable direct drive pump technology. Designed for long life, the EnduroMAX Pump is capable of over 1,000 hours between pump rebuilds, maximizing machine uptime. The simple yet robust design is specifically engineered to simplify maintenance through innovative features such as independent cylinders. The operator can rebuild each cylinder as needed, further shortening the maintenance cycle. The EnduroMAX Pump is standard on all new OMAX JetMachining® Centers and is retrofittable to earlier OMAX abrasive waterjet machines.

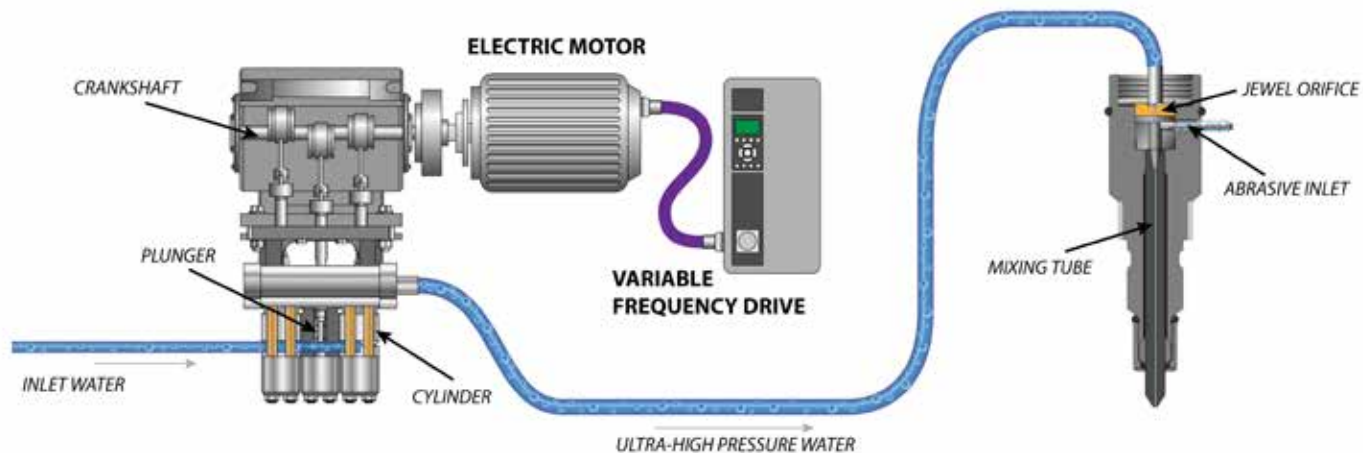
## Enhanced VFD Technology

By incorporating Variable Frequency Drive technology, the EnduroMAX pump can maximize production potential and achieve substantial energy savings by altering the speed of the motor based on demand. With the VFD, the EnduroMAX pump can operate throughout a wide range of motor RPMs, resulting in precise pressure control. Varying the speed and torque of the electric motor also means there is less wear and tear on the motor itself, as well as the pump crankcase, reducing maintenance overhead. Whether adjusting for low pressure piercing of delicate materials or dialing in pump pressure for maintenance longevity, the EnduroMAX pump with VFD technology provides the user the flexibility to adapt to their specific needs and requirements.

## Features & benefits

- Simplified, robust pump design
- Independent cylinders for ease of maintenance
- Highly reliable design capable of over 1000 hours between maintenance
- Variable Frequency Drive reduces startup power consumption and maximizes operating flexibility
- Continuous 60,000 psi operation for faster part processing
- Available in 30 hp, 40 hp, and 50 hp models
- Increased productivity with operating efficiencies up to 85%
- Solid wood lid provides access to the pump and doubles as a workbench
- 4th Generation direct drive pump technology lowers operating costs and increases pump operating life
- Continuously adjustable VFD technology significantly expands pump capabilities by controlling output flow rate and pressure
- Lower overall energy costs compared to inefficient intensifier pump designs
- EnduroMAX pump technology delivers the highest JetPower in the industry for faster and more efficient cutting
- Environmentally “green” system with quiet and clean operation and low electrical consumption
- Maximizes production with maintenance intervals more than double the industry standard





	Motor Power	Maximum Jet Power <sup>1</sup>	Output Pressure	Orifice and Flow Rate <sup>2</sup>	Dimensions
<b>3060V</b>	30 HP (22 kW)	25.5 HP (18.7 kW)	60,000 psi (4,100 bar)	0.012" / 0.67 gpm (0.30mm / 2.54 lpm)	66" x 36" x 38.5" (1,676mm x 914mm x 978mm)
<b>4060V</b>	40 HP (30 kW)	34.0 HP (25.54 kW)		0.014" / 0.92 gpm (0.36mm / 3.48 lpm)	
<b>5060V</b>	50 HP (37 kW)	42.5 HP (31.5 kW)		0.016" / 1.20 gpm (0.41mm / 4.54 lpm)	

<sup>1</sup> JetPower is directly proportional to the water pressure at the nozzle times the volume flow rate of the waterjet stream.

<sup>2</sup> Recommended maximum orifice size. Smaller orifice sizes have a corresponding lower flow rate.



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

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# EnduroMAX 100HP Pump

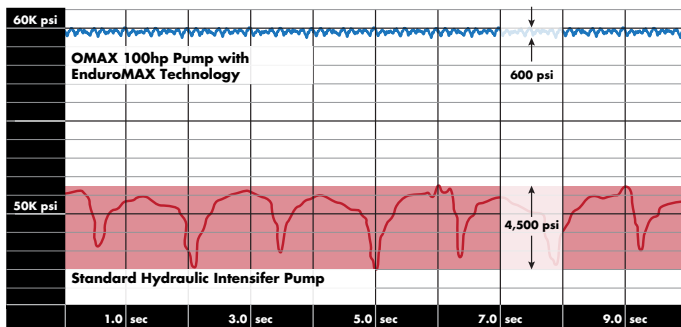


EnduroMAX pump technology is exceeding standards in abrasive waterjet cutting, with high JetPower and low operating cost. Our engineers still were not satisfied, though, so they pushed the limits once again. The result is the perfectly tuned 100HP Pump with EnduroMAX technology, a bold, new approach that delivers more power and a smoother jet than any other pump. Newly developed from proven technology, the OMAX 100HP Pump promises exceptional power that pushes the boundaries of what is possible.

## Superior power delivery

The laws of physics are fixed, we cannot change them. But we can use them. To provide more cutting power for less energy. This sounds like a paradox, but it is simple, if you challenge the norm. Intelligent EnduroMAX technology and engineering adapted the laws of physics to deliver the highest JetPower available. Delivering 30% more JetPower to the cutting head compared to the best intensifier pump designs, the EnduroMAX 100HP Pump cuts faster, smoother, and more efficiently than any other 100HP pump at any pressure. OMAX designed their direct drive technology to deliver the maximum cutting potential to the cutting head. More power to the cutting head means faster cutting and lower operating costs, resulting in exceptional productivity.

## Low ripple = low maintenance



Based on actual testing and published data.

## Features & benefits

- The industry's first reliable 60,000psi 100hp ultra-high pressure direct drive pump design
- Variable Frequency Drive eliminates in-rush current peaks and maximizes operating flexibility
- Maximizes production with the longest maintenance intervals in the industry
- EnduroMAX pump technology delivers the highest JetPower per installed electric horsepower for faster and more efficient cutting
- Continuous 60,000 psi operation for faster part processing
- Provides 30% more cutting power at the nozzle, comparable to today's 135hp intensifier design
- Synchronized cylinders provide smoothest jet flow
- 5th Generation direct drive pump technology enables the highest efficiency and reliability of any 100hp pump
- Independent cylinders for easy modular maintenance
- Twice the power for only a 5% increase in footprint
- Continuously adjustable VFD technology significantly expands capabilities by controlling output flow rate and pressure
- Lower overall energy costs compared to intensifier technology
- Uses significantly less water than leading intensifier pump designs with the same JetPower
- Environmentally "green" system with quiet and clean operation



	Motor power	Maximum JetPower <sup>1</sup>	Output pressure	Orifice & flow rate <sup>2</sup>	Dimensions
10060V	100 HP (74 kW)	85 HP (63 kW)	60,000 psi (4,100 bar)	0.022" / 2.25 gpm (0.56 mm / 8.52 Lpm)	44" x 62" x 44" (1,118 mm x 1,575 mm x 1,118 mm)

<sup>1</sup>JetPower is directly proportional to the water pressure at the nozzle times the volume flow rate of the waterjet stream.

<sup>2</sup>Recommended maximum orifice size. Smaller orifice sizes have a corresponding lower flow rate.



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# MAXIEM Direct Drive Pump



With thousands installed worldwide, the MAXIEM® Direct Drive Pump is proven to provide reliable performance in any work environment. Utilizing the same variable frequency drive technology as the market-leading OMAX EnduroMAX® pump, the MAXIEM Direct Drive Pump has the flexibility to vary the motor RPM to cover both low and high pressure operation. The pump's three cylinders are coordinated to provide a smooth high pressure output flow, without significant pressure fluctuations. The cutting power of any waterjet system is not motor horsepower or even pump pressure, but nozzle horsepower, or JetPower™. The MAXIEM Direct Drive Pump, due to its high efficiency, delivers some of the highest JetPower in the industry. The pump's simple design with a minimum footprint makes it easy to install and maintain, while its eco-friendly design provides quiet and clean operation.

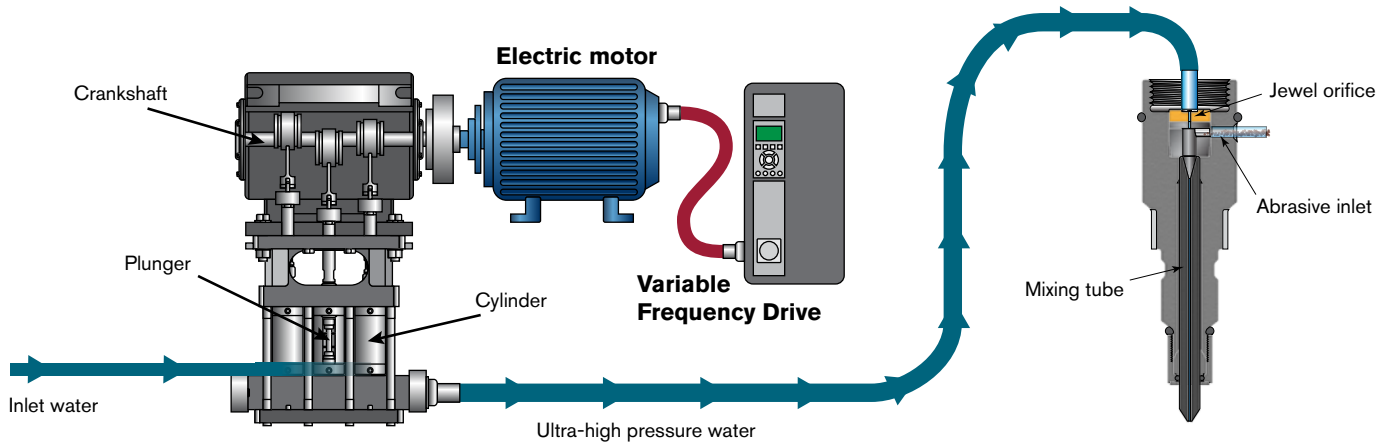
## Enhanced VFD technology

By incorporating Variable Frequency Drive technology, the MAXIEM pump can maximize production potential and achieve substantial energy savings by altering the speed of the motor based on demand. With the VFD, the MAXIEM pump can operate throughout a wide range of motor RPMs, resulting in precise pressure control. Varying the speed and torque of the electric motor also means there is less wear and tear on the motor itself, as well as the pump crankcase, reducing maintenance overhead. Whether adjusting for low pressure piercing of delicate materials or dialing in pump pressure for maintenance longevity, the MAXIEM pump with VFD technology provides the user the flexibility to adapt to their specific needs and requirements.

## Features & benefits

- Simple industry-proven and robust pump design
- Highly reliable design capable of over 500 cutting hours between maintenance cycles
- Variable Frequency Drive reduces startup power consumption and maximizes operating flexibility
- Continuous 50,000 psi operation for faster part processing
- One of the lowest pump operating noise levels in the industry
- Optional Water Recycling System for closed loop operation
- Optional Water Recycling System for closed loop operation
- Integrated charge pump with pressure tank
- Available in 20 hp, 30 hp, and 40 hp models
- Increased productivity with operating efficiencies up to 85%
- Advanced direct drive pump technology lowers operating costs and increases pump operating life
- Continuously adjustable VFD technology significantly expands pump capabilities by controlling output flow rate and pressure
- Lower overall energy costs compared to inefficient intensifier pump designs
- Simple design provides easy access to all major components
- Direct drive pump technology delivers the highest JetPower in the industry for faster and more efficient cutting
- Environmentally "green" system with quiet and clean operation and low electrical consumption
- Made in the USA alongside the MAXIEM JetMachining® Center for maximum compatibility





	Motor Power	Maximum Jet Power <sup>1</sup>	Output Pressure	Orifice & Flow Rate <sup>2</sup>	Dimensions
<b>M20</b>	20 HP (15 kW)	17 HP (12.5 kW)	50,000 psi (3,450 bar)	0.011" / 0.52 gpm (0.28mm / 1.97 lpm)	52.5" x 31" x 42" (1,334mm x 787mm x 1,067mm)
<b>M30</b>	30 HP (22 kW)	25.5 HP (19 kW)		0.014" / 0.84 gpm (0.36mm / 3.18 lpm)	
<b>M40</b>	40 HP (30 kW)	34 HP (25 kW)		0.016" / 1.09 gpm (0.41mm / 4.13 lpm)	

<sup>1</sup> JetPower is directly proportional to the water pressure at the nozzle times the volume flow rate of the waterjet stream.

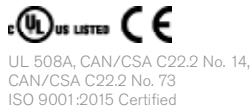
<sup>2</sup> Recommended maximum orifice size. Smaller orifice sizes have a corresponding lower flow rate.



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# DynaMAX Intensifier technology



## The right tool for the right job

By rethinking the way the intensifier pump works, we were able to make the DynaMAX® with Advanced Intensifier Technology (AIT) work harder and last longer. The DynaMAX delivers:

- Significantly reduced service time through streamlined access and simpler design
- Optimum cut quality and pump performance because of smooth, reliable shifting
- Maximized uptime due to intuitive software package
- Simplified maintenance thanks to service-friendly design
- Faster routine service and quicker evaluation due to innovative valve design

All this combined makes DynaMAX the most cost effective intensifier pump in the world.

## Small footprint, large performance

DynaMAX 3-series pumps:

- Eliminate soft static, high-pressure seals, increasing intensifier robustness
- Enable rapid replacement of common consumables by incorporating industry-leading cartridge seal design
- Provide consistent cut quality and optimum cutting speeds due to a closed-loop proportional pressure control system that adjusts for ambient pressure and temperature, oil viscosity and hydraulic system wear
- Offer reduced footprint design



## DynaMAX machine specifications

	DynaMAX 315	DynaMAX 330
Motor power	15 hp	30 hp
Maximum jet power <sup>1</sup>	0.3 hp	20.6 hp
Output pressure	60,000 psi	60,000 psi
Orifice and flow rate <sup>2</sup>	0.007"/0.3 gpm	0.011"/0.6 gpm

<sup>1</sup> JetPower is directly proportional to the water pressure at the nozzle times the volume flow rate of the waterjet stream.

<sup>2</sup> Recommended maximum orifice size. Smaller orifice sizes have a corresponding lower flow rate.

<sup>3</sup> DynaMAX 575P and DynaMAX 5100 are only available on OMAX JetMachining Centers. Not available on the OMAX 2626 JetMachining Center.

Specifications subject to change without notice.



## 5-Series predictive technology

DynaMAX 5-Series pumps are the first waterjet pumps to incorporate predictive maintenance capabilities that substantially reduce maintenance costs and disruption caused by non-planned service. Equipped with standard features such as our proven Advanced Intensifier Technology (AIT) and a closed-loop proportional pressure control system, DynaMAX pumps offer you even more consistent cut quality while ensuring trouble-free operation and reliability.





### Patented Seal Maintenance Technology

- Eliminates guess work, messy spills and unplanned downtime due to seal failure
- Boosts productivity
- Improves shop safety
- Monitors and maximizes effective seal usage
- Lowers operating costs
- Reduces downtime
- Assists in scheduled maintenance



DynaMAX 350	DynaMAX 575P <sup>3</sup>	DynaMAX 5100 <sup>3</sup>
50 hp	75 hp	75 kW (100 hp)
34.4 hp	51.6 hp	53.1 kW (72.2 hp)
60,000 psi	60,000 psi	60,000 psi
0.014"/1.0 gpm	0.017"/1.5 gpm	0.020"/2.1 gpm



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

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# Accessory quick reference guide



## Overview of the most frequently purchased accessories

Enhance your OMAX® abrasive waterjet system with innovative accessories made to optimize your productivity. Whether upgrading to a VersaJET® or Tiltajet® cutting head to best fit your application needs or adding water treatment to lengthen time between maintenance, with our extensive range of options you'll find the right addition to your waterjet to expand your capabilities and get more done.

OMAX offers a variety of accessories on all product lines, including Terrain Followers, Chillers, Drills and more. For a full list of accessories please visit [www.omax.com](http://www.omax.com).



### Tiltajet

The Tiltajet® enables the OptiMAX® and 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.



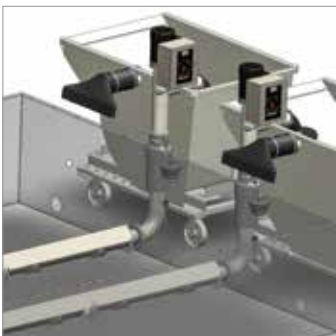
### Versajet / A-Jet

The Versajet® and A-Jet® are completely software-controlled multi-axis cutting heads that greatly expand the versatility of the OptiMAX, OMAX, and MAXIEM® JetMachining Centers. With a cutting range from 0° to 60°, the Versajet and A-Jet can easily cut beveled edges, angled sides, and countersinks. Advanced features in the IntelliMAX® Software Suite allow the Versajet and A-Jet to compensate for taper and create complex 3D shapes. With their extremely high positioning accuracy, these multi-axis cutting heads are capable of cutting parts that require no secondary processing which can significantly reduce production time. The Versajet, designed specifically for the OptiMAX, is also optimized for easier maintenance to maximize machine uptime.



### 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 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

This programmable variable speed system provides precise control 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 IntelliMAX Software Suite make it easy to program complex path geometries for the Rotary Axis. 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.

## 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 flows to the high pressure pump, while an ozone generator is used to reduce bacterial 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. The OMAX Vacuum Assist eliminates that delay, allowing for consistent, automatic piercing of composites, laminates, and other brittle materials. Designed to work on both the OMAX and MAXIEM product lines, 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 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 to 40° F. 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.







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# TiltaJET



The industry's premier precision abrasive cutting head, the TiltaJET® lets the OMAX JetMachining® Center achieve virtually zero taper with most materials. The TiltaJET positions the nozzle at a precise angle calculated by the industry-leading IntelliMAX® software to exactly offset the natural taper from the abrasivejet. Taper doesn't disappear. It is moved to the scrap part of the material, leaving your part with square, taper-free edges. The TiltaJET can be retrofitted to any OMAX machine, enabling precise taper-free machining for all JetMachining System owners. Once installed, there is no additional effort on your part, just press start and the TiltaJET does all the work automatically to produce taper-free high precision parts. Even squaring the Z-axis so it is exactly perpendicular to the slats is done in seconds with a single click in the IntelliMAX software. The TiltaJET is the ideal solution for your taper-free machining needs.

## The IntelliMAX advantage

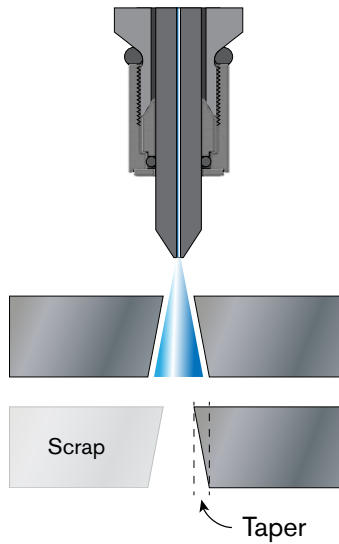
The TiltaJET takes full advantage of IntelliMAX enhancements to minimize cutting times while maximizing part quality. The innovative Tilt Forward feature adjusts the jet geometry to minimize jet lag and can result in faster cutting even in straight-line cutting. The IntelliCORNER optimization results in faster and more precise outside corners, as well as improved precision on inside corners. Rather than estimate an average taper along a path, the highly sophisticated IntelliTAPER® system examines the entire tool path and calculates at thousands of points per inch the exact amount of taper compensation needed at every position along the path. The IntelliMAX software can then fully utilize the motion range and flexibility of the TiltaJET to automatically cut taper-free parts quickly and precisely.

## Features & benefits

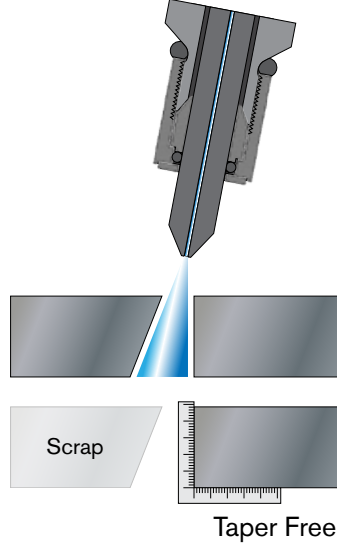
- Easily make interlocking pieces, dovetail fittings, and lead ins without taper to reduce secondary machining
- Tilting point positioned at material surface to reduce X-Y motion
- Easy to use, with no special programming required
- Continuously adjusts at thousands of points per inch along path
- Can be used on OMAX machines from the 2626 to the 160X
- Automatic re-squaring feature ensures nozzle is square to the table
- Ability to change angles quickly, further enhancing cutting speed
- Compatible with Precision Optical Locator and Rotary Axis
- Faster cutting of high precision taper free parts with no need to slow down to eliminate taper
- Servo-controlled programmable precision Z-axis with 6" of travel
- Faster cutting due to "tilt forward" capability
- Advanced servo design results in virtually zero backlash
- Programmable manual tilt up to  $\pm 9^\circ$  for the maximum tilt angle
- Automatic taper elimination without any programming



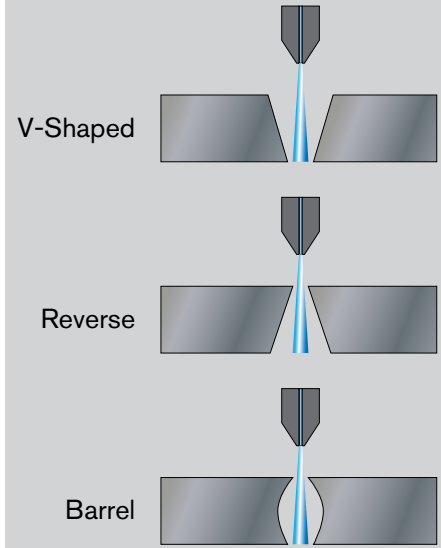
## Standard Cutting Head



## Tilt-A-Jet Cutting Head



## Types of Taper



### What is taper?

Taper is the inherent difference in the width of the cut from top to bottom found in all abrasive waterjets. There are several types of taper found in cutting. The V-shaped taper is the most common, where the top of the cut is wider than the bottom. Reverse taper is often found in soft materials, where the bottom is eroded more than the top. In very thick materials, barrel taper can occur where the middle is wider than both the top or the bottom. Many factors affect taper, including material type and thickness, abrasive size, distance of nozzle from the material, and the speed of cutting. Some materials can even exhibit multiple forms of taper in the same edge, such as simultaneous reverse and barrel taper.

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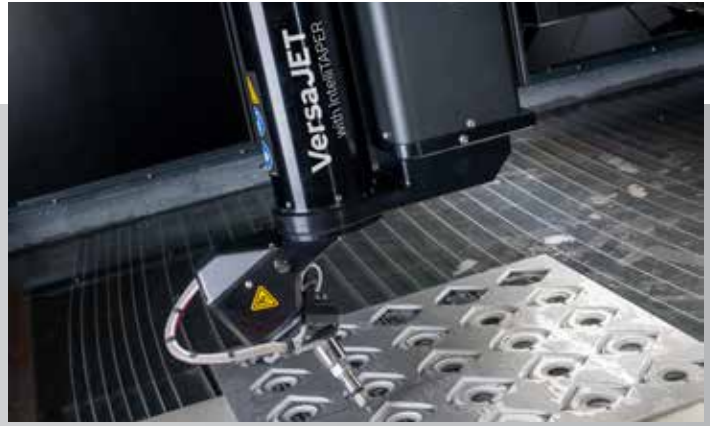


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# VersaJET

## Multi-Axis Cutting Head



The VersaJET® is a completely software-controlled 5-axis cutting head that greatly expands the versatility of your abrasive waterjet. The VersaJET has a cutting range of 0° to 60° for cutting beveled edges, angled sides, countersinks, and complex 3D shapes. The cutting head virtually eliminates taper on finished parts with automatic taper compensation. With its inherent high level of positioning accuracy, the VersaJET can cut parts that don't require secondary finishing, significantly reducing part production time.



The VersaJET helps eliminate tapers and makes cutting bevels simple.



Precise and complex three-dimensional parts become a reality.

### 3D Functionality

The continuous precision 5-axis movement of the VersaJET cutting head allows for detailed 3D shapes to be cut from a wide variety of materials.

### Features & benefits

- Features a fixed focal point design, where the XYZ axes do not need to move as the head tilts
- Supplied with a MAXJET® 5i Nozzle and OMAX High Angle Fusible Mixing Tube that protects precision mechanism
- Eliminates secondary machining and grinding for fabrication processes, ideal for common welding projects
- Easily creates countersinks and weld-ready edges
- Precision angular motion can create unique 3D parts
- Fully automatic taper compensation to minimize taper on finished parts

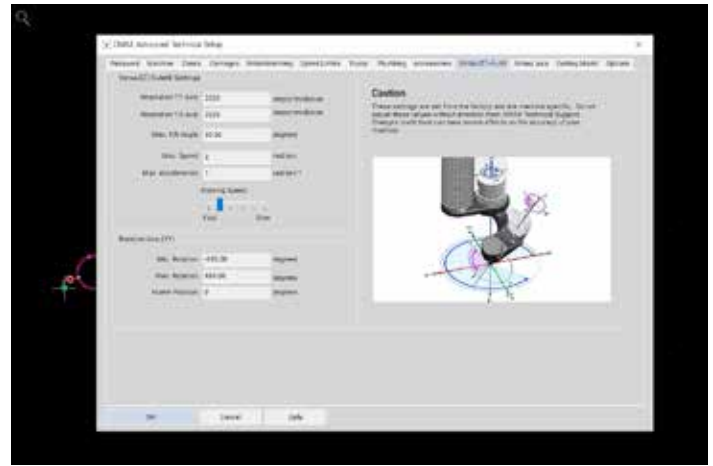


## Specifications

- Cutting angle ranges from 0° to 60°
- Z-axis travel: 6" (152mm), up to 8" (203mm) when using shorter table slats in the Catcher Tank

## Requirements

- OptiMAX or MAXIEM JetMachining Center
- IntelliMAX® Software Suite



The IntelliMAX software provides full control over the VersaJET in an easy-to-use interface.

## Options

- Terrain Follower automatically adjusts to accommodate warped flat plate
- Rotary Axis allows for complex and challenging 3D shapes to be cut, such as beveled pipe fittings

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# Collision Sensing Terrain Follower



The OMAX Collision Sensing Terrain Follower allows a JetMachining® Center to automatically and accurately cut parts from materials with irregular or warped surfaces without the need for special programming.

The Terrain Follower attaches directly to the machine's Z-axis. Changes in a material's height are detected and the Z-axis automatically makes the required height adjustments, maintaining the necessary cutting standoff (typically within  $\pm 0.020"$ ). A collision detector pauses jet motion if obstructions are in the path of the nozzle.



## Features & benefits

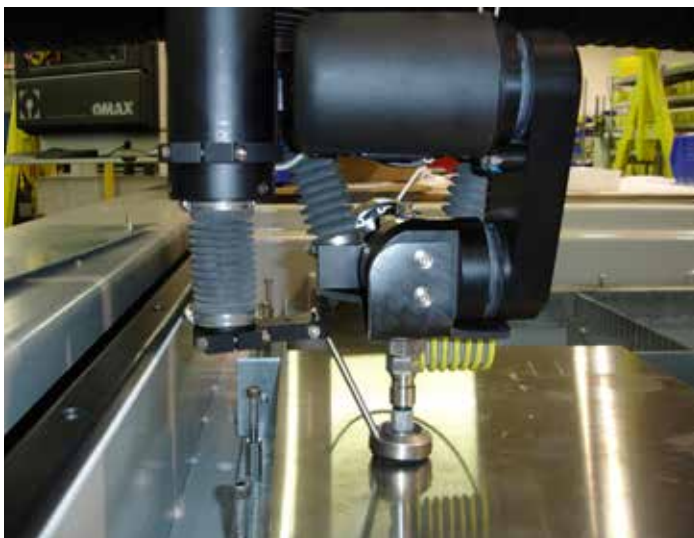
- Linear encoder senses changes in material height during cutting operations
- A collision detector protects the nozzle and related hardware from damage.
- Built-in containment guard minimizes nozzle splash and spray during machining
- Easy field retrofit to a Motorized Z-Axis or Tilt-A-Jet®
- Heavy duty liquid-tight electrical fitting with spring-type strain relief
- O-ring seal bulk-head air fittings with protective boots
- Adjusts automatically to uneven surfaces; reduces need for additional programming
- Electrical connections armored for durability
- Robust sealing to withstand the abrasive waterjet environment
- Automatically maintains the correct nozzle standoff throughout the cutting process
- Constantly senses necessary height adjustments when activated, unlike other contour following products on the market
- Reduces potential equipment damage from nozzle collisions
- Simple setup and operation
- No special programming required
- No requirement to map the elevation of your material—simply move the nozzle to where you want to begin cutting and push start
- No matter where you are located in the world, you'll receive effective technical support to ensure your CSTF is operating at its highest levels. With hundreds of active units in the field, our technicians are strategically located to meet customer needs

## Best Applications

- Great for large sheets of nested parts
- Great for materials that stress relieve while cutting
- Ideal for cutting large parts on uneven or warped sheets
- Assists in cutting hard, smooth, or non-cosmetic surfaces

## Improvements

- Offers a more robust sensing mechanism
- Equipped with more stable sensor mounting
- Auto-disables during machine shutdown
- Foot is more rigid and easily removed without tools



## Requirements

- Microsoft Windows®: contact OMAX Customer Service for information if you are running DOS
- Motorized Z-Axis or Tilt-A-Jet
- OMAX Software version 11 or greater

May experience reduction in travel with OMAX Models 55100, 5555, 2652, and 2626. Contact OMAX for more information



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# Terrain Follower/A-Jet



The OMAX Terrain Follower allows a JetMachining® Center to automatically cut parts from materials with irregular or warped surfaces without the need for special programming.

The Terrain Follower attaches directly to the A-Jet. Changes in a material's height are detected and the nozzle automatically makes the required height adjustments, maintaining the necessary nozzle standoff to avoid contact with warped surfaces and protecting the nozzle and related hardware from damage. This allows you to start cutting warped material without the need to find the high points, saving you time and money.

## Features & benefits

- High resolution magnetic encoder senses change in material height
- Automatically maintains nozzle standoff throughout the cutting process
- All electrical cabling is shielded from the abrasive waterjet environment
- Designed with robust packaging, O-ring seals, and splash guards
- All A-Jet accessories contain mounting features to add on a Terrain Follower device
- Quick and easy removal/attachment of the Terrain Follower accessory
- Adjusts automatically to uneven surfaces, reduces need for additional programming
- Meet required tolerances and deliver competitively priced, accurate parts cut from economical, non-precision material
- Simple setup and operation
- No special programming required
- Auto standoff
- Designed specifically to operate in an abrasive waterjet environment
- Completely retrofittable to all existing A-Jet accessories
- Designed with the experience of the proven original Terrain Follower concept, which has over 200 active units in the field
- Quick and easy removal of the Terrain Follower accessory when you want extra clearance for specific jobs





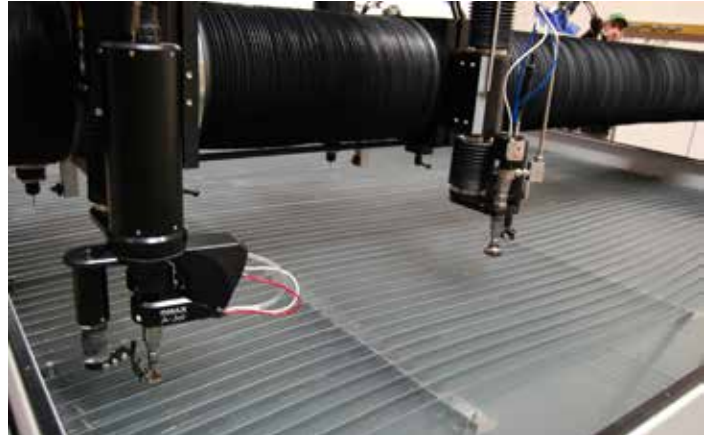
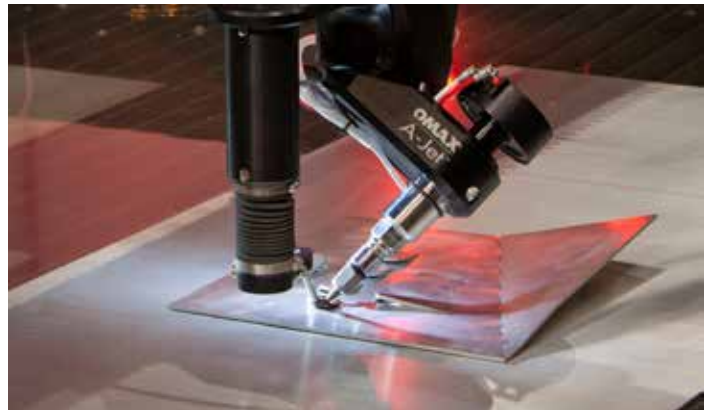
## Best applications

- Great for materials that stress relieve while cutting
- Assists in cutting hard, smooth, or non-cosmetic surfaces
- Ideal for cutting large parts on uneven or warped sheets. For example: When cutting material at a 45° (or greater) angle, any height change of the material directly changes the cut offset. For instance, cutting material with an 1/8" warp without using the Terrain Follower would produce an 1/8" shift in your cutting line. To prevent this, install the Terrain Follower to eliminate this shift when cutting at a 45° angle or any other angle. The accessory will adjust the Z-axis height and give you an appropriate standoff between the nozzle and the material surface when cutting the warped stock. Note: Collision sensing capabilities are not featured with the Terrain Follower/A-Jet accessory.

## Requirements

- Windows® upgrade Contact OMAX Customer Service for information
- OMAX Software version 11 or greater
- A-Jet
- A bridge-style OMAX JetMachining Center (For cantilever-style OMAX JetMachining Centers, contact an OMAX sales representative for details)
- OMAX 9-Axis PC-based controller

Contact OMAX for more information



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# Rotary Axis



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



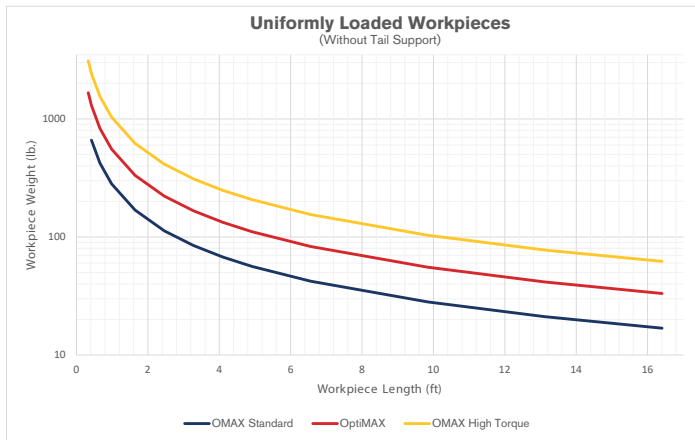
The Rotary Axis can handle small and large diameter tube and pipe with high precision, as well as nonmetal tubing.

## Features & benefits

- Submersible rotary head
- Easy maintenance with external grease fittings
- Built-in water intrusion sensor
- Incremental or coordinated continuous rotation
- Rapid height adjustment wheel
- Provides the ability for submerged cutting, leading to a cleaner and quieter process
- Robust standard ACME and metric threads allow customers to adapt custom work holding fixtures
- Multiple collet and chuck options for internal and external workpiece mounting, up to 24" in diameter
- Can be located at various positions on the table, permitting sheet cutting and rotary cutting without removing the rotary head
- Combines precision of abrasive waterjet and rotary head technologies
- Provides more design capabilities
- No heat-affected zones when cutting metal materials
- Optional tail support for long workpieces

## Specifications

	OMAX Standard Torque	OMAX High Torque	OptiMAX
Axis used	TY	TY	TY2
Angular resolution	0.02°	0.01°	0.01°
Maximum torque	28 ft-lb	508 ft-lb	190 ft-lb
Voltage	No additional utility requirements	220 VAC	110/220 VAC
Full load amps	No additional utility requirements	13 FLA	63 FLA



When used with the A-Jet, fishmouth intersections, saddle cuts, and countersunk holes can be cut along the circumference of pipes.

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# Water Recycling System

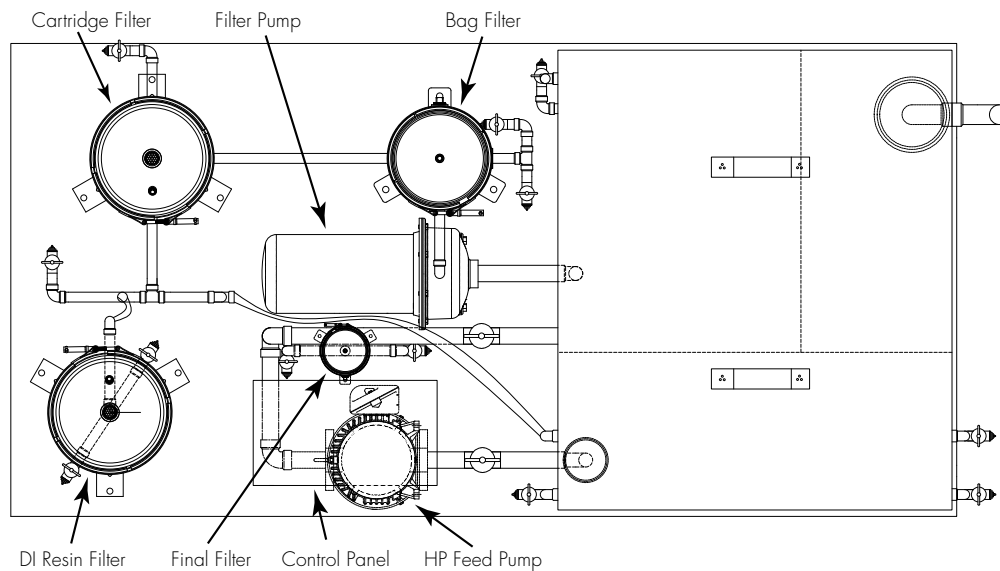


The OMAX® Water Recycling System reduces water consumption by up to 95% and prevents pulverized abrasive and heavy metals from entering regional sewers and drainage systems. The Water Recycling System addresses the four critical areas of water recycling: suspended solids, dissolved solids, temperature, and organic fouling. The Water Recycling System's advanced filtration works across multiple layers to ensure proper output water quality. The OMAX Water Recycling System is designed to integrate with existing water softeners, reverse osmosis (RO) systems, and deionization (DI) make-up water systems.

## Features & benefits

- Recycles all water used in the cutting and cooling process
- Laminar weir prefilter system
- Bag/cartridge filters for suspended solids
- Resin for TDS/dissolved solids filtering
- Ozone generator for bacteria control
- Separate chiller for heat dissipation
- One micron absolute final filter
- Filter, deionization resin, and low water alarms
- Closes the exit drain completely and allows you to reuse the water
- If maintained properly, the Water Recycling System meets the OEM desired water quality sent to the high pressure pump
- Recycles and conditions make-up water to OEM specifications
- Assists in complying to local or state waste authority disposal regulations
- Provides a configurable system so minimal solids are present in the recycled water





## Best applications

The OMAX Water Recycling System is ideal for locations that require additional water handling. This can include poor make-up water quality, high water and sewage costs, or regional water rationing. The Water Recycling System is also useful if the incoming water pressure fluctuates, the facility has no drain, or the drain is not accessible. If the facility is on a well or septic water system, the Water Recycling System is a useful addition to maintaining consistent and reliable input and output water. Companies that are ISO 14000 certified can use the OMAX Water Recycling System to help maintain and improve environmental compliance.

## Optional accessories

- Central water recycling for multiple pumps and/or machines
- Central chiller for multiple pumps and/or machines
- Waste water process system as an alternative to returning water back into the high pressure pump
- Multi-position air handlers for additional inlet water cooling



For more information, visit: [www.omax.com](http://www.omax.com)

## Requirements

- Inlet water temperature at or below 70° F (21° C)
- Inlet water pressure above 30 psi (2.1 bar)

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

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# Laminar Filter



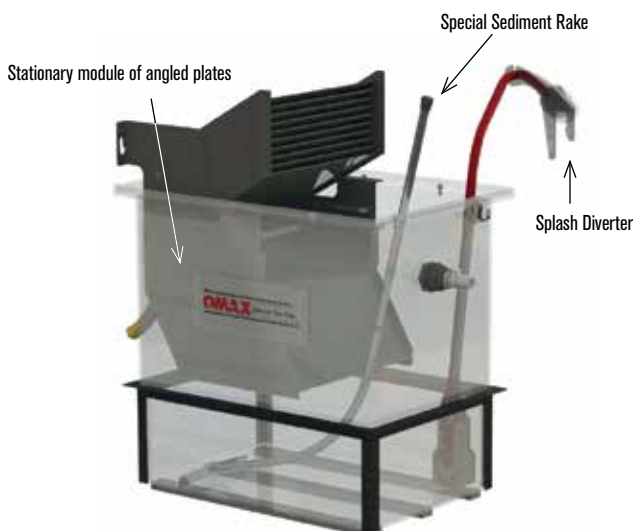
This settling tank efficiently cleans overflow water from the Catcher Tank for required recycling through a Closed Loop System (CLS) or for environmental disposal. When water enters the OMAX Laminar Filter, an ideal gravitational filtering process begins in the unit. The accessory contains angled plates that organize the water flow in a slow moving laminar manner. Small, lightweight particles fall a short distance before contacting the plates, where they stick together and are trapped. Clean water exits to a CLS or a disposal drain while sediment falls to the bottom of the tank, where routine removal is made easy with the integrated sediment pump system.

## Highlights

- Convenient hose for directing clean water to a Closed Loop System or drain
- Rust-proof construction
- Complete cleaning system includes Sediment Pump, Splash Diverter, and Special Sediment Rake
- Hose and Splash Diverter are conveniently stored inside the Laminar Filter tank

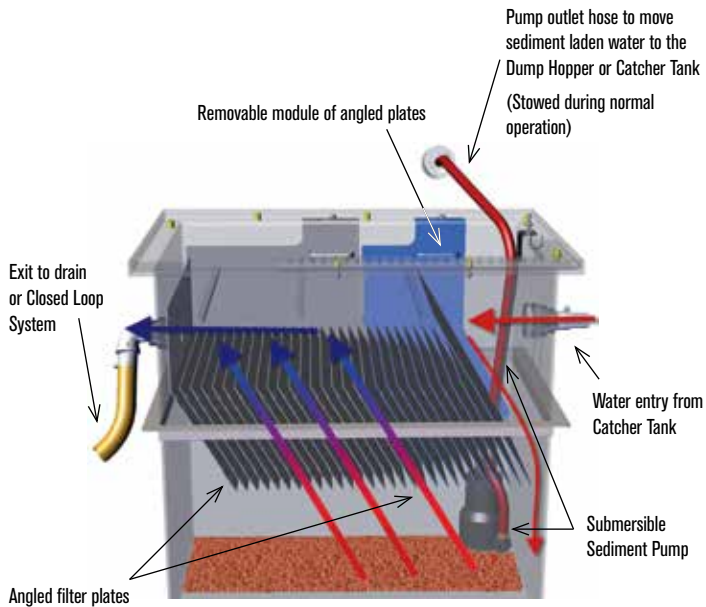
## Features & benefits

- Available for both OMAX and MAXIEM JetMachining® Centers
- Standard Catcher Tank hose fits directly to the Laminar Filter
- Modules of angled plates create laminar water flow to filter particles
- Submersible sediment pump with ground fault circuit interrupter moves sediment laden water to a Dump Hopper or Catcher Tank
- Custom rake included for pulling sediment to pump during cleaning
- Water returning to a Closed Loop System is cleaner, extending the life of the CLS filter
- Laminar water flow efficiently removes finer particles from water
- Easier to clean unlike other settling tanks or bag inserts
- Offers a means to comply with regional waste disposal regulations
- Low operating cost: no expensive filters or bags to replace



When cleaning the tank, the removable angled plate module can be lifted from the accessory unit. An operator can clean out the sediment from under the stationary angled plates by using the Special Sediment Rake.





**Water Filtration Process:** Red/blue arrows indicate a slow moving, laminar water flow ideal for the maximum settling of small and lightweight particles

## System Specifications

- Submersible pump: 120 V, 60 Hz, 1 PH, ¼ hp or less, thermally protected, cord-connected, with GFCI, UL or CSA
- 10 ft hose and fittings for sending clean water to a Closed Loop System or down the drain
- 15 ft sediment pump hose with Splash Diverter

## Options

- Submersible pump: 220 V, 50 Hz, 1 PH, ¼ hp or less, thermally protected, cord-connected, with PRCD, CE-marked

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# 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 lines, the OMAX Vacuum Assist can increase production and reduce material waste for maximum part processing yields.

## Features & benefits

- Assist low-pressure piercing of delicate materials such as composites and brittle materials with low tensile strength
- Works on both OMAX and MAXIEM JetMachining® Centers, including the MicroMAX®
- Minimal floor space requirements
- Low-pressure stationary piercing can help improve the circularity and edge quality of small holes
- Works with Motorized Z Axis, TiltajET®, and A-Jet® cutting heads\*
- Precise on/off cycles to prevent excess garnet usage
- Aids in piercing laminates with low adhesive strength between layers of thin materials and/or coating and substrate
- Automatic dynamic pressure adjustments
- Available in a wide range of nozzle orifice sizes, from 0.007" to 0.016", with mixing tubes from 0.015" to 0.048"\*
- Visible pressure gauge to verify correct pressure settings

## System requirements

- Connects to JetMachining Center air and power supplies
- 110VAC for external abrasive drain pump
- 0.8 lb/min maximum abrasive flow rate
- 14" x 14" (356 mm x 356 mm) floor space for external abrasive drain pump

\*Different mixing tube/orifice ratios may improve piercing. Some orifice/pump combinations may restrict maximum pump pressure after low pressure piercing. Some restrictions when used with an A-Jet cutting head. Consult with an OMAX sales representative for more information.



**CARBON FIBER**



**WOVEN COMPOSITE**



**GLASS**



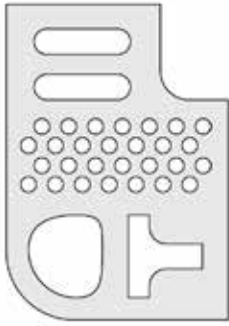
**GRANITE**



**FIBERGLASS**



**GLASS EPOXY COMPOSITE**



Laminate Part File with Delamination Risks



Potential Delamination with Standard Cutting Head:  
Scrap Part & Restart Production



No Delamination When Cut With Vacuum Assist:  
Uninterrupted Production

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# DualBRIDGE



Significantly increase productivity with the addition of a second bridge: simultaneously cut separate jobs on a single bed with a single operator. Available on OMAX and OptiMAX® bridge systems, the OMAX DualBRIDGE option is ideal for high-output, high-capacity jobs, or shops with limited facility space. The premium IntelliMAX® software controls each bridge autonomously, allowing for two independent actions to take place simultaneously, whether cutting two separate jobs or alternating planned maintenance cycles.

## Features & benefits

- Each bridge uses the same high-precision IntelliTRAX® technology as a single bridge JetMachining Center
- Automatic bridge collision detection
- Each bridge can use any of the available precision cutting head options for maximum versatility
- Each bridge can have different accessories, for example a Tiltajet on one bridge and Versajet on the other bridge
- Up to two cutting heads per bridge for a maximum of four cutting heads on one machine
- Redundancy increases productivity: one bridge can continue cutting while the other undergoes scheduled maintenance
- Acquire the highest productivity configuration with multiple cutting heads and pumps on one machine



## DualBRIDGE Advantage

With the DualBRIDGE option, your JetMachining Center® becomes much more versatile. By taking advantage of the extensive accessories OMAX has for its JetMachining Centers, you can cut high precision taper-free parts with a TiltajET® on one bridge, while the second bridge, equipped with the VersajET® or A-Jet®, cuts complex 5-axis 3D shapes.



## Options & accessories

- DualCarriage for a second motorized Z-Axis on each bridge
- Pneumatic Drill for precision piercing of delicate materials
- Taper eliminating TiltajET cutting head for finished parts
- 5-axis A-Jet on OMAX and VersajET on OptiMAX machines for multi-axis complex parts
- Precision Optical Locator for accurate nozzle placement

## Requirements

- OptiMAX 80X Series, OMAX 120X Series, or OMAX 160X Series JetMachining Center
- Separate EnduroMAX® pump for the second bridge

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

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# OptiMAX Dual Carriage

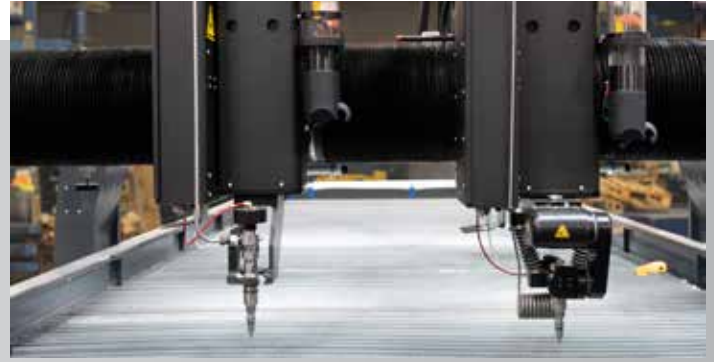
Maximize your productivity of your OptiMAX® JetMachining Center® with the OptiMAX Dual Carriage. The OptiMAX Dual Carriage adds a cutting head and independent motorized Z-Axis carriage, increasing your capabilities or performance or both, without sacrificing floor space. With the second carriage being a fully functional motorized Z-Axis, the operator can move the heads one at a time, aligning them closer together for part duplication or further apart for single head usage.



Double your production by equipping both Z-Axis carriages with the same type of cutting head for simultaneous machining of the same part across both cutting heads, including multi-axis parts.



Precise and complex three-dimensional parts become a reality on one carriage equipped with the VersaJET.

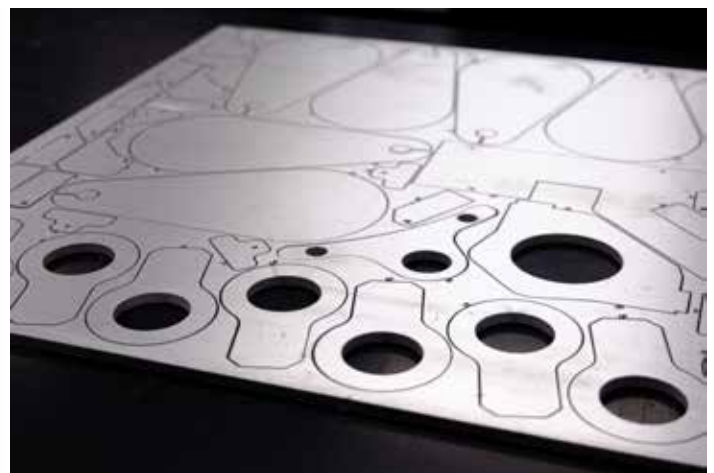


## Zero taper & 3D functionality as needed

By adding a VersaJET® 5-axis cutting head to one carriage and a TiltajET taper elimination cutting head to the second carriage, your OptiMAX JetMachining Center can cut countersinks and weld-ready edges on one head, and taper-free finished parts on the second head.

## Features & benefits

- Add the industry-leading taper elimination TiltajET® cutting head for the ultimate in taper-free finished parts.
- Utilize the advanced VersaJET multi-axis cutting head to cut complex 3D parts or weld prep bevels.
- Position the nozzles as close as 20" (508 mm) to maximize material usage during simultaneous part cutting.
- Increase flexibility with the OMAX Dual Pump configuration to minimize downtime on your OptiMAX JetMachining Center.
- Add the OMAX Terrain Follower or Collision Sensing Terrain Follower for added versatility and protection of the cutting heads.



Precision taper-free nested parts are easy on the second carriage equipped with the TiltajET.





Control both carriages on the OptiMAX Dual Carriage from a single mobile controller, reducing footprint and simplifying operator workload.

## The IntelliMAX software advantage

The OptiMAX Dual Carriage uses the world's best waterjet control software, IntelliMAX. The built-in intelligence in MAKE provides detailed reporting that includes highly precise estimates on cut times for both carriages, allowing for accurate job costing. Advanced monitoring that is included with the IntelliVISOR system monitoring application lets the operator set up detailed maintenance reminders that minimize downtime and maximize production for the whole Dual Carriage system. Advanced notification features send alerts to email or a smartphone, keeping the operator aware of the machine operation at all times.



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# Chiller Systems



For utmost efficiency and high performance constancy in your abrasive waterjet system, delivering uniform cool water to your pump is critical. The air-cooled OMAX Chiller optimally supplies inlet water at a consistent temperature, which extends pump seal life for longer, more sustainable production. OMAX is keenly aware of the impact its systems have on the environment, so the OMAX Chiller uses R407c, an environmentally friendly refrigerant with zero ozone depletion potential. Using the 5 Ton Chiller or larger also allows for seamless interaction with the OMAX Water Recycling System to significantly reduce overall water consumption.

## High Efficiency Compressors

The OMAX Chiller utilizes scroll compressors to deliver smoother and quieter performance while maintaining high reliability and efficiency. Precisely engineered internal counterbalances reduce vibration, further decreasing noise while producing a cleaner, less turbulent output.

## Features & benefits

- Controls the inlet water temperature entering your pump equipment
- Reduces pump rebuilds and machine downtime
- Designed for ambient temperatures from 35°F (1°C) to 100°F (37°C)
- Stainless steel evaporator
- Powder-coated steel cabinet
- Single point electrical connection into disconnect
- Hermetically sealed scroll compressor
- Removable filter screen on air inlet
- Ranco microprocessor temperature controller with LCD display
- NEMA 12/4 electrical enclosure, fully gasketed with lockable disconnect
- High side filter drier
- 1/2" NPT inlet and outlet piping connectors
- Thermostatic expansion valve
- Liquid line sight glass
- High and low side pressure switches
- Environmentally friendly R407c refrigerant
- Multiple Schrader access points
- Vibration isolators

## Electrical Requirements

- 460 3 Phase 50-60Hz Electrical Input



	Rated Capacity <sup>1</sup>	Maximum Capacity <sup>1</sup>	Dimensions	Dry Weight (Approximate)	Water Recycling System
2 Ton	24,000 BTU/hr	24,000 BTU/hr	28" x 38" x 36" (712mm x 966mm x 915mm)	375 lbs (170kg)	No
3 Ton	36,000 BTU/hr	41,000 BTU/hr	42" x 28" x 66" (1,067mm x 712mm x 1,677mm)	750 lbs (340kg)	
5 Ton	60,000 BTU/hr	60,000 BTU/hr		760 lbs (345kg)	
7.5 Ton	90,000 BTU/hr	98,000 BTU/hr	59" x 36" x 66" (1,499mm x 915mm x 1,677mm)	920 lbs (417kg)	Yes
10 Ton	120,000 BTU/hr	132,000 BTU/hr			
12 Ton	144,000 BTU/hr	160,000 BTU/hr			
15 Ton	180,000 BTU/hr	192,000 BTU/hr			

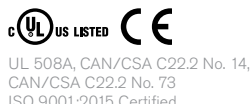
<sup>1</sup>The rated capacity is the standard capacity for the chiller. Due to improvements and enhancements in component efficiency, some OMAX Chiller models are capable of a higher maximum output capacity.



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# OptiMAX Bridge Pendant



The OptiMAX® Bridge Pendant allows the waterjet operator to move the Cutting Head and the Bridge along X, Z and Y Axis, dial in the cutting head to the work piece or perform dry runs to test drawings or materials.



## Features & benefits

The OptiMAX Bridge Pendant is attached the bridge upright of the OptiMAX, giving the operator full access to the table to move the bridge and Z-Axis. The Bridge Pendant gives the operator the ability to move the bridge along the X-Axis, the Cutting Head along the Y-axis, and move the Z-Axis up and down from the work piece.

- Handheld pendant that is easy for operators to hold and work on the material
- Rotator dial to move the Cutting Head and Bridge along the X, Z and Y Axis
- Speed function that moves the Z Axis or Bridge incrementally to quickly
- Mounted on the bridge upright for quick grab and access to the whole cutting envelope with a 16ft long cord (5 meters)
- Integrated with the OMAX IntelliMAX® MAKE software, with clear signals to tell the operator if the main controller or the pendant is active and in control
- Ability to run a dry run on path to make sure the material and the geometry are set up correctly

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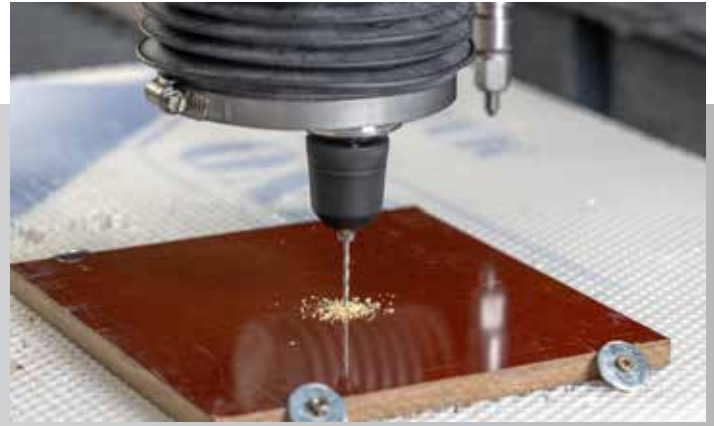


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# Pneumatic Drill

For OptiMAX JetMachining Centers



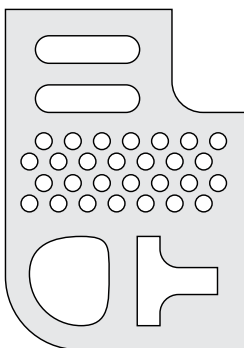
The durable Pneumatic Drill permits repeatable piercing of pilot holes in laminates, composites, and other brittle or sensitive materials prior to abrasive waterjet cutting. Mounted on the same Z Axis as the cutting head, the Pneumatic Drill requires no complex programming, just choose the drill as the piercing option, set the time to drill, and the IntelliMAX® software does the rest. Through the software interface, the operator can choose to drill all the holes and then cut, or drill and cut each feature in sequence.

## Requirements and utilities

- OptiMAX mobile controller installed with IntelliMAX Software
- Motorized Z-Axis, TiltajET, or VersajET; can be used on DualCarriage machines
- Routinely fill air line oiler and gear train grease
- Filtration system (40 microns max.) for the drill air feed
- 30 SCFM at 80 psi per drill unit/Z axis
- IntelliMAX Software Suite

## Features & benefits

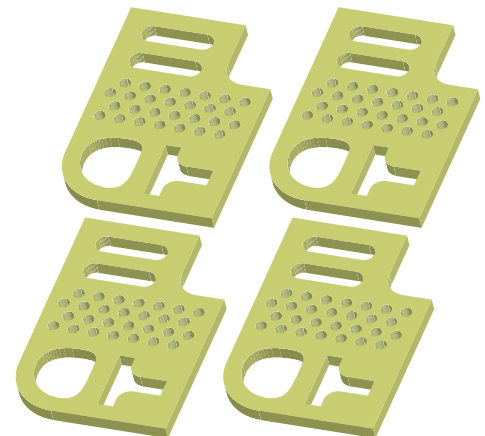
- Powder coated and anodized parts enclosed inside water-resistant cases and bellows help protect components from the waterjet environment
- Pecking feature to clear drilled chips in thicker materials
- Controlled by IntelliMAX software on the OptiMAX mobile controller
- No additional electric power needed
- Successfully pre-drill brittle and sensitive materials such as composites and laminates
- Reliably produce parts without delamination
- Eliminate the process of tedious hand drilling with customized registration templates
- Keyless chuck can accommodate up to a 1/4" (6 mm) drill bit
- Compatible and retrofittable with all OptiMAX cutting heads including VersajET® and TiltajET®



Laminate part file with delamination risks



Potential delamination with standard piercing:  
Scrap part and restart production



No delamination when cut with pre-drilled holes:  
Uninterrupted production



# MAXJET 5i Nozzle



Designed to maximize performance on your OMAX abrasive waterjet system, the MAXJET 5i combines precision with durability in a convenient one-piece nozzle. Utilizing a premium diamond orifice that is permanently integrated into the nozzle body, the MAXJET 5i provides consistent results for hundreds of hours of operation. By using precision alignment tools during manufacturing, OMAX technicians center the waterjet stream exactly in the center of the mixing tube. This results in longer life in the mixing tubes, further reducing machine downtime. An innovative abrasive feed line connector allows for a better, more consistent abrasive feed and adding to the already superior reliability of the OMAX MAXJET 5i. With a prorated 500-hour guarantee, the MAXJET 5i is the best choice for any OMAX waterjet.



## Features & benefits

- Diamond orifice is permanently fixed inside the nozzle body to ensure precise internal component alignment
- Lasts 20% longer or more compared to other nozzles
- Completely integrated nozzle body comes ready to install
- Available in different orifice sizes from 0.010" to 0.022"
- Reduce downtime – no more nozzle body rebuilds
- Experience overall lower operating cost compared to traditional nozzles
- Prolong mixing tube life by generating a more accurate jet stream to reduce internal contact with abrasive





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# Precision Optical Locator



The Precision Optical Locator (POL) is an accessory that combines hardware and software technology to allow you to quickly and easily determine the location of parts on the machining table or features on existing parts or materials. The POL includes a compact video camera mounted to the Z-axis to precisely locate points, edges, or holes on a piece of material placed on the OMAX JetMachining® Center's cutting table. The POL's software is integrated with IntelliMAX® MAKE, providing you the interface to view the live video feed from the camera and apply alignment tools to measure and locate features.

## Features & benefits

- High definition camera with microscope lens to zoom in on material features, locate, and select points with the software's precision crosshair alignment tool
- Video image of featured location can be saved for quality control records
- Light ring illuminates viewing area
- When used with OMAX Watcher Utility, the POL allows remote machine monitoring and shutdown
- Includes two camera tripods, a 250-inch ethernet cable, and a sturdy accessory carrying case
- Camera resolution up to 2592 x 1944 pixels
- Video/optical locating system eliminates the need for cumbersome point location using time consuming dial indicators
- Video monitoring and software functions measure the location of material features to prepare for secondary machining, such as drilling in the center of a disk
- Pick up locating points without the operator leaving the control console

## Best Applications

- Locate tool path with existing features when material is larger than the cutting area of the machine
- Reverse engineer or measure existing parts

## Requirements

- Motorized Z-Axis or Tilt-A-Jet® cutting head
- Remove POL during cutting operations

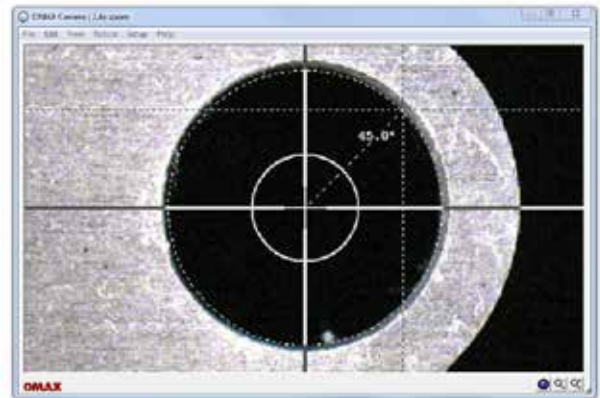
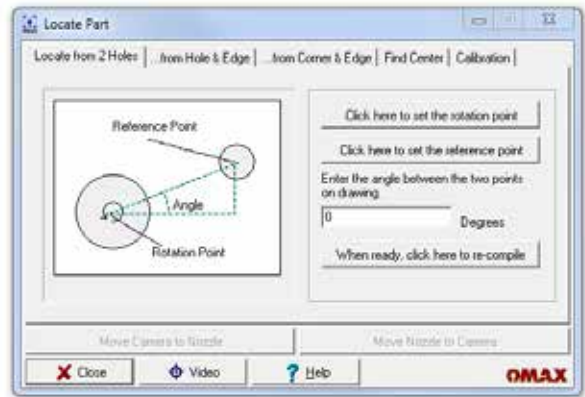


## Software Interface

From the Precision Optical Locator's Locate Part window (see image to the right), select a method tab to determine the location of a part, such as "Find Center." From the OMAX Camera window (image right, below), use the application's precision crosshairs to locate specific part features, such as a center of a circle, an edge, or a corner.

## Software Capabilities

- Locating a part's feature from two reference holes
- Locating a part's feature from a hole and an edge
- Locating a part's feature from a corner and an edge
- Finding the exact center of a circle
- An instructional wizard for rotating part tool paths to align with existing materials
- Digital and full screen views
- Interaction with the Intelli-MAX Software Suite
- Measurement and reverse engineering tools



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# Laser Feature Finder



Perform simple dry runs with this laser attached to the nozzle before you cut parts on valuable stock.

Get a rough visual reference of where your jet stream will begin cutting by locating material features without special software. The accessory projects a laser dot within  $\pm 0.020$ " of the area you plan to cut. The laser also gives you the capability to easily locate features when your material is positioned at an angle.

## Features & benefits

- Easily attachable to all OMAX JetMachining® Centers
- Includes a polarized lens to adjust the diameter of the laser dot to focus on any size material feature
- With its simple design, the accessory operates on three A76 batteries, eliminating wiring or cabling
- Easy to use
- Assists in finding tiny details on your material stock
- Promotes the ability to get the best yield out of materials

Note: This accessory is not for use during cutting operations. It does not replace the Precision Optical Locator.







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# Continuous Feed Hopper CFH600



The innovative Continuous Feed Hopper improves your production times with automatic garnet delivery to the abrasive waterjet nozzle. Utilizing pneumatic pressure to transport garnet from the large capacity 600 lb (272 kg) hopper pot to the cutting head hopper, the Continuous Feed Hopper helps to eliminate unplanned downtime with the ability to fill the hopper while in use.

## Features & Benefits

The Continuous Feed Hopper is designed to maximize production while simplifying operations. Quality engineering has resulted in a system that is easy to use and maintain.

- Designed for sustainability with recyclable plastic hopper & modular steel frame
- A removable screen provides pre-filtration that reduces downtime due to abrasive contamination
- The large 600 lb (272 kg) hopper pot size provides hours of uninterrupted cutting
- The open design allows for improved maintenance and troubleshooting accessibility
- A low-level indicator light provides instant visual notification to facilitate refilling of the hopper pot
- The integrated lid and screen allows users to fill the hopper pot while in use

## Specifications

CFH-600 dimensions, weights & operating requirements

Length	40 in (120 cm)
Width	35 in (89 cm)
Height	57 in (145 cm)
Operating weight	825 lb (374 kg)
Shipping weight	225 lb (102 kg)
Abrasive capacity	600 lb (272 kg)
Maximum abrasive flow rate	2.8 lb/min (1.27 kg/min)
Hose size	1/2 in (12.7 mm)
Maximum hose length	100 ft (30 m)
Electrical supply	120 VAC 60 Hz / 90 - 250 VAC 50 Hz or 60 Hz
Required inlet air pressure	90 psi (6.2 bar)





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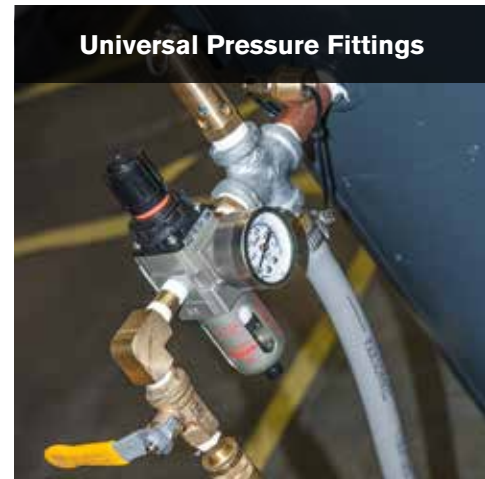
# Bulk Abrasive Delivery System



The OMAX Bulk Abrasive Delivery System improves production times by automating garnet delivery to the nozzle. Available in multiple sizes, the Bulk Abrasive Delivery System uses pneumatic pressure to automatically transport garnet from an external bulk abrasive hopper to the cutting head hopper. The Bulk Abrasive Delivery System can extend your cutting times from under an hour to over a day. The 100lb is on wheels for easy positioning, while the 2200lb hopper is stationary and can hold a full ton of garnet for high production cutting environments.

## Features & benefits

- Heavy-duty steel construction
- Automatically feeds the garnet hopper located next to the cutting head
- Integrates with OMAX IntelliVISOR<sup>®</sup> System Monitoring Package
- Retrofittable to all OMAX and MAXIEM systems
- Supplies garnet for long cuts to prevent delays or material damage
- Can be located up to 20 feet (6 meters) away from the machine
- Filter screen included with 100lb Hopper



**Universal Pressure Fittings**



**100LB Hopper Filter Screen**

	100lb Hopper*	2200lb Hopper*
Height	34" (864mm)	82" (2083mm)
Footprint	20" x 26" (508mm x 661mm)	38" x 38" (966mm x 966mm)
Mobility	Wheeled	Fixed
Min. Pressure	90 psi (0.62 MPa)	
Max. pressure	125 psi (0.86 MPa)	
Additional Cutting Time*	1 hour 40 minutes	33 hours 20 minutes

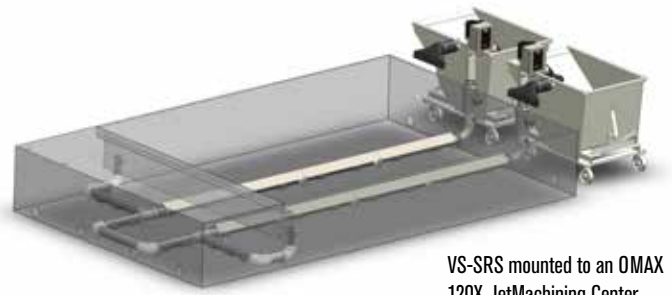
\*Standard hoppers are not CE-rated. Cutting time based on an abrasive flow rate of 1.0lb/min and continuous cutting. Different flow rates and system pauses will vary time values.



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# Variable Speed Solids Removal System



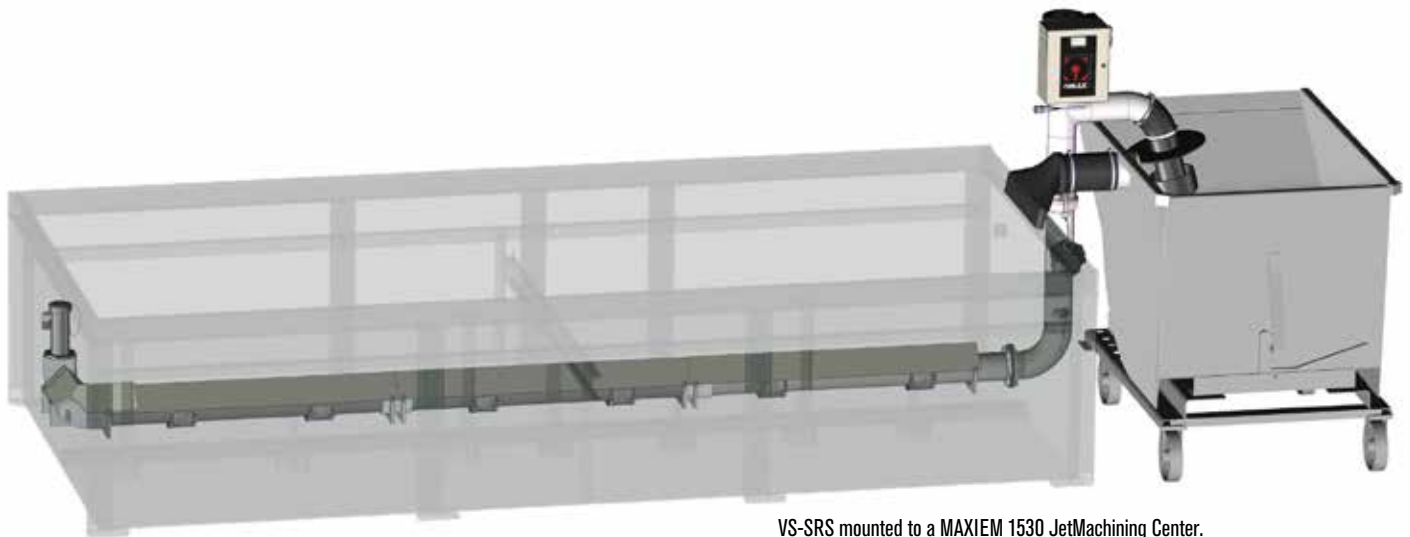
VS-SRS mounted to an OMAX 120X JetMachining Center.

The programmable Variable Speed Solids Removal System (VS-SRS) provides precise control over abrasive evacuation rate, direction, and duration to efficiently remove garnet from the abrasive waterjet catcher tank. The VS-SRS gives the operator the ability to program flow rate and direction. The controller's programmability provides greater garnet removal than comparable fixed speed units. An optimized fluid return trough increases settling time and minimizes abrasive volume returning to the tank. The OMAX VS-SRS works on both OMAX and MAXIEM® JetMachining® Centers, from the smallest to the largest table sizes.

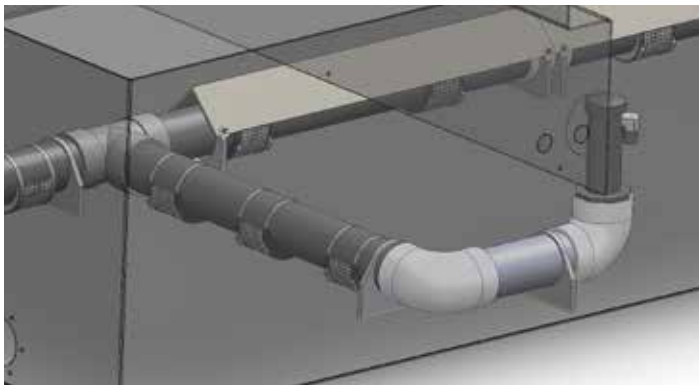
## Features & benefits

- Variable Frequency Drive (VFD) provides programmable flow rate and direction reversal for optimal abrasive removal.
- 3/4 yard hopper that includes liner for ease of removing garnet from hopper
- Optimized fluid return trough minimizes abrasive volume returning to the tank
- Suction line flushing feature
- UL, CE and CSA compliant
- Built-in GFCI protection
- Garnet removal rate as high as 5.6 lbs/min
- Provides an easy, economical way to clean the Catcher Tank with minimal downtime for maintenance
- Uses only 21sq ft of floor space
- Productively removes both large and fine particles





VS-SRS mounted to a MAXIEM 1530 JetMachining Center.



### Electrical Requirements

- 220/240 VAC (50/60 Hz) Single Phase 10A GFCI protected (supplied by owner)
- Ships with a Nema 6-20 male plug
- Install according to local electrical code

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# Large Solids Removal System



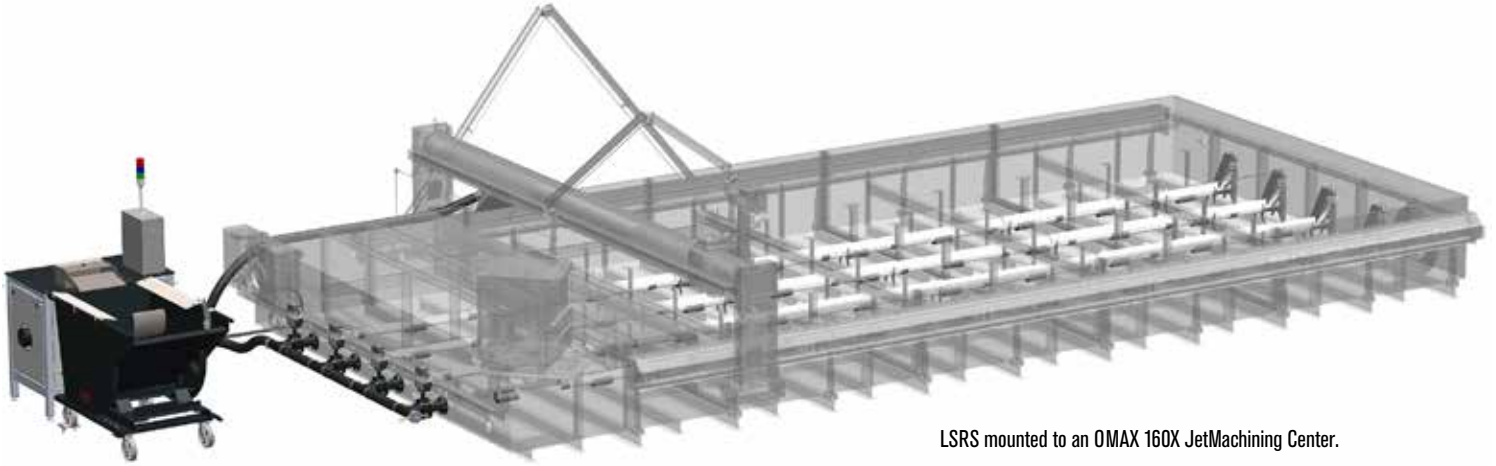
LRS mounted to a MAXIEM 3060 JetMachining Center

The PLC-controlled Large Solids Removal System (LRS) provides precise control over evacuation rate, zone selection, and duration for efficient removal of spent abrasive from a large-bed waterjet catcher tank. The LRS gives the user operational flexibility by allowing placement of the LRS up to 100 feet (over 30 meters) away from the JetMachining Center. The LRS is the standard solids removal system for large OMAX and MAXIEM systems, including the 120X, 160X, and 3060, but can be custom fitted to smaller machines. The programmable controller provides greater abrasive removal rates over traditional systems, making the LRS the ideal abrasive removal system.

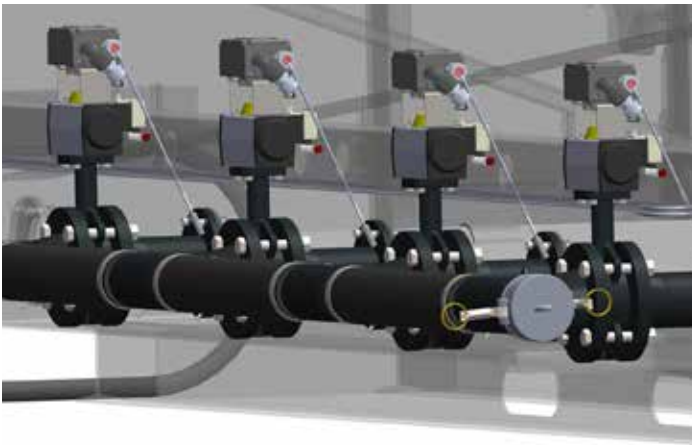
## Features & benefits

- Efficient and rapid cleaning of a large JetMachining Center
- Automated PLC control during system operation
- Standard Hopper can collect 2,200 lb (1,000 kg) of abrasive in industry standard bag size
- Skid & Hopper Unit can be located remotely, up to 100 ft (30.5 m) for optimum facility placement
- 1.5 HP diaphragm pumps provides strong suction power
- Abrasive removal rates up to 30 lb/min (13.6 kg/min)
- Provides easy, economical way to clean the Catcher Tank with minimal downtime
- Utilizes minimal floor space for large table application
- Productively removes both large and fine particles
- cUL-US compliant





LSRS mounted to an OMAX 160X JetMachining Center.



### Electrical requirements

- 380-460 VAC, 3 Phase, 50/60 Hz, 15A
- Install according to local electrical code

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# Reverse Osmosis System



Water quality varies depending on location. In some areas, total dissolved solids (TDS) can be sustained at or below 250 parts per million (ppm), eliminating pre-treatment measures for effective abrasive waterjet operation. However, in areas where the TDS is in excess of 250 ppm, an OMAX Reverse Osmosis System can provide the assurance you need to supply clean, pure water to your high performance abrasive waterjet system. Optimized for waterjet applications and designed to fit between your incoming water supply and the abrasive waterjet pump, the OMAX Reverse Osmosis System works with both OMAX and MAXIEM JetMachining Centers.

## Features & benefits

- Two types of pre-treatment filters: 5-micron and carbon black
- Includes a digital total dissolved solids meter for quick visual review
- Time clock initiated water softener system capable of a 10 gpm flow rate with 45,000 grains removed
- Sturdy powder-coated steel frame designed for out of the way wall mounting
- Two 4" x 40" membranes capable of handling over 4,000 gallons per day at 77 ps
- Can remove up to 90% of total dissolved solids in water
- Protects OMAX and MAXIEM abrasive waterjet systems to maximize machine uptime
- Virtually hands-free operation
- Excess pure water output can be used for other equipment in a shop (such as EDM, etc.)
- Inexpensive monthly filter changes

## Specifications

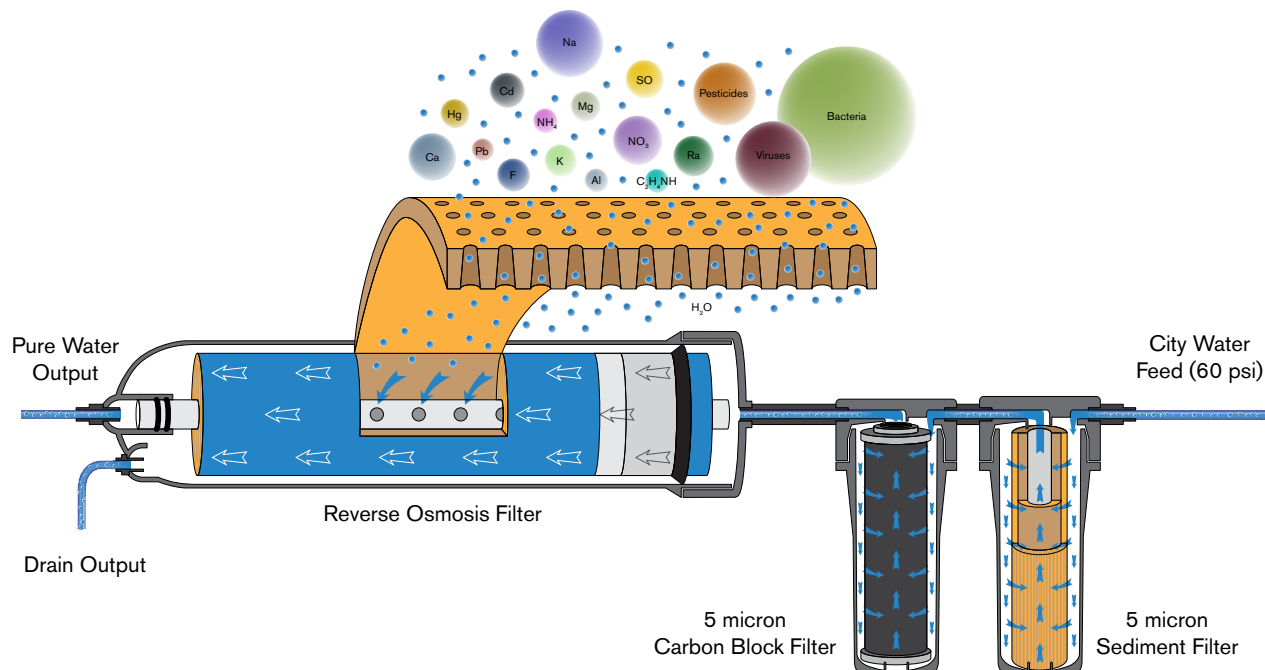
OMAX Reverse Osmosis System	
Power Requirements	110V, 60 Cycle, 10A
Dimensions	Overall: 18"H x 38"W x 6"D Resin Tank: 10" x 54" Brine Tank: 18" x 30"
Pre-Treatment Filters	20" 5-Micron, 20" Carbon Black
Membranes (4" x 40")	Max operating pressure: 125 psi Feed temperature: 95° Recommended pH: 6 to 12 Free chlorine tolerance: <0.1ppm Average rejection: 85% Reject Rate: 2.5 gpm Product Rate: 2.8 gpm Gallons per day: 4,032 (77 psi)
Water Softener	Type: Time clock initiated Grains Removed: 45,000 Flow Rate: 10 gpm Resin: 1.5 cubic feet total

## What is Reverse Osmosis

During natural osmosis, water flows from a less concentrated solution through a semi-permeable membrane to a more concentrated saline solution until concentrations on both sides of the membrane are equal.

Reverse osmosis uses external pressure to reverse this natural osmotic flow. As pressure is applied to the saline solution, water flows from a more concentrated saline solution through the semi-permeable membrane to produce output water that has a higher purity level.





## Reverse Osmosis Membrane

A reverse osmosis membrane has a thin microporous surface that rejects impurities, but allows water to pass through. Reverse osmosis is a percent rejection technology, and the membrane rejects 80-90% of inorganic solids. The purity of the product water depends on the purity of the inlet water, with the result being that the reverse osmosis product water has a much higher purity than the inlet feedwater.

## When to consider a water softener

In some locations you will find the hardness (calcium and magnesium) in your water to be high but the TDS to be below 250 ppm. In situations like this a water softener is recommended over the full OMAX Reverse Osmosis System. With a water softener you will gain many of the same benefits that the OMAX RO System provides, but at a lower cost.



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# IntelliVISOR System Monitoring



With the OMAX IntelliVISOR System Monitoring Package, you can increase efficiency and reduce downtime by connecting operation controls with machine maintenance and upkeep. IntelliVISOR integrates real-time cutting data from different devices across the OMAX JetMachining® Center through its streamlined software interface and robust machine sensor network. Running in parallel with other programs in the IntelliMAX® Software Suite, IntelliVISOR is both simple and highly adaptable for the end user. A comprehensive alert system keeps you connected and aware of your machine's status to maximize productivity.

## Features & benefits

- Multi-User Notification System including email and SMS text messaging\*
- Advanced Data Logging with export functionality
- Customizable pause and alert triggers
- Software Display Interface can be customized
- Industry-standard ModBus® communications protocol
- Preventative maintenance planning to reduce production downtime
- Monitor pump pressure, abrasive levels, and cutting activity to improve production
- Proactively pauses the machine before resources are exhausted
- Ensure proper pressure at the pump for optimal performance
- Predict potential interruptions before starting a cut

## Enhanced control

The heart of the Intelli-VISOR System Monitoring Package is its Modules. Modules are custom-programmed parameters that gather data from the sensor suite and process it according to the limits set by the user. When a limit is reached, the Module logs the data and can send an alert to the controller PC, an email address, or a cell phone text message.\* The Modules can also pause the machine to protect the cutting head and the part being cut.

## Maintenance tracking

- Preloaded with maintenance tracking Modules
- Can notify up to 4 people via email or SMS text message\*
- Integrates maintenance into the Intelli-MAX Software Suite

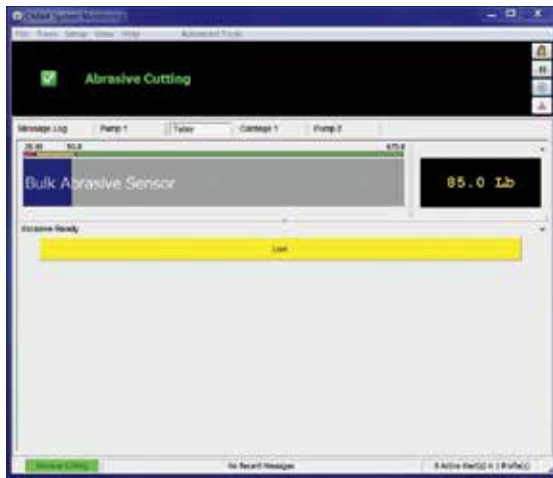
## Pump monitoring

- Improved communications with the pump controller
- Pauses machine when pump fault occurs or water pressure is outside specified window
- Provides feedback for charge pump pressure, filter pressure drop, pump water temperature, and supply water tank level

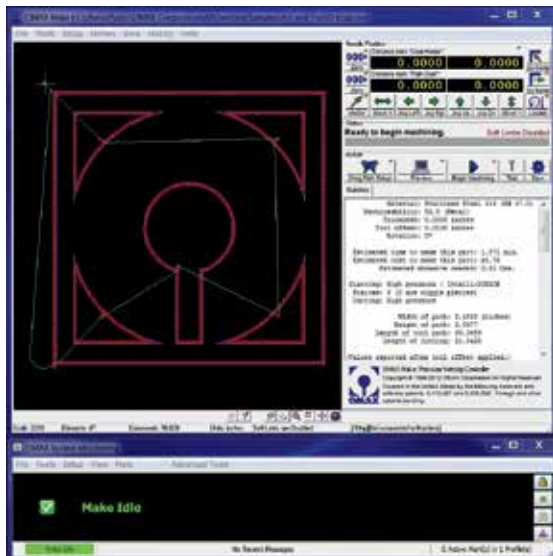
## Abrasive monitoring

- Comprehensive abrasive monitoring improves reliability and usability of machine
- Constant feedback on abrasive levels help manage supply
- Sensors monitor the Bulk Hopper Supply and Carriage Hopper Level

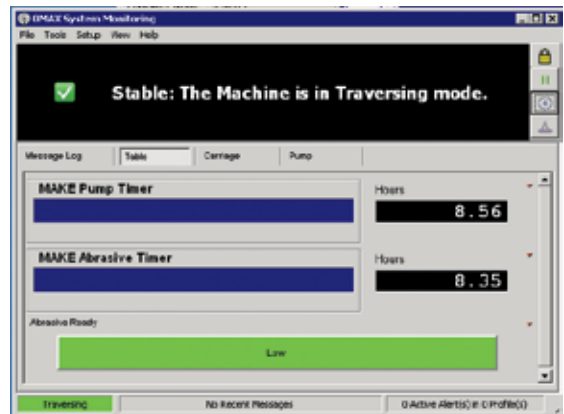
\* Requires an Internet connection. Additional setup needed.



Different checkpoints can be set in each Module, providing multiple levels of alerts and responses.



OMAX IntelliVISOR runs alongside MAKE, working together to ensure productivity and uptime.



The IntelliVISOR display can present Module information in user-customizable formats.

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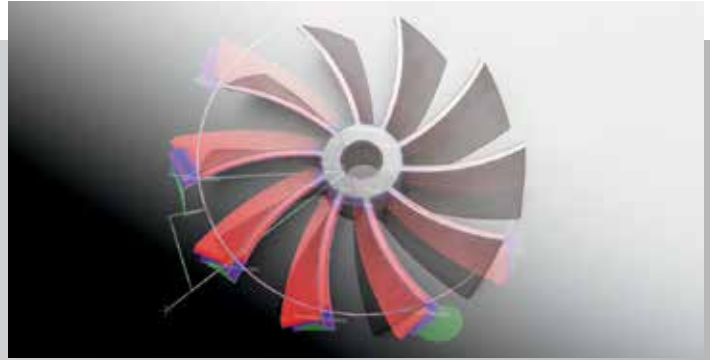




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# IntelliMAX XData



XData is an advanced path feature in IntelliMAX® LAYOUT. Short for eXtra Data, this feature allows for additional information to be assigned to any entity in a drawing or tool path. This additional information can be something simple, like a comment or a pause point, or more complex, such as defining different cutting angles along a path entity. XData becomes an essential tool in conjunction with 3D cutting, as it can easily control the Rotary Axis and adjust the tilt of an AJet® or TiltAJET®.

## Features & benefits

- XData remains in place, even when entity is modified
- Easily create complex 3D shapes
- Commands are saved in the DXF file
- Can easily and precisely pause machine for refixturing
- Can replace older “bitstream stitching” programming method
- Add precise control of Rotary Axis to part file
- Available as a free upgrade for existing OMAX customers
- Quickly add complex tilt and bevel commands to the path
- Insert manual commands into specific locations of a programmed par
- Easily control secondary components
- Override cutting model-defined feed rates
- Customize cutting parameters such as speed, delays, and pauses
- Activate custom accessories and machine actions

## Simple to use

The XData Editor box simplifies the addition of XData, providing a drop-down list of the available XData commands. Simply choose the command you want, input the value, and click OK. The XData is now added to that entity, and displays in LAYOUT with both an icon and a text description.

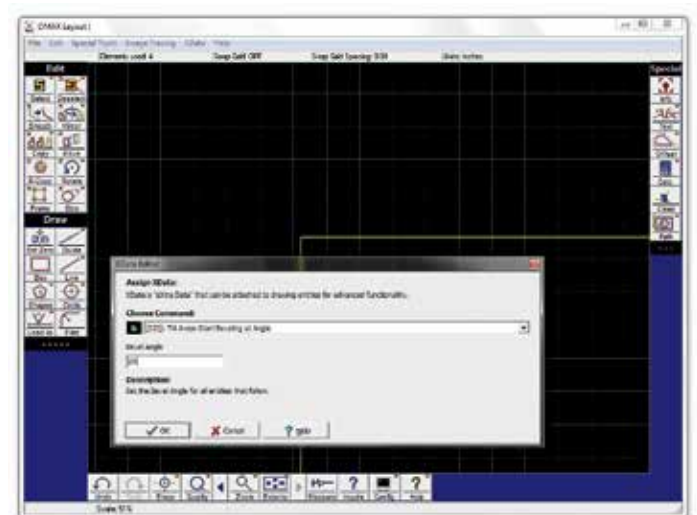
## Options

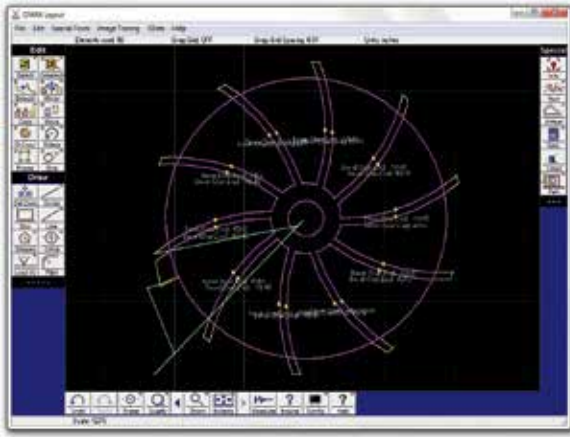
- Speed and Pause Commands
- Z-Axis Commands
- Bevel and Tilt Commands
- Rotary Axis Commands
- Comments & Text Attributes

## Requirements

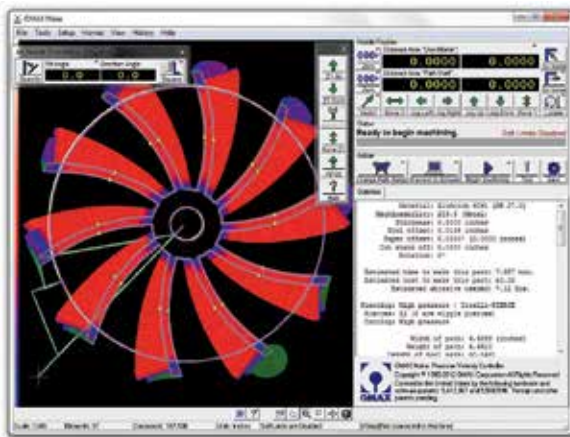
- Intelli-MAX 18 Software Suite or later

TIP: Starting with IntelliMAX 19 Premium Software Suite, the OMAX Interactive Reference has complete tutorials for many 3D pathing operations. Look for the book “3D Programming Fundamentals” in the Contents tree, or type “Tutorial” into the Index.





Adding XData in LAYOUT is fast and easy: just choose the entity and add the XData.



MAKE takes the XData and applies it to the cutting path.



Precise and complex three dimensional parts become a reality with XData.

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

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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.

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