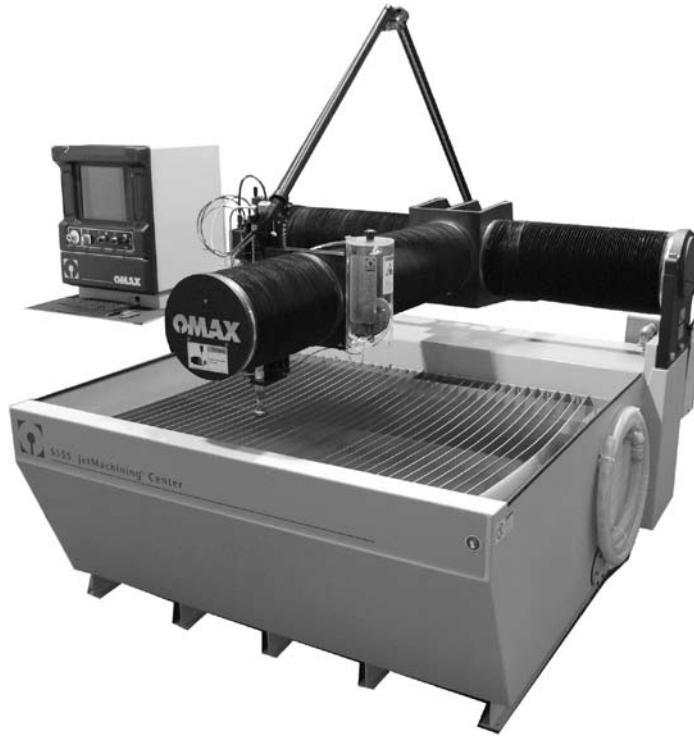




PRECISION ABRASIVE WATERJET SYSTEMS

Equipment Specifications

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OMAX® 5555 JetMachining® Center

Precision machining workhorse: From prototypes to production runs.

The Model 5555 JetMachining Center cuts complex flat parts out of most materials including metal, plastic, glass, ceramic and composites directly from a CAD drawing or .DXF file. JetMachining is ideal for short-run part production, just-in-time manufacturing, tooling and prototype part development. No tool changes or complex fixturing reduces setup times by at least 50%.

Standard Features

- Patented "Compute First-Move Later" motion control system including CAD/CAM software with online help.
- X-Y table with motorized Z-Axis.
- Pre-loaded linear bearings and precision ball screws.
- Complete component protection against water, dirt, and grit.
- Rapid water level control for submerged cutting.
- Durable abrasive feed system with precision OMAX MAXJET® 5 Nozzle Assembly.
- Ultra-high pressure direct drive pump.
- Hard plumbing.
- Vibration-free motion through use of patented shear damper.

Abrasivejet Benefits

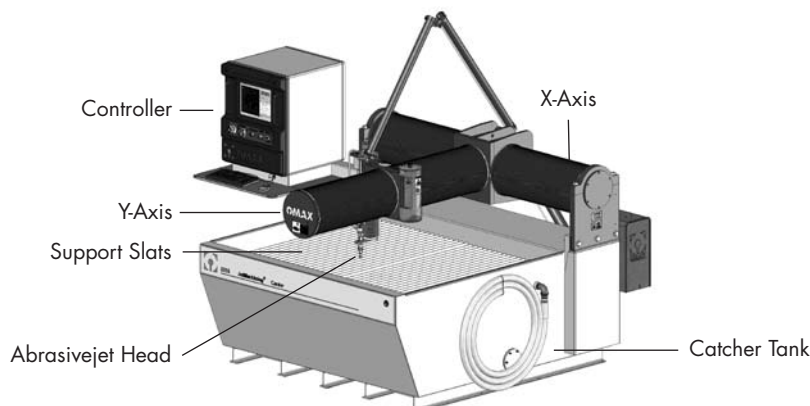
- Machines a wide range of materials and thicknesses.
- Does not create heat affected zones or mechanical stresses.
- Rapid setup, no tool changes are required.
- Minimal fixturing required.
- Leaves behind a satin smooth edge, reducing secondary operations.
- No noxious gases, liquids, or oils are used in (or caused by) the machining process.
- Completes most work below 80 dBA for submerged cutting.

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



OMAX 5555 JetMachining Center



Optional Accessories

- 600 lb abrasive delivery system
- Precision Optical Locator
- Solids Removal System (SRS)
- Water-only MAXJET 5 for cutting soft materials
- OMAX MAXJET 5 MiniJet Nozzle Assembly
- Waterjet Brick for cutting thin materials
- Tilt-A-Jet® for taper-free parts
- Weir Tank
- Z-Axis Drill
- Manual Tilt Z
- Terrain Follower

Machine Dimensions

Footprint	131" x 95"	(3327 mm x 2413 mm)
Weight	6291 lb	(2854 kg)
Height	118"	(2998 mm)
Operating Weight (with water in tank)	13,000 lb	(5897 kg)

Work Envelope

X-Y Travel	55" x 55"	(1397 mm x 1397 mm)
Table Size	80" x 65"	(2032 mm x 1650 mm)
Material Supported Slats Maximum Supported	4" x 1/8" Galvanized Steel	
Material Load	250lbs/sq.ft.	(1,200 kg/sq. meter)

(Optional accessories may reduce travel. Contact OMAX for information.)

Computer Control System

Hardware	Personal computer
Control Software	Integrated CAD/CAM system directly uses .DXF files

Drive Description

- Closed loop, digital drives
- Brushless servo motors
- Pre-loaded ball screws, recirculating balls
- Linear bearings with hardened, precision ground ways
- Cantilever Y-Axis on bridge X-Axis

Accuracy of Motion at 70° F

Ball Bar Circularity (Over 12") At Max. Traverse Velocity	±0.003"	(±0.08 mm)
Repeatability	±0.002"	(±0.051 mm)
Squareness	0.002" per ft	(0.17 mm/m)
Straightness	0.003" per ft	(0.25 mm/m)
Backlash	0.0007" max.	(0.018 mm)

Speed

- 180 inches per minute standard (4572 mm/min)

Electrical Requirements

- 440-500 VAC, 60 Hz/3-Phase
 - 208-230 VAC, 60 Hz/3-Phase (step-up transformer available as an option)
 - International CE: 220-240 VAC, 50 Hz/Single-Phase
- (Note: Contact OMAX for detailed utility requirements. Pumps are built to meet UL and CE specifications.)*

Pump Options

- 30 horsepower optional; 50,000 psi (3500 bar)
- 40 horsepower optional; 55,000 psi (3850 bar)

Noise Level

- Below 80 dBA for submerged cutting

Note: Specifications subject to change without notice.

About OMAX

OMAX has the industry leading patented abrasivejet controller with a built-in expert system. The OMAX Software makes it easy to machine precision parts as fast as possible at the lowest cost.

JetMachining is ideal for short-run part production, just-in-time manufacturing, tooling, and prototype part development. It requires no tool changes or complex fixturing, so you can reduce setup times by at least 50%.

For more information on what other OMAX products and accessories can do for you, call us today at 800-838-0343 or visit our website at www.oxam.com.



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