



PRECISION ABRASIVE WATERJET SYSTEMS

Equipment Specifications

60120



Standard Features

- X-Y table with Motorized Z-Axis.
- Durable abrasive feed system with precision OMAX MAXJET® 5 Nozzle Assembly.
- OMAX patented motion control system incorporating Windows® XP software.
- Steel covers protect X-Axis components.
- Rapid water level control for submerged cutting.
- Ultra high pressure direct drive pump.
- Shipped as a complete tested assembly from factory.

Abrasivejet Benefits

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

OMAX® 60120 JetMachining® Center

Large scale precision machining: For larger parts or multiple parts from large stock up to 5' x 10' (1.5m x 3m).

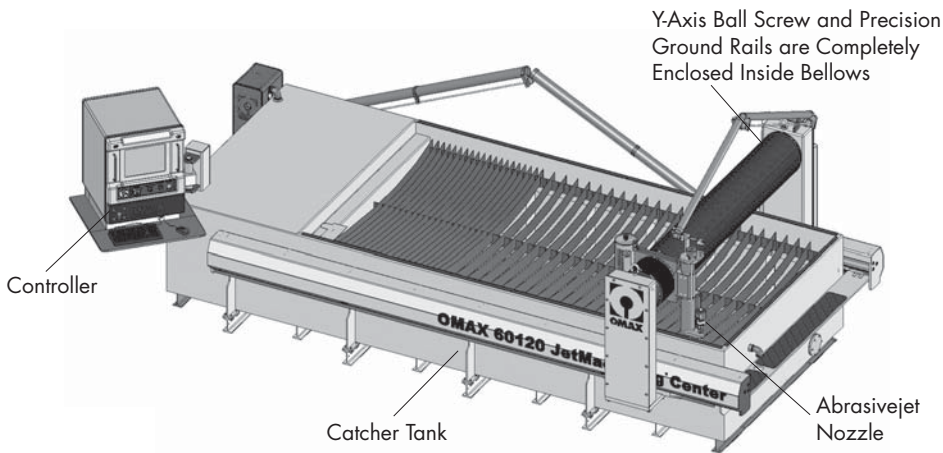
This model 60120 JetMachining Center cuts complex flat parts out of most materials including metal, plastic, glass, ceramics, stone and composites directly from a CAD drawing or .DXF file. Extremely hard, reflective and nonconductive materials can also be cut, making it a valuable addition to existing shop capabilities. No tool changes or complex fixturing dramatically reduces setup times and the smooth finish often eliminates the need for secondary machining.

60120

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



OMAX 60120 JetMachining Center



Options

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

Machine Dimensions

Footprint	225" x 110"	(5715 mm x 2794 mm)
Weight (tank empty)	6200 lbs	(2818 kg)
Height	115"	(2921 mm)
Operating Weight	23,200 lbs	(10545 kg)

Work Envelope

X-Y Travel	126" x 62"	(3200 mm x 1575 mm)
Table Size	144" x 77"	(3656 mm x 1956 mm)
Material Support Slats	4" x 1/8" Galvanized Steel	

Maximum Supported

Material Load	250 lbs/sq. ft.	(1,200 kg/sq. meter)
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(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 ballscrew with recirculating ball bearings and hardened precision ground ways in Y-Axis
- Bridge style Y-Axis
- Traction drive with linear encoder in X-Axis
- Motor controlled precision Z-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 foot	(0.17 mm/m)
Straightness	0.003" per foot	(0.25 mm/m)
Backlash	0.0007" max	(0.018 mm)

Speed

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

Electrical Requirements

- 3-Phase, 380-480 VAC ±10%, 50-60 Hz
- (Note: Contact OMAX for detailed utility requirements. Pumps are built to meet UL and CE specifications.)*

Pump Options

- 30 horsepower, 50,000 psi (3500 bar)
- 40 horsepower, 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.omax.com.



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