



## OMAX® 120X/S JetMachining® Center

### Machine Dimensions

<b>Footprint</b> (with controller)	260" x 207"	(6,604 mm x 5,258 mm)
<b>Weight</b> (tank empty)	12,000 lbs	(5,443 kg)
<b>Height</b> (with scissor plumbing)	168"	(4,267 mm)
<b>Operating Weight</b>	48,630 lbs	(22,060 kg)

### Work Envelope

<b>X-Y Cutting Travel</b>	160" x 120"	(4,064 mm x 3,048 mm)
<b>Table Size</b>	182" x 137"	(4,623 mm x 3,480 mm)

## OMAX 120X JetMachining Center

### Machine Dimensions

<b>Footprint</b> (with controller)	340" x 207"	(8,636 mm x 5,258 mm)
<b>Weight</b> (tank empty)	15,000 lbs	(6,803 kg)
<b>Height</b> (with scissor plumbing)	168"	(4,267 mm)
<b>Operating Weight</b>	61,000 lbs	(27,669 kg)

### Work Envelope

<b>X-Y Cutting Travel</b>	240" x 120"	(6,096 mm x 3,048 mm)
<b>Table Size</b>	259" x 137"	(6,579 mm x 3,480 mm)

## OMAX 120X-1 JetMachining Center

### Machine Dimensions

<b>Footprint</b> (with controller)	420" x 230"	(10,668 mm x 5,842 mm)
<b>Weight</b> (tank empty)	20,000 lbs	(9,072 kg)
<b>Height</b> (with scissor plumbing)	168"	(4,267 mm)
<b>Operating Weight</b>	81,897 lbs	(37,148 kg)

### Work Envelope

<b>X-Y Cutting Travel</b>	320" x 120"	(8,128 mm x 3,048 mm)
<b>Table Size</b>	342" x 137"	(8,687 mm x 3,480 mm)

## OMAX 120X-2 JetMachining Center

### Machine Dimensions

<b>Footprint</b> (with controller)	500" x 230"	(12,700 mm x 5,842 mm)
<b>Weight</b> (tank empty)	25,000 lbs	(11,340 kg)
<b>Height</b> (with scissor plumbing)	168"	(4,267 mm)
<b>Operating Weight</b>	99,528 lbs	(45,145 kg)

### Work Envelope

<b>X-Y Cutting Travel</b>	400" x 120"	(10,160 mm x 3,048 mm)
<b>Table Size</b>	422" x 137"	(10,719 mm x 3,480 mm)

### Standard Features

- OMAX Intelli-MAX® software offers higher average cutting speeds and greater precision with free upgrades for the life of the machine
- Programmable Motorized Z-Axis with precision OMAX MAXJET®5i Nozzle Assembly
- Intelli-TRAX® traction drive system and linear encoder completely enclosed inside covers on both the X and Y-axis
- Scissor-style hard plumbing
- Component protection against water, dirt, and grit
- High efficiency direct drive pump systems available in 30, 40, 50, 60, 70, and 80 hp with pressures up to 55,000 psi and 60,000 psi
- Rapid Water Level Control for quiet and clean submerged cutting
- Bulk Abrasive Feed Assembly transports garnet from the assembly's large hopper into the small hopper located at the Z-axis
- Variable Speed SRS (VS-SRS) designed for tough industrial use (available as an option)
- Tilt-A-Jet® taper compensating abrasivejet cutting head (available as an option)
- Shipped as a completely pre-assembled and factory-tested system

### 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, reducing secondary operations
- No noxious gases, liquids or oils used in (or caused by) the machining process
- Completes most work below 80 dBA at 1 meter for submerged cutting
- Environmentally "green" system with quiet and clean operation, low electrical and abrasive consumption

For additional OMAX 120X Models with increased capacity, see reverse side.

Connect and follow OMAX for the latest news in waterjet technology.



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

# 120X Series

# OMAX 120X Series JetMachining Centers

## OMAX 120X-3 JetMachining Center

### Machine Dimensions

<b>Footprint</b> (with controller)	585" x 230"	(14,859 mm x 5,842 mm)
<b>Weight</b> (tank empty)	30,000 lbs	(13,607 kg)
<b>Height</b> (with scissor plumbing)	168"	(4,267 mm)
<b>Operating Weight</b>	117,160 lbs	(53,142 kg)

### Work Envelope

<b>X-Y Cutting Travel</b>	480" x 120"	(12,192 mm x 3,048 mm)
<b>Table Size</b>	502" x 137"	(12,751 mm x 3,480 mm)

## OMAX 120X-4 JetMachining Center

### Machine Dimensions

<b>Footprint</b> (with controller)	665" x 230"	(16,891 mm x 5,842 mm)
<b>Weight</b> (tank empty)	35,000 lbs	(15,876 kg)
<b>Height</b> (with scissor plumbing)	168"	(4,267 mm)
<b>Operating Weight</b>	134,800 lbs	(61,144 kg)

### Work Envelope

<b>X-Y Cutting Travel</b>	560" x 120"	(14,224 mm x 3,048 mm)
<b>Table Size</b>	582" x 137"	(14,783 mm x 3,480 mm)

### Options

- EnduroMAX™ Direct Drive Pump P3060V, P4060V, or P5060V
- DualPUMP Package (dual EnduroMAX option)
- Tilt-A-Jet Cutting Head for taper compensation
- Variable Speed SRS (VS-SRS)
- Collision Sensing Terrain Follower (CSTF)
- Z-axis Drill
- Precision Optical Locator (POL)
- Water-only MAXJET 5i for cutting soft materials
- OMAX MAXJET 5i MiniJet Nozzle
- Second MAXJET 5i with Motorized Z-Axis and all necessary hard plumbing (requires second Y-axis carriage)
- Manual Tilt Z
- Stone Cutting Kit
- Weir Tank
- Tall Slit Package
- Waterjet Brick Kit
- A-Jet™
- Rotary Axis
- 2,000 lb hopper
- Laser Feature Finder
- Terrain Follower/A-Jet

### Standard Model Specifications

<b>Material Support Slats</b>	4" x 1/8" Galvanized Steel	
<b>Maximum Supported Material Load</b>	400 lbs/sq ft (1,950 kg/sq meter) <i>(Optional accessories may reduce travel. Contact OMAX for information.)</i>	
<b>Electrical Requirements</b>	3-Phase, 380-480 VAC ±10%, 50-60 Hz <i>(Note: Contact OMAX for detailed utility requirements. Pumps are built to meet UL and CE specifications.)</i>	
<b>Noise Level</b>	Below 80 dBA at 1 meter for submerged cutting	
<b>Accuracy of Motion at 70° F</b>		
Ballbar Circularity (Over 12")		
At 180 inches per minute (4,572 mm/m)	±0.005"	(±0.127 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" maximum	(0.018 mm)

### About OMAX

OMAX has the industry leading patented abrasivejet controller with a built-in expert system. Our exclusive "Compute First-Move Later" motion control system automates most programming and tool setup work, virtually eliminating the need for extensive operator training. Plus, with free OMAX Intelli-MAX® Software upgrades for the life of the machine and our ongoing commitment to advance the efficiency of our technology and software, OMAX saves you time and money.

For 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](http://www.omax.com).



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