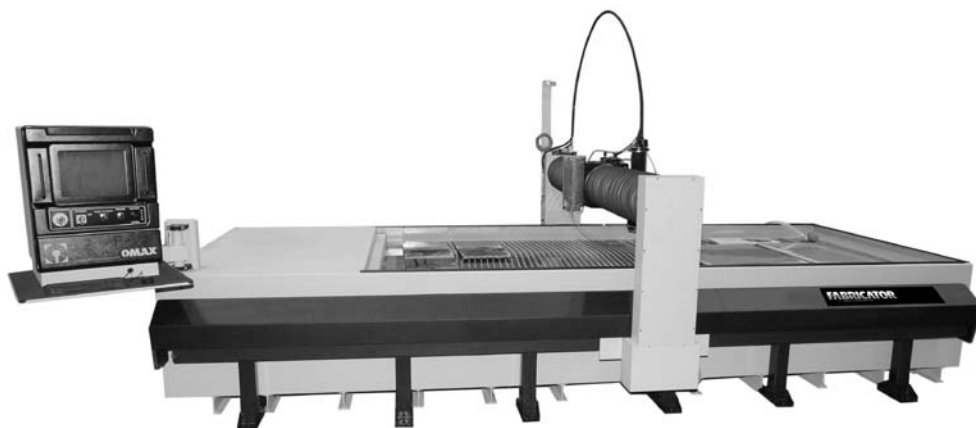




## PRECISION ABRASIVE WATERJET SYSTEMS



### FABRICATOR JetCutting Center by OMAX®

Large format abrasive waterjet cutting for stone or metal fabrication shops at a price you can afford.

Standard stone slab or plate sizes can be cut directly from a CAD drawing or .DXF file. Extremely hard, reflective and nonconductive materials can be cut, making it a valuable addition to existing shop capabilities. No tool changes or complex fixturing requirements dramatically reduces setup times and the smooth finish often eliminates the need for secondary machining.

# FABRICATOR

### Equipment Specifications

## FABRICATOR

#### Standard Features

- X-Y table with Motorized Z-Axis.
- Rapid water level control for submerged cutting
- Single OMAX MAXJET® 5 Nozzle Assembly including all necessary high-pressure plumbing.
- OMAX patented motion control system incorporating Windows® XP software.
- 600 lb. abrasive hopper.
- Black anodized aluminum covers for X-Axis components.
- Ultra-high pressure direct drive pump.
- Table cutting length expandable by two meter increments.
- Traction drive coupled with position feedback from a linear scale results in high precision.

#### 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 thus 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.

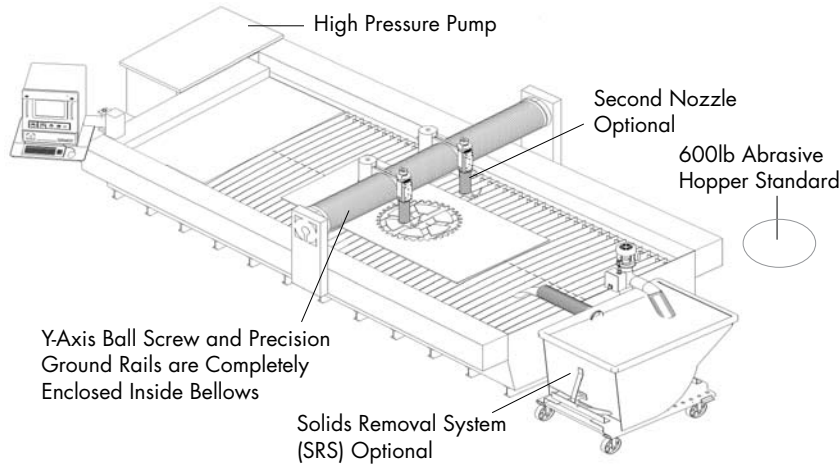
#### Options

- Precision Optical Locator
- Second MAXJET 5 with Motorized Z-Axis, and all necessary hardplumbing
- OMAX Solids Removal System (SRS)
- Tilt-A-Jet® for taper-free parts
- Water-only MAXJET 5 for cutting soft materials
- OMAX MAXJET 5 MiniJet Nozzle Assembly
- Waterjet Brick
- Weir Tank
- Z-Axis Drill
- Manual Tilt Z
- Terrain Follower
- Tall slats for elevated bed
- Two meter extensions

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



# FABRICATOR JetCutting Center by OMAX



**Table A**

**Cutting Area with Two Meter Extension Kit**

Number of 2 m Extensions	1	2	3	4
Cutting Area (in)	248	328	408	488
Cutting Area (m)	6.3	8.3	10.3	12.4

For longer lengths, contact OMAX Corporation.

**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.

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

**Machine Dimensions**

<b>Footprint</b>	243" x 134"	(6170 mm x 3405 mm)
Footprint with optional SRS	288" x 134"	(7315 mm x 3405 mm)
Expandable length 2 m increments		
<b>Weight (tank empty)</b>	10,000 lbs	(4500 kg)
<b>Height</b>	144"	(3660 mm)
<b>Operating Weight</b>	35,000 lbs	(15900 kg)

**Work Envelope**

(Standard configuration)(See Table A for Extension Kits)

<b>Y Travel</b>	80"	(2032 mm)
<b>X Travel</b>	168"	(4267 mm)
Expandable	Contact local Distributor for details	
<b>Table Size</b>	174" x 91"	(4419 mm x 2311 mm)
<b>Material Support Slats</b>	4" x 1/8" Galvanized Steel	
<b>Maximum Supported Material Load</b>	250 lbs/sq. ft.	(1,200 kg/sq. meter)

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

**Computer Control System**

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

**Drive Description**

- Closed loop, digital drives
- Brushless servo motors
- Pre-loaded ballscrews with recirculating ball bearings and hardened precision ground ways in Y-Axis
- Traction drive with linear encoder in X-Axis
- Bridge style Y-Axis plus optional second cutting head with adjustable Y-spacing
- Full Y-Axis travel for single-head operation
- Motor controlled precision Z-Axis

**Accuracy of Motion at 70° F**

<b>Ball Bar Circularity (Over 12")</b>		
<b>At Cutting Speed</b>	±0.005"	(±0.13 mm)
<b>Repeatability</b>	±0.005"	(±0.13 mm)

**Speed**

- 180 inches per minute standard (Speed can be increased if desired.)

**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
- 40 horsepower, 55,000 psi

**Noise Level**

- Below 80 dBA for submerged cutting

Note: Specifications subject to change without notice.



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