



PRECISION ABRASIVE WATERJET SYSTEMS

Equipment Specifications

2652



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
- Precision X-Y axis rigidly mounted to the cutting table
- Pre-loaded linear bearings and precision ball screws
- Component protection against water, dirt, and grit
- High efficiency direct drive pump systems available in 30, 40, 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
- Solids Removal System (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

OMAX® 2652 JetMachining® Center

Quick turnaround for the general machine shop:
Precision machining of small to medium-sized parts.

The Model 2652 JetMachining Center cuts complex flat parts out of most materials including metal, plastic, glass, ceramics and composites directly from a CAD drawing or DXF file.

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

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



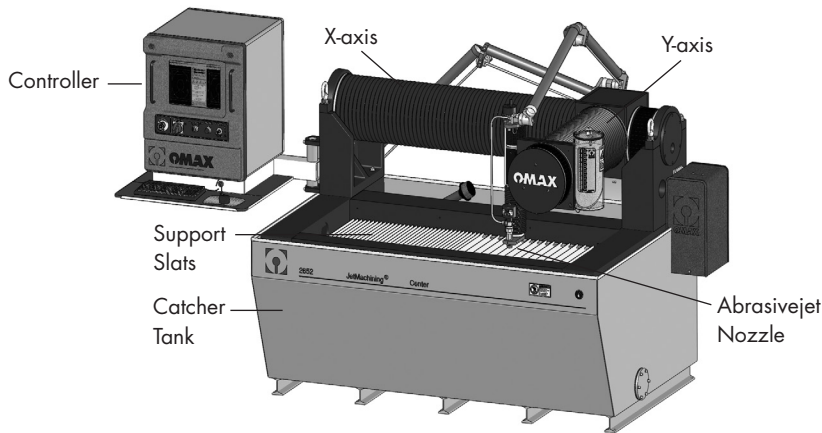
Connect and follow OMAX for the latest news in waterjet technology.



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

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OMAX 2652 JetMachining Center



Machine Dimensions

Footprint (with controller)	139" x 67"	(3,531 mm x 1,702 mm)
Weight (tank empty)	3,320 lb	(1,505 kg)
Height (with scissor plumbing)	95"	(2,413 mm)
Operating Weight (with water in tank)	9,150 lb	(4,150 kg)

Work Envelope

X-Y Travel	52" x 26"	(1,321 mm x 660 mm)
Table Size	69" x 30"	(1,753 mm x 762 mm)
Material Supported Slats	4" x 1/8" Galvanized Steel	
Maximum Supported Material Load	400 lbs/sq ft	(1,950 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

Ballbar Circularity (Over 12")		
At Max. Traverse Velocity	±0.003"	(0.08 mm)
Repeatability	±0.0013"	(0.033 mm)
Squareness	0.0013" per ft	(0.11 mm/m)
Straightness	0.0017" per ft	(0.14 mm/m)
Backlash	0.0007" maximum	(0.018 mm)

(Specifications per National Machine Tool Builders Association standard)

Speed

- 180 inches per minute standard (4,572 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; 55,000 psi (3,850 bar)
- 40 horsepower; 55,000 psi (3,850 bar)
- DualPUMP Package (redundant 30 hp, 40 hp, or dual EnduroMAX option)
- EnduroMAX Direct Drive Pump P3060V, P4060V, or P5060V (delivers 60,000 psi)

Noise Level

- Below 80 dBA at 1 meter for submerged cutting

Optional Accessories

- EnduroMAX™ Direct Drive Pump P3060V, P4060V, or P5060V
- DualPUMP Package (redundant 30 hp, 40 hp, or dual EnduroMAX option)
- Tilt-A-Jet Cutting Head for taper compensation
- Solids Removal System (SRS)
- Z-axis Drill
- Precision Optical Locator (POL)
- Bulk Abrasive Delivery System
- Water-only MAXJET 5 for cutting soft materials
- OMAX MAXJET 5 MiniJet Nozzle Assembly
- Manual Tilt Z
- Stone Cutting Kit
- Weir Tank
- Waterjet Brick Kit
- Catcher Tank Armor Plating
- Stainless Steel Tank Cover Kit
- Splash Shield
- Material Holding Kit
- Collision Sensing Terrain Follower (CSTF)
- Laser Feature Finder

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.



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