OMAX 55100 JetMachining Center

With over a decade in operation, the OMAX 55100 JetMachining® Center is the industry standard workhorse for high speed precision machining. From prototyping to full scale manufacturing, the 55100 can cut materials up to 4’ x 8’ quickly and efficiently. The simple programming takes DXF or CAD drawings and quickly creates cutting paths, making the 55100 ideal for short-run part production and just-in-time manufacturing. From small job shops to large production facilities, the 55100 JetMachining Center reduces cutting times and increases profitability.

FEATURES & BENEFITS

• Fastest cutting speeds and best precision compared to any abrasivejet in the industry and is backed by our exclusive IntelliMAX® Software with real world cutting data
• Programmable Motorized Z-Axis with a precision MAXJET® 5i Nozzle Assembly can boost cutting productivity and process efficiency
• TiltAJet® taper compensating abrasivejet cutting head (available as an option)
• Precision X-Y Axis rigidly mounted to the cutting table
• Pre-loaded linear bearings and precision ball screws
• Low maintenance, high reliability scissor-style hard plumbing
• Drive system sealed against water, dirt, and grit
• High efficiency Generation 4 EnduroMAX® pump systems available in 30, 40, or 50 hp with operating efficiencies up to 85%
• Rapid Water Level Control for quiet and clean submerged cutting
• Bulk Abrasive Delivery System transports garnet from the assembly’s large hopper into the Zero Downtime Hopper located on the Z-Axis
• Optional Variable Speed Solids Removal System (VS-SRS) designed for tough industrial use increases uptime through automated solids removal
• Machines a wide range of materials and thicknesses, from metals and composites to glass and plastics
• Does not create heat-affected zones or mechanical stresses
• No tool changes and minimal fixturing reduces setup by 50% or more
• No additional water required for pump cooling
• Small, efficient footprint for minimal floorspace utilization
• Leaves behind a satin-smooth edge, reducing secondary operations
• No noxious gases, liquid and oils used in, or caused by, the machining process
• EnduroMAX pump technology delivers the highest nozzle horsepower in the industry for faster and more efficient cutting
• Completes most work below 80 dBA at one meter for submerged cutting
• Environmentally “green” system with quiet and clean operation with low electrical consumption
• Highly robust and reliable pump design capable of over 1000 hours between maintenance
• Shipped as a completely pre-assembled and factory-tested system

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

Specifications subject to change without notice.
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STANDARD MODEL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
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<tbody>
<tr>
<td>Material Support Slats</td>
<td>4” x 1/8” Galvanized Steel</td>
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<tr>
<td>Maximum Supported Material Load</td>
<td>400 lbs/sq ft (1,953 kg/sq meter)</td>
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<td>Electrical Requirements</td>
<td>3-Phase, 380-480 VAC ±10%, 50-60 Hz</td>
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<tr>
<td>Noise Level</td>
<td>Below 80 dBA at one meter for submerged cutting</td>
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<tr>
<td>Speed</td>
<td>180 in/min (4.57 m/min)</td>
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<tr>
<td>Linear Axis Accuracy*</td>
<td>±0.001” (±0.025 mm)</td>
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<tr>
<td>Linear Axis Repeatability*</td>
<td>±0.001” (±0.025 mm)</td>
</tr>
<tr>
<td>Ballbar Circularity*</td>
<td>±0.0025” (±0.064 mm)</td>
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OPTIONAL ACCESSORIES

- Tilt-A-Jet Cutting Head for taper compensation
- Variable Speed SRS (VS-SRS)
- Collision Sensing Terrain Follower (with Tilt-A-Jet only)
- Z-Axis Drill
- Precision Optical Locator (POL)
- Rotary Axis
- Water-only MAXJET 5 for cutting soft materials
- OMAX Mini MAXJET 5i Nozzle Assembly
- Manual Tilt Z
- Stone Cutting Kit
- Laminar Filter
- Waterjet Brick Kit
- Catcher Tank Armor Plating
- Stainless Steel Tank Cover Kit
- Material Holding Kit
- Laser Feature Finder

*Optional accessories may reduce cutting travel. Photos may show optional accessories. For a complete list of accessories, contact an OMAX sales representative. Accuracy specifications are at 72° F (22° C). Pumps are built to meet UL and CE specifications. Contact OMAX for detailed utility requirements.

ABOUT OMAX

OMAX is the global total solutions provider in advanced abrasive waterjet systems. Our intuitive Intelli-MAX Software Suite simplifies programming and reduces setup times, increasing your productivity. OMAX engineers continue to innovate technology for waterjet machining, from proven 4th generation pump designs to cutting edge drive systems with micron-level accuracy. With the largest abrasive waterjet support network in the world, OMAX continues to shape the future of waterjets.

To see how an OMAX JetMachining Center can save you time and money, call or visit our website and request a free part analysis today.