OMAX Corporation

ADVANCED ABRASIVE WATERJET SYSTEMS

1530

MAXIEM 1530 JetMachining Center

The next generation MAXIEM® 1530 JetMachining® Center sets a higher standard for abrasive waterjet machining. Faster, smoother, and more precise, the MAXIEM 1530 is ideal for a wide range of modern machining needs. The exclusive advanced Intelli-*TRAX*® digital linear encoder provides one-micron resolution instant feedback to the motor control system so the machine knows precisely where the cutting head is at all times. The mobile control station with widescreen display provides flexibility in controller positioning. Optional accessories such as the A-Jet® for 5-axis cutting and taper compensation, Rapid Water Level Control for submerged cutting, and Collision Sensing Terrain Follower for machining irregular surfaces expand your JetMachining capabilities and dramatically improve production.

FEATURES & BENEFITS

- Fast cutting speeds and high precision that is backed by our exclusive Intelli-MAX® Software with real world cutting data
- Programmable Motorized Z-Axis with a precision OMAX MAXJET®5i Nozzle boosts productivity and process efficiency
- Drive system protected against water, dirt, and grit
- Powerful all-in-one controller computer with large 23" screen
- Highly efficient, industry-proven direct drive pumps available up to 40 hp with operating efficiencies up to 85%
- Free Intelli-VISOR® SE System Monitoring simplifies routine maintenance planning to minimize downtime
- Optional Rapid Water Level Control for quiet submerged cutting
- Optional Bulk Abrasive Feed Assembly transports garnet from the assembly's large hopper into the Zero Downtime Hopper located at the Programmable Motorized Z-Axis
- Optional Variable Speed Solids Removal System (VS-SRS) designed for industrial use increases uptime through automated solids removal
- Factory tested as a complete system before shipping
- Machines a wide range of materials and thicknesses, from metals and composites to glass and plastics
- Designed and manufactured at the OMAX factory in Kent, Washington, USA
- Does not create heat-affected zones or mechanical stresses
- No tool changes & minimal fixturing dramatically reduce setup
- Convenient controller storage drawers keep essential tools and spares close by to maintain machine uptime
- Uses substantially less cooling water than inefficient hydraulic intensifier pumps
- Small, efficient footprint for minimal floor space utilization
- Lowest electrical consumption compared to other pump technology
- Leaves behind a satin-smooth edge, reducing secondary operations
- No noxious fumes, liquid or oils used in, or caused by, the machining process
- Environmentally "green" system uses only natural garnet abrasive and water in the cutting process

MAXIEM® BUILT BY OMAX

MADE IN THE USA

Specifications subject to change without notice.
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MACHINE DIMENSIONS

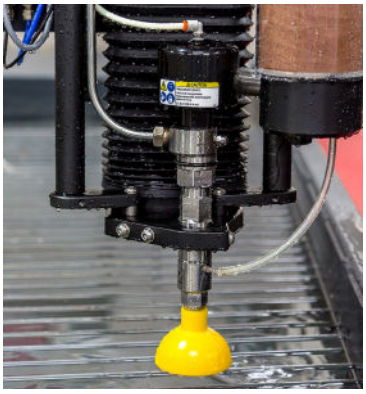
Footprint (standard layout)	18'5" x 13'7" (5.61 m x 4.14 m)
Weight (tank empty)	7,000 lb (3,175 kg)
Height (with standard plumbing)	10'6" (3.20 m)
Operating Weight (with water in tank)	19,990 lb (9,067 kg)

WORK ENVELOPE

X-Y Cutting Travel*	10'0" x 5'2" (3.04 m x 1.57 m)
Z-Axis Travel*	12" (304 mm)
Table Size*	12'2" x 5'8" (3.71 m x 1.73 m)

DRIVE DESCRIPTION

- Brushless servo motors
- Stainless steel hardened precision ground shaft ways
- Real-time closed loop feedback with digital drives
- Bridge-style Y-Axis
- Intelli-*TRAX* drive technology with precision linear encoders
- Precision Programmable Motorized Z-Axis



STANDARD MODEL SPECIFICATIONS

Material Support Slats*	4" x 14Ga Galvanized Steel (102 mm x 2 mm)
Maximum Supported Material Load	300 lbs/sq ft (1,465 kg/sq meter)
Electrical Requirements	3-Phase, 380-480 VAC ±10%, 50-60 Hz
Speed	500 in/min (12.70 m/min)
Linear Axis Accuracy*	±0.003" (±0.076 mm)
Linear Axis Repeatability*	±0.001" (±0.025 mm)
Ballbar Circularity*	±0.005" (±0.127 mm)

OPTIONAL ACCESSORIES

- A-Jet 5-Axis Cutting Head with Smart Taper Control
- Rapid Water Level Control for submerged cutting
- Intelli-VISOR EX Monitoring Expansion Package
- OMAX Mini MAXJET 5i Nozzle
- 7/15 Mini MAXJET5 Nozzle
- Bulk Abrasive Delivery Assembly
- Terrain Follower/A-Jet
- Collision Sensing Terrain Follower
- Manual Tilt Z-Axis
- Material Holding Kit
- Waterjet Brick Kit
- High Pressure Universal Swivel Plumbing
- Air and Water Conditioning Kit
- Additional Seats of Intelli-MAX Software Suite
- Variable Speed Solids Removal System (VS-SRS)
- Water-only MAXJET 5 Nozzle
- Laser Feature Finder
- Z-Axis Pneumatic Drill
- Splash Shield Kit
- Water Resistant Keyboard and Mouse
- Access Control Circuit Interface for safety interlocks
- Catcher Tank Armor Plating
- Extended Slat Package
- Laminar Filter
- Bridge-mounted Pause Button and USB Port
- Water Recycling System

*Optional accessories may reduce cutting travel. Photos may show optional accessories. For a complete list of accessories, contact an OMAX sales representative. Total installed material support slats vary according to machine size. 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 abrasive 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 a MAXIEM JetMachining Center can save you time and money, call or visit our website and request a free part analysis today.

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UL 508A, CAN/CSA C22.2 No. 14, CAN/CSA C22.2 No. 73
ISO 9001:2015 Certified

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