



**OMAX®**

A Hypertherm Associates Brand

# Rotary Axis



The Rotary Axis is a robust, water resistant submersible rotary head that allows the abrasive waterjet to cut 6-axis paths to create complex 3D shapes in tube, pipe, and bar stock. Constant rotational control allows for continuous cutting around a shape. Advanced software features in the IntelliMAX® Software Suite grant the ability to cut complex shapes and angles when used in conjunction with the VersaJET® articulated cutting head. Precision indexed rotations offer accurate cutting of multi-faceted shapes and other geometric-shaped materials. The Rotary Axis can be mounted on any OMAX JetMachining Center® or OptiMAX® JetMachining Center, significantly expanding the cutting capabilities.



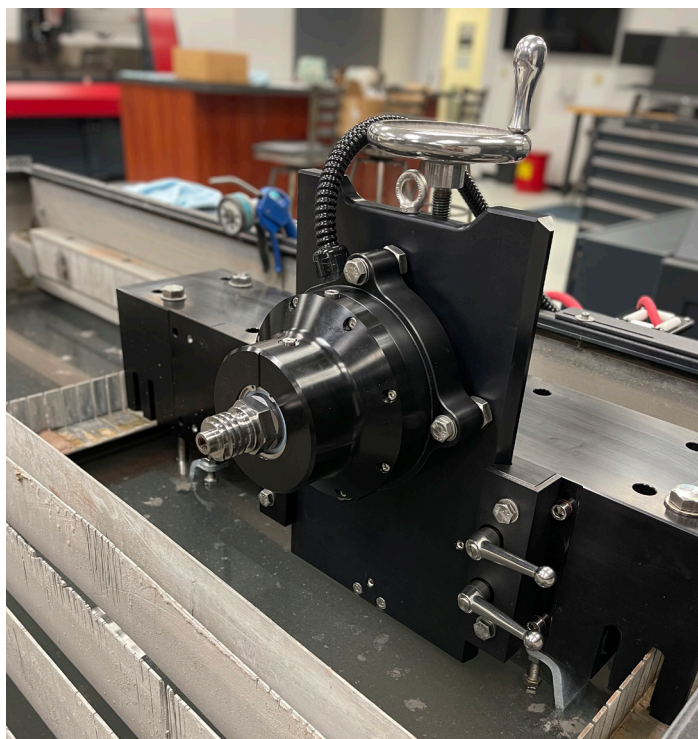
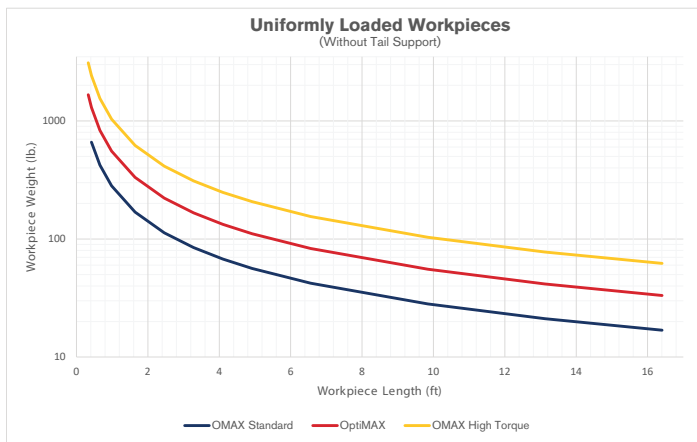
The Rotary Axis can handle small and large diameter tube and pipe with high precision, as well as nonmetal tubing.

## Features & benefits

- Submersible rotary head
- Easy maintenance with external grease fittings
- Built-in water intrusion sensor
- Incremental or coordinated continuous rotation
- Rapid height adjustment wheel
- Provides the ability for submerged cutting, leading to a cleaner and quieter process
- Robust standard ACME and metric threads allow customers to adapt custom work holding fixtures
- Multiple collet and chuck options for internal and external workpiece mounting, up to 24" in diameter
- Can be located at various positions on the table, permitting sheet cutting and rotary cutting without removing the rotary head
- Combines precision of abrasive waterjet and rotary head technologies
- Provides more design capabilities
- No heat-affected zones when cutting metal materials
- Optional tail support for long workpieces

## Specifications

	OMAX Standard Torque	OMAX High Torque	OptiMAX
Axis used	TY	TY	TY2
Angular resolution	0.02°	0.01°	0.01°
Maximum radial load	660 lb (2.94 kN)	3,300 lb (14.70 kN)	1,100 lb (4.90 kN)
Maximum moment load	138 lb-ft (188 Nm)	508 lb-ft (690 Nm)	272 lb-ft (370 Nm)
Maximum torque	28 ft-lb (39 Nm)	508 ft-lb (690 Nm)	190 ft-lb (260 Nm)
Voltage	No additional utility requirements	230 VAC	110-120/240 VAC
Full load amps	No additional utility requirements	13 FLA	6/3 FLA



When used with the VersaJET, fishmouth intersections, saddle cuts, and countersunk holes can be cut along the circumference of pipes.

## World-class service, support and innovation for advanced abrasive waterjet systems

OMAX, part of Hypertherm Associates, sets the standard for service and support in the waterjet machine tool industry. It starts with a rigorous certification program at OMAX in Kent, Washington where OMAX direct and distributor technicians are trained to install, operate and maintain OMAX abrasive waterjet systems. 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. Customers have a number of contact options to suit their schedules and needs, including an extensive library of online resources. With the largest abrasive waterjet support network in the world, OMAX continues to shape the future of waterjets.

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

For more information, visit: [www.omas.com](http://www.omas.com)

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