



OMAX®

A Hypertherm Associates Brand

Collision Sensing Terrain Follower

The OMAX Collision Sensing Terrain Follower allows a JetMachining® Center to automatically and accurately cut parts from materials with irregular or warped surfaces without the need for special programming.

The Terrain Follower attaches directly to the machine's Z-axis. Changes in a material's height are detected and the Z-axis automatically makes the required height adjustments, maintaining the necessary cutting standoff (typically within $\pm 0.020"$). A collision detector pauses jet motion if obstructions are in the path of the nozzle.



Features & benefits

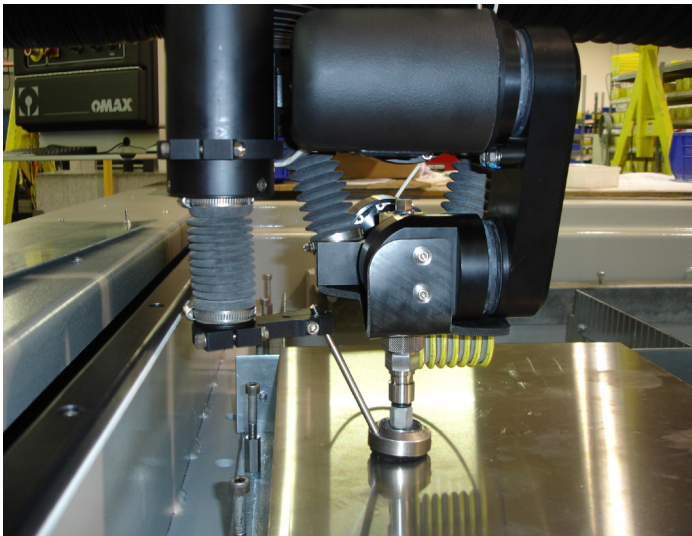
- Linear encoder senses changes in material height during cutting operations
- A collision detector protects the nozzle and related hardware from damage.
- Built-in containment guard minimizes nozzle splash and spray during machining
- Easy field retrofit to a Motorized Z-Axis or TiltajET®
- Heavy duty liquid-tight electrical fitting with spring-type strain relief
- O-ring seal bulk-head air fittings with protective boots
- Adjusts automatically to uneven surfaces; reduces need for additional programming
- Electrical connections armored for durability
- Robust sealing to withstand the abrasive waterjet environment
- Automatically maintains the correct nozzle standoff throughout the cutting process
- Constantly senses necessary height adjustments when activated, unlike other contour following products on the market
- Reduces potential equipment damage from nozzle collisions
- Simple setup and operation
- No special programming required
- No requirement to map the elevation of your material—simply move the nozzle to where you want to begin cutting and push start
- No matter where you are located in the world, you'll receive effective technical support to ensure your CSTF is operating at its highest levels. With hundreds of active units in the field, our technicians are strategically located to meet customer needs

Best Applications

- Great for large sheets of nested parts
- Great for materials that stress relieve while cutting
- Ideal for cutting large parts on uneven or warped sheets
- Assists in cutting hard, smooth, or non-cosmetic surfaces

Improvements

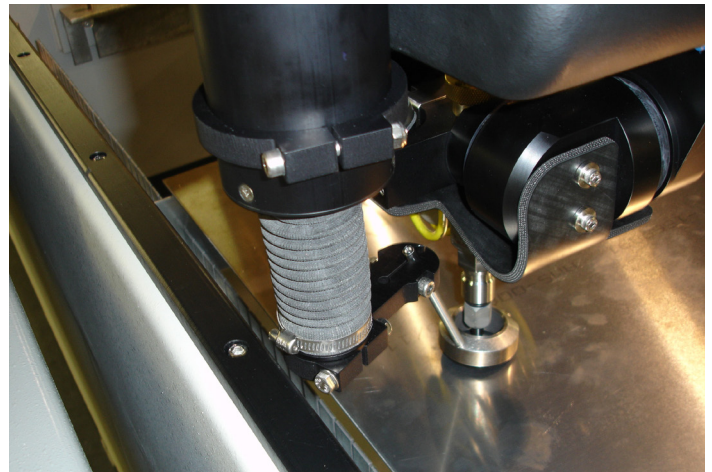
- Offers a more robust sensing mechanism
- Equipped with more stable sensor mounting
- Auto-disables during machine shutdown
- Foot is more rigid and easily removed without tools



Requirements

- Microsoft Windows®: contact OMAX Customer Service for information if you are running DOS
- Motorized Z-Axis or TiltAJET
- OMAX Software version 11 or greater

May experience reduction in travel with OMAX Models 55100, 5555, 2652, and 2626. Contact OMAX for more information



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.



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

For more information, visit: www.omas.com

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