

Mach 500



Make more.

Mach 500 is more than a waterjet – it is a total solution. Unmatched technology and support delivers the ultimate in uptime and productivity. Cut more parts with unrivaled accuracy, elevating your production & performance levels.

BENEFITS

- Ultimate uptime and productivity
- Quickest system in abrasive waterjet
- Highly accurate cutting
- Premier support from the world's leading waterjet service team
- Countless options and configurations to match your needs

MORE PRODUCTIVITY

The Mach 500 combines modern architecture with state-of-the-art cutting technology. Smooth motion and accurate drive systems deliver fast part production. Programming is quick and easy with FlowXpert® 2016, intelligent model-based CAD/CAM software.

MORE RELIABILITY

A powerful solution from the inside out with industry leading digital servo drives, absolute encoders, and distributed drive technology; paired with Flow ultrahigh-pressure technology. All steel construction, durable through even the most rigorous use.

MORE SUPPORT

Delivering more productivity and more reliability requires world class support. Certified Flow technicians, preventative maintenance plans, high pressure exchange programs, on-time parts delivery, support & comprehensive training are all included.

Mach 500

As the world leader and inventor of waterjet, Flow is the only supplier who researches, designs, and manufactures the entire waterjet system. This unique blend of industry leading waterjet capability and customer commitment allows us to deliver an unparalleled waterjet solution, so you can make more.

Acceleration improvement of **200%**
2X improvement in repeatability
Up to **50%** increase in Z travel
over legacy systems

SPECIFICATIONS & CONFIGURATIONS

Linear Positioning Accuracy	_____	± 0.0015 in per 3 ft / ± 0.0381 mm/m
Rapid Traverse Maximum	_____	700 ipm / 17.78 m/min
Repeatability	_____	± 0.001 in / ± 0.03 mm
Z Travel	_____	12 in, 24 in / 305 mm, 610 mm
Base	_____	6 ft, 10 ft, 13 ft, 20 ft, 26 ft / 2 m, 3 m, 4 m, 6 m, 8 m
Bridge	_____	6 ft, 10 ft, 13 ft / 2 m, 3 m, 4 m
Acceleration	_____	0.1G
Ballbar Circularity	_____	± 0.0025 in / ± 0.0635 mm

ULTRAHIGH-PRESSURE PUMPS

HyPlex® Prime rated at 60,000 psi [4,150 bar]
UltraJet™ rated at 60,000 psi [4,150 bar]
HyperJet® rated at 94,000 psi [6,500 bar]

ANCILLARY OPTIONS

Roll-Around Control
Water Level Control
Paser CF-900 Continuous Feed Hopper
Compass™ 5 Axis Contour Follower
Dynamic Contour Follower™
UltraPierce™ Vacuum Assist
Abrasive Removal System
Stainless Steel Catcher Tank
Closed Loop Water System
Spray Containment Shields
Safety Light Curtains
Laser Edge Finder

SOFTWARE

FlowXpert® 3D CAD/CAM Package
FlowMaster® CAD/CAM Package
FlowCode™ G-Code Converter
FlowNest™
CATIA Compatibility Package
Raster to Vector Conversion Software

CUTTING HEAD OPTIONS

Pure Waterjet
Standard Abrasive Waterjet
Dynamic Waterjet®
Dynamic Waterjet XD®
Multiple Cutting Heads
Programmable Z-axis

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