Mach 500
Waterjet Series

Mach 500
make more.
Experience a new level of uptime and productivity with the Mach 500, your total cutting solution. Combining unmatched accuracy with the fastest acceleration in waterjet, the Mach 500 will elevate your cutting production and performance levels.

The Magic Behind the Machine

FlowXpert® Waterjet Software
Your part, fast and simple.

Fully integrated into the Mach 500, FlowXpert is a 3D modeling CAD/CAM software suite.

- Import any CAD file
- Build your own CAD file
- Create a CAD file from an image you import

Using intelligent algorithms and 40+ of waterjet expertise, FlowXpert automatically creates the most efficient waterjet cut path for you, so you can make more.

Industry Leading Pump Technology from Flow

PRESSURE = PRODUCTIVITY

The pump is the heart of your waterjet. Higher pressure delivers faster cutting and lower cost per part.

Get the fastest velocity jet stream with our Flow HyperJet® pump.

Flow offers the widest array of waterjet pumps.

Pump Pressures & Velocity

- 94K PSI 2550 mph
- 55K PSI 1665 mph
- 60K PSI 2040 mph

The higher the pressure, the more parts cut – resulting in lower cost per part.

<table>
<thead>
<tr>
<th>Pressure</th>
<th>55K</th>
<th>60K</th>
<th>94K</th>
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<td>Cost</td>
<td>$$</td>
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FlowPak

Pressures

- 94K PSI
- 60K PSI
- 55K PSI

ACCELERATE YOUR CUT

The Mach 500 is the world's quickest waterjet.

How quickly your waterjet accelerates or decelerates (not top speed) determines your cut part cycle time.

SHORTER CYCLE TIMES = INCREASED PRODUCTIVITY

20% faster than legacy systems

Get best in class acceleration on the Mach 500: 0.1 G

The result: more parts, faster. Make more.

ProTip

The speed of a waterjet will tell you how fast you can cut in a straight line, but in the real world, parts are not just straight. The ability of your waterjet to get up to speed quickly is the most important factor in determining how quickly you will end up with cut parts in your hands.

Make more with the Mach 500.
State-of-the-art Cutting Technology

From 2D to multi-axis cutting, Flow technology provides the highest accuracy, fastest cut part.

Conventional Waterjet
Uses pure water or garnet abrasive to cut virtually any soft or hard material.

Dynamic Waterjet
Up to 4x faster and more accurate cutting. Head tilts automatically eliminating stream lag and taper for flat stock cutting.

Dynamic Waterjet XD
The accuracy and speed of Dynamic Waterjet brought to the 3D world.

Complete
FlowCare Complete, our premier service partnership provides comprehensive coverage including all the benefits of our Standard and Plus programs, as well as additional exclusive advantages.

Standard
All Flow systems feature our world class service and support, standard.

Plus
With FlowCare Plus you gain comprehensive coverage and unique advantages on top of Flow’s Standard service – automatically scheduled exchange programs, consumables & abrasive, and an extended factory warranty.

Complete
FlowCare Complete, our premier service partnership provides comprehensive coverage including all the benefits of our Standard and Plus programs, as well as additional exclusive advantages.

Linear Straightness Accuracy
± 0.0381 mm/m

Rapid Traverse Maximum
17.8 m/min

Acceleration
0.1 G

Repeatability
± 0.03 mm

Ballbar Circularity
± 0.0635 mm

Z-Axis Travel
305 mm, 610 mm

Base
2 m, 3 m, 4 m, 6 m, 8 m

Bridge
2 m, 3 m, 4 m

ANCILLARY OPTIONS & ACCESSORIES

Paser CF900 Continuous Feed Hopper
Compass™ 5 Axis Contour Follower
UltraPierce™ Vacuum Assist
Dynamic Contour Follower™
Closed Loop Water Filtration
Closed Loop Chiller
Spray Containment Shields
ProXtract™ Part Extractor
Laser Edge Finder
Abrasive Removal System
Stainless Steel Catcher Tank
Water Level Control
3 Stage Weir Tank
Work Piece Fixturing System
Dual Hopper
Dual Pumps
Rotary Indexer
Dual Zone
Dual Z-Axis
Multi Head Spreader Bar

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