



# Mach 500 make more.

# **Mach** 500: THE WORKHORSE **OF WATERJET**

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**ENGINEERED FOR** 

PRODUCTION

Industry leading drive technology for smoot motion and fast part production.

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.

More parts. More productivity. More accuracy. More reliability. Make more.

**ROBUST** 

CONSTRUCTION
All steel, 2 piece
construction, and full

environmental protection to reliably handle

Acceleration improvement of

**■** Flow

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200% 2X 50%

MODERN ARCHITECTURE Ensuring peak performance from the absolute core of the

OPERATOR

**EFFICIENCY** Designed for efficiency. featuring water level control, toe kick, and

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improvement in repeatability

increase in Z travel (over legacy systems)

**ROLL AROUND** 

Move freely around your waterjet as you operate

CONTROL

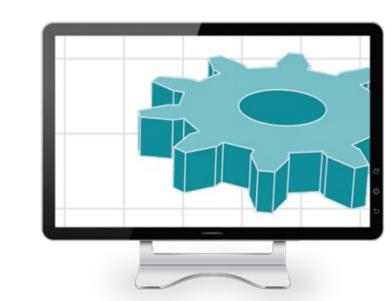
#### The Magic Behind the Machine

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.



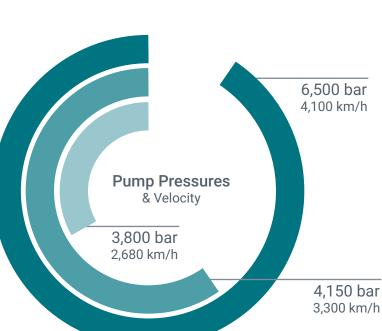
**Flow**Xpert

## **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.



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

3,800 bar 4,150 bar 6,500 bar

Flow offers the widest array

HyperJet®

HyPlex Prime®

of waterjet pumps.



## 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



**Dynamic** Waterjet®

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



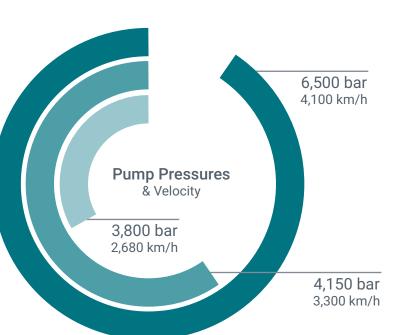
Waterjet® XD

The accuracy and speed of Dynamic Waterjet brought to



dynamic**X**o

For exceptional accuracy with Dynamic XD, add Compass (patented) – the world's first multi-axis contour follower. Get the most precise part regardless of material flatness.



#### Service

We've committed ourselves to the success of our customers for over 40 years.

As a result, nearly 1 out of every 3 systems built is delivered to repeat customers.

We are proud to provide the largest and most highly trained support team, with the experience to ensure your success.

## Spare Parts

Genuine spare parts and consumables from Flow are the most reliable way to maintain the highest possible quality of your waterjet system.

We stock more than 90% of all parts for instant delivery to ensure your production capabilities.

## 

Flow has a worldwide service network that extends across all continents.

Our factory certified technicians are waterjet enthusiasts.

Our team knows the details of your equipment inside and out, and how to keep it running night and day.

Service Matters.

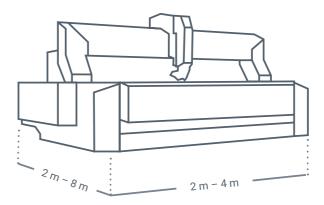
## **♦** Trainings

Flow offers a wide array of training options that match these needs.

Whether it's online, in our facility, or yours, Flow offers customized programs structured to increase your productivity and make you successful.



## Mach 500 make more.



## **SPECIFICATIONS & CONFIGURATIONS**

Linear Straightness Accuracy <sup>2</sup> ———	± 0.04 mm/m
Rapid Traverse Maximum ————	17.8 m/min
Acceleration <sup>1</sup> ———	0.1 g
Repeatability <sup>2</sup> ——•	± 0.025 mm/m
Ballbar Circularity <sup>2</sup> ———	± 0.064 mm
Z-Axis Travel ———	305 mm, 610 mm
Base (Y)	2 m, 3 m, 4 m, 6 m, 8
Bridge (X)	2 m, 3 m, 4 m

## ANCILLARY OPTIONS & ACCESSORIES

Compass™ 5 Axis Contour Follower

UltraPierce™ Vacuum Assist

Dynamic Contour Follower®

Spray Containment Shields

Laser Edge Finder

Abrasive Removal System

Stainless Steel Catcher Tank

Water Level Control

Clamping Kit

Dual Hopper

Dual Pumps

Dual Z-Axis

Multi Head Spreader Bar

#### FLOW EUROPE GMBH

Marienburgstraße 35 64297 Darmstadt, Germany Tel. +49 (0)6151 3095-0 info-germany@flowcorp.com

#### FLOW EASTERN EUROPE

Škrobárenská 14 617 00 Brno, Czech Republic Tel. +420 511 120 400 info-ee@flowcorp.com

#### FLOW FRANCE

15, rue des Frères Lumière 69680 Chassieu, France Tel. +33 (0)4 87 91 48 59 info-france@flowcorp.com

#### FLOW IBÉRICA

Pol. Ind. Cardenal Herrera Oria C/ Foronda nº6 1ªPlanta 28034 Madrid, Spain Tel. +34 91 640 73 93 info-iberica@flowcorp.com

#### FLOW ITALIA

Strada Prov. per Turbigo, 64 20010 Arluno (MI), Italy Tel. +39 02 90 37 93 83 info-italy@flowcorp.com

#### FLOW UK

Unit 3, Canton House Wheatfield Way Hinckley LE10 1YG, UK Tel. +44 (0)14 55 89 53 00 info-uk@flowcorp.com

#### FlowWaterjet.com





<sup>&</sup>lt;sup>1</sup> Systems with multi-head spreader bar(s) just 0.05 g

<sup>&</sup>lt;sup>2</sup> Systems with base (Y) 4 meters or shorter