Flow

MACH 3 WATERJET SERIES

THE WORLD’S MOST POPULAR WATERJET
PROVEN PERFORMANCE

Thousands of installations worldwide have earned our Mach 3 the title of "The World’s Most Popular Waterjet." More importantly, reliable performance, day in and day out, is what means the most to our customers, and the Mach 3 constantly delivers proven results.

CUTTING HEAD TECHNOLOGY

PURE WATERJET

Pure waterjets are ideal for cutting soft materials.

STANDARD WATERJET

Uses garnet abrasive to cut virtually any hard material.

DYNAMIC WATERJET®

Three times faster and 100% cleaner than Standard Waterjet.

DYNAMIC XD

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

UNMATCHED WATERJET AT A COMPETITIVE PRICE

THE WORLD’S MOST POPULAR WATERJET

SMARTSTREAM™ TECHNOLOGY

The physics are simple and the results are conclusive: the faster your waterjet stream moves, the faster you can cut. A faster waterjet stream also uses less abrasive.

Cut Faster | Lower Costs | Increase Production

Whether you are prototyping one-off parts or producing large quantities of parts, higher pressure will get your job done significantly faster and at a lower cost.

Dynamic XD incorporates the unique capabilities of SmartStream technology and Dynamic Waterjet for bevel cutting. This distinctive Flow technology can cut with 5-axis motion, even cutting compound angles with improved speed and accuracy. Easily cut flat stock with up to +/- 60º of motion. Test cut for safety required on all formed and 3D parts.

Our exclusive SmartStream technology uses patented complex mathematical models that automatically adjust your cutting stream based on the material parameters you choose. Simply select your material type and thickness from the library of over 100 tested and pre-programmed materials. SmartStream will calculate the correct speed and angles to provide you with a precise part at the fastest speed possible.

■ Exacting precision: +/- .0254 mm [±.001 in]

■ Up to 3x faster than standard systems

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A PUMP FOR EVERY APPLICATION

HYPERJET®

6,500 BAR [94,000 PSI]

With pressures rated at an industry leading 6,500 bar [94,000 psi] and continuous operating pressures of 6,000 bar [87,000 psi], HyperJet pumps provide maximum productivity.

INTENSIFIER

4,150 BAR [60,000 PSI]

With pressures rated at 4,150 bar [60,000 psi] and continuous operating pressures of 4,000 bar [58,000 psi], HyperJet pumps are the highest pressure pumps available today.

HYPERX PRIME

4,150 BAR [60,000 PSI]

With pressures rated at 4,150 bar [60,000 psi] and continuous operating pressures of 4,000 bar [58,000 psi], HyperJet pumps are the highest pressure pumps available today.

Flow offers the widest array of high pressure pumps. Each is fully integrated with sensor driven diagnostics that are monitored by the Mach 3 operator station.

PRESSURE = PRODUCTIVITY

Flow offers the widest array of high pressure pumps. Each is fully integrated with sensor driven diagnostics that are monitored by the Mach 3 operator station.

RUGGED MECHANICAL DESIGN

HyperJet prime has 30% more material and 125% more load bearing.

PREMIUM MOTION SYSTEM

Precision ball screw and spin-the-nut technology for highly accurate, quick movement.

ULTIMATE ACCURABILITY

Advanced feedback delivery and cutting package that precisely measures actual cut and provides perfect stream alignment.

FASTER CUTTING SYSTEM

FlexFlow™ and Flowxpert™ software suites allow you to program a part in minutes—virtually any material, any thickness.

COMPREHENSIVE SOFTWARE SUITES

Easy to use FlowMaster® and FlowXpert™ software suites allow you to program a part in minutes—virtually any material, any thickness.

ROLL-AROUND CONTROL

Converts unbalanced operating cone into easily reached optimal work envelope. All diagnostics and choice of waterjets are displayed on your PC.

MACH 3 2018a

Other additional sizes and specifications on Ask

RUGGED MECHANICAL DESIGN

Heavy-duty two piece steel construction. Laser calibrated and ball bar inspected.

PREMIUM MOTION SYSTEM

Precision ball screw with chrome nitriding and high-temperature digital drives provide highly accurate, quick movements.

ULTIMATE ACCURABILITY

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## Mach 3 Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linear Straightness Accuracy</td>
<td>.0381 mm per 1 m, .0015 in per 3 ft</td>
</tr>
<tr>
<td>Cut Speed</td>
<td>7.6 m/min, up to 300 ipm</td>
</tr>
<tr>
<td>Traverse Speed</td>
<td>12.7 m/min, up to 500 ipm</td>
</tr>
<tr>
<td>Repeatability</td>
<td>.050 mm, .002 in</td>
</tr>
<tr>
<td>Z Travel</td>
<td>178 mm, 7 in</td>
</tr>
<tr>
<td>Sizes 1313b</td>
<td>1.3 m x 1.3 m, 4 ft x 4 ft</td>
</tr>
<tr>
<td>2513b</td>
<td>2.5 m x 1.3 m, 8 ft x 4 ft</td>
</tr>
<tr>
<td>3020b</td>
<td>3 m x 2 m, 10 ft x 6.5 ft</td>
</tr>
<tr>
<td>4020b</td>
<td>4 m x 2 m, 13 ft x 6.5 ft</td>
</tr>
<tr>
<td>7320b</td>
<td>7.3 m x 2 m, 24 ft x 6.5 ft</td>
</tr>
</tbody>
</table>

### ADDITIONAL OPTIONS & ACCESSORIES

- Operator Convenience Package
- FlowTeach™ with Wireless Pendant
- HydroClean™ Abrasive Removal System
- UltraPierce™ Material Piercing Assist
- Laser Edge Finder
- FlowNest® Software
- FlowShift Vectorization Software
- High-Pressure Pump Option up to 6,500 bar [94,000 psi]
- ProXtract™ Part Removal Wand
- And More