



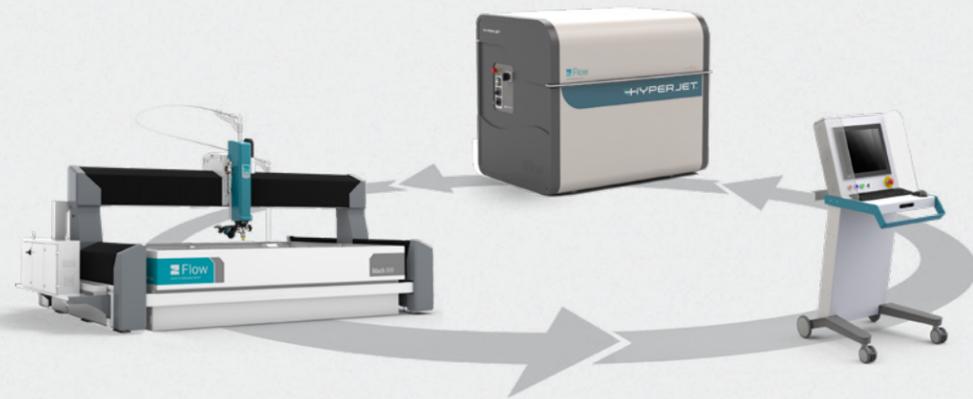
SHAPE TECHNOLOGIES GROUP®

Waterjet Cutting Technology

Flow is Waterjet

From invention, to definition, to revolution.

Since 1974, Flow has pioneered the waterjet industry, setting the standard for innovation and excellence. By continuously pushing the boundaries of what's possible, we ensure our waterjet solutions remain at the forefront of the industry, providing unmatched performance, reliability, and versatility.

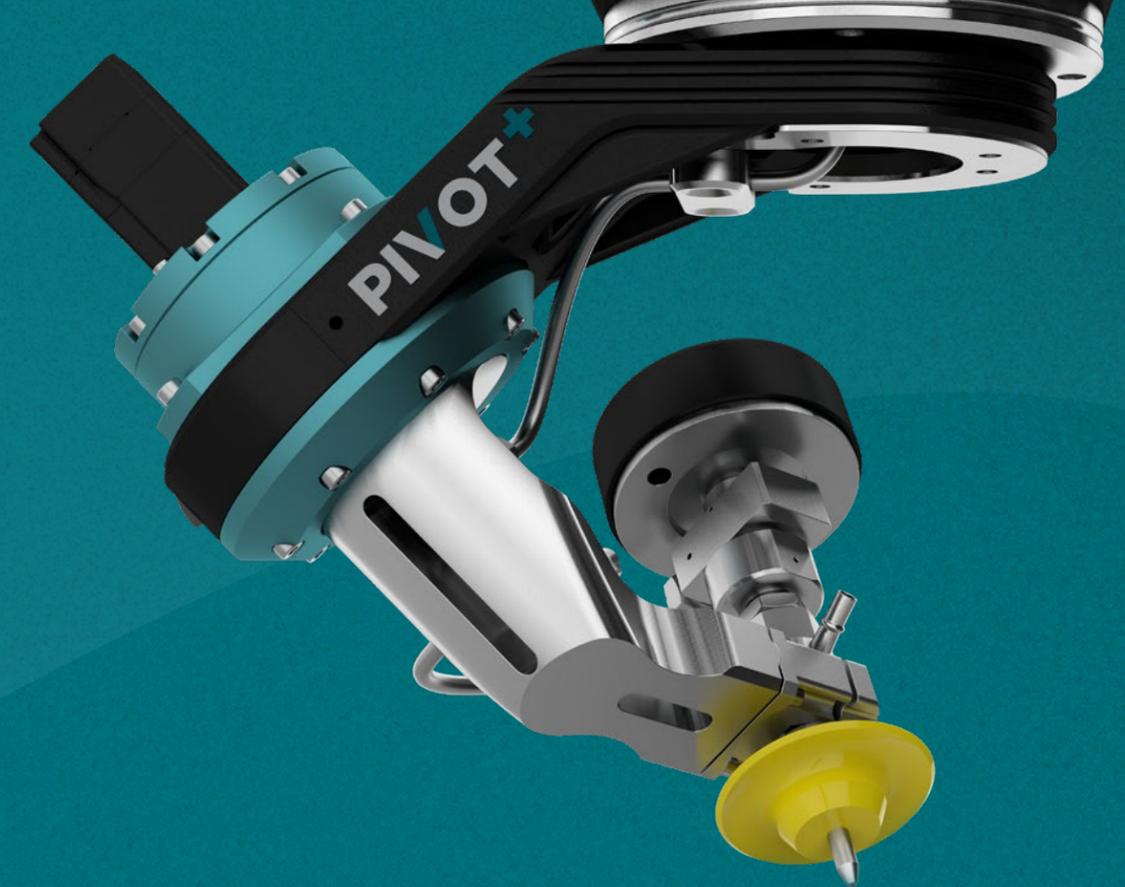


Complete System Manufacturer

Your entire waterjet system comes from one single supplier – **Flow**. Every part is specifically designed to work together using only the finest materials and components in our manufacturing.

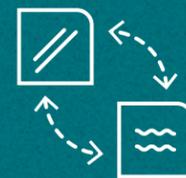
Maximum Customer Focus

Flow prioritizes our customers by providing tailored waterjet solutions designed to meet their unique needs and challenges. Our absolute commitment to our customers ensures you receive the highest level of service and support throughout the lifetime of your Flow waterjet.



Benefits of Waterjet Cutting

Waterjet cutting technology is one of the fastest growing major machine tool processes in the world. There are virtually no limits to what waterjets can cut, which is why operators, shop floor managers, and business owners are realizing greater efficiencies and productivity by bringing waterjets in-house.



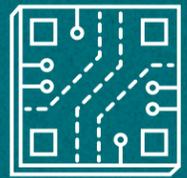
Cut Virtually Any Material

With pure and abrasive waterjet, you can cut virtually any material, thick or thin, hard or soft. It's powerful enough to cut through hard metals like titanium, gentle enough to pierce glass.



No Heat-Affected Zones (HAZ)

As a cold-cutting process, waterjet cutting maintains material integrity by avoiding heat distortion. No heat, no stress, just a satin smooth edge.



High-Precision Cutting

Waterjets deliver highly accurate cuts with minimal kerf and tight tolerances for finished parts directly off the table, no secondary finishing is required.

Materials

Flow waterjets are designed to operate as both pure and abrasive waterjets.

Pure Waterjet

Uses water-only to cut soft materials.



Paper



Food



Foam



Insulation



Carpet



Plastic

Abrasive Waterjet

Uses water and garnet to cut hard materials.



Metal



Stone



Glass



Composites



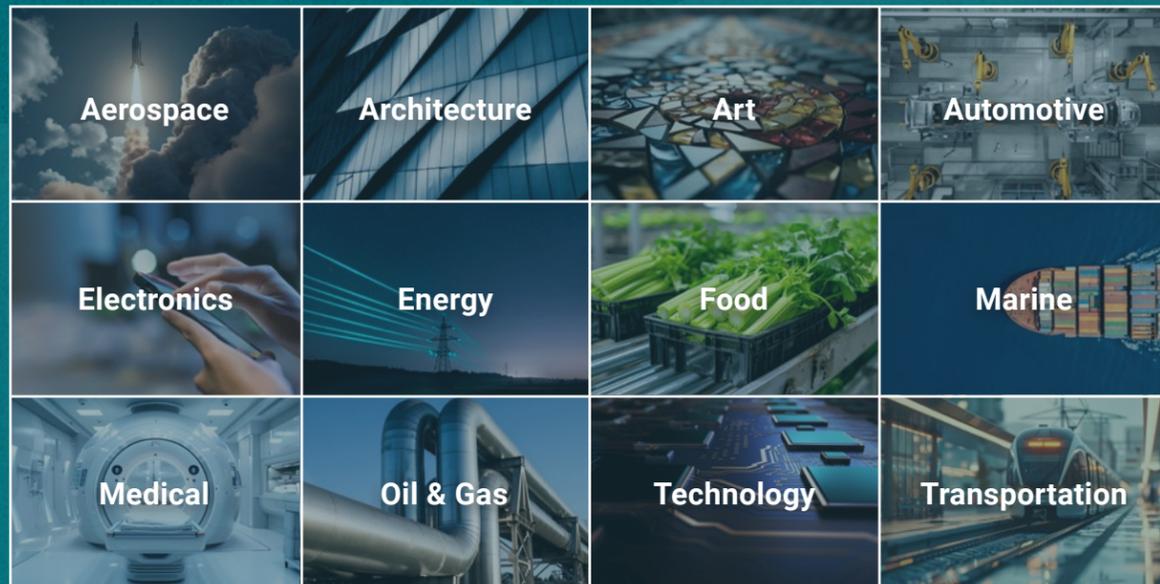
Ballistic Materials



Exotic Materials

Industries

Because of its versatility, waterjets are used in a wide range of industries.



How Waterjet Works

Waterjet technology is a cold-cutting process using water, or water and abrasive, to supersonically erode material.

Here's how it works:

Generate Pressure

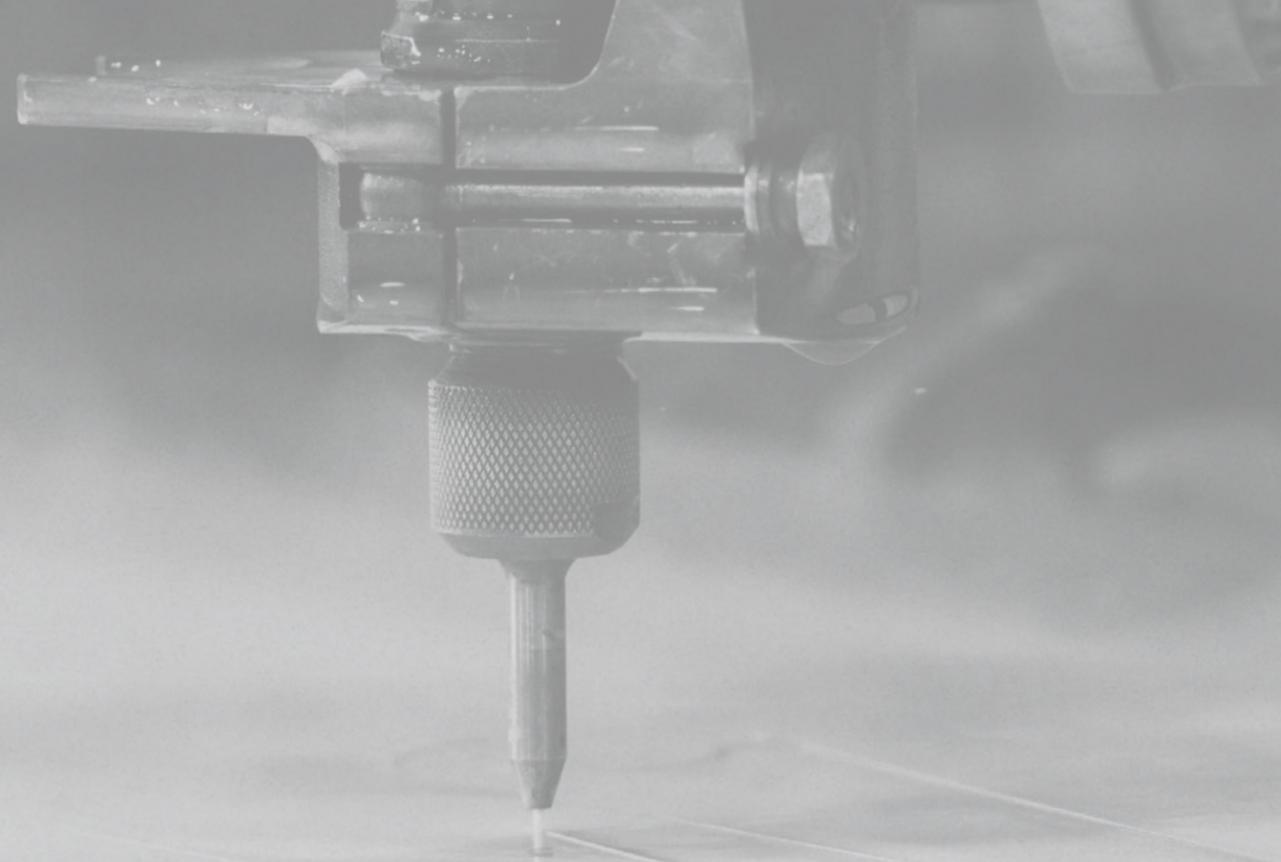
An ultrahigh-pressure pump generates a stream of water with pressure rated up to 94,000 psi.

Convert Pressure to Velocity

The pressure is converted into velocity via a tiny jewel orifice, creating a stream as small as a human hair, which can cut soft materials.

Introduce Abrasive

Garnet is pulled into the supersonic waterjet stream, boosting cutting power by 1,000 times and enabling it to cut through hard materials.



Mach Series

The Flow Waterjet Mach Series is a high-performance line of waterjet cutting systems designed for precision and versatility.

Each system is engineered to deliver consistent results, with customizable options, intuitive controls, and robust construction – an ideal choice for both high-volume production and intricate, detailed work.



Waterjet Core Components

Cutting Heads

Pure Waterjet

Cuts softer materials using only water.

Standard Waterjet

Uses garnet abrasive to cut hard materials.

Pivot+™ Waterjet

5-axis and bevel cutting with 60° of motion.

Dynamic Waterjet®

Up to 4x faster and more accurate than Standard Waterjet.

Dynamic Waterjet® XD

High-precision bevel and 3D cutting.



Pumps

HyPlex® Prime

Direct Drive | 60,000 psi

MotoJet®

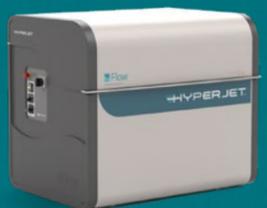
Intensifier | 60,000 psi

MotoJet® X

Long-Life Intensifier | 60,000 psi

HyperJet®

Intensifier | 94,000 psi



Software

FlowXpert® Software Suite

A fully integrated 2D & 3D modeling and pathing solution.



Service & Support

Waterjet owners understand the key to optimal performance of their equipment is to minimize downtime. Our FlowCare service program is designed to keep your waterjet running at peak performance. Our experts will work one-on-one with you to understand your business demands and waterjet cutting needs. The outcome is a customized preventative maintenance schedule to optimize the capabilities of your Flow waterjet system.

FlowCare

Our intensifier and direct drive service program helps maximize uptime, safeguard your investment, and makes scheduled maintenance a breeze. With FlowCare, we'll care for your waterjet, so you can care for your business.

- Extended Warranties
- Onsite Preventative Maintenance and Training
- Personalized Part Packages
- Factory-Certified Rebuilds
- Start-Up Consumable Package



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 **Flow**

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