

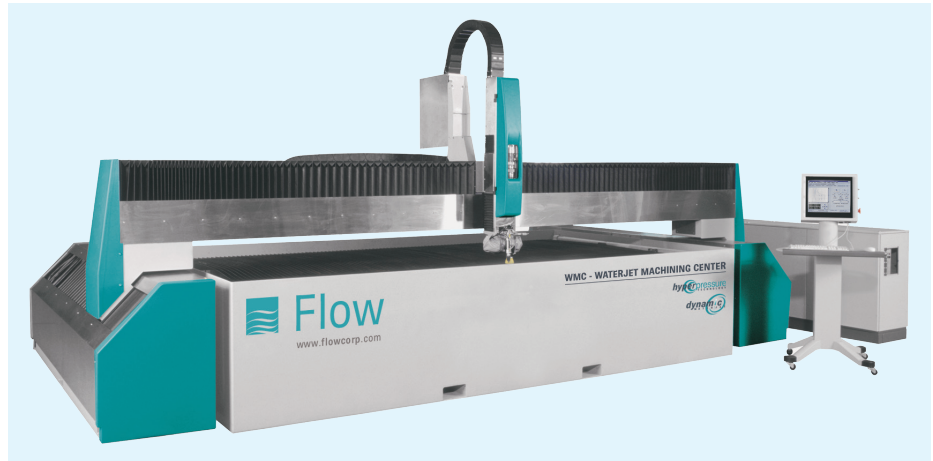
Versatile Waterjet Cutting Solutions

BENEFITS

- Highly accurate, taper free parts as a result of Dynamic Waterjet® technology
- Highest possible productivity with the fastest cut speeds and a field proven, reliable design
- Lowest operating cost through optimal abrasive usage
- Modular design can adapt as your needs change
- Ability to machine virtually any material and thickness
- Easy to operate and quick to learn
- Dedicated worldwide service network for rapid response time

STANDARD FEATURES

- Dynamic Waterjet with Active Tolerance Control or QuickLift™ pneumatic Z cutting head
- PASER® ECL Plus abrasive waterjet cutting system
- FlowMaster® Windows®-based control and programming (Siemens CNC also available)
- Mobile FlowMaster control pedestal
- Choice of 60,000 psi intensifier or 55,000 psi HyPlex™ pumps
- CleanCut™ material support system with rapid water level control for clean, quiet underwater cutting
- FlowLink™ remote technical support
- WaterVeyor™ abrasive removal system (optional)
- Stainless steel cover package (optional)



Unparalleled Flexibility in a Single Waterjet

Today, flexibility in manufacturing is key to maintaining a competitive edge and tapping into new markets. To keep you competitive, Flow designed the WMC 2, a flexible waterjet cutting machine that is ideal for high-production, high-speed cutting, or low production runs and the high job variations common to just-in-time manufacturing or job shop and contract production environments. Its modular design allows for unique configurations and customization to meet a variety of individual needs—now and in the future.

Simply put, the flexibility and modular design of Flow's WMC 2 will help you realize lower operating costs through reduced maintenance requirements, round-the-clock uptime, and FlowLink™ remote technical support combined with a worldwide service network.

Options to Meet Your Needs

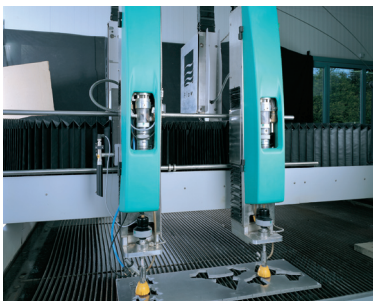
The WMC 2 can be equipped with a number of options that enhance your productivity and profitability. For example, in order to produce individual parts faster and at lower cost, it gives you the ability to operate multiple Paser ECL Plus abrasive waterjet cutting heads. If your applications require high precision and productivity, it can be equipped with either single or dual Dynamic Waterjet cutting heads. If you need to cut soft goods such as gasket material, rubber or insulation, the WMC 2 can be equipped with multiple WaterKnife™ pure water cutting heads. Should you need to pierce brittle materials such as stone, glass or composites, the machine can be equipped with UltraPierce™ Vacuum Assist or offset drills to ensure trouble free hole starting.

Superior Waterjet Cutting Performance

The WMC 2 delivers all the benefits of an abrasive waterjet cutting system such as the ability to cut parts out of almost any material—metal, stone, plastics, composites, glass, ceramics, or rubber—up to 8 inches thick with no heat-affected zone and superior edge quality. All of this is achieved with minimal tooling, fixturing and set up. Best of all, the WMC 2 is powered by FlowMaster, Flow's intelligent Windows®-based control system, making it remarkably easy to use.

PASER ECL Plus Abrasive Waterjet Cutting System

PASER ECL Plus continually operates at peak cutting performance—guaranteeing that you cut as fast as possible at the lowest cost per inch. Its compact abrasive metering unit delivers the precise amount of abrasive to the cutting head needed to cut at maximum speed. Not an ounce of abrasive is wasted on inefficient cutting.



Specifications

Net Cutting Area and Speed

- X-axis (bridge) and Y-axis (base):
Each of 6.5 ft (2 m), 10 ft (3 m), or 13 ft (4 m);
Base up to 20 ft (6 m) and longer-axis
conventional:
9.8 in (250 mm) pneumatic-actuated Quick-
Lift axis
- Z-axis Dynamic Waterjet:
7.8 in (200 mm) motorized axis
- Cutting heads:
Up to 4, or 2 Dynamic Waterjet
- Rapid transverse maximum:
1375 in/min (35 m/min)
- Contouring range:
0-1000 in/min (0-25 m/min)

Machine Positional Specifications (per linear axis at 68°F ± 3°F / 20°C ± 2°C)

- Linear accuracy rate:
± 0.001in/ft (0.05/500 mm)
- Linear positional accuracy:
± 0.003 in (0.08 mm)
- Repeatability:
± 0.001 in (0.025 mm)
- Specified in accordance with ISO 230-2 and applicable NMTBA specifications

Drive System

- Digital AC servo motors with closed loop feed
- X- and Y-axis utilize a ball screw with driven nut
- X- and Y-axis utilize recirculating ball, linear bearings and hardened precision ways
- Optional full double protection package (covers and internal bellows) for drive system and ease of machine maintenance
- Automatic lubrication system

FlowMaster: Intelligent PC Control and Programming

FlowMaster, Flow's Windows-based waterjet control system, makes programming and controlling the WMC 2 remarkably simple. While exceptionally easy to operate, FlowMaster is also extremely powerful with an integrated database of cutting parameters for virtually any material and thickness. Any standard drawing format (dxf, iges, etc.) can be seamlessly imported or created with the built-in CAD functionality. All that is required of the user is to enter basic cutting parameters, such as material type, thickness, and desired edge quality, and FlowMaster does the rest. To easily monitor the progress of a job as the machine cuts the part, its cut path is continuously displayed on the computer monitor. All machine and pump functions are controlled and displayed by FlowMaster.

Dynamic Waterjet with Active Tolerance Control

Dynamic Waterjet with Active Tolerance Control produces more accurate parts, at significantly higher cutting speeds, than parts cut with conventional abrasive waterjets. FlowMaster, Flow's intelligent Windows®-based waterjet control system, makes operating the Dynamic Waterjet extremely simple. FlowMaster dynamically controls the position of the cutting head so that parts are cut to high precision without taper. Dynamic Waterjet optimizes waterjet cutting by operating at the highest speeds possible, with the best part precision to achieve the lowest cost per part.

Flow Pumps

The WMC 2, like all Flow waterjets, can be equipped with either intensifier or HyPlex™ pumps. Both types of pumps run at the highest continuous operating pressures in the industry. Continuous operating pressure is an important distinction to make. It's what allows all Flow pumps to cut any material or shape faster and less expensively than machines operating at lower pressure. Flow's HyPlex pump technology provides high operating pressures with increased efficiencies. Flow is the only company in the industry to provide customers with a choice of pump technology.

Pump	Power	Flow Rate	Continuous Operating Pressure	Voltage
50 iS	50 HP	1.00 gpm	Adjustable up to 60,000 psi	400/480 VAC, 150 KVA
100 iD	100 HP	2.00 gpm	Adjustable up to 60,000 psi	400/480 VAC, 225 KVA
HyPlex 30	30 HP	0.82 gpm	Up to 55,000 psi	400/480 VAC, 100 KVA
HyPlex 50	50 HP	1.25 gpm	Up to 55,000 psi	400/480 VAC, 150 KVA

INNOVATION | EXPERTISE | COMMITMENT

Get It All with Flow

For over three decades, Flow has set the standard for excellence in waterjet technology. We are the only waterjet company in the world that offers total solutions and support from a single source, both before and after your waterjet system is installed. We learn your business requirements. We help you select and implement the right solution. We train your staff and we are there for you for the entire lifecycle of our products.

When you partner with Flow, you get more than a product:

Our **INNOVATION** ensures that you will always have the latest and highest quality technology.

Our **EXPERTISE** ensures that you will always have the right technology for your individual business needs.

Our **COMMITMENT** to customer service ensures that you will always receive the support you need to stay productive.

For your complimentary needs analysis or a product demonstration, please call one of our waterjet experts at **1-800-446-3569**.

We look forward to partnering with you in your success.

UNITED STATES, CANADA, MEXICO, CARIBBEAN,
AUSTRALIA, & NEW ZEALAND
Flow Waterjet Americas
23500 64th Avenue South, Kent, Washington 98032 USA
Tel: 253-850-3500 • Fax: 253-813-3285
TOLL-FREE: 800-446-3569 • info@flowcorp.com
www.flowcorp.com

CENTRAL AMERICA & SOUTH AMERICA
Flow Waterjet Americas • Tel: +55-11-3616-2822
flowlatino@flowlatino.com • www.flowlatino.com

EUROPE, MIDDLE EAST, & AFRICA
Flow Waterjet Europe • Tel: +49-7252-538-0
info@floweurope.com • www.floweurope.com

ASIA, KOREA, & CHINA
Flow Waterjet Asia • Tel: +886-3-577-2102
inquiry@flowasia.com.tw • www.flowasia.com

JAPAN
Flow Waterjet Asia • Tel: +81-52-701-7021
fjc@flowjapan.co.jp • www.flowasia.com

