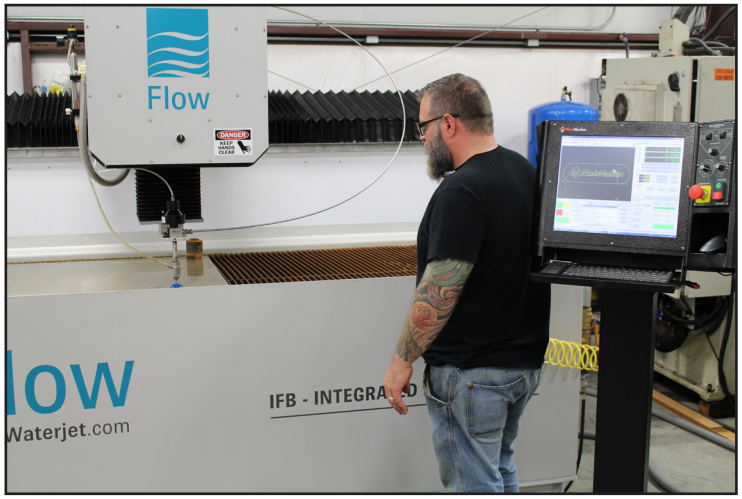
# MachMotion

## CNC WATERJET MACHINE




## Industrial Motion Control

- Large 17” display showing real-time, virtual cut path
- Rugged steel control enclosure; dust/liquid resistant
- Precision closed-loop, DSP Ethernet motion controller
- Perfect for industrial manufacturing, job shops, etc...

## Control Software Features

- Easy to use Windows-style one page navigation
- Cut Recovery: Start anywhere, pick line or step through the program
- User configurable, high/low pressure jet, garnet on/off, pump on/off, etc...
- Comes standard with DXF import (manual nesting before importing)
- Programmable Z axis height, Z axis retracts between pierces

## Gantry Drive Systems

- Gantry slaving mode - single or dual drive gantries
- Automatic gantry squaring- precision home to nearest encoder index pulse
- Ball screw driven machines - flying bridge or gantry style
- Rack/pinion driven machines - servos and precision gear boxes for 400LB, 900LB, 1800LB and larger gantries

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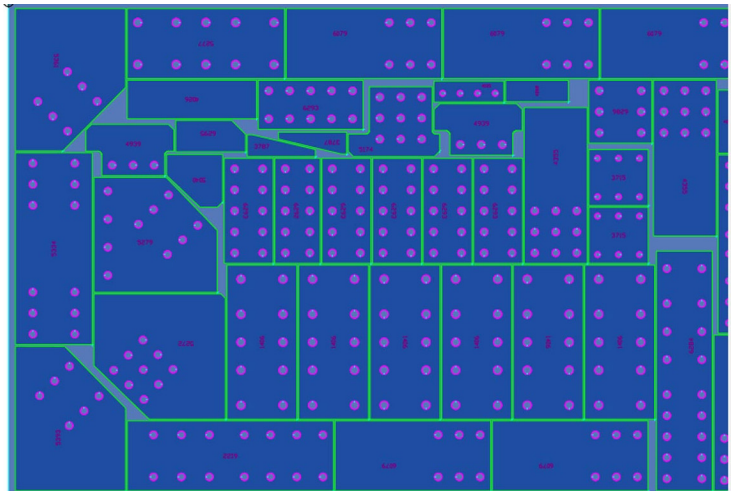
## Whats Included



### Optional Part Nesting

- SigmaNEST, TRUE SHAPE NESTING software
- DXF/DWG CAD drawing import
- 190 standard part shape library
- Material library tech tables, also known as cut charts
- Automatically places lead-in/lead-out points (easy to edit, if needed)

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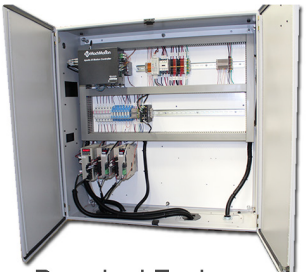
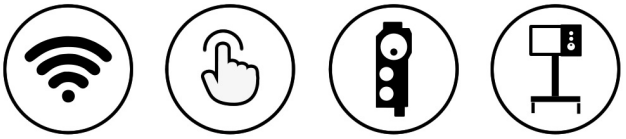
### Options

- Ready to bolt on, pre-wired enclosure for your system
- Free Standing Control Stand
- Wi-Fi ready
- Touch Screen
- MPG Pendant



Pre-wired Enclosure



Wi-Fi Touch Screen MPG Pendant Control Stand

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### AC Servo Motor Options

YASKAWA

TECO ELECTRO DEVICES CO., LTD.

- High resolution AC servo system - Precision hole and corner path control
- Yaskawa servos with 20bit encoder
- Teco servos with 10k count encoder (We are the North American distributor for Teco servo products)

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## CNC WATERJET MACHINE

## Easy to Install/Operate

- MachMotion turnkey installation services, Guaranteed Power-up available
- Install yourself or use MachMotion's qualified technicians
- One-time setup; Easily backup machine configuration
- Part File Import; Network access via Ethernet to offices/other departments

## FREE Control Support Included

- No charge for control support
- Remote login service included; we can see what you see
- Non-transferable
- One year warranty on all parts

## Our Guarantee

- Customer service and support is priority #1
- Direct seller; we're your single source for sales and support, no middle man
- US-based manufacturing, sales, service, and support
- Call us and speak to a live person, M-F 8-5pm (Central)

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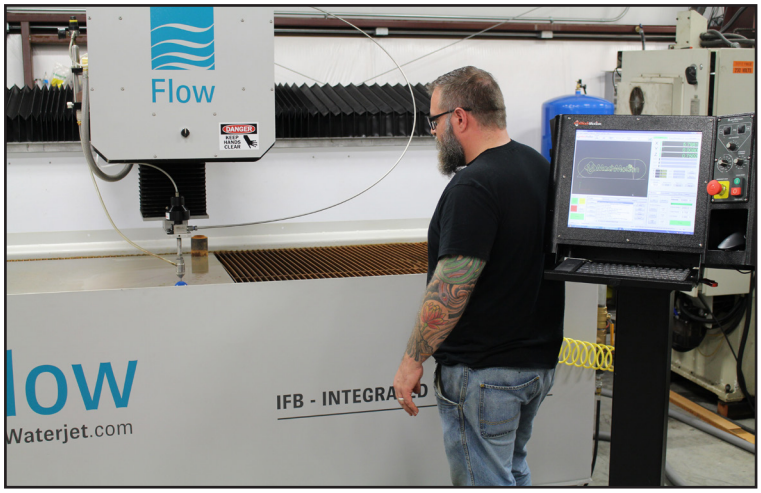
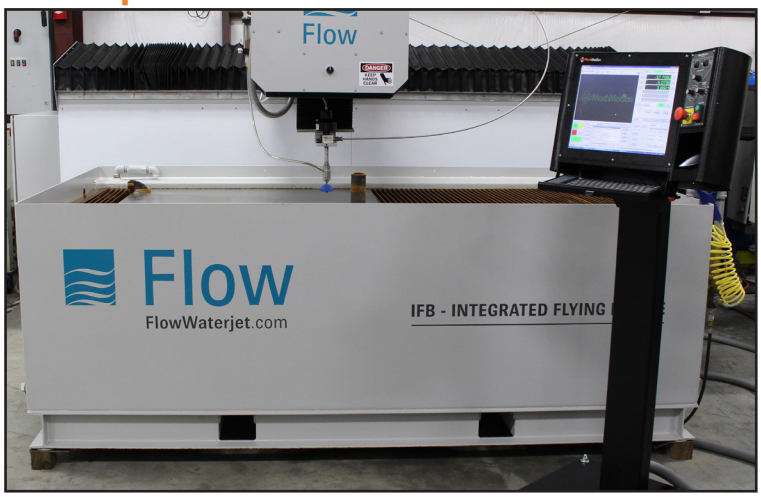
## We've Got You Covered!

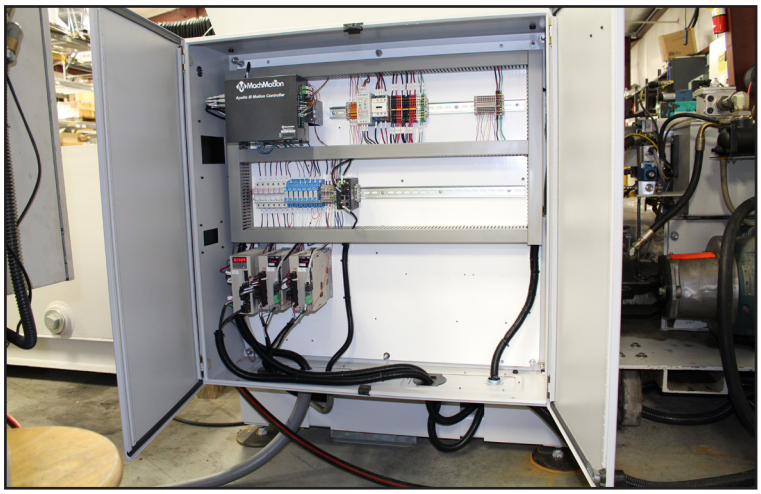
### Customer Examples




2001 Flow WaterJet Control Retrofit

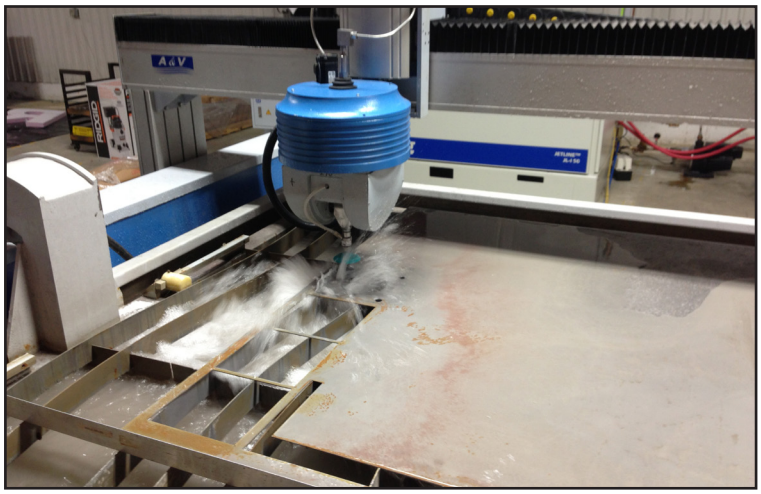



Flow Flying Bridge CNC Waterjet



Flow 3 Axis Industrail Eletrical

A V CNC WaterJet Cutting-Control



A V CNC WaterJet Cutting System

Large CNC Gantry WaterJet Control

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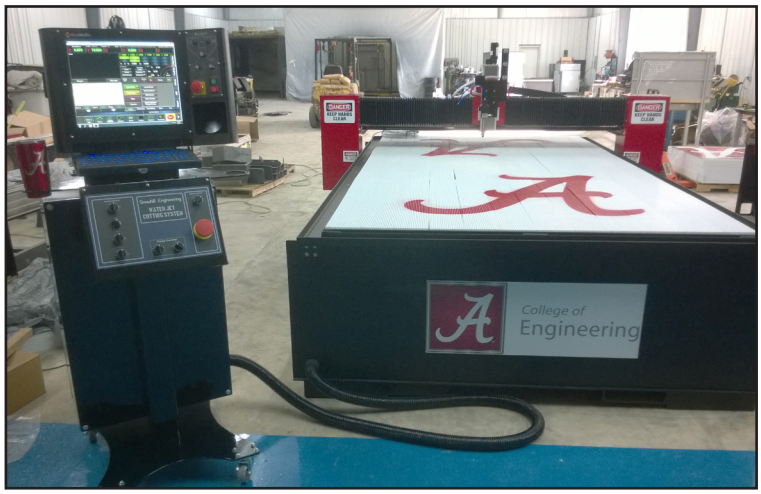
## CNC WATERJET MACHINE

### Customer Examples

4X5 2 Head CNC WaterJet Retrofit

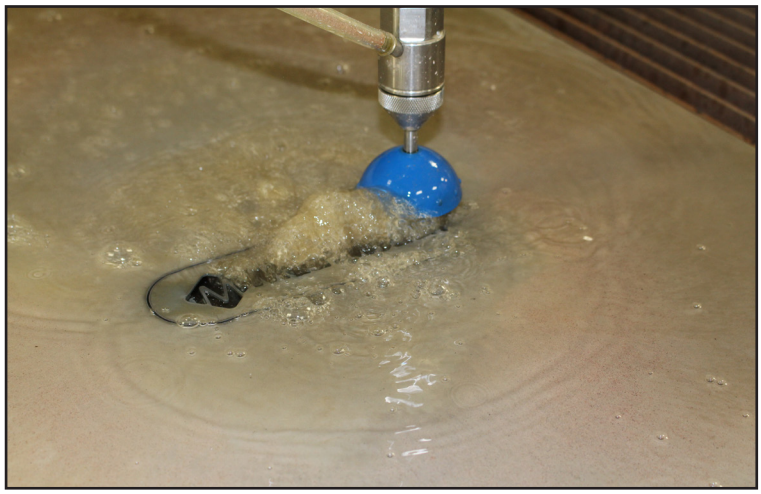
CNC WaterJet Control-System Retrofit Teco




Snow Hill Enginnerring Industral

Granite Stone Cutting with WaterJet

WaterJet Stone Cutting



WaterJet Cutting 20GA Steel Sheet

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# MachMotion
## Product Details

| | |
|---|---|
| Kit Model Number | 0250W-X4-4443-0300 |
| Control Series | 250W |
| Screen Size | 17" LCD Monitor |
| Touch Screen | No |
| Program Storage (Solid State HD) | 64GB |
| Processor | Intel Celeron 2.00 GHz |
| Sigma Nest TRUE SHAPE NESTING Included | No |
| Basic DXF Import | Yes |
| Control Mechanical Mounting | Rear Mounting Arm |
| Axis Supported | 4 Axis |
| Servo Motors Included (# Axis) | Teco(3) |
| Default Servo Size | 400W 1.24NM |
| Servo Encoder Resolution | 10,000 Counts per rev |
| Main Power Voltage | 230V 3 Phase |
| Gear boxes (Rack Pinion Drive) | APEX PAII060-030 30/1 |
| Gantry Weight (Rack Pinion Drive) | 400 LB Mass Per Servo |
| Ball Screw Drive System | Optional Servos |
| Inputs | 16 |
| Outputs | 8 |
| High/Low Jet Pierce Relay | 2 |
| Pre-wired electrical enclosure included | 30 X 30 X 12 |
| 1 year warranty on parts | Yes |
| Lifetime Technical Support | Yes |
| Remote support via the internet | Yes |
| Estimated Installation | $5,000 |

# MachMotion

## Product Details

| | |
|---|---|
| Normal Stock item | Avg lead time 3 Week |
| Estimated Installation | $5,375 |
| Normal Stock item | Yes |
| CNC Control Size | 24" (W) X 15.5" (H) X 6.5" (D) |
| Operating System | Windows |
| Power Requirements | 110-240 VAC operation |
| Ethernet | Connect to your network and easily transfer files from the office to your computer |
| USB Ports | 1 External USB Port + 1 Internal |
| Operator Panel | X15-10-01 Operator Panel, with Jog Buttons, Axis Selector, Increment Selector, Jog Speed Selector, Cycle Start, Feed-hold and Emergency Stop Buttons. |
| Available Power Supply Outputs | 5VDC, 12VDC & 24VDC |
| Digital Outputs | 8 Flood/Mist, Coolant, Lamp, etc. |
| Digital Output Voltage Range | 5V-24VDC |
| Digital Inputs | 16 Example: X, Y, & Z Limit Switches, Oilier Refill Warning, etc. |
| Digital Input Voltage Range | 2.5V-48VDC |
| Safety Features | Opto-isolated I/O & Hardwired E-Stop |
| Machine Type | Lathe |
| Encoder Inputs | 6 Differential Quadrature Encoder Inputs. 32-Bit Resolution |
| Safety Features | Opto-isolated I/O & Hardwired E-Stop |
| Encoder Inputs | 6 Differential Quadrature Encoder Inputs. 32-Bit Resolution |

# MachMotion

## CONTACT OUR TEAM TODAY

### Sample Quote for
### Waterjet Control Retrofits Teco Servos

| Item | Description | QTY | Price |
|---|---|---|---|
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