

A Cut Above the Competition

- Industry Leading Precision and Accuracy!
 - +/- 0.001" Linear positional accuracy (over 12") - Per axis
 - +/- 0.001" Repeatability (Bi-directional)
 - 0.0004" Backlash - maximum
- Sturdy overhead gantry design ensures lasting precision.
- Motion components are kept up high out of the harsh process environment and are protected by metal covers and lip seals versus bellows that can puncture or tear. Clean filtered air blower fans provide positive pressure around the ball screws.
- The motion system is separated from the catcher tank, eliminating vibration and ensuring maximum part quality.
- Multiple cutting heads and drills can be added to increase productivity.
- Can be expanded in place as your business grows.
- 300 to 750 IPM Contouring and Rapid Positioning (460 volt), depending on gantry size
- Easy to load with a forklift or crane.

Standard Features

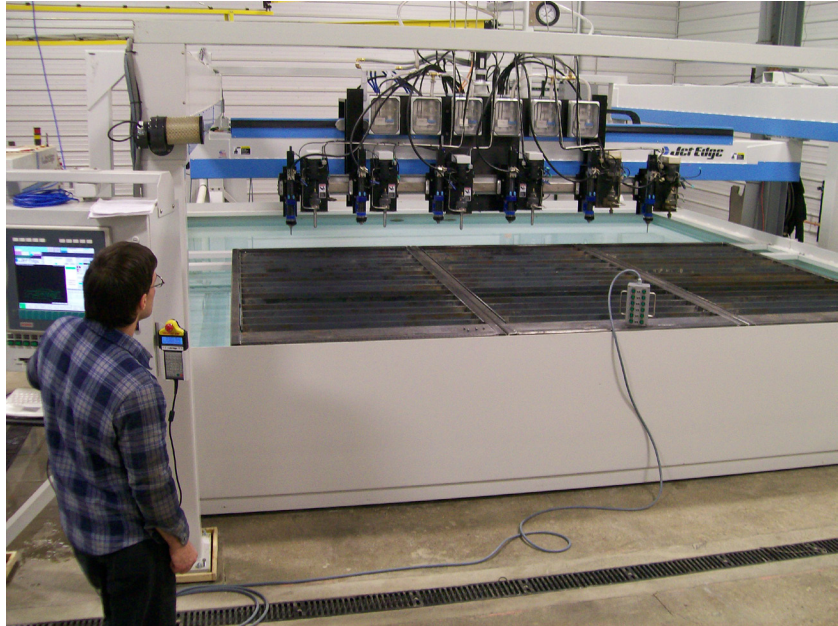
- Table sizes range from 4'X4' to 24'X14'
- Closed loop drive system on X & Y Axis
- AC brushless servo motors, absolute encoders, SERCOS
- Preloaded anti-backlash recirculating ball screws
- THK linear bearings with hardened precision ground ways
- Split Y-axis drive system (dual motors)
- Industrial PC controller
- Variable feed-rate override for contouring and rapid motions
- Individually controlled water and abrasive functions
- Auto, MDI (manual data input) and manual operation
- High pressure swivel arm delivery system
- Full-featured hand-held pendant
- High pressure table plumbing with hand valve
- Slat-style catcher tank - separate from gantry

Options

- Multiple cutting head configurations with extended catcher tank increases work envelope and productivity
- Sub-Z axis gives multiple heads 3 inches of independent travel - an industry exclusive
- Closed loop water systems - eco-friendly
- Abrasive Removal System - reduces tank maintenance
- Water raise/lower for underwater cutting
- CAD/CAM nesting software
- Contact height sensing
- Pneumatic drill
- Dual pressure valve
- Digital readout for multi head positioning
- Electronic performance monitor
- High pressure water monitor
- Abrasive delivery system monitor
- CE Mark- (ENGLISH ONLY for Aquavision Controller)

Intensifier Pumps

- Multiple models: 30-200hp, 60,000-90,000 psi



Jet Edge's High Rail Gantry produces complex parts out of virtually any material. Its overhead design allows full access to the work envelope and raises critical components out of the process environment. A stress-relieved steel-fabricated frame provides unparalleled rigidity; coupled with rigid honeycombed steel beams, this allows stable but fast operation. Moving elements are supported on THKTM linear ways. Precision ball screws are directly coupled to servomotors.

XY mechanical components are totally protected from the abrasivejet environment by a lip seal system. This system, which uses brushes, labyrinth passages, lip seals, and high-volume low-pressure filtered air to protect critical motion components, provides significantly longer service life compared to conventional bellows arrangements. The High Rail Gantry can be expanded in place to grow with your business.



Aquavision Di Controller

The Aquavision Di Controller is the most advanced waterjet motion controller in the industry. Its customized Visual Basic front end guides the user through the process from job set-up to production. Single parts, mirroring, rotation, plate alignment and part arrays (optional) are right at your fingertips. It is fully networkable, allowing part programs to be generated offline and easily transferred to the system's hard drive for production.

Specifications subject to change.

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