

A Cut Above the Competition

- Industry Leading Precision and Accuracy
 - Cutting Tolerance: 0.004" (0,1 mm/m)
 - Repeatability: 0.001" (0,025 mm)
 - Cutting Speed: 0-1,575 ipm (0-40.000 mm/min)
- Motion components protected by steel covers labyrinth lip seals versus bellows that can puncture or tear.
- Free software updates

Standard Features

- Single five axis cutting heads with IKC (Intelligent Kerf Compensation)
 - Rotation of 600°
 - Maximum angle +/- 60°
 - Dynamic precision from +/-0.2 to +/-0.5 mm/m depending on the tilt of head
- Monolithic structure with stainless steel tank
- Support plane max capacity: 2,200 lb/10.8 sf (1000 Kg/mq)
- High precision ground rack and pinion (class H5) on X and Y axis, with A/C brushless motors, linear bearings and ways
- Ball screw driven Z axis – 5 axis - 5.9" (150 mm)
- Rigid fixed upright bridge structure can be moved out of the way for forklift or crane loading
- Programmable contact height sensing
- Industrial Computer with pendant
- Zinc steel replaceable slat work surface
- Cutting head with self-aligning nozzle/orifice, replaceable mixing chamber
- Air-Conditioning unit for electrical enclosure
- 460v60hz-3 phase (standard manufacture), OR 230v60hz-3 phase
- Bulk Storage Hopper (728 lb, 300 kg) with low-level warning light
- Secondary hopper with pneumatic valve, screen filter, and flow control - with metering disc
- Abrasive feed line with anti back-up valve

Available Sizes – 3 axis work envelopes:

- 5.5'x6.5' nominal (1700 mm x 2000 mm)
 - 5.5'x13' nominal (1700 mm x 4000 mm)
 - 6.5'x13' (2000 mm x 4000 mm)
- (5 axis work envelopes are smaller)

Optional Features

- Second cutting head; a second 5 axis head or a 3 axis head
- Rotating axis for pipe cutting; with CNC control
- Laser Pointers
- Drill
- Hose reel assemblies – air and water
- Upgrade to XHP plumbing - 100KSI (6900 bar) rated
- Firejet etching system
- Front rollers for stone slab loading
- Special work surfaces for glass handling, stainless steel and plastic honeycomb grids, others
- Twin shuttles – medium sized work envelope only
- In-line water sprayers
- Work envelope division barriers to split work envelope into two separate zones
- 4,400 lb (2200 kg) abrasive hopper
- Water only heads



The Milestone 5 axis precision waterjet cutting system is capable of cutting virtually any material. This versatile system provides an active method for controlling speed and kerf and features continuous probing for optimal performance.

Featuring Tecnocam CAM Software

Developed in a Windows® environment, Tecnocut is simple to use and allows interfacing with the most varied drawing software packages on the market.

Materials Database

The software includes a database containing the technological parameters of common materials. It also can be implemented for meeting precise technological needs. The technology of the individual sections that comprise the imported shapes can be modified to optimize the cutting sequence and processing.

Plate Optimization (Nesting Function)

High-level nesting algorithms allow perfect optimization of the plate, managing both plates of different dimensions and possible processing offcuts.

Management of Cutting Orders and Estimates

Management of cutting orders is handled by a simple interface. It is possible to obtain information relative to the placing data with graphic display of the plate, the relative technological cutting data and the production estimate, divided into cutting costs and material costs. Following ISO generation, the exactness of the cutting route can be checked with an instrument that reproduces the machine's CNC.

TECNOCAM 3D Cutting Management

The Tecnocam 3D module is a software package for drawing solid shapes that gives the possibility of creating 3D shapes in a simple and intuitive way through knowledge of the shapes of the upper and lower sections or the required kerf to then be used for the TECNOCAM software functions. It also manages multi-head cutting by selecting which the greatest number of heads and their center distance are that minimizes the cutting time and maximizes the exploitation of the plate and is set up to generate ISO programs dedicated to 3 and 5 axis pipe processing.

