

## EXCITECH-USA

Smooth Play-Free Motion

Superior Cut Quality

Minimal Maintenance

Machine Longevity

# • • • • • •

CONSTRUCTION FEATURES

#### Base Frame

The base frame is fabricated from heavy-duty tubular steel that is welded, precision machined and stress relieved so that the foundation remains true and steady over the operational life of the machine.

#### Gantry

The gantry is constructed of tubular steel with reinforcing ribs welded throughout the length of the column which results in a steady firm beam assembly. This quality engineering and workmanship result in smooth precision cutting.





#### Gantry Support (Uprights)

The Gantry uprights are cast iron with heavy duty gussets formed into the casting. Each support is machined for housing the various drive assemblies including motors, bearings, belts, and wiring harnesses.



#### Bearings

THK HSR bearings and rails are used on all three axes. These superior quality components complement the overall construction by providing smooth play-free motion. This results in superior cut quality, requires minimal maintenance, and increases the machines longevity.

HSR Bearings are provided with HSR25 end and side seals as standard contamination protection against dust and debris.



Pneumatic Material Alignment Stops

The E5-2040 Series machine comes standard with three material pneumatic alignment stops. These pins allow the operator to bank the edge of the material against them precisely aligning the material to the machine origin.

## EXCITECH-USA

Superior Cut Quality 

Minimal Maintenance

Machine Longevity

#### Linear Racks

Smooth Play-Free Motion

The E5-2040 Series uses precision Helical gear racks on the X- and Y-axes. The mounting of the rack is inverted to help keep dust and debris from building up on the drive system, this assures smooth motion and long term reliability.

#### Drive Motors

The E5-2040 Series CNC Router utilizes high-powered AC Servo motors powered by Delta Drives. These motors are brushless AC Servo's, therefore, requiring no regular maintenance, thus, reducing any maintenance downtime.

#### Drive Train Assembly

The XY Drives include a precision gearbox which is directly coupled to the Servo motor and pinion. This eliminates belt stretch inaccuracies assuring high-speed machining while the system positions the spindle accurately.

#### Spindle

The E5-2040 Series machine comes standard with a 12 HP HSD high frequency automatic tool changer. This precision spindle requires no maintenance, uses industry standard ER collets and ISO 30 tool holders. Fully programmable speeds from 6000 to 24000 RPM, and comes complete with pneumatically retractable vacuum hood.



#### Tooling

E5-2040 Series machine includes an 8-position rotary carousel that moves with the machine while the gantry travels. The use of a carousel speeds up tool changes assuring faster cycle times increasing production capability.

#### Tool Calibration

Automatic tool calibration pad allows for easy and accurate tool length offset position for single and multiple tool changes through the program.



CONSTRUCTION FEATURES









## EXCITECH-USA

Smooth Play-Free Motion

Superior Cut Quality

Minimal Maintenance

Machine Longevity

#### CONSTRUCTION FEATURES



Control Panel Functions The main functionality for the E5-2040 Series is accessible on the front panel of the enclosure.

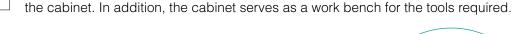
All the electrical components are housed and wired in a doubled-doored Nema 4 electrical enclosure. This allows for easy access and service when needed. All wiring is tagged so that when service is required, the customer can easily navigate



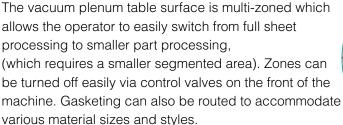
Hand-held Pulse Generator The Rotary hand wheel, attached to the machine, will control the axis that is selected on the wheels dial. All other functions are disabled when this is active.

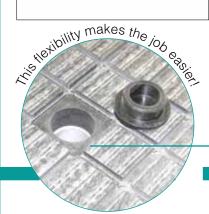
The Setup Introduction manual provides information that will have users cutting parts in minutes.

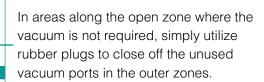




### Vacuum Table The vacuum p







T-Slot Profile

\*

E5-2040 Series includes a heavyduty aluminum T-slot profile in multiple locations across the table surface. This T-slot accepts Industry Standard M8 T-nuts.



#### Vacuum Pump

- (1) 10HP TEFC (totally enclosed fan-cooled). Rotary Vane Vacuum Pump
- Available in 230/460V, 50-60Hz, 3 ph or single phase

Comes standard with motor starter, vacuum gauge, primary and secondary filter, check valve and all necessary plumbing to connect to router

Rated for 173 CFM, 25" Hg, 81dB for very quiet operation