

SPECIFICATIONS FOR CNC ROUTER SYSTEM

Dimensions

Process Length (min.): **144 inches** Overall Working Length (max.) : **170 inches**

Process Width (min): **60 inches** Overall Working Width (max.): **80 inches**

Gantry Clearance (min.): **6.0 inches**

Z Axis Stroke (min): **7.5 inches**

Table Height: **32 Inches**

Machine Construction

- Dual drive motorization on X axis combined with oversized linear ways and bearings
- Single drive on Y axis with oversized linear ways and bearings
- Ball screw drive (Z axis) with oversized linear ways and bearings (Construction must allow for either "Floating Head" Z axis control - for nose riding router head OR "Pinned Head" Z axis control to drive head into heavy or hard materials
- Heavy Spring engaged Rack and Pinion transmission assemblies for X and Y axis
- Single piece - Welded tubular Steel base frame
- Extruded aluminum table top with integral T-slot clamping system
- Over travel proximity sensors on all three axis
- Powder Coated, heavy aluminum table components and gantry / carriage assemblies
- Integral Leveling pads to ensure machine stability
- Heavy-duty casters for ease of factory positioning

Control System

- AMC Smart controller (with full three Axis Control) and Hand-held Operator Control with 2 Megs of Flash Memory.
- Control capabilities for up to four independent tools
- Gantry pre-wired for future addition of pneumatic drill
- Factory operator mode for high production assembly line work

Tooling & Accessory Configuration

- Router/Spindle - 1 ea 10HP (minimum) 6,000-24,000 RPM Variable Speed w/ ER32 Quick Release Spindle and Digital A/C Inverter
- Collets - 3 ea - ER32 (up to 3/4" shank diameter) with quick release adapter
- Dust/Chip Extraction – 1 ea Adjustable Pressure Foot w/ 1 1/2" hose connection.
- Tool Tip and Work Surface Sensing - 1 ea sensing device (S-Mouse or equivalent) for rapid and precise tool calibration
- Material Securement – 1 ea. zoned vacuum hold-down system including 60" x 144" universal aluminum vacuum grid w/ manifold, valves and piping ready for vacuum pump attachment. Grid must also provide alternative T-slot clamping capability
- Vacuum Pump – 1 ea 10 HP (min) dry vane vacuum pump, capable of vacuum hold-down pressures to 25 inHg (min.). Pump to include remote starter
- System must have capability to mount up two (2) tools per carriage (e.g. spindles, drills, etc.)
- System must have capability to mount dual carriages on a single gantry with full process area

- System must include internal air system with regulated pressure control for pneumatic tools

Interface Software and Connections

- 1 ea - ToolPath for Windows, Version 2.7 (or latest) visual interface software compatible with Windows operating systems up to and including Windows Vista. Included modules: Tool Compensation; 2D & 3D Engraving; Tabs; Slanting Planes; Radius Projection; Wrapping; Fiber Optics; and Job Timer. Capabilities to include import of AutoCad files, paneling of jobs up to 4 times the table length, mirroring, rotating, outlining, layering, 4 user presets of home position, automatic spindle control, drill hole peck plunging with router, automatic machine "soft stops".
- 1 ea – Type3 CAD/CAM router software (latest version). 2D capabilities including high speed machining, instant raster to vector conversion, advanced nesting and material optimization.
- External RS-485 LRC Interface for communication via Serial port to distances up to 300 feet.

Accessories

- Toolbox for maintenance and operation
- Operator's manual and tutorials (2 sets each)
- Starter Kit of Carbide cutting tools (min. of 6) & selection of collets

Power Requirements

Machine & Vacuum Pump: 208V - 230V, 3 Phase

Technical Support

- Toll-free technical support including file troubleshooting via e-mail submittal

Training

Bid price to include:

- Unit delivery, installation, and 30 hours (minimum) on-site training
- Eight (8) hours of additional on-site technical training approx. 90 days after installation

Maintenance Agreement and Repair Charges

Separate pricing is requested for the following:

- Maintenance Service Agreement (optional) to start at expiration of factory warranty. Agreement shall include a minimum of one (1) on-site visit per year to perform necessary maintenance, and provide software updates and technical training. Term of agreement: 2 years min. (max of 5 years). Cost per annum. Machine location: Elmore, Alabama
- Labor Charge for on-site repairs to CNC router specified following expiration of factory warranty. Cost per hour. Cost must be fixed for minimum of two years.
- Travel Charges for on-site repairs to CNC router. Repair Site: Elmore, Alabama. Cost per round trip. Cost must be fixed for minimum of two years.

Warranty

One (1) year (minimum) from date of installation (parts/labor/travel included)

Pricing must be F.O.B Elmore Alabama 36028

XYZ Model 4012 or equivalent