DMS
DIVERSIFIED MACHINE SYSTEMS

The Freedom 5X10 Standard CNC Router is an upgrade from the Freedom 4×8 in strength and weight and provides a large work area ideal for nested-based machining. The table size is ideal for larger woodworking jobs and can finish a cabinet system much faster than conventional means. This machine is also good at machining hardwoods, Baltic Birch sheets, thin aluminum and composite panels.

Freedom 10

Phone: 855.266.5064 | Email: info@dmscncrouters.com | Web: dmscncrouters.com

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Our Engineers have 100 plus years of combined CNC experience, with a proven track record of designing custom CNC solutions. Contact us with your production goals and we will design a machine to fit your floor space and exceed your goals.

Common Materials

Aluminum
Foam
Plastics
Acrylics
Composites
Wood

Optional Features

Spindle Accessories
Drill Bank Option
Dust Collection Options
Vacuum Options
Vacuum Accessories
Safety Options for Compliance

Specs

Rapid Feed Rate – Up to 1200 inches per minute
X Axis Stroke – 60" / 1524 mm
Y Axis Stroke – 120" / 3048 mm
Z Axis Stroke – 15" / 381 mm
X & Y Axes – Laser calibrated
12" Of Z-Axis Travel
12" Of Clearance Under The Bridge
Power Requirement – 220V, 3-phase, 60 HZ (Amps determined by spindle option)
Lubrication – Manual
M04 M-Code for counter clockwise spindle rotation

Standard Features

3-Axis CNC Router
Fagor 8070 OL 3-axis industrial controller with 17" LCD color monitor
Moving Gantry Design
Rigid Steel Frame
Ethernet TCP/IP, USB & Serial Port Connections
Fagor Industrial AC Servo Motors & Amplifiers On All Axes
Ball Screw Assembly On All Axes
220 Volt 3-Phase Power
5'x12' 1" Phenolic Table (aluminum tables also available)
Dust Collection – Hood provided and dust delivery collection on top of Z-axis accepts a 5" dust collection line from customer's system
Vacuum Pump – 10 or 15hp Becker available as an Option
Ball Screw Drive – Recirculating ball screw assembly on all axes
Electro Spindle – Hiteco 10 hp / 7.5 kW Standard (other hp options available)

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Technical Specifications

WORKTABLE	
Type of Work Table	5'x12' 1" Phenolic Table (aluminum tables also available)
BUILD AREA	
Height	1"
Width x Length	5"x12"
STROKE	
Z Axis Stroke	15" / 381 mm
X Axis Stroke	60" / 1524 mm
Y Axis Stroke	120" / 3048 mm
CONFIGURATION	
Number of Axes	3
Spindle HP	10 hp / 7.5 kW Standard (other hp options available)
AXES MOVEMENT	
Lubrication	Manual
PC Console	Fagor 8070 Controller
Drive System	FAGOR
Servo & Drive Package	Fagor Industrial AC Servo Motors & Amplifiers On All Axes
FEATURES	
Vacuum Pump	10 or 15hp Becker available as an Option
Ball Screw Drive	Recirculating ball screw assembly on all axes
Dust Collection	Hood provided and dust delivery collection on top of Z-axis accepts a 5" dust collection line from customer's system
Design	Moving Gantry