



H12 Double-Column Machining Center

Exceptional Accuracy + Outstanding Surface Finishes

- World-class performance for die/mold, aerospace, and other high speed applications
- Extremely rigid and thermally stable double-column design
- Designed for parts that require outstanding speed and accuracy, and unparalleled surface finish
- Close proximity of spindle to bridge casting reduces overhang
- Ladder design of bridge provides greater support for the head casting
- Integrated washdown and chip management system
- Swiveling control panel for optimal floor space utilization
- Extra-wide door openings, for easier loading and unloading
- Large windows, for optimal visibility
- Robust, precision machined castings
- Hand-scraped contact areas
- Roller-type rails on all axes for added rigidity
- Direct-coupled ballscrews, for increased accuracy
- Absolute encoders for fast start-up
- Inline high-speed spindles
- FANUC® 31i-MB Series Control
- 53.2 x 37.4 x 23.6 in travels
- 1,181 ipm (30 m/minute) X, Y, and Z rapids
- 787 ipm (20 m/minute) X, Y and Z feed rates
- 30-station swing-arm ATC
- 15,000 RPM inline direct-drive spindle
- 24.8 hp (18.5 kW) spindle
- 40 taper
- 59.1 x 37.8 in (1,500 x 960 mm) table, 3,965 lbs (1,800 kg) capacity
- 87.8 in (2,230 mm) door opening. (front + right side)
- 43.3 in (1,100 mm) door opening
- Linear scales for repeatability and accuracy
- Weighs a massive 28,600 lbs (13,000 kg)



- Responsive factory trained service and support

➤ ➤ **Special Pricing: \$185,500** ⏪ ⏪

Standard Accessories:

- FANUC® 31i-MB Series Control
- Linear Scales
- 15,000 RPM, Big Plus® CAT 40, inline spindle
- Coolant washdown system
- Programmable airblow machining
- Spindle chiller
- Full enclosure
- Coolant through Spindle (CTS) 30 Bar
- Oil Skimmer

- Work-light
- 3-light indicator lamp
- Wash-down gun and air gun
- Chip auger
- Manual pulse generator (MPG)
- 1 GB Dataserver
- Air conditioner
- Toolbox
- Leveling bolts and pads
- Operator manuals

Optional Accessories:

- Oil mist device
- Oil mist collector
- Part probe measurement system
- Tool probe measurement system
- Chip conveyor and cart
- CAT3 compliance package

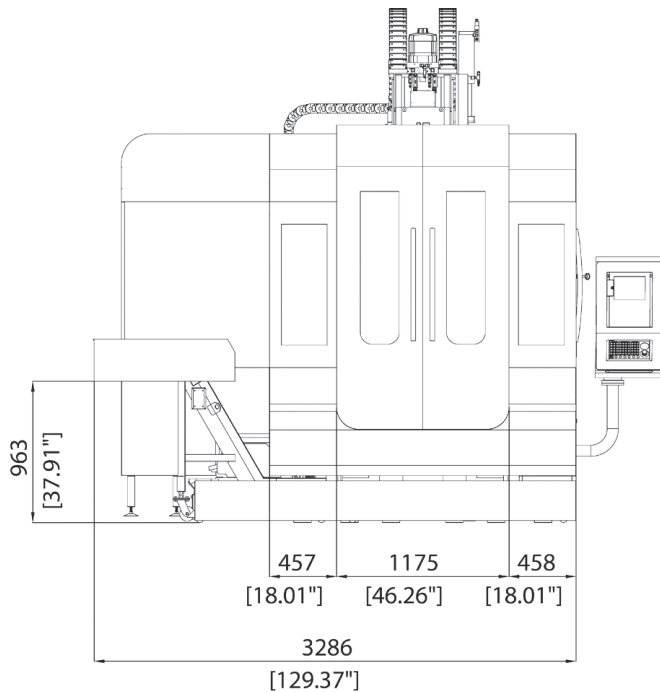


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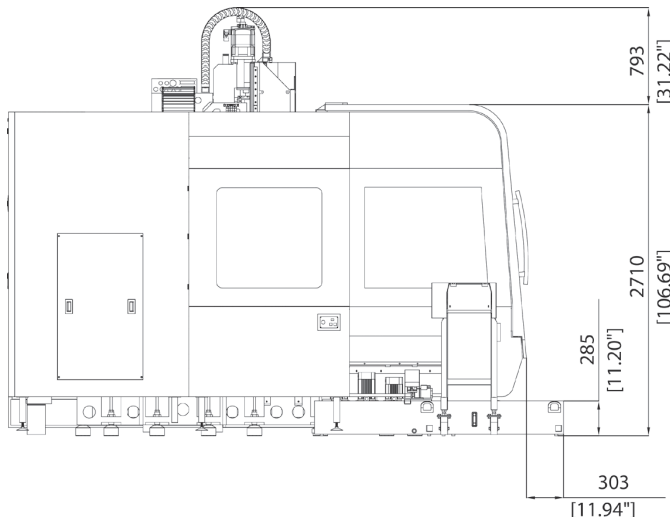


H12 Double-Column Machining Center

Front View



Side View



SPECIFICATIONS

- Travel -

X-Axis	53.2 in / 1,350 mm
Y-Axis	37.4 in / 950 mm
Z-Axis	23.6 in / 600 mm
Distance from Spindle Nose to Table	7.87 ~ 31.5 in / 200~800 mm
Distance between Columns.....	41.7 in / 1,060 mm

- Table -

Dimensions	59.1 x 37.8 in / 1,500 x 960 mm
Max. Load	3,965 lbs / 1,800 kg
T-slot (width x pitch x number)	22 x 160 x 6

- Spindle -

Type	Direct Drive
Spindle Speed	15,000 rpm
Spindle Torque Peak	105.5 ft/lb / 143.04 nm
Motor Power (cont./30 min)	20.1/24.8 HP / 15/ kW
Coolant Tool Spindle.....	30 bar / 435.11 psi
Spindle Taper.....	Big Plus® CAT 40

- Feed Rate -

Rapid Traverse (X/Y/Z)	1,181 x 1,181 x 1,181 ipm / 30 x 30 x 30 m/min
Cutting Feed Rate	0.04 ~ 787 ipm / 1 ~ 20,000 mm/min
Power (X/Y/Z)	7.0kw/4.5kw/7.0kW

- ATC & Magazine -

ATC Type	Swing-Arm
Magazine Capacity	30 tools
Maximum Tool Diameter (next pocket empty).....	2.9" / 5.8" / 73.6/148 mm
Maximum Tool Length.....	11.8 in / 300 mm
Maximum Tool Weight	15.4 lbs / 7 kg
Tool Shank	Big Plus® CAT 40

- Space & System Requirements -

Pneumatic Pressure	5 CFM @ 85-115 psi / 0.14m ³ /min. @ 6-8 bar
Electrical Power Consumption....	50 KVA
Machine Net Weight.....	28,600 lbs / 13,000 kg
Maximum Floor Space.....	197.44 x 203.72 x 137.91 in (W x L x H) / 5,015 x 5,327 x 3,503 mm

Contact Brooks to learn more about this exceptional machining center!



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