

H12E

High Speed Bridge Type Machining Center

The H12E is a bridge type vertical machining center that provides excellent surface finishes and precise accuracy. Features robust, heavy base, columns and beam castings for vibration dampening but with light weight yet strong and rigid head to allow for maximum speed.

- + The bridge utilizes a "ladder design" head casting and saddle which reduces overhang and eliminates deflection.
- + Accuracy is ensured by hand scraped contact points, direct coupled pre-stretched ballscrews and heavy duty roller ways.
- + Thermal stability is achieved through machine design.
- + Excellent ergonomics for part loading and a compact footprint.



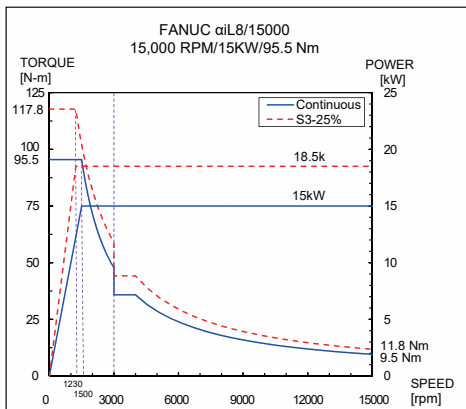
Specifications

	H12E
TRAVEL	
X/Y/Z-axis	1250 / 950 / 580mm
Distance form spindle nose to table	200 - 780mm
TABLE	
Dimension	1360 x 960mm
Max. load	2000kg
T-slot (width × pitch × number)	22 x 10 x 6mm
Height from the table to the ground	770mm
Distance from the table to the operation panel	850mm
SPINDLE	
Spindle type	Direct-drive
Spindle speed	15,000rpm
Spindle motor power (S1/S3-25%)	15 / 18.5kW
Spindle taper	BBT40
FEED RATE	
Rapid feed (X/Y/Z)	36 / 36 / 36m/min
Cutting feed (X/Y/Z)	20,000mm/min
Motor power	7 / 4 / 7kW
ATC & MAGAZINE	
Magazine type	Arm type
Magazine capacity	30
Max. tool diameter (next pockets empty)	75 / 125mm
Max. tool length	300mm
Max. tool weight	8kg
SPACE & SYSTEM REQUIREMENT	
Pneumatic pressure	6kgf/cm ²
Electrical power consumption	60kVA
Machine dimension (L×W×H)	4000 x 4000 x 3200mm

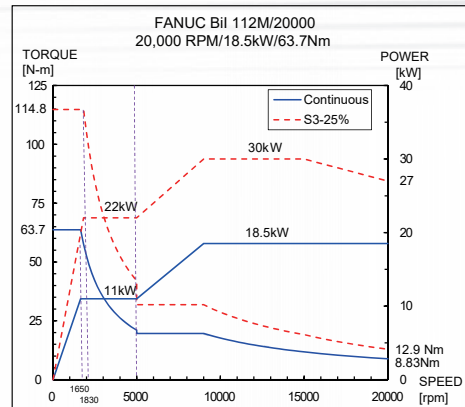
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Spindle Power & Torque Chart

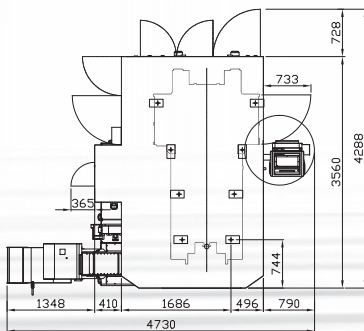


15,000rpm (standard)

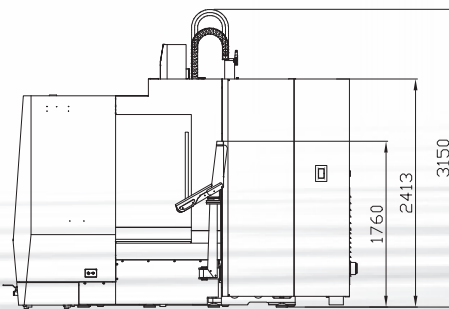


20,000rpm (optional)

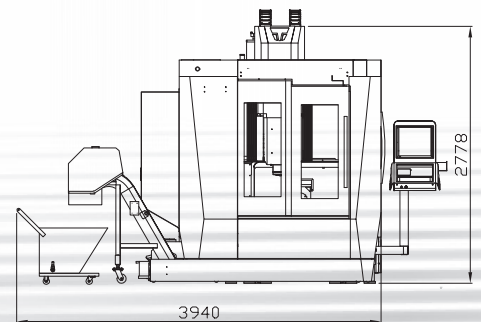
Dimensions



Top view



Side view



Front view

Unit : mm

Standard accessories

- FANUC 0iMF Controller
- Spindle air blast
- Cutting coolant system
- 3-axes absolute encoder motors
- Washing gun & air gun
- Manual pulse generator (MPG)
- Leveling bolts & pads
- 15000 rpm, direct-drive spindle, BBT
- Cutting air blast
- Automatic centralized lubrication system
- Working light
- Oil skimmer
- Air conditioner for electrical cabinet
- Operation manuals
- 30T, arm type ATC, BBT40
- Spindle oil cooler
- Fully enclosed splash guard
- Indication lamp
- Coolant tank & coolant flushing system
- Tool kits

Optional accessories

- HEIDENHAIN TNC640 Controller
- Ball screw cooling system
- 3-axis linear scales
- Rotary table (4th / 5th axes)
- Spindle thermal compensation system
- 20,000 rpm, built-in spindle, HSK63A
- Oil mist device
- Tool length measurement system
- Steel belt type chip conveyor
- Transformer
- Coolant through spindle 30bar
- Oil mist collector
- Workpiece measurement system
- Scraper type chip conveyor
- CE



No.10, Gong 10th Rd., Dajia Dist,
Taichung City 437, Taiwan
Tel : 886-4-26811215
Fax : 886-4-26822803
Website : <http://www.takumi.com.tw>
E-mail : sale-os@takumi.com.tw

