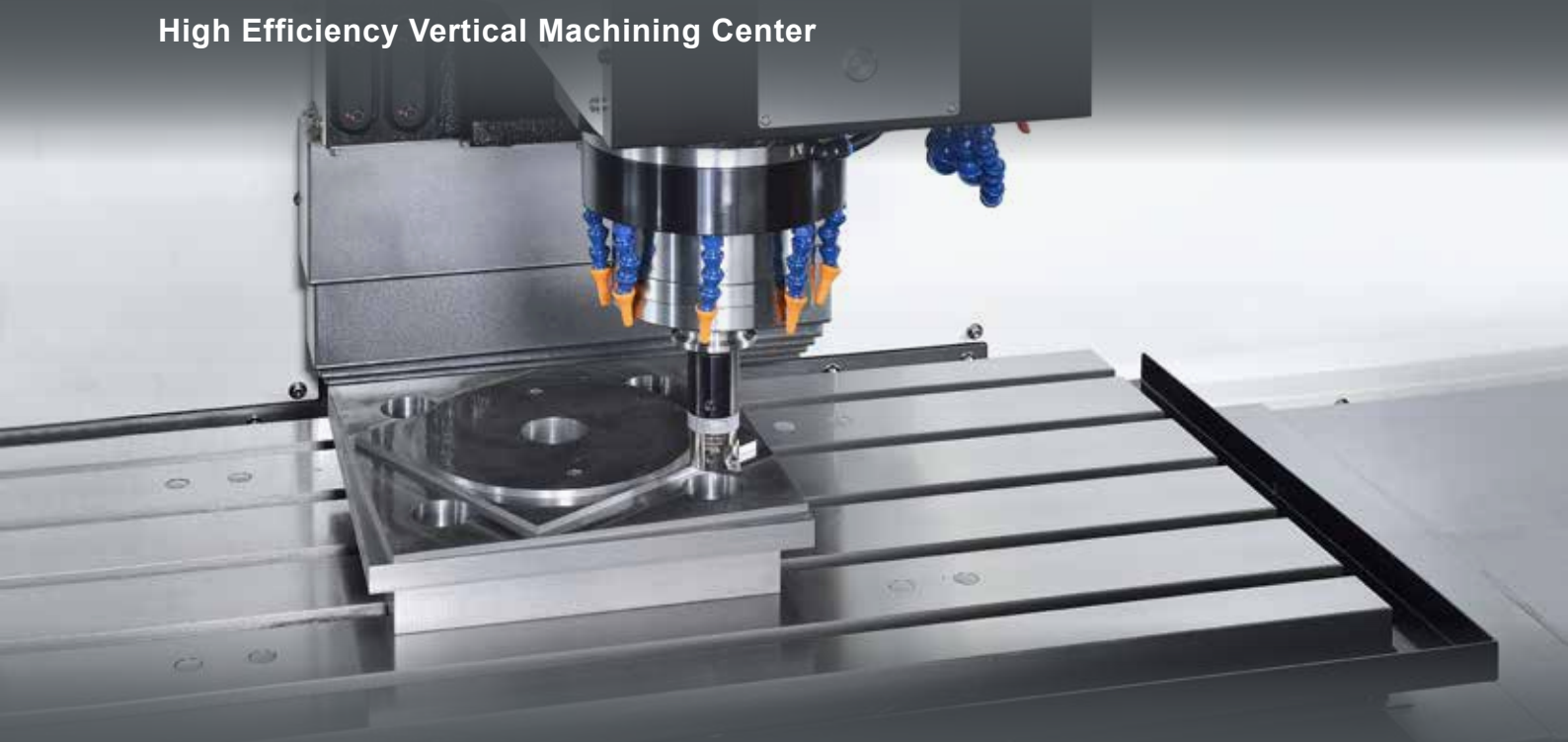


E5

High Efficiency Vertical Machining Center



Stable, Reliable and More Affordable Than Ever

E5, a high efficiency vertical machining center, with high productivity for various production needs, particularly in job shops.



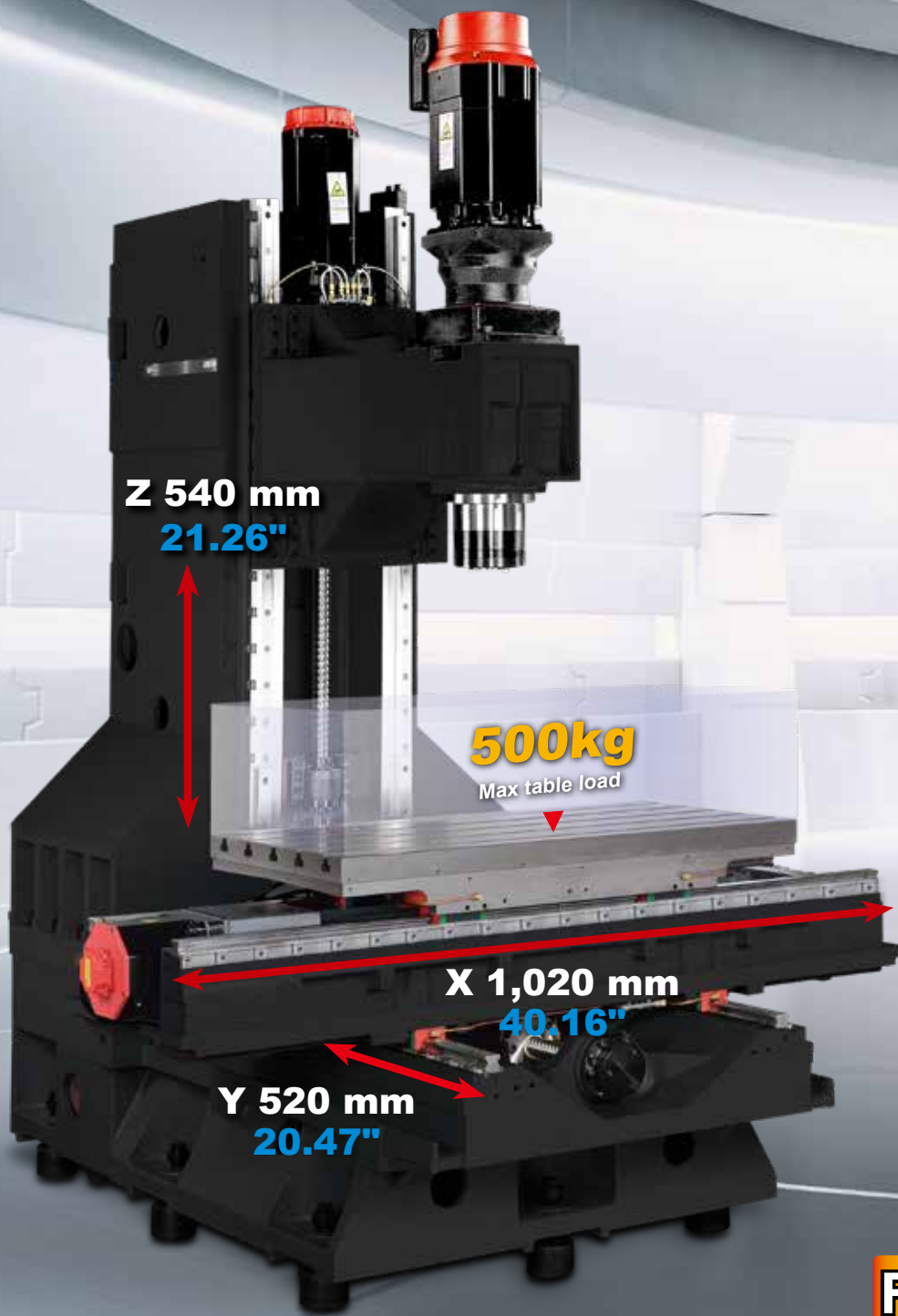
| Job Shop |



| Job Shop |



| Job Shop |

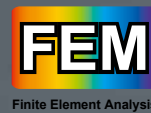


Z 540 mm
21.26"

500kg
Max table load

X 1,020 mm
40.16"

Y 520 mm
20.47"



1

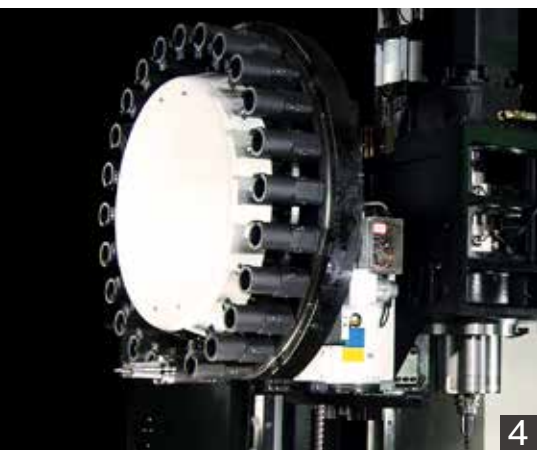


2



3

| 1. 10,000 rpm spindle with ceramic bearings design | 2. High rigidity ball type guideways on X/Y/Z axes |
| 3. High precision ball screws adopted on X/Y/Z axes |



4



5



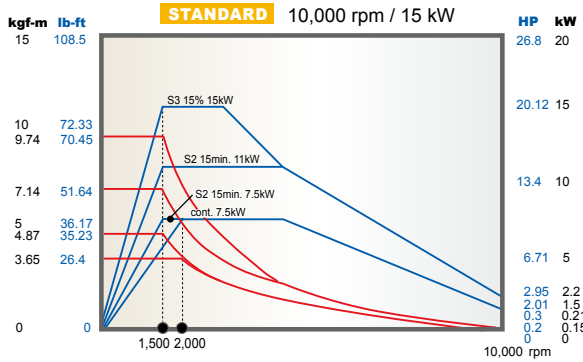
6

| 4. 24T for disk type tool magazine | 5. Auto tool change time (T-T): 1.8 sec. |
| 6. Absolute encoder ATC system |

Power Chart

POWER

TORQUE



Cutting Capacity

BBT40

10,000rpm

Fanuc System

FACE MILL S45C Steel

Material Removal Rate

459 cc/min

Tool ø63 mm x 5T
Spindle Speed 1,500 rpm
Feedrate 4,500 mm/min.
Width of Cut 60 mm
Depth of Cut 1.7 mm

FACE MILL S45C Steel

Depth of Cut

5 mm

Tool ø80 mm x 5T
Spindle Speed 600 rpm
Feedrate 450 mm/min.
Width of Cut 60 mm

END MILL S45C Steel

Depth of Cut

6 mm

Tool ø32 mm x 3T
Spindle Speed 500 rpm
Feedrate 225 mm/min.
Width of Cut 32 mm

U-DRILL S45C Steel

Cutter Diameter

ø38 mm

Tool ø38 mm x 1T
Spindle Speed 1,500 rpm
Feedrate 150 mm/min.
Depth of Cut 38 mm

TAP S45C Steel

Tapping

M20

Tool M20 x 2.5P
Spindle Speed 90 rpm
Feedrate 225 mm/min.
Depth of Cut 20 mm

RIGID TAP A6061 Aluminum

Tapping

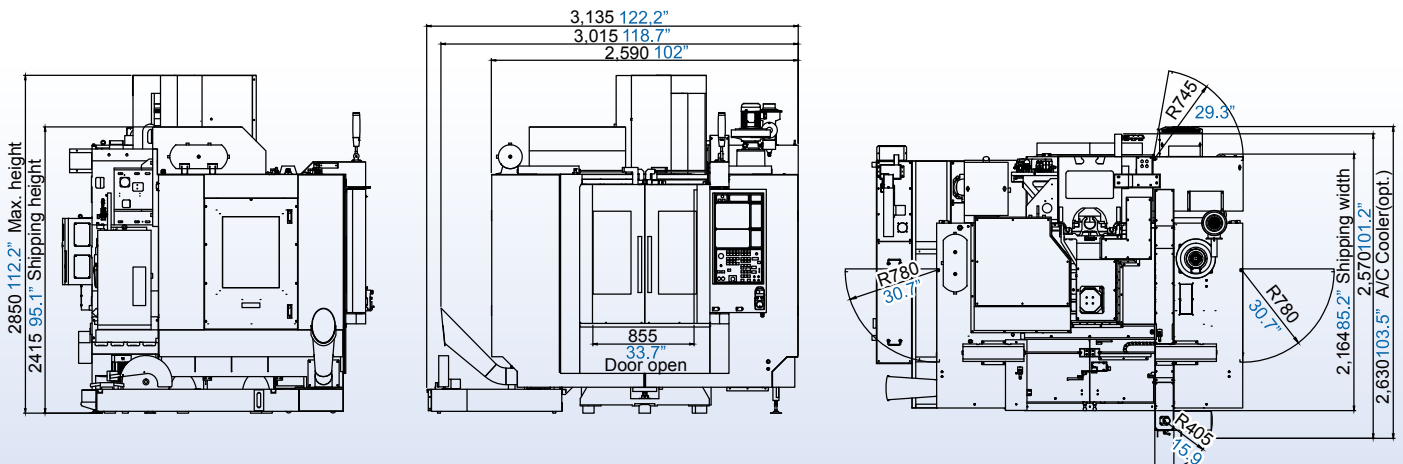
M1.2

Tool M1.2 x 0.25P
Spindle Speed 1,200 rpm
Feedrate 300 mm/min.

Note: Above cutting test was performed by E5 with 10,000 rpm spindle. Cutting test data for reference only.
All cutting tests are designed to demonstrate maximum machining capabilities without preserving tool life.

Dimensions

Unit: mm inch



Specifications

E5	
SPINDLE	
Spindle Speed (opt.)	10,000 rpm
Spindle Power (opt.)	7.5 / 7.5 / 11 / 15 kW 10 / 10 / 15 / 20 HP
Spindle Taper	BBT40
TRAVEL	
X / Y / Z -axis Travel	1,020 mm / 520 mm / 540 mm 40.16" / 20.47" / 21.26"
Distance Between Spindle Nose & Table Top	140~680 mm 5.51"~26.77"
TABLE	
Table Size	1,120 x 520 mm 44" x 20.47"
No. T-slots x Size x Pitch	5 x 18 mm x 100 mm 5 x 0.71" x 3.94"
Max. Load on Table	500kg 1,102 lb
FEEDRATE	
Rapid Feedrate (X/Y/Z)	36 / 36 / 32 m/min. 1,417 / 1,417 / 1,260 ipm
Cutting Feedrate	1~20,000 mm/min. 0.04 ~787 ipm
ACCURACY	
	ISO 10791-4 YCM*
Axial Travel	Full Length
Positioning (X / Y / Z) A	0.032 / 0.025 / 0.025 mm 0.00126" / 0.00098" / 0.00098" 0.01 / 0.01 / 0.01 mm 0.00039" / 0.00039" / 0.00039"
Repeatability (X / Y / Z) R	0.018 / 0.015 / 0.015 mm 0.0007" / 0.00059" / 0.00059" 0.007 / 0.007 / 0.007 mm 0.00028" / 0.00028" / 0.00028"
*All values shown above are measured for the machine in good air-conditioned environments.	
ATC	
Tool Magazine Capacity	24T
Max. Tool Weight (per piece)	6kg 13.2 lb
Max. Tool Dimensions (W/O Adjacent Tools)	ø90 x 300 mm (ø140 x 300 mm) ø3.54" x 11.81" (ø5.51" x 11.81")
Tool Change Method	Arm Type
Tool Selection Method	Random
GENERAL	
Pneumatic Supplier	5.5 kg/cm ² 78.2 psi
Machine Weight	5,350 kg 11,795 lb

Note: Above specifications may vary depending on the machine and the surrounding environment. The manufacturer reserves the right to modify the design, specifications, mechanisms, etc., to improve the performance of the machine without notice. The test data provided in this catalog is performed under specific test procedures and environmental conditions.

Accessories

●: Standard ○: Option

E5	
Spindle Cooling System	○
Guideway Cover (X/Y/Z)	●
Spindle Air Blast	●
Spindle Air Seal	●
Circular Coolant Nozzle	○
Oil-mist Cutting System	○
Oil-mist Collector	○
Cutting Air Blast	●
Automatic Lubrication	●
Single-Chip Augers	●
45° Outlet Pipe (Single-Chip Augers)	●
Straight Pipe	○
Chip Conveyor	○
Shower Coolant	●
Air Gun	●
Coolant Gun	●
Oil Hole Holder Function	○
Automatic Tool Length Measurement System	○
Automatic Workpiece Measurement System	○
Oil Skimmer	○
Work Lamp, Pilot Lamp	●
A/C. Cooler for Electrical Cabinet	○
Heat Exchanger for Electrical Cabinet	●
Safety Door	●
Automatic Door	○
Full Chip Enclosure with Top	●
Full Chip Enclosure (Back Cover)	○
Leveling Blocks & Screws	●
Foundation Bolts	○
Mechanical, Electrical and Operating Manuals	●
Tool Kit	●
CNC Control: FANUC MXP-200FA*	●

Note: Above specifications may vary depending on the machine and the surrounding environment. The manufacturer reserves the right to modify the design, specifications, mechanisms, etc., to improve the performance of the machine without notice.



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