

CNC Vertical Machining Center

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With outstanding high speed and high precision machining capabilities, Manford VX1300 5-Axis Machining Center has been highly recognized by customers. VX1300 is designed with a swiveling spindle head and equipped with a 15,000 rpm built-in type high speed spindle. In addition, the machine employs an embedded rotary table. Any complex workpiece can be accomplished with only a single setup.

Direct-Drive Spindle Head

Eliminate the use of the counter-balance weight for a conventional spindle head. Manford VX 1300 5-Axis Machining Center is specially designed. It employs a big power motor to directly drive the spindle head for vertical movement, in combination with pneumatic counter-balance, which results in better flatness for machining.

Four Linear Ways on Base

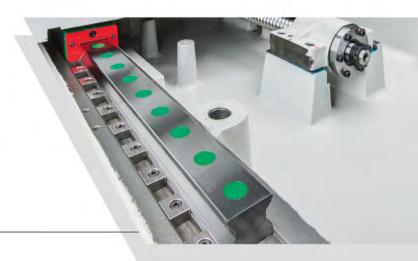
The base is a massive structure, which is mounted with 4 roller type linear guideways. This combined with great span between linear ways, provides solid support for the table. Especially when performing high speed machining, the machine will exhibit extraordinary stability.





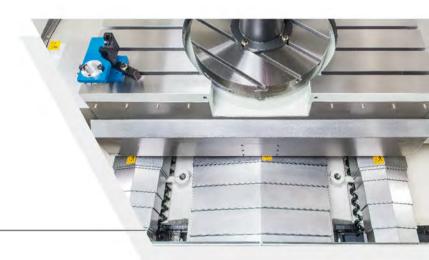
Roller Type Linear Guideways

The linear motion guideways feature low friction and are free from stick-and-slip problems. These characteristics are especially suitable for high speed 3D cutting and finishing. The quality of the workpiece surface is increased, and the need of the manual polishing of workpiece surface is minimized.



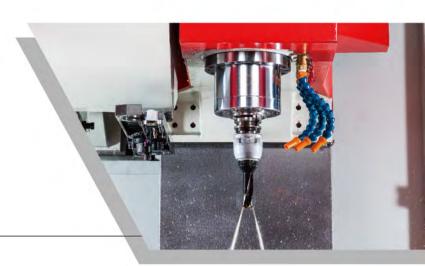
Double Chip Augers on BASE

The double chip augers deliver chips out of machine during cutting that prevent chips from depositing themselves in the machine. Another benefit is to save time and labor cost in chip removing by the operator.



Coolant Through Spindle(OPT)

The coolant through spindle device employs powerful cutting fluid that flow through the center of the spindle for cooling the cutting tool and the workpiece. This device not only helps to upgrade machining quality, but also extends the service life of the cutting tool.



15,000rpm Built-in Type Spindle

 VX 1300 is equipped with a 15,000 rpm built-in type spindle with features of compact construction, light weight, low inertia, low vibration and low noise.

+ The spindle can resist long time high speed machining and achieves high machining accuracy and fine finish on workpiece surfaces.

+ Dramatic increase in machining efficiency.





- + The swiveling spindle head is driven by an axial servo motor in combination with the use of an encoder, which allows indexing accuracy to reach 15 arc sec.
- + Worm shaft/worm gear transmission with high precision.
- + Swiveling angle of the spindle head is \pm 120°.
- + Hydraulic clamping without vibration.



Rotary Table (C-Axis)

+ The rotary table is mounted in the rectangular table, making the machine suitable for machining various shapes of workpiece with space saving.

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- + The rotary table is directly driven by a servo motor in combination with the use of an encoder, enabling indexing accuracy to reach ± 10 arc sec.
- + Minimum indexing degree is 0.001°.

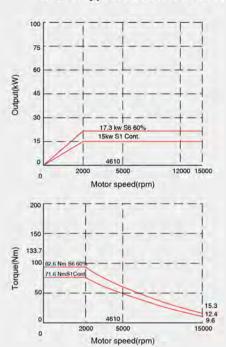


Servo Drived 24 Tools ATC

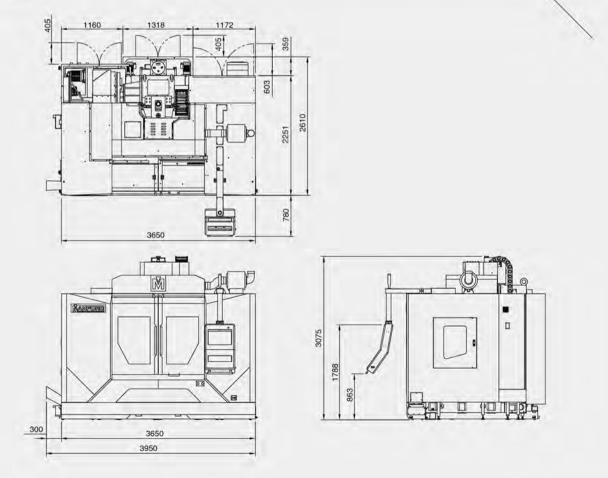


Spindle Torque Diagram

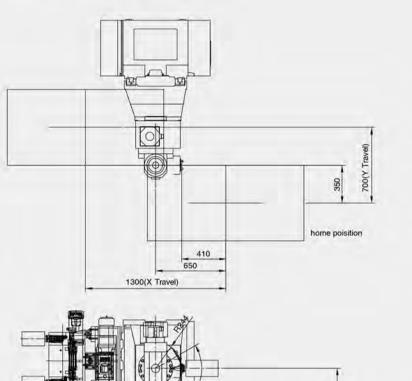
Motor Type: E+A mW16/17-8

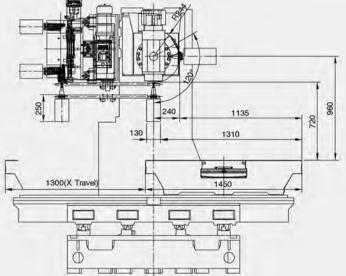


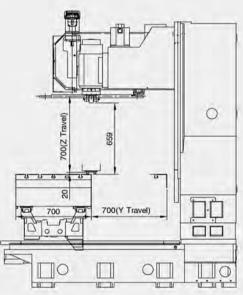
Floor Plan

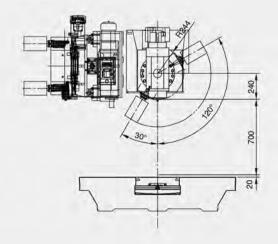


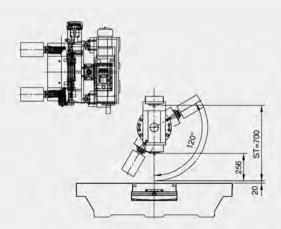
Processing Range









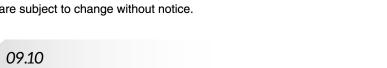


Specifications

Model Unit WX-1300 X-axis travel mm 1300 Y-axis travel mm 700 Z-axis travel mm 700 Spindle nose to table surface (vertical) mm 20~720 Spindle center to tolums surface (guideway surface) 770 Table 770 770 Table (Cty X W X Dist.) (mm) mm 5X18X125 Table size (mm X mm) mm 700X1450 Max. table load (kgs) kgs 1000 Spindle speed (rpm) rpm 15000 Bult-in type spindle spindle speed (rpm) rpm 15000 Bult-in type spindle spindle motor (kw) kw 15/19.4 Torque output of spindle motor 71.6/92.6 Spindle hole (mm) BBT40 Spindle hole (mm) mm 70 Spindle hole (mm) BBT40 Swiveling Spindle Head (8-axis) Transmission Worm shaft/worm gear Speed ratio 1.120 1.120 Max. speed artio 0.001 0.001 Rotary Table (C-axis)<	•		
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	space occupied (mm x mm)	mm	46/UX34UU

All specifications are subject to change without notice.







Standard Accessories

- Rigid tapping
- RJ-45 interface
- Automatic lubrication system
- Work light
- Auto power off
- Air conditioner for electrical cabinet
- Double chip augers on base
- Scraper type chip conveyor
- Spindle oil cooler
- B, C-axis encoders
- Coolant jets around spindle
- Screw type chip conveyer
- Remote handwheel

Optional Accessories

- Linear scale
- Automatic tool measuring device
- Workpiece coordinate measuring device
- Coolant through spindle
- Chain type chip conveyor
- High pressure coolant flush device on base
- Transformer