

CICK TAPPING CENTER WILEMAN



ECOM, you can rely on.



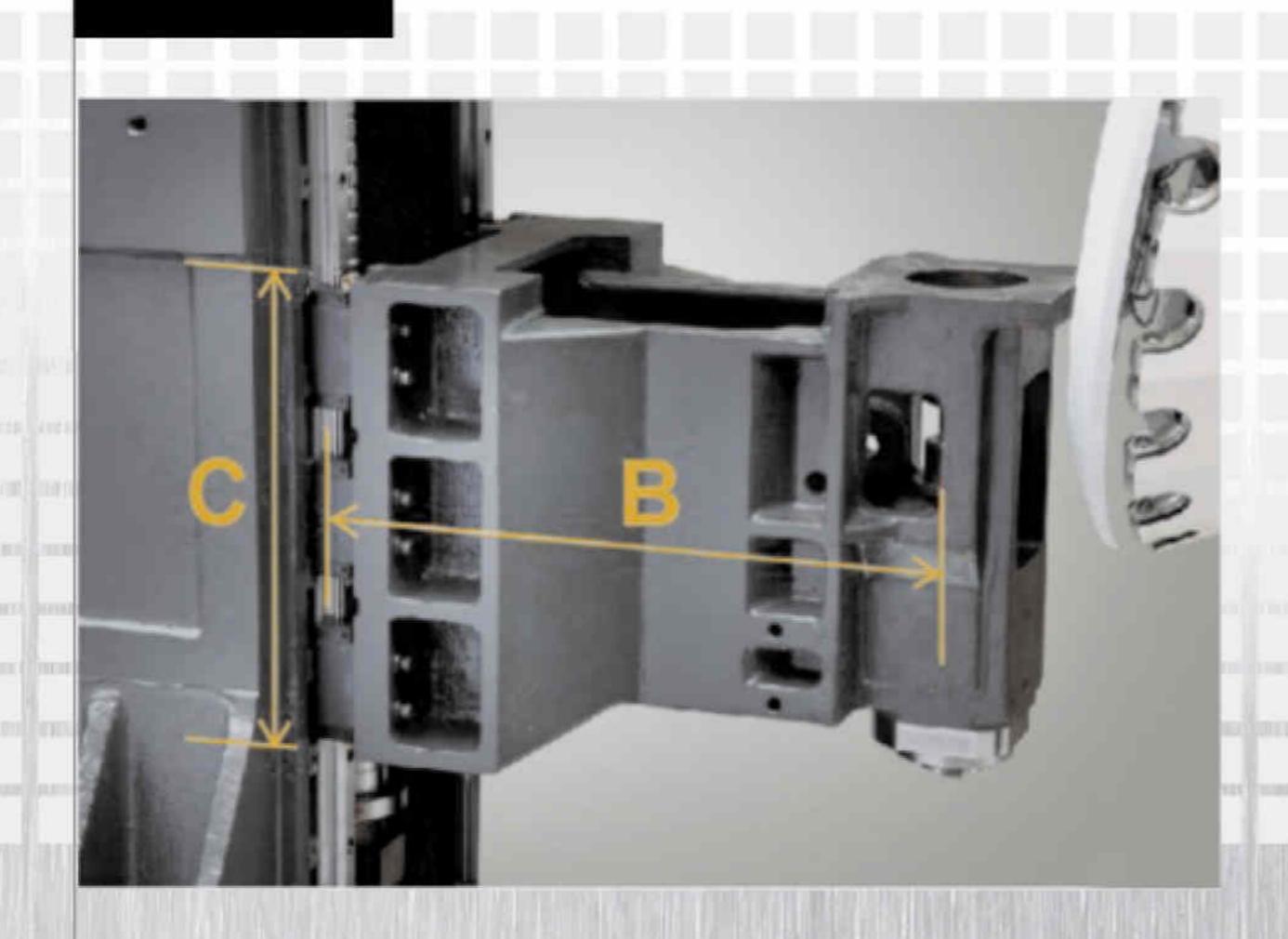
High-rigidity&High-precision

Structural Design

The major machine components are based on Meehanite cast iron, which is stable in material composition, ensuring machine's long-lasting structural quality.

Linear guide way is adopted on all three axes in order to withstand heavy loading and tolerate rapid movement, as well as ensuring precise positioning.

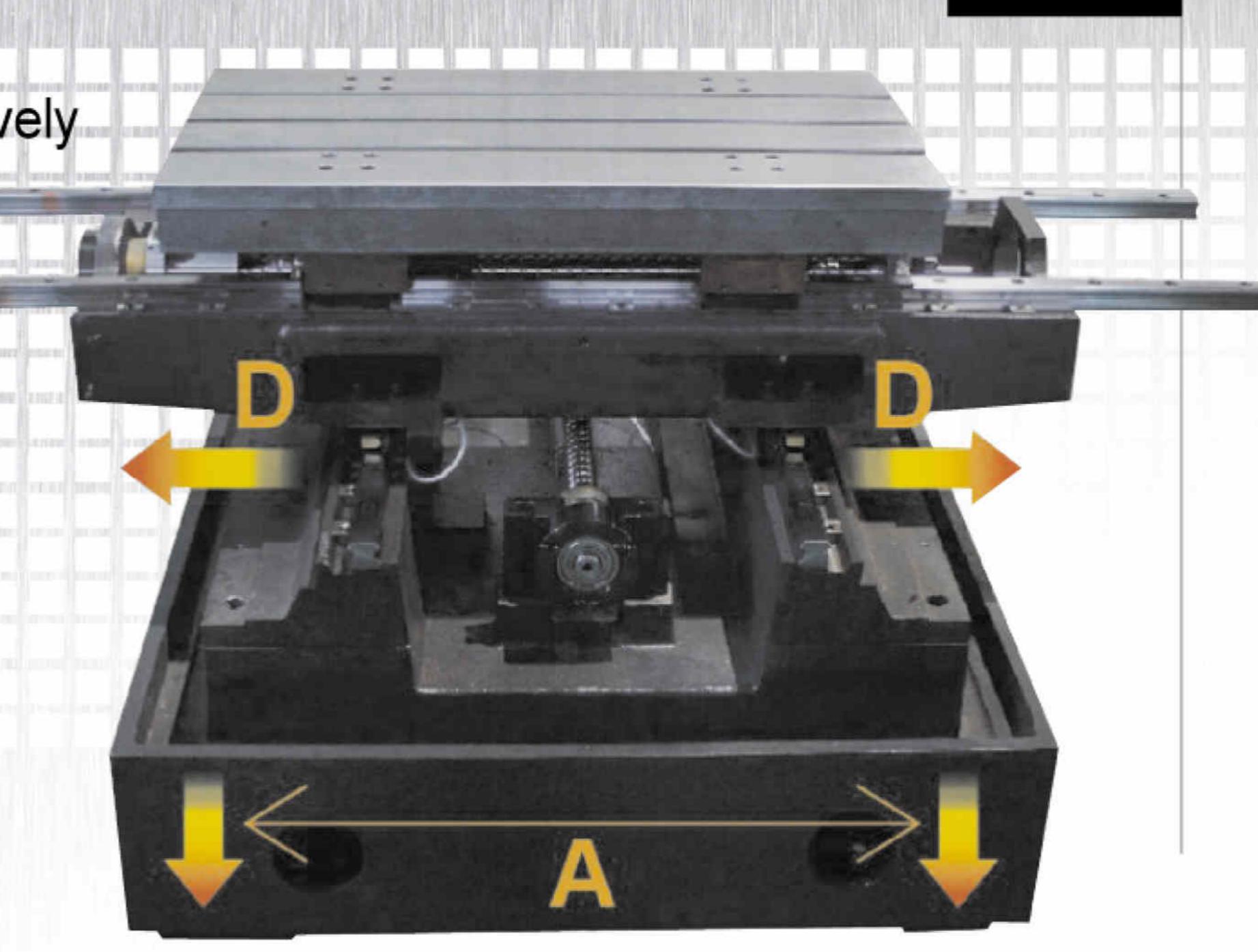




Optimized design of contacting ratio between Spindle head and column(A:B)provides spindle Head & Spindle rigidity in heavy cutting load, as well as ensures geometric precision of spindle.

Structural Design of Base Large-span Base Design

- The large-span base effectively supports and evenly dispersesthe load force from the saddle. Short cantilever of saddle ensures excellent dynamic precision.
- Heavy-duty worktable. Effective support of the machining load.

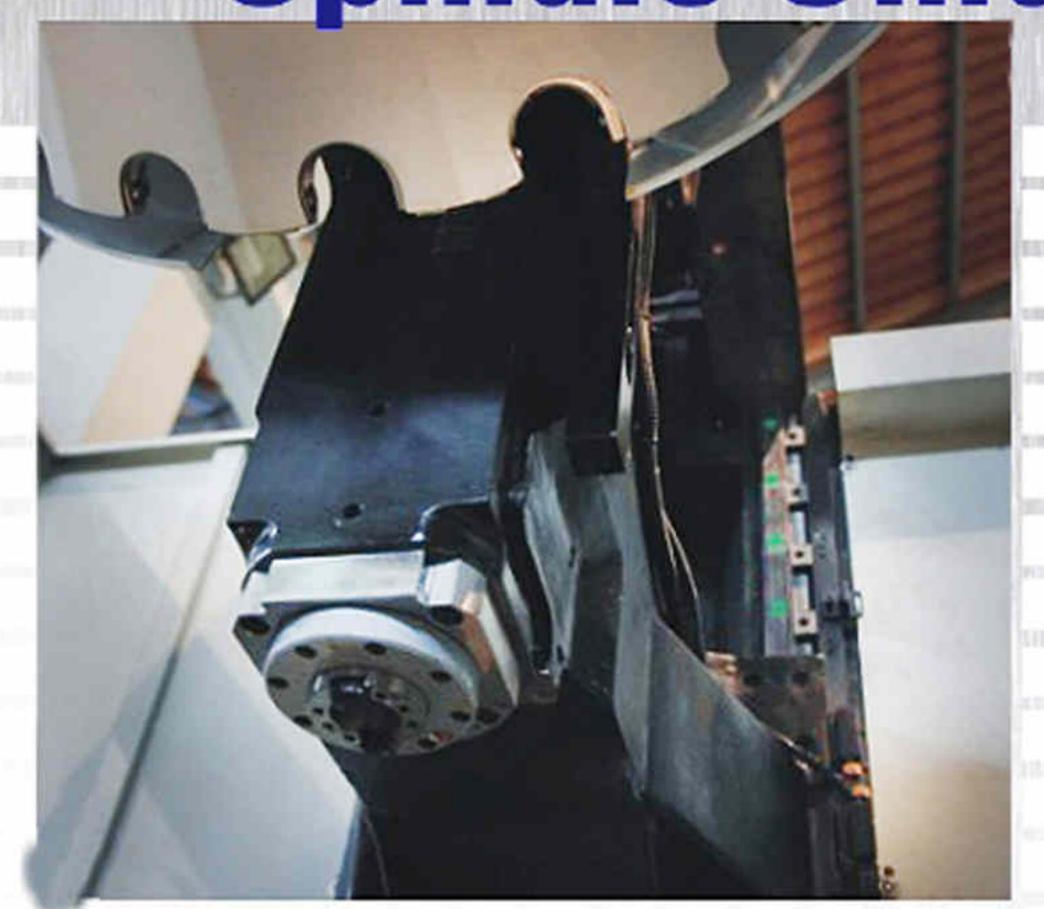


IDD-The Optimal Heat Isolation Design Isolated Direct Drive System

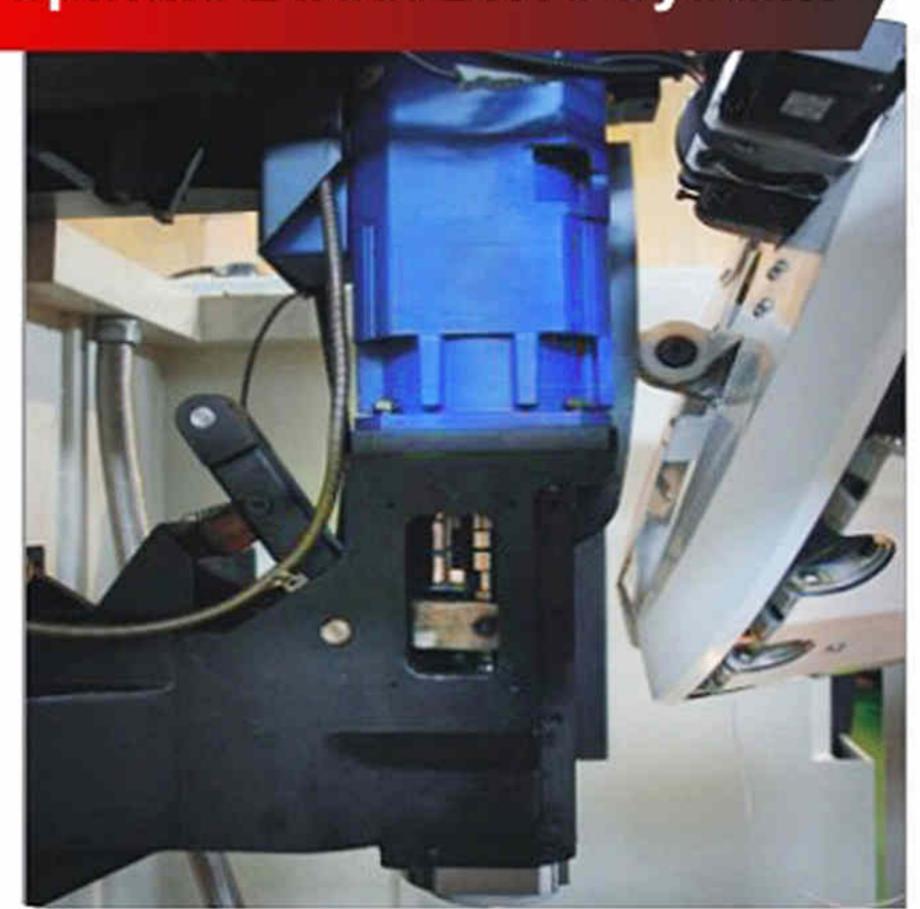
- The spindle operates without thermal effect from main motor .Thermal displacement is reduced,thus, the spindle precisionand lifespan is guaranteed .
- The spindle is directly coupled to the motor. No noise,backlash,or vibration problems.
- The transmission efficiency is extended from integration of direct coupling. The high quality rigid tapping can be achieved through rotation detection of the motor directly.



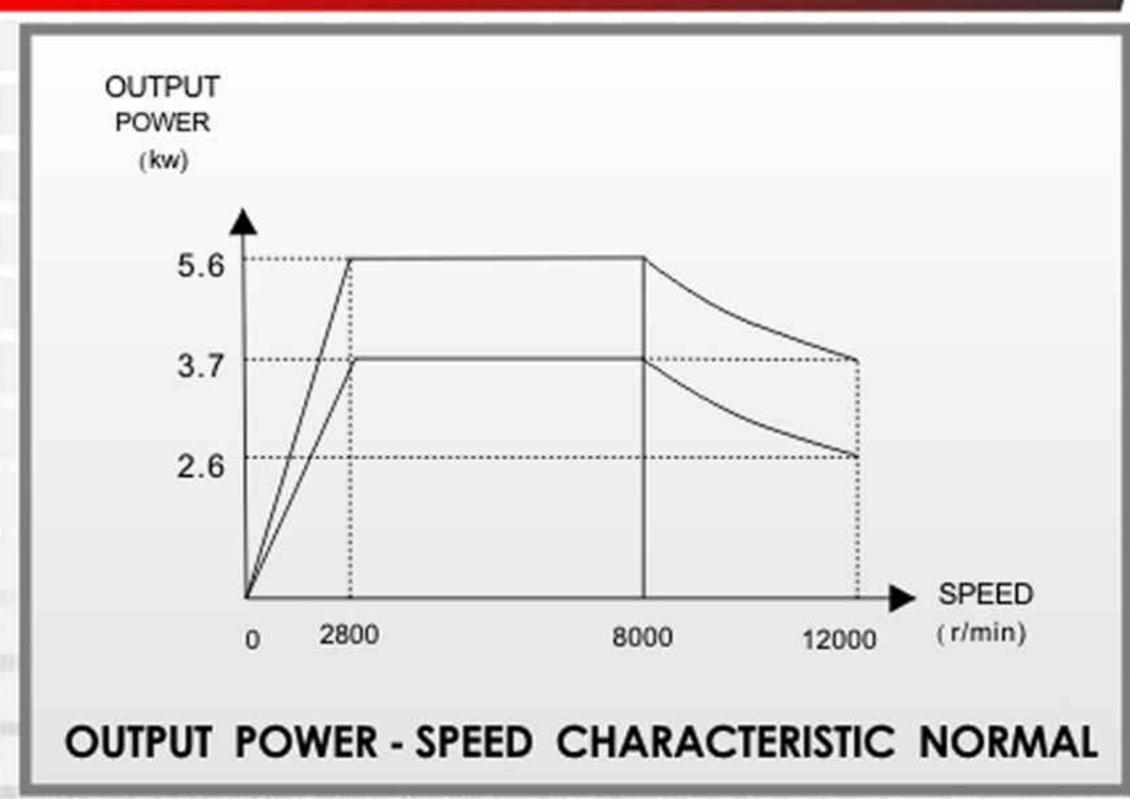
High-performace
Spindle Unit

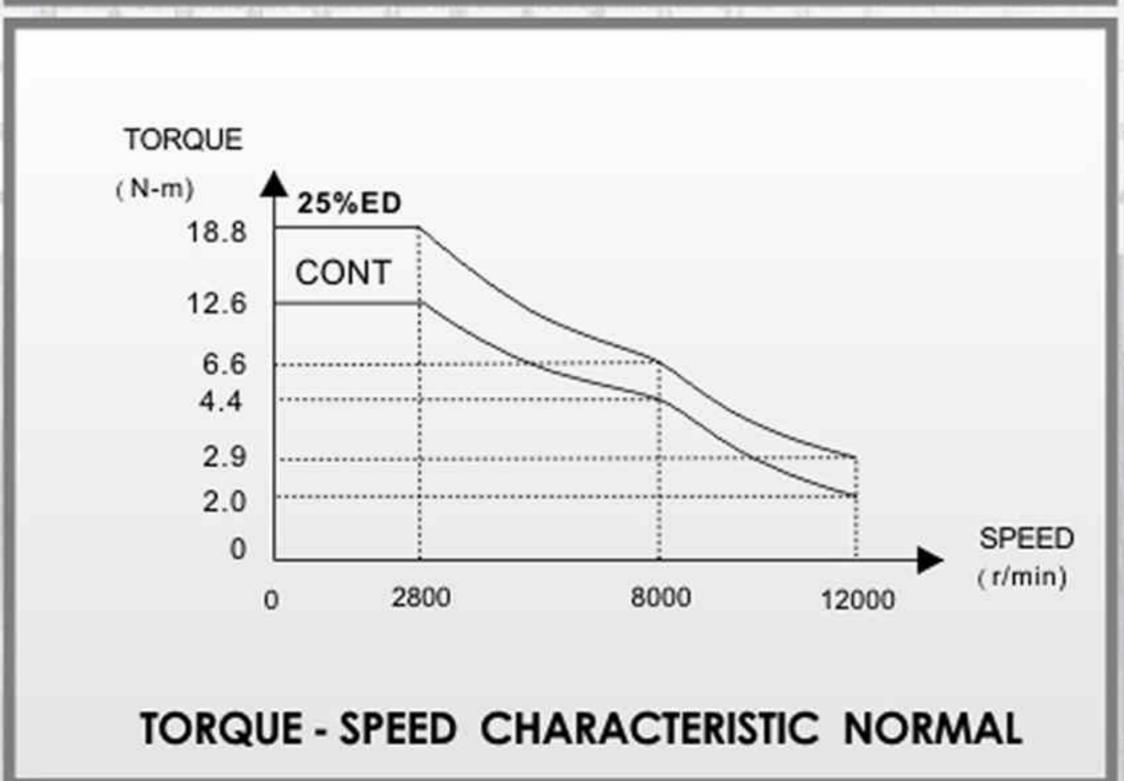


Spindle Direct Drive System

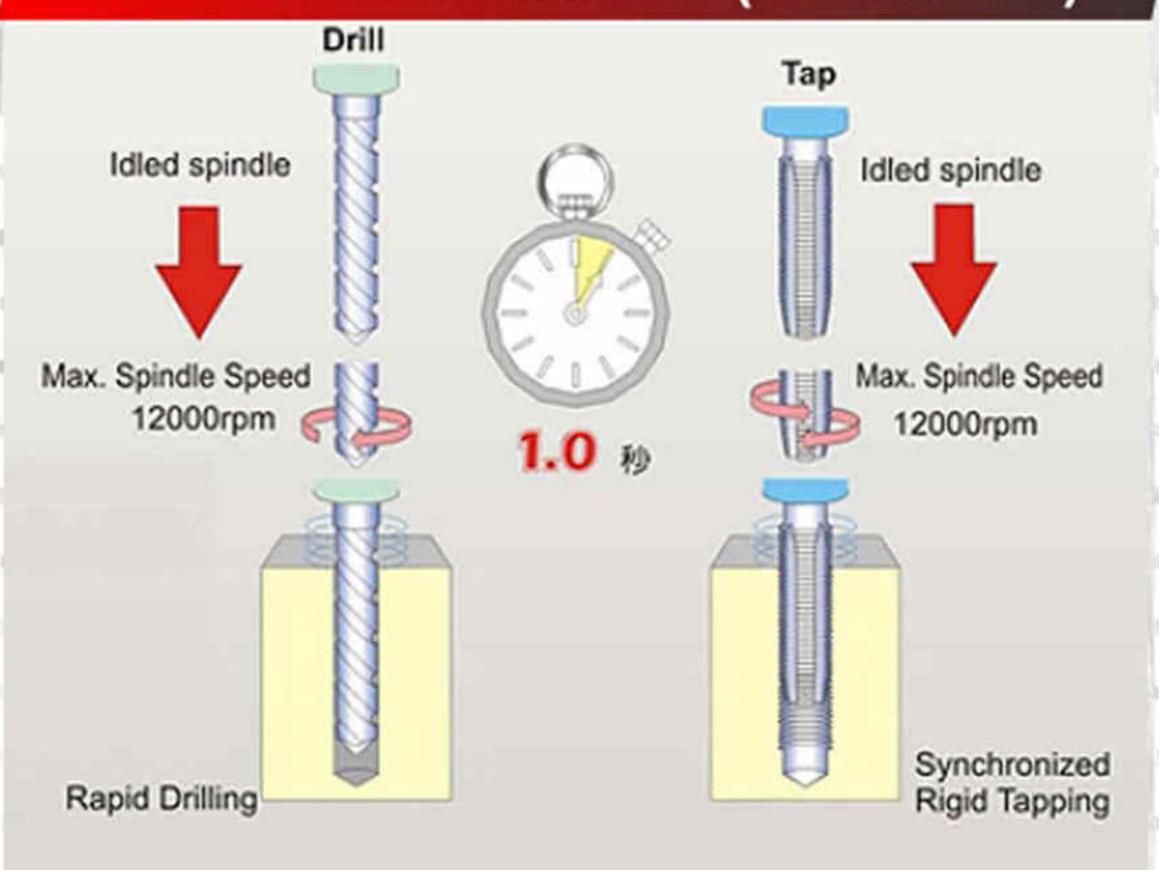


12000 RPM Spindle Power and Torque



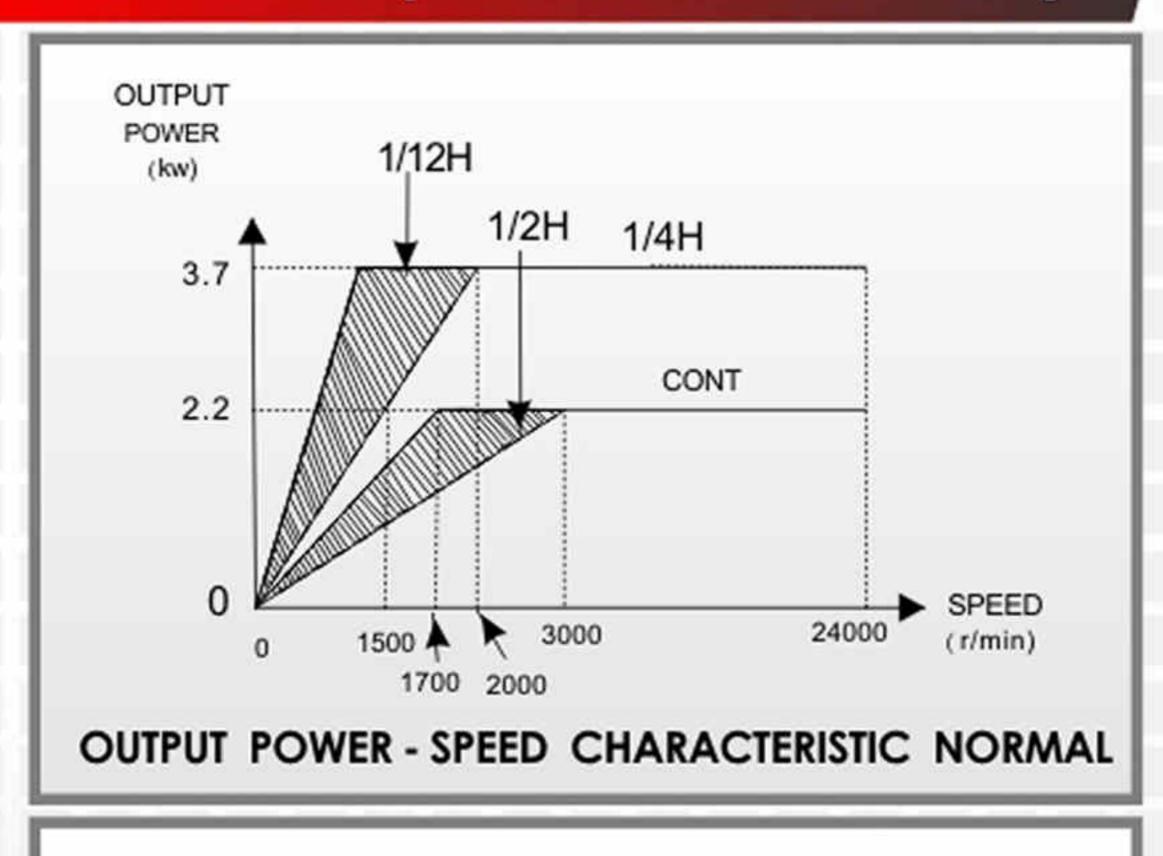


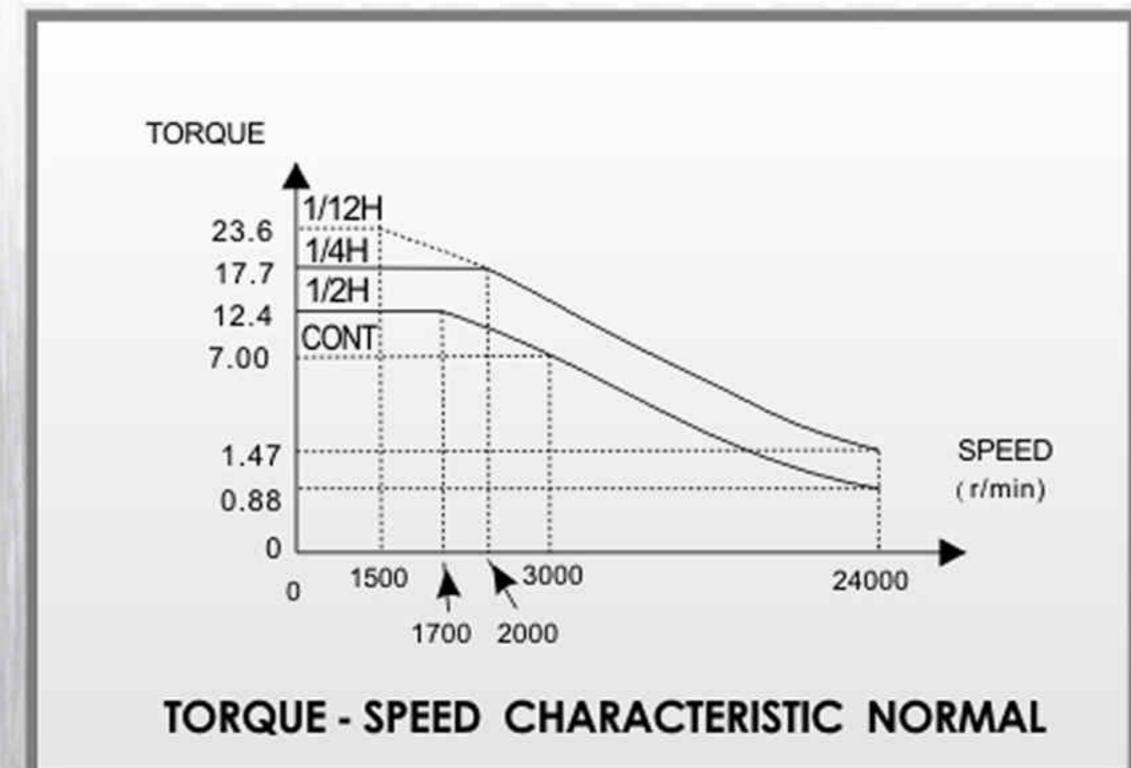
Low-Lnertia Spindle Motor Characteristics (Mitsubishi)





24000 RPM Spindle Power and Torque



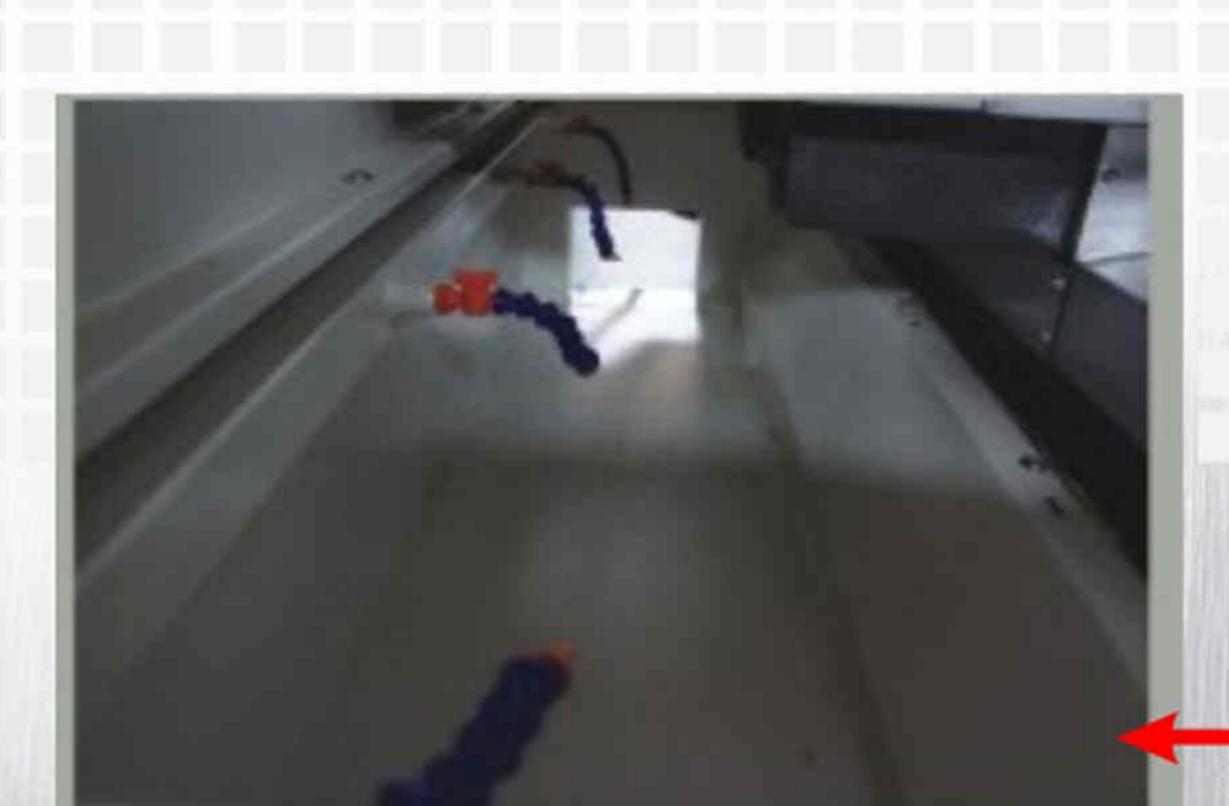


High-speed High-precision Drive System

- 3-axis direct drive motor fully eliminates backlash, achieves high-precision and provides stability during high-speed transmission.
- High-speed, high-precision linear guide way on all 3 axes ensures high acceleration and enhanced working efficiency and productivity.
- High-speed High-precision Linear Guide Way
- Linear guide ways with zero backlash ensures consistent cutting surface on curve or slope cutting.
- Ideal for high speed travel and the drive power requirement can be minimized significantly.
- By using rolling contact instead of sliding contact, linear guide way reduces friction loss, reacts, and increases positioning accuracy.
- Load capacity is high on multiple directions, Multiple contact points are maintained when machining, cutting rigidity can be ensured.

 It is easy to assembly and interchange for lubrication system.
- Long lifespan can be achieved as a result of extreme low friction loss in the linear guide way.





Optimal Chip Removal Flow

Optimal Chip Removal Angle



Automatic Lubrication System



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Optional Accessories

Top Protection Hood



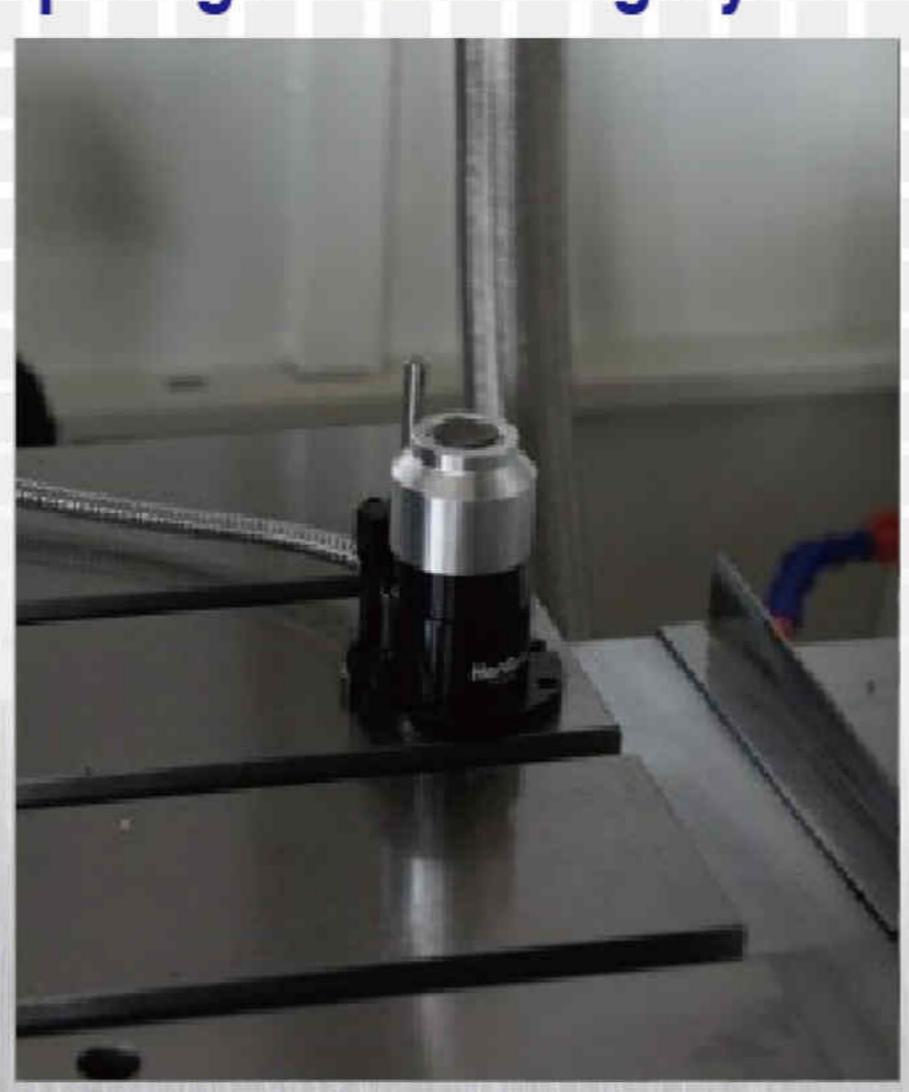
Workpiece Measurement System



4-Axis



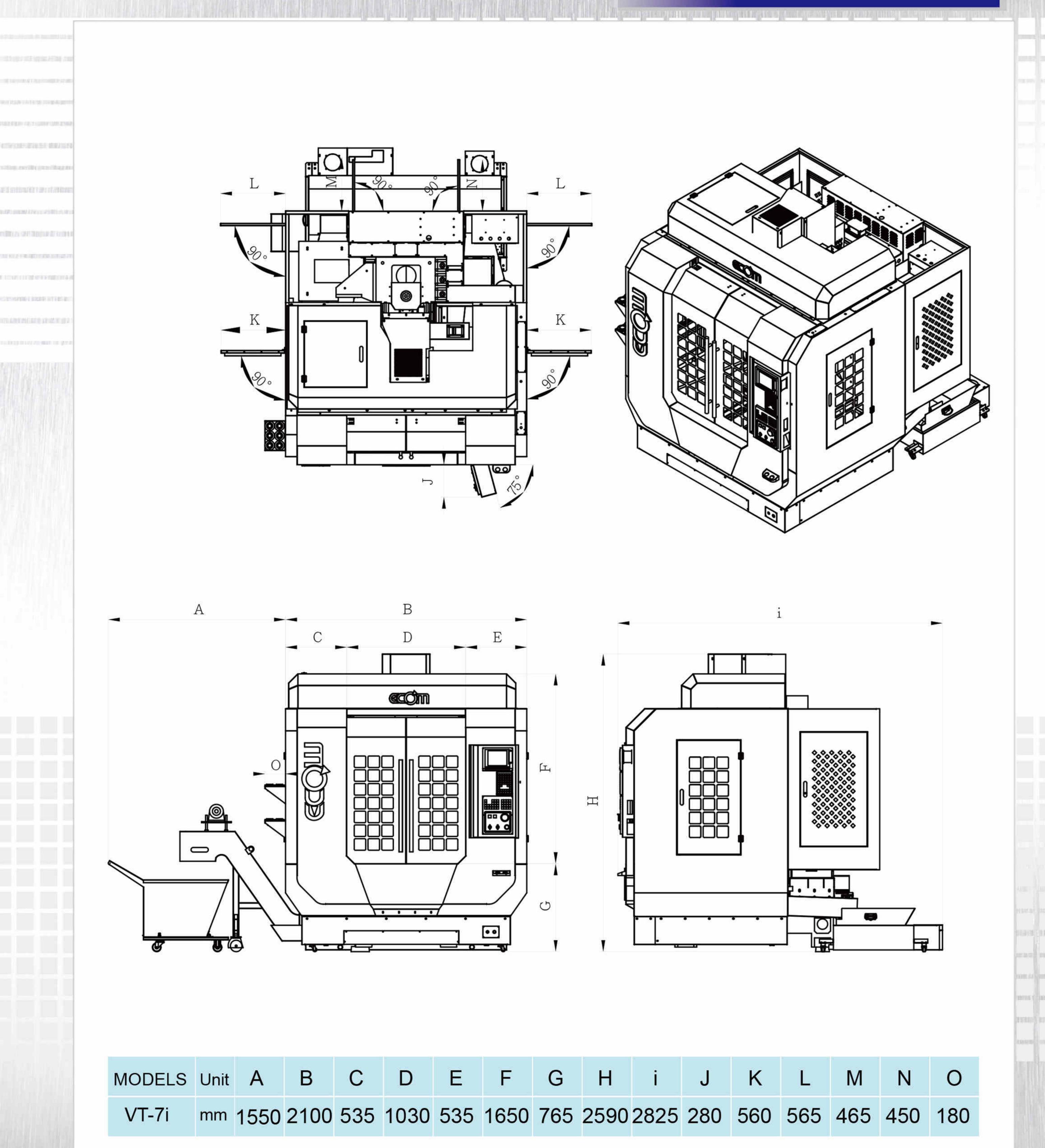
Top length Measuring System







Mechanical Dimensions



Specifications

| Specifications | | | |
|----------------------------------|-------|-------------------|-------------|
| Travel | | | |
| X - Axis Travel | mm | 700 | |
| Y - Axis Travel | mm | 450 | |
| Z - Axis Travel | mm | 330 | |
| Spindle Nose To Table | mm | 110-440 | |
| Spindle Center To Z - Rail | mm | 500 | |
| Table | | | |
| Table Size | mm | 900 X 420 | |
| T - Slot | mm | 3*14*100 | |
| Maximum Table Load | kg | 300kg | |
| Spindle | | | |
| Spindle Taper | | BT-30 | |
| Type Of Driving | | 直結式 (Direct Type) | |
| Spindle RPM | rpm | 50-12000 rpm | |
| Feed Rate | | | |
| X. Y Axis Rapid Feed Rate | m/mim | 48 | |
| Z Axis Rapid Feed Rate | m/mim | 48 | |
| X. Y. Z Max.Cutting Feed Rate | m | 10m/min | |
| Automatic tool changer | | | |
| Tool Capacity/Change Time(T-T) | | 16T (1.4sec) | |
| Max. Tool Diameter*Length | | Φ80*200mm | |
| Max. Tool Weight | kg | 3.0 kg | |
| Motors | | Fanuc | Mitsubishi |
| Spindle Motor | kw | 3.7kw/5.5kw | 3.7kw/5.5kw |
| X. Y Axis Servo Motor | kw | 2.2kw | 1.5kw |
| Z Axis Servo Motor | kw | 3.0kw BS | 3.0kw BS |
| Machine Accuracy | | | |
| Positioning Accuracy (JIS) | mm | ± 0.005mm / 300mm | |
| Repeat Poitioning Accuracy (JIS) | mm | ± 0.003mm | |
| Others | | | |
| Approximate Weight | kg | 4500 | |
| Floor Space Measurement(L*W*H) | mm | 2100*2800*2330 | |

★ SPECIFICATIONS SUBJECT TO CHANGED WITHOUT PRIOR NOTICE. THANKS!

Standard Accessories

Mitsubishi M80B Controller BT30-16T Direct Type 12000rpm Spindle coolant System Air blast through spindle Rigit tapping RS232 interface CF card interface Work lamp Alarm lamp Auto power off Auto lubrication system Cutting coolant unit High pressure water & air gun Manual pulse generator Flushing device Full splash guard Heat exchanger for control cabinet Leveling bolts and blocks Tool box Operation manual

Optional Accessories

Fanuc 0i-MF α (5) Mitsubishi M80A Controller Direct Type (20000rpm) ATC-BT 30 - 21T Servo type ATC-BT30-16T/21T Around spindle cutting coolant system Coolant through spindle column raised:100mm/200mm Tool length measurement system Disk type oil-water separator Oil mist collector 4th Axis (Φ125/170/210mm) Auto door CE standard

Products



Horizontal Machining Center Vertical Machining Center



Vertical Tapping Center



Vertical Machining Center



Double-Column **Machining Center**



E-mail:ecomcnc@hotmail.com

Taiwan Factory:

Tel: +886-4-7389907 Fax: +886-4-7382139 Address: No. 376, Sec. 3, Taihe Rd., Changhua City, Changhua County 500, Taiwan

China Factory - Fujian:

Tel: +86-596-7672668 Fax: +86-596-7672636 Address: Next To National Highway 319, Economic Development Zone of Fengtian Town, Nanjing County Zhangzhou CN



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