


The background of the advertisement is a blurred image of a CNC lathe machine in operation. A metal workpiece is being turned on the lathe bed, with a cutting tool positioned to machine it. The machine's complex structure, including the headstock, tailstock, and tool turret, is visible in the background.

 **Machinery**
CHIAH CHYUN

No Secondary Setups!
No Additional Parts Handling!

A machine that combines various tooling systems and sub-spindle offers exceptional versatility and high efficiency.

CB-32M
SLIDING
HEAD CNC
LATHE 

 **Machinery**

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Make Complicated Parts Machining in One Operation!

A Most Versatile CNC Lathe

When it comes to versatility, the CB-32M from **Machinery** will fully meet your expectations. No matter what operation - turning, milling, drilling, tapping, cutting, side turning and back machining, the CB-32M does it all in one operation. This means you get higher efficiency and greater profitability.

Applications:

Designed for various precision parts machining, such as:

- Automotive, motorcycle and bicycle parts
- Electronic and electrical parts
- Instrument parts
- Pneumatic and hydraulic part
- Sanitary and toilet wares
- Hardware
- Any other precision parts



CB

Machinery CB-32M

Dramatically Reduced Machining Time and Improved Quality

- Sliding headstock design.
- A combination of main and sub-spindle.
- ø32 mm bar capacity.
- X, Y, Z-axis rapid traverses 30m/min.
- Linear ways on 5 axes.
- PC-based control.
- Collet chucking system.
- Finished parts catcher and conveyor.





Multiple Tooling Systems for Versatile Cutting Applications



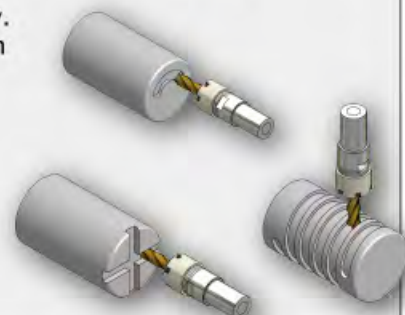
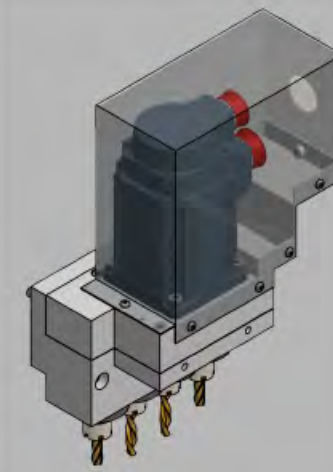

Main Tool Slide (Standard)

- The main tool slide is mounted at top of the headstock.
- It can be fitted with 6 O.D. tools with 12mm tool shank.
- The main tool slide is suitable for turning outside diameter of workpiece.


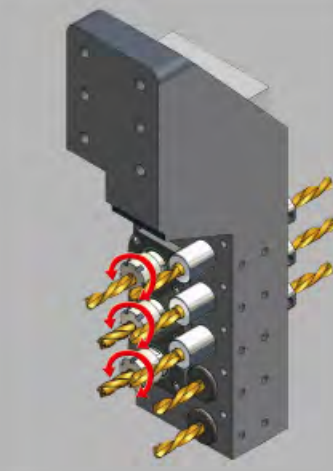
C-axis Contouring Capability (Standard)

- The C-axis features contouring capability.
- Employs a 12-person power turret driven by a servo motor.
- Rotating tool holders and tools are optional.
- 0.001 mm extra high indexing resolution ensures high precision contouring and indexing.


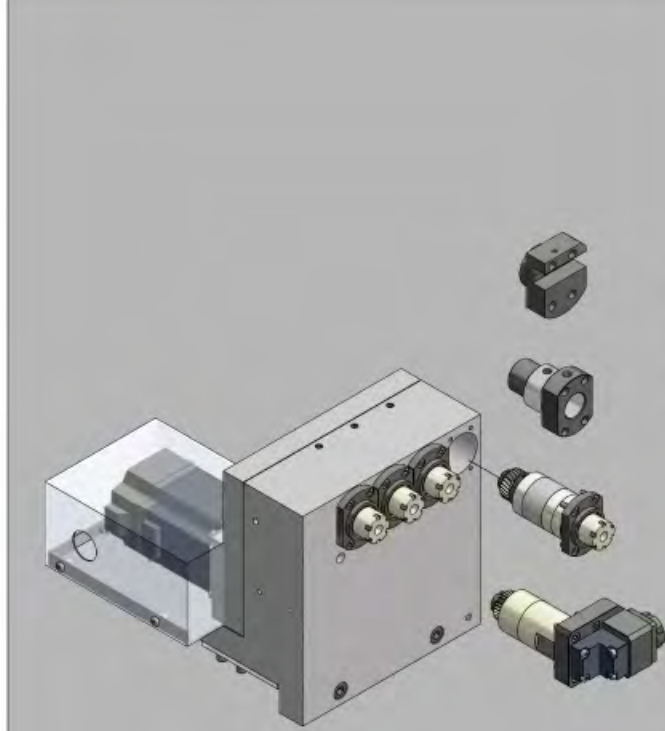
Side Milling Device (Standard)

- The side milling device is mounted at top side of the headstock.
- The device is suitable for side milling, drilling and tapping operations.
- Total 4 powered tools driven by a 1.5kw servo motor.
- Max. tool speed is 6,000 rpm.

End Milling Device (Standard)

- The end milling device is mounted in front of the head stock.
- The device is suitable for front end milling, drilling and tapping operations.
- Total 8 tools, among which 3 tools are powered and 5 tools are static.
- Powered tools are driven by a 0.75kw servo motor.
- Max. tool speed is 6,000 rpm.

Maximum Versatility of Back Milling Device (Back Milling Device)

- Upon request, the back milling device is available to mount with an O.D. or I.D. tool.
- Changing tool holder is done easily by simply loosening 4 lock screws.
- Axial machining device.
- Radial machining device (optional).
- All machining devices can be change with ease.



Sliding Head without Guide Bush

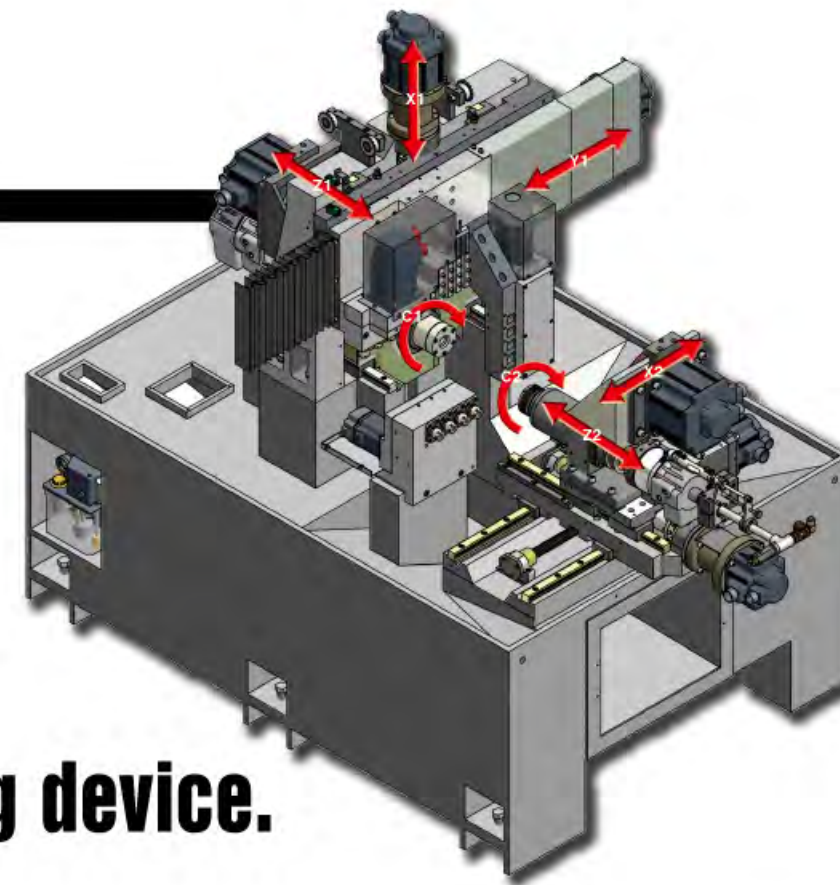
**Increased Efficiency!
Lower Production Cost!
Greater Profitability!**

Spindle head moves on two precision linear ways combined with extra large span between ways, exhibiting outstanding stability and high positioning accuracy.

Provides additional costs saving, unlike like swiss-style machines. Savings include:

- Faster Setups (No guide bushing to setup)
- Shorter Remnants (No guide bushing, remnant limited to collet length)
- Accommodate no-ground stock for saving cost.

The back side machining mechanism consists of a sub-spindle head and a back milling device.



Back Side Machining Mechanism



Precision Linear Ways

- The sub-spindle head moves on two THK precision ball type linear ways, that are combined with extra large span between linear ways for outstanding stability and positioning accuracy.
- Roller type linear ways are optional.



Sub Spindle Assembling

- The back milling device is mounted between the main and sub-spindle.
- The device is capable of performing milling, drilling and tapping operations for the back side of a part.
- Total 4 powered tools driven by a servo motor.
- Max. tool speed is 6,000 rpm.

Main Spindle

Belt-drive Type Spindle (standard)

- Motor: 5.0kW (standard)
- Spindle speed: 4,000 rpm (standard)
6,000 rpm (optional)
- Clamping system: Collet



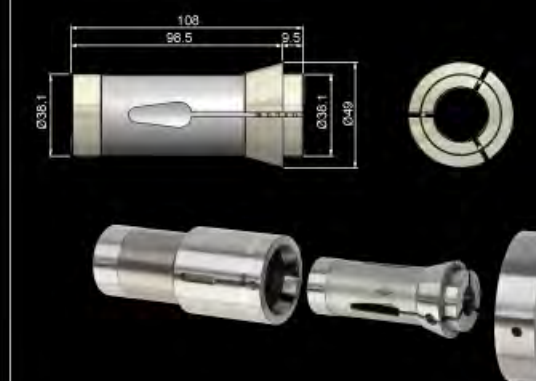
Built-in Type Spindle (optional)

- Motor: 5.5/7.5 kw
- A2-4 Spindle nose
- Spindle speed: 6,000 rpm
- Clamping system: TRB-32 Collet



Collet Chucking System for main Spindle

The collet chucking system provides a choice of 164E or 171E collet.



Sub-Spindle Belt-drive Type Spindle

- Motor: 3.5kW
- Spindle speed: 4,000 rpm (standard)
6,000 rpm (optional)
- Clamping system: collet



Collet Chucking System for Sub-spindle

- The collet chucking system provides a choice of 164E or 171E collet.



Various Controller Interfaces



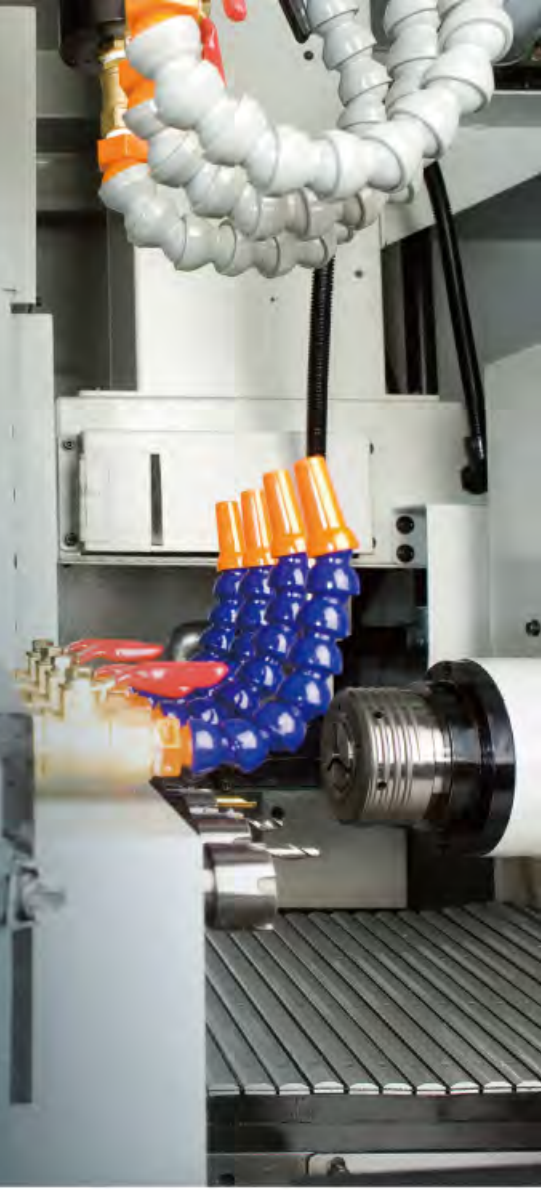
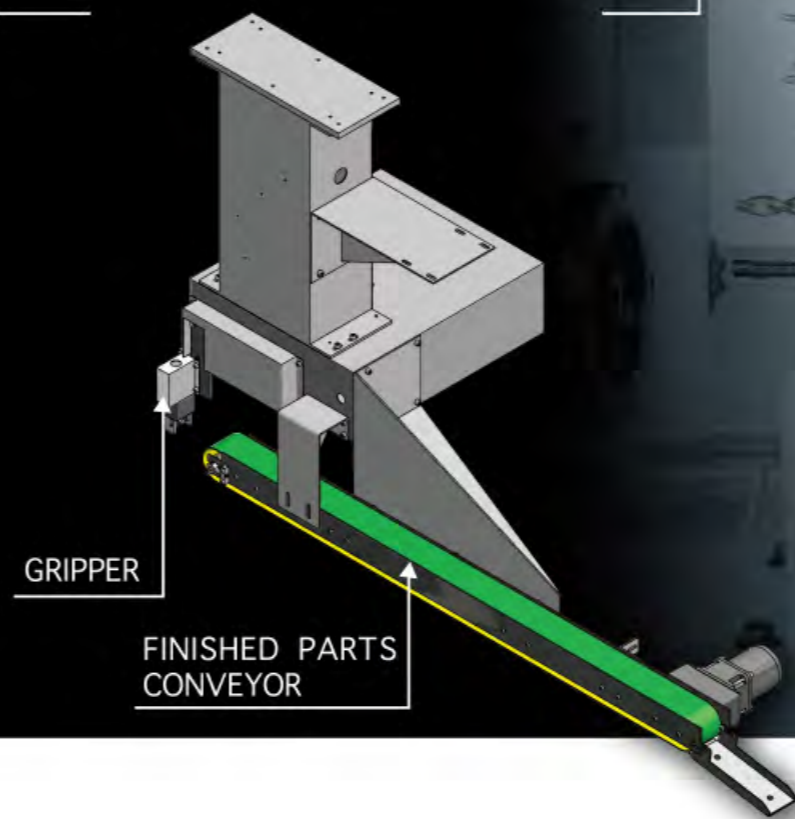
The controller is provided with various interfaces for program saving, loading and software updating, including:

- CF memory card
- RS-232C
- Ethernet



Gripper (Optional)

- Once part machining is finished, the gripper picks the finished product and moves it to a conveyor to be delivered out of the machine.
- It prevents scratching on product surface while ensuring high quality of product.



Air-Conditioner for Electrical Cabinet

The air-conditioner is provided to maintain a constant temperature in the electrical cabinet. This ensures stable control performance, and long service life of electronic parts.



140 Bar High Pressure Coolant Device (Optional)

- The high pressure coolant device is driven by a servo motor with coolant pressure up to 140 bar.
- Programmable pressure control suits various materials cutting.
- Cooling for two turrets can be controlled individually.



Chip Conveyor (Optional)

- Screw type chip conveyor with cart
- Steel belt chip conveyor with cart



Auto Bar Feeder (Optional)

When an auto bar feeder (optional) is used together with the machine, it may perform fully automatic operation. The bar feeder dramatically upgrades production efficiency, while saving labor costs.

