

Machinery Machinery

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Catalog

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Main Tool Slide

- 11 position driven tool.
- It can be fitted with 6 O.D. or 5 O.D. tool.
- The main tool slide is suitable for turning outside diameter of workpiece.

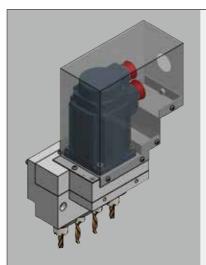




C-axis Contouring Capability

- The C-axis features contouring capability.
- Employs a 11-person driven tools by a servo motor.
- Rotating tool holders and tools are optional.
- 0.001 mm extra high indexing resolution ensures high precision contouring and indexing.

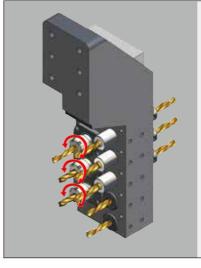




Side Milling Device

- 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

- 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.



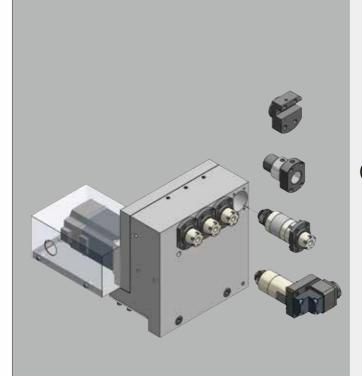


Spindle head moves on two precision linear ways combined with extra large span between ways, exhibiting outstanding stability and high positioning accuracy.

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.



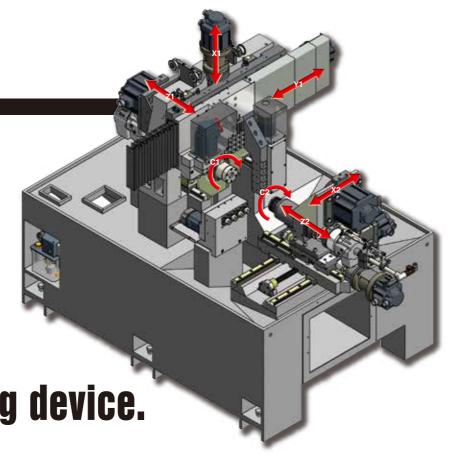


Maximum Versatility of Back Milling Device

(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.

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 roller type linear ways, that are combined with extra large span between linear ways for outstanding stability and positioning accuracy.



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.

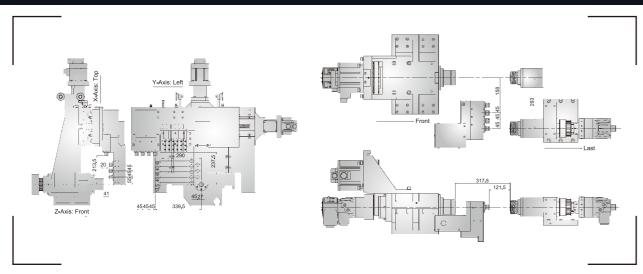




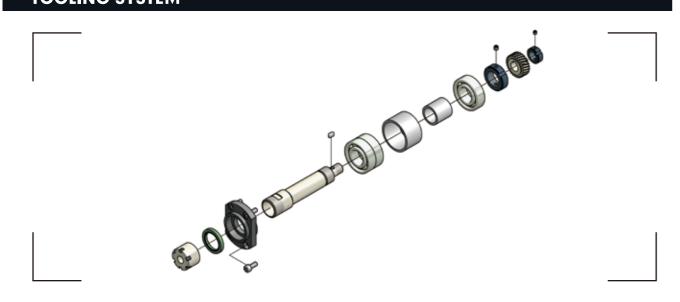




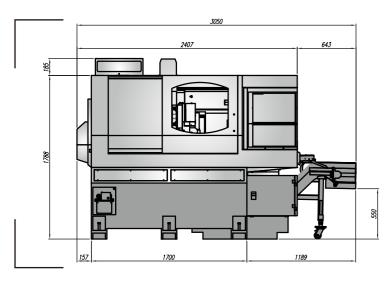
INTERFERENCE DIAGRAM

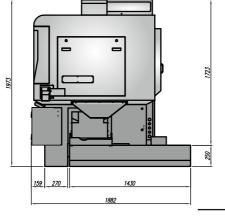


TOOLING SYSTEM



MACHINE DIMENSIONS





MACHINE SPECIFICATIONS

		Unit: mm
Capacity	CB-32M	CB-36M
Controller	Syn	tec
Spindle	·	
Max. manu. Dia.	Ø32	Ø36
Spindle max. rpm	6000	rpm
Center height	1032	
Max. bar feeding dia.	Ø32	Ø36
Collet of spindle	TRB-32	TRB-36
Spindle servo motor	7.5	kw
No. of O.D. turning tool	6 (Option: 5)	
No. of I.D. turning tool	5	
O.D. turning tool size	12 (Option: 16)	
I.D. turning tool size	Ø25	
Sub Spindle		
Max. bar feeding dia.	Ø27.5	
Sub spindle max. rpm	6000 rpm	
Collet of spindle	TRB-32	
Sub spindle servo motor	4.4 kw	
Min. input unit	0.001	
No. of turning tool	4	
I.D. turning tool size	Ø25	
Axis Travel		
X1, X2-axis travel	185 / 290	
X1, X2-axis servo motor	X1: 1.3 kw, X2: 0.85 kw	
Y, Z1,Z2-axis travel	490 / 165 / 285	
Y, Z1, Z2-axis servo motor	0.85 kw	
X,Y,Z Rapid travel speed	30 m/min	
Spindle Live Tooling		
No. of Radial live tooling	4	ļ
Radial tooling size	ER-20	
Radial live tooling servo motor	1.5 kw	
Radial live tooling max. speed	6000 rpm	
No. of Axial live tolling	3	•
Axial tooling size	ER-20	
Axial live tooling servo motor	0.75 kw	
Axial live tooling max. speed	6000 rpm	
Sub Spindle Live Tooling		
No. of Axial live tooling	4	
Axial live tooling servo motor	0.75 kw	
Axial live tooling max. speed	6000 rpm	
Hydraulic & Coolant motor		
Hydraulic motor	1 HP	
Spindle upper flush pump	1 HP	
Tank capacity		
Hydraulic tank	46 L	
Coolant tank	240 L	
Machine specification		
Auto lubricator capacity	3~6 cc / 15 min	
Power	220 V, 31 KVA	
Machine size (L x W x H)	3050 x 1882 x 1973	
(includes chip conveyor)	3030 X 1002 X 1773	
Machine N.W.(includes chip conveyor)	3800	kg

STANDARD ACCESSORIES

- Tool kit
- Drilling shaft ER20 \times 6
- Collet chuck device
- Auto bar feeder interface
- Finished parts catcher & conveyor
- Auto power breaker
- Cross side live tooling device
- Front side live tooling device
- Back side live tooling device
- Sub spindle finished parts ejector
- Air conditioner for electrical cabinet
- Chip washing coolant device & Air blowing device
- * Cutting fluid pump
- * Cutting fluid inspection device
- * Sub spindle air-blowing device

OPTIONAL ACCESSORIES

- Screw type chip conveyor & cart
- Steel belt chip conveyor & cart
- Voltage stabilizer / Transformer
- High pressure coolant device
- Gripper device
- Bar feeder
- Oil skimmer
- Oil mist collector