



CBA Series

**HORIZONTAL BORING
MACHINE**

CBA Series

CNC-TAKANG

**CNC-TAKANG CO., LTD.
MANUFACTURER & EXPORTER**

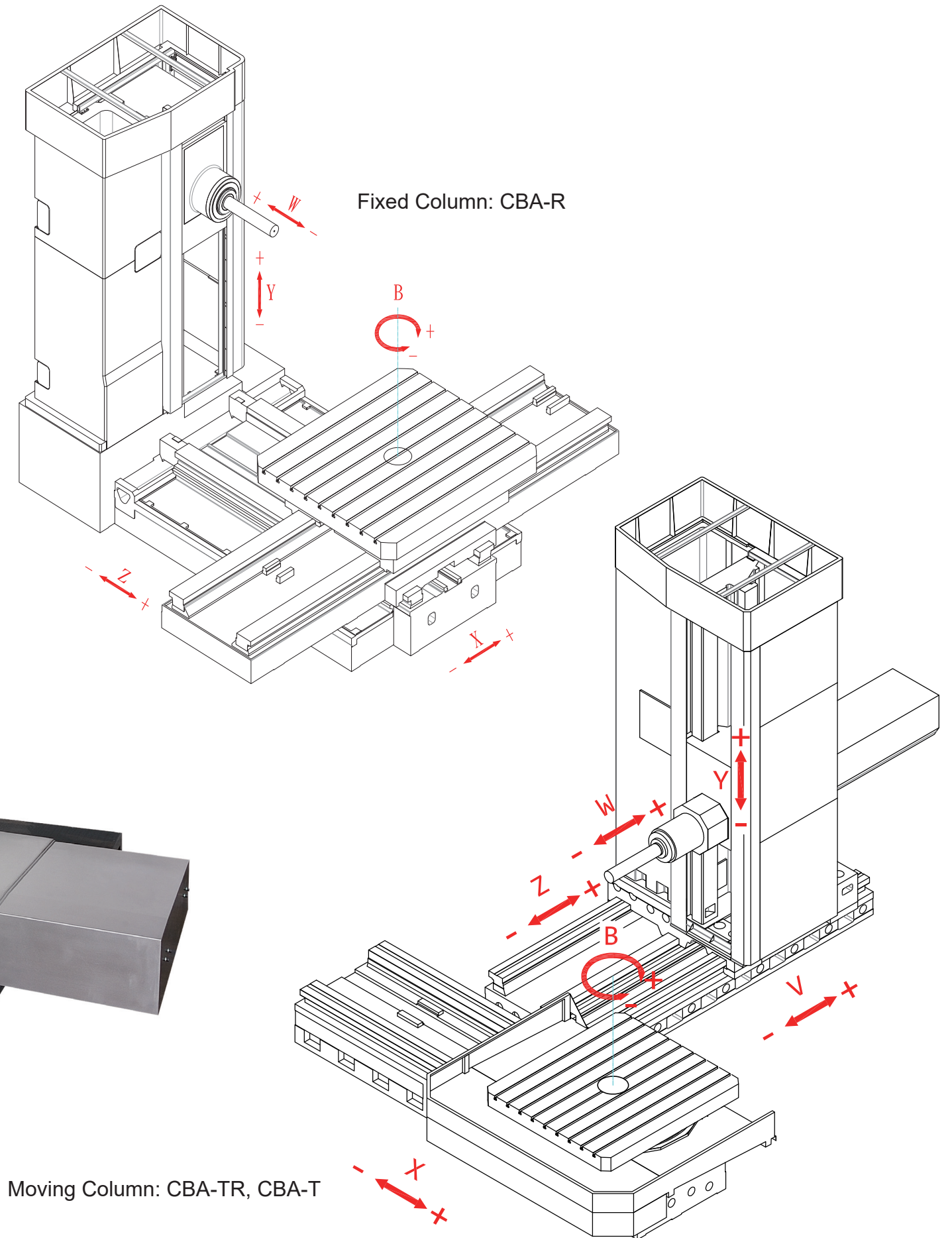
- High Accuracy • High Quality • High Rigidity

Fully automatic operation

Spindle made in house

Ideal for fabricating molds

High efficiency



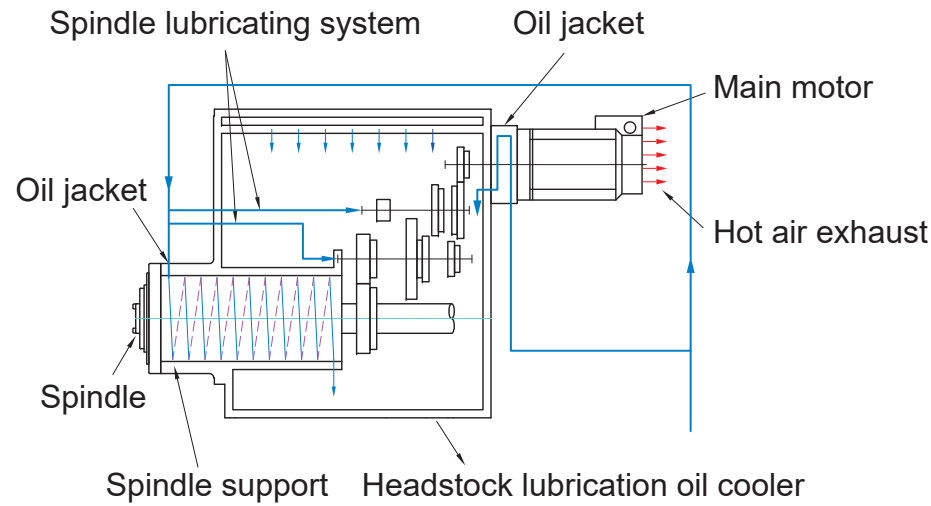
Features

High productivity

The AC digital wrap around spindle drive and motor are more accurate and responsive than traditional analog spindle drives and motors.

The spindle performance is continuously monitored to provide the most efficient cutting conditions.

Each axis is independently controlled to provide maximum feed as required.



CBA Series box way

These highly rigid box way structures give you the very best machine durability.

The material is high-frequency-heat-treat for stress relief.

The 4-in-1 design for CBA-110B and CBA-110R2 bed slide ways enhance the cutting capabilities in the Z-axis.

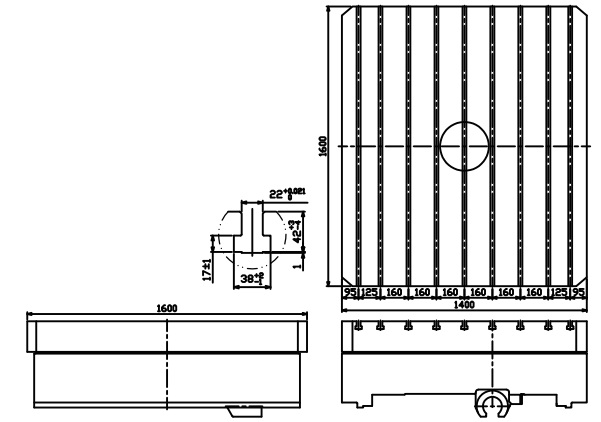
Rotary table

This special combination of highly rigid box ways, ball screws, and worm gear automatic lubrication system provides a highly satisfying compact rotary table design.

With the Heidenhain angle encoder installed in the rotary table center shaft, combined with our specially designed hydraulic clamping system and positioning index pins, our machines can achieve any cutting angle.

Reinforced heavy cutting angles at 0°, 90°, 180° and 270° are included features.

Hence resulting in superior accuracy and cutting efficiency.



Ease of operation

Fanuc, Siemens, and Heidenhain control panels are available options. These value added features will enhance your working capability, efficiency, and much more.

We are sure that you will be very satisfied with the high level of quality and Improved machine performance.

High precision slide ways

Our auto grease lubricating system provides several advantages for the overall machine capability.

It not only maintains high accuracy during the long working hours, but also functions perfectly with low speed machining.

The high precision ball screw axis transmission provides superior machine stability resulting in highly accurate work pieces.

The CBA-110R3 provides 2 additional linear slide ways to enhance durability and eliminate unwanted deflection.

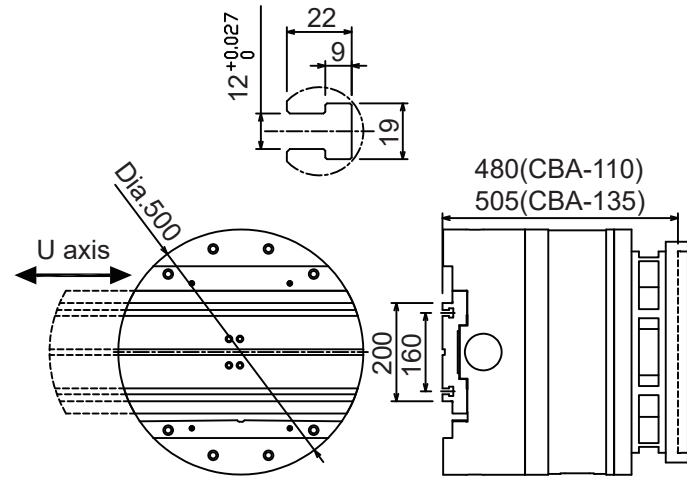
This significantly improves machine cutting accuracy.



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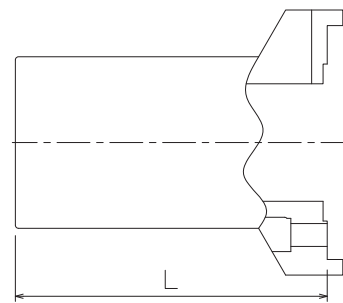
CBA-110

Face plate FH-500



U axis travel : 160mm

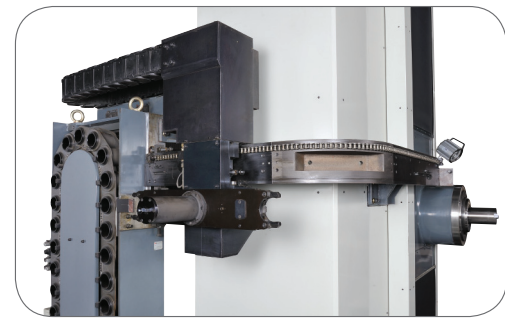
Spindle support



Length (mm)

300

Automatic tool changer (Optional accessories)	
Tool capacity	24 / 32 / 40 / 60
Tool shank	MAS 403 BT-50
Pull stud	MAS 403 P50T-1
Tool weight	25 kg
Max. tool length	300 mm
Max. tool diameter	Dia. 125 mm (Dia. 250 mm)

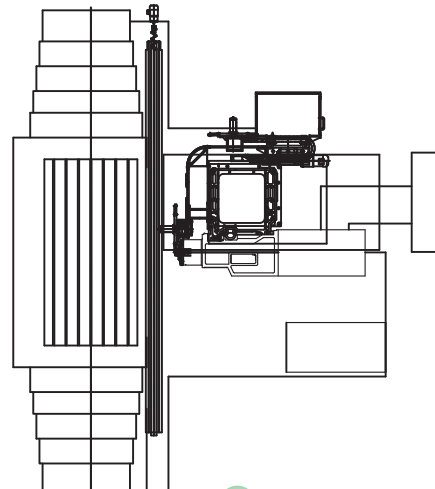
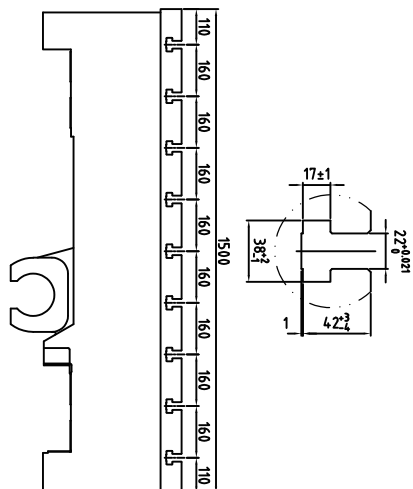


CBA-135

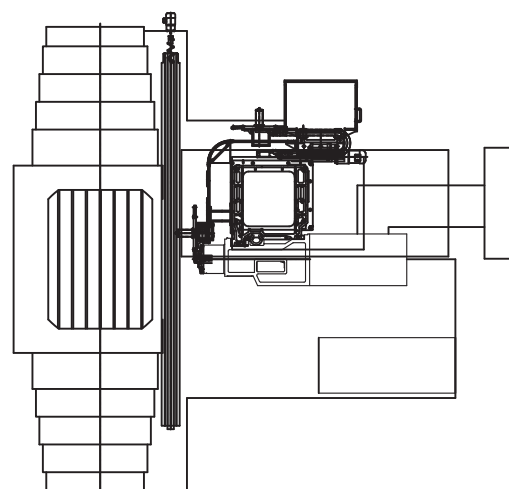
Work table (Optional accessories)				
Table dimension	mm	1500 x 2000	1500 x 3000	1500 x 4000
T-slot	mm x No.	24 x 9	24 x 9	24 x 9
Max. loading weight	kg	10,500	12,500	12,500

CBA-135T

CBA-135TR

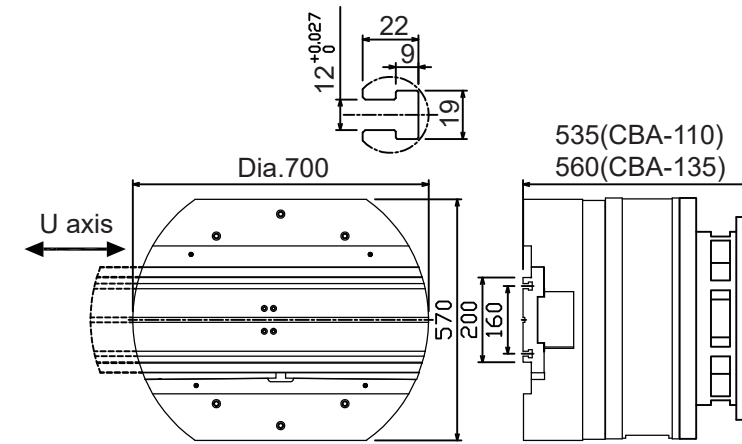


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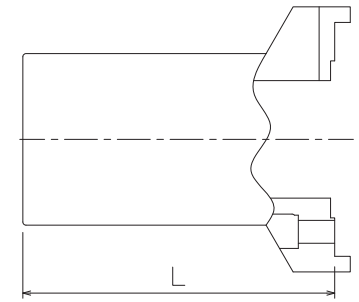
CBA-135

Face plate FH-700



U axis travel : 240mm

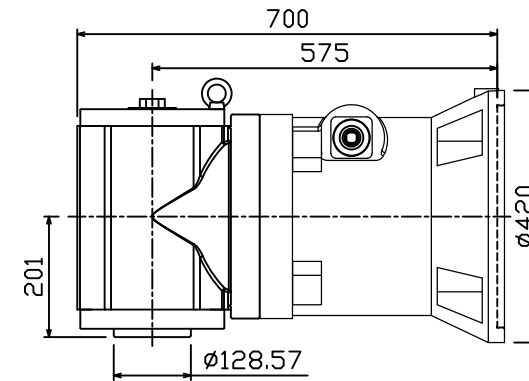
Spindle support



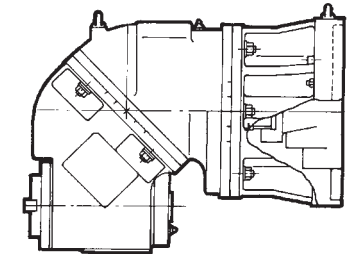
Length (mm)

300

Angular milling head



Universal milling head



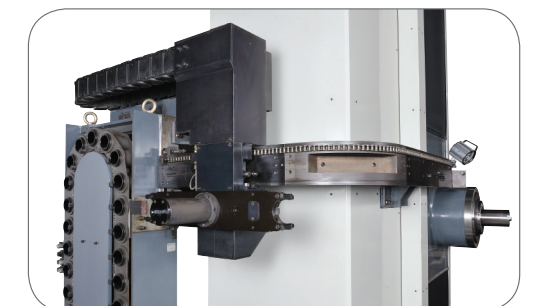
Spindle rotation speed 1000 rpm

Model : A50	
Spindle taper	ISO No. 50
Max. cutter diameter	8 inch
Max. cutter torque	588 Nm (60kgf-m)

Spindle rotation speed 3 ~ 200 rpm

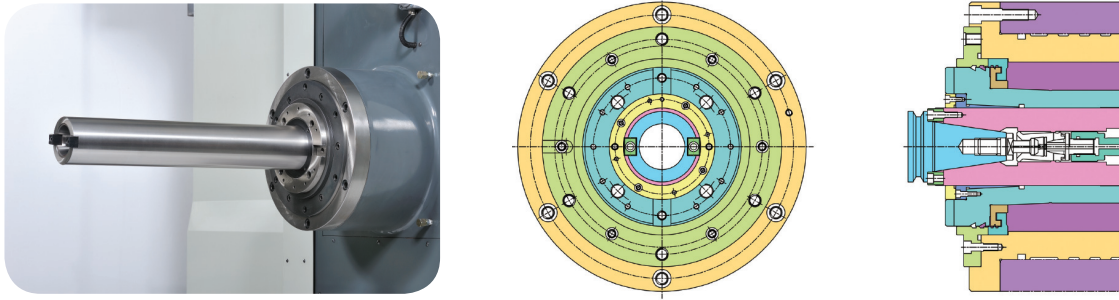
Model : U50	
Spindle taper	ISO No. 50
Max. cutter diameter	8 inch
Max. cutter torque	490 Nm (50kgf-m)

Automatic tool changer (Optional accessories)	
Tool capacity	24 / 32 / 40 / 60
Tool shank	MAS 403 BT-50
Pull stud	MAS 403 P50T-1
Tool weight	25 kg
Max. tool length	300 mm
Max. tool diameter	Dia. 125 mm (Dia. 250 mm)

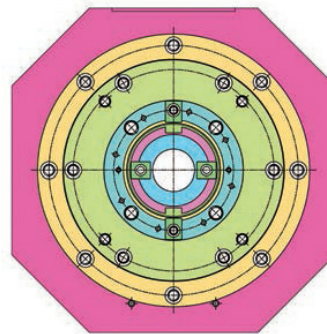
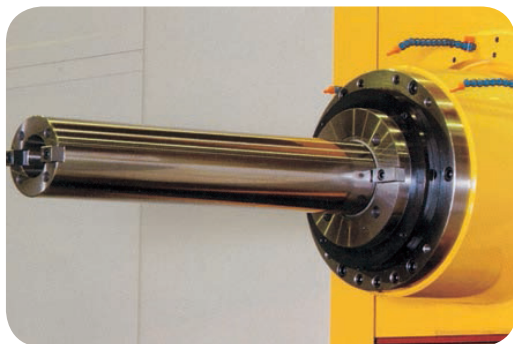


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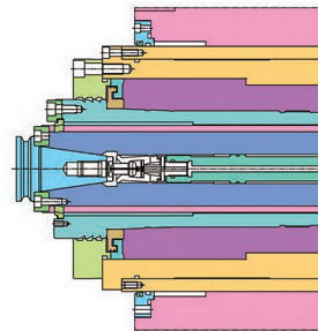
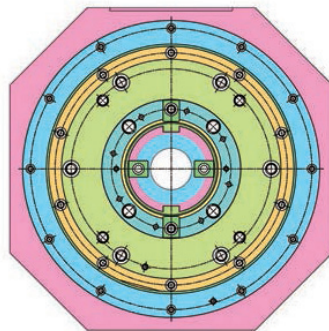
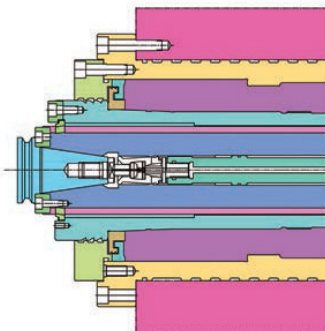
Spindle Dia. 110mm



Spindle Dia. 135mm



Spindle 135P



Spindle 135Q

Power spindle

The specially designed spindle outer ring cooling system maintains constant bearing accuracy under normal operating conditions.

This gear type auto-shift design and grease lubrication system also provides superior machine performance and reliability.

The spindle and boring bar are made of SACM645 alloy.

The spindle has been Nitrided to HRC62~68.

This hardness maintains spindle form and insures high reliability.

This increased rigidity increases the overall machine capability.

We use the very highest quality spindle Bearings from SKF and NSK.

These high quality bearings insure machine consistency and a longer machine life.

CBA Series

SPECIFICATIONS

TABLE TYPE			CBA-110B	CBA-110R2	CBA-110R3
Spindle	Main motor (cont. / 30 min)	kw	22 / 26		
	Spindle speed (Max.)	rpm	4000 / 2500	5 – 2000	
	Spindle taper		ISO 50 / BT-50		
	Spindle diameter	mm	Dia. 110		
	Spindle end diameter	mm	Dia. 215		
	Max. spindle torque	Nm	910	1025	
Travel	Work table travel X axis (Horizontal)	mm	1500	2000	3000
	Spindle travel Y axis (Vertical)	mm	1350	1800	2000
	Work table travel Z axis (Vertical)	mm	1000	1300	1500
	Spindle travel W axis	mm	400 / 600	600	
	Distance from spindle nose to table center	mm	505-1505	700 – 2000	800 – 2300
	Distance from spindle center to table surface	mm	0– 1350	0 – 1800	-35 – 1965
Rotary table	Table dimension	mm	1250 x 1250	1400 x 1600	1600 x 1800
	T-slot	mm x No.	22 x 7	22 x 9	22 x 9
	Max. loading weight	kg	4500	8500	10000
	Index	degree	0.001°		
	Max. rotation diameter	mm	1768	2126	2408
	Table rotation speed	rpm	4	0.8	
Feed	Rapid feed	X Y Z W axis	mm / min	X Y Z axis = 10000 / W axis = 3000	
	Feed rate	X / Y / Z axis	mm / min	1 – 5000	
		W axis	mm / min	1 – 3000	
	Power capacity	KVA	80	100	
	Machine dimension (L x W x H)	mm	7355 x 4500 x 3860	5400 x 8350 x 4800	6350 x 8900 x 4800
	Machine weight	kg	17000	29000	32000
	Controller		Fanuc / Siemens / Heidenhain		

※ THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

■ STANDARD ACCESSORIES:

- Tools and tool box
- Foundation screws and bolts
- Spindle oil cooler
- Spindle box vertical movement counter weight
- Work lamp
- Electronic cabinet cooler
- X axis dust cover
- Y axis dust cover
- Z axis dust cover
- MPG (manual pause generator)
- Automatic lubrication system
- Screw chip conveyor
- Steel belt chip conveyor with cart

■ OPTIONS:

- ATC (automatic tool changer)
- Coolant through spindle
- Linear scale
- Spindle support
- Face plate
- Transformer
- Splash guard for rotary table
- Splash guard for operator
- Work piece measuring device

SPECIFICATIONS

T - TYPE			CBA-135TR	CBA-135TR2	CBA-135TR3	CBA-135TR4
Spindle	Main motor (cont. / 30 min)	kw	AC 37 / 45			
	Spindle speed (Max.)	rpm	P : 5 – 2000, Q : 5 – 1200 (P : w / o Quill Q : Quill)			
	Spindle taper		ISO 50 / BT-50			
	Spindle diameter	mm	Dia. 135			
	Spindle end diameter	mm	Dia. 215			
	Quill diameter (W2)	mm	Dia. 380 (OPT.)			
	Max. spindle torque	Nm	2150			
Travel	Work table travel X axis (Horizontal)	mm	1500	2000	3000	4000
	Spindle travel Y axis (Vertical)	mm	1500	1800	2300	2800
	Column moving travel V axis		1100	1100	1400	1700
	Spindle travel Z axis	mm	700			
	Quill travel W axis	mm	350			
	Total spindle travel (Z + W)		1050			
	Distance from spindle nose to table center	mm	885 – 1985	885 – 1985	885 – 2285	885 – 2585
	Distance from spindle center to table surface	mm	0 – 1500	0 – 1800	0 – 2300	0 – 2800
Rotary table	Table dimension	mm	1250 x 1400	1400 x 1600	1600 x 1800	1800 x 2000
	T-slot	mm x No.	22 x 7	22 x 9	22 x 9	22 x 9
	Max. loading weight	kg	6500	8500	10000	12000
	Index	degree	0.001°			
	Max. rotation dimension	mm	1877	2126	2408	2691
	Table rotation speed	rpm	0.8			
Feed	Rapid feed	XYVZ axis	mm / min	XY axis = 8000 / Z axis = 3000 / V axis = 5000		
	Feed rate	X / Y / V axis	mm / min	1 – 5000		
		Z axis	mm / min	1 – 3000		
	Quill feed rate	W axis	mm / min	1 – 1500		
	Power capacity	KVA	110	130	130	140
	Machine dimension (L x W x H)	mm	6750 x 6950 x 4700	6900 x 7100 x 4900	7500 x 7500 x 5500	7850 x 7850 x 5950
	Machine weight	kg	34500	39500	45000	49000
	Controller		Fanuc / Siemens / Heidenhain			

※ THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

■ STANDARD ACCESSORIES:

- | | |
|-------------------------------------------------|----------------------------------------|
| 1. Tools and tool box | 7. X axis dust cover |
| 2. Foundation screws and bolts | 8. Y axis dust cover |
| 3. Spindle oil cooler | 9. MPG (manual pause generator) |
| 4. Spindle box vertical movement counter weight | 10. Automatic lubrication system |
| 5. Work lamp | 11. Screw chip conveyor |
| 6. Electronic cabinet cooler | 12. Steel belt chip conveyor with cart |

■ OPTIONS:

1. ATC (automatic tool changer)
2. Coolant through spindle
3. Linear scale
4. Spindle support
5. Face plate
6. Angular milling head
7. Universal milling head
8. Transformer
9. Splash guard
10. Splash guard for operator
11. Work piece measuring device

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