



HORIZONTAL BORING MACHINE

CBA Series

CNC-TAKANG

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

CBA Series

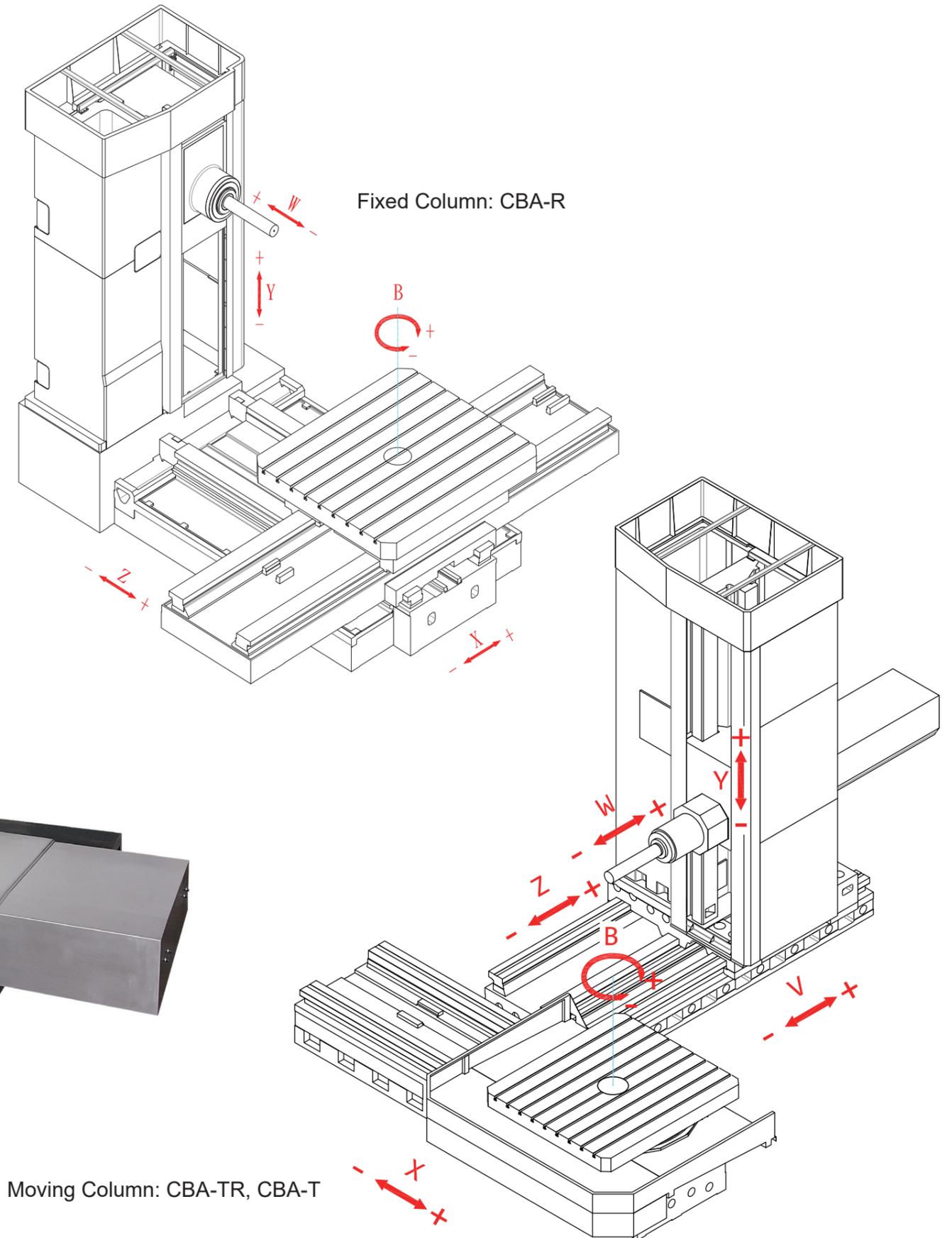
- High Accuracy • High Quality • High Rigidity

Fully automatic operation

Spindle made in house

Ideal for fabricating molds

High efficiency



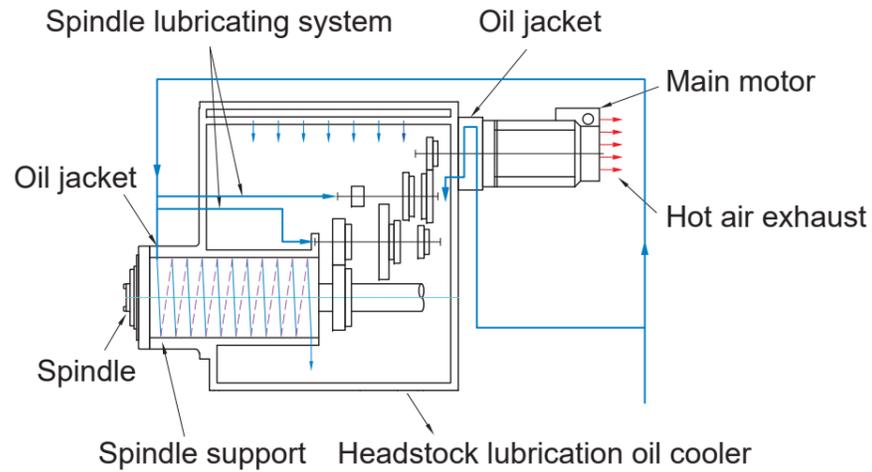
Features

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.

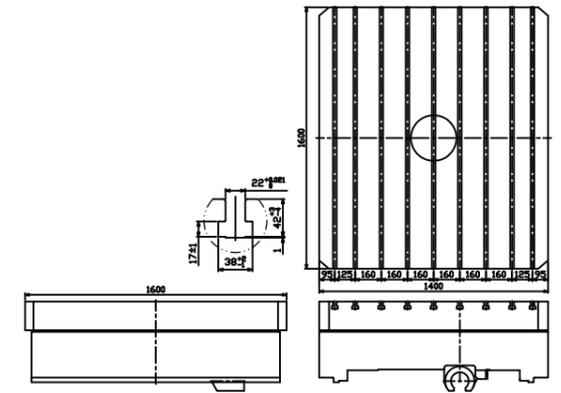
Rotary table

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-110R2 and R3 provides 2 additional linear slide ways to enhance durability and eliminate unwanted deflection.

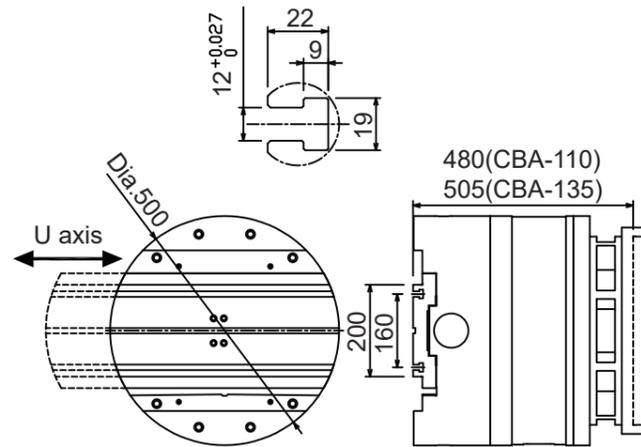
This significantly improves machine cutting accuracy.



CBA Series

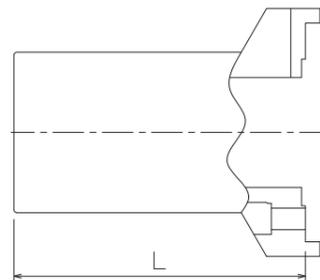
CBA-110

Face plate FH-500



U axis travel : 160mm

Spindle support

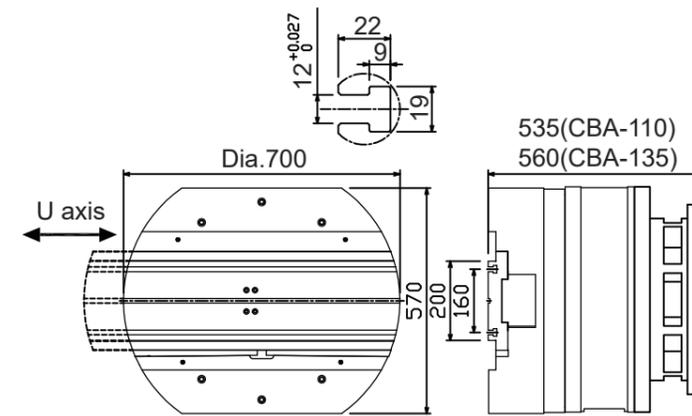


Length (mm)

300

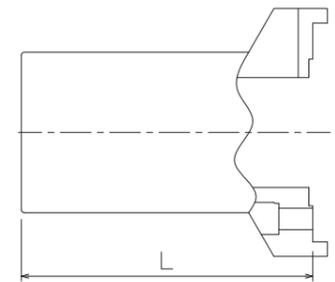
CBA-135

Face plate FH-700



U axis travel : 240mm

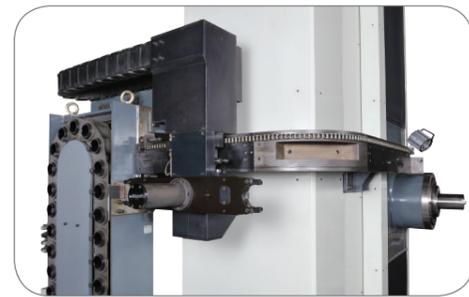
Spindle support



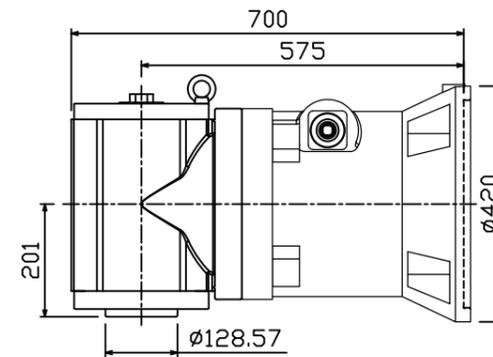
Length (mm)

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)



Angular milling head



Universal milling head

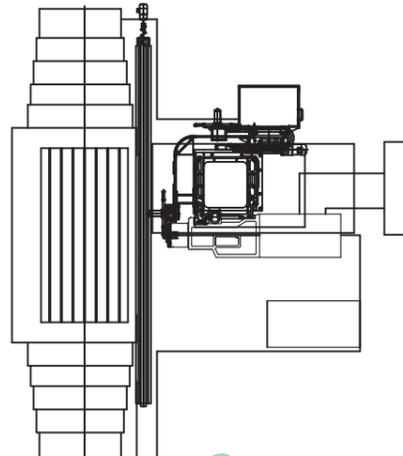
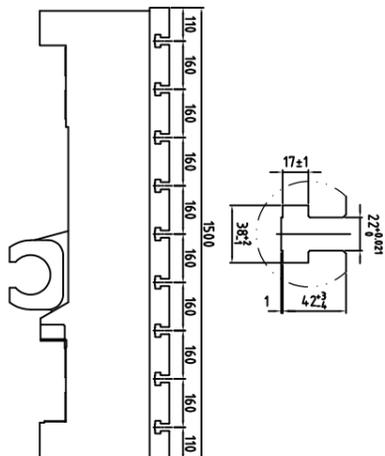


CBA-135

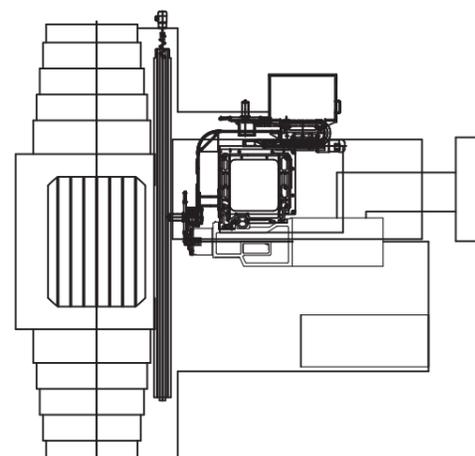
Work table (Optional accessories)				
Table dimension	mm	1500 x 2000	1500 x 3000	1500 x 4000
T-slot	mm x No.	24 x 9	24 x 9	24 x 9
Max. loading weight	kg	10,500	12,500	12,500

CBA-135T

CBA-135TR



6



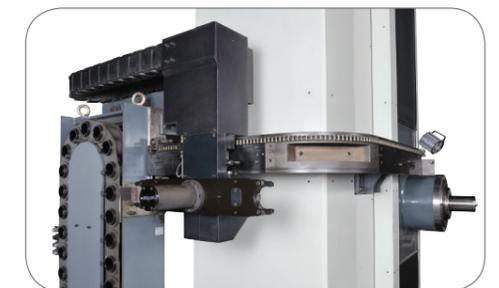
Spindle rotation speed 1000 rpm

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

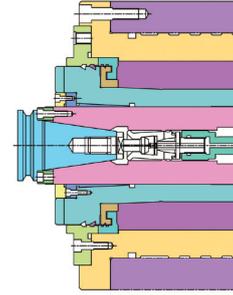
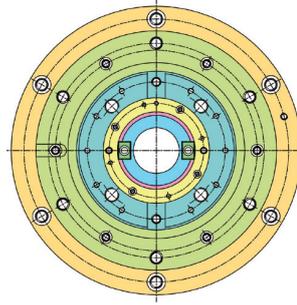
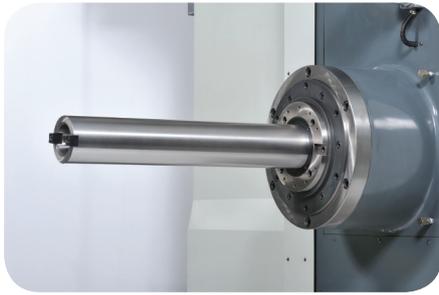
Model : U50	
Spindle taper	ISO No. 50
Max. cutter diameter	8 inch
Max. cutter torque	490 Nm (50kgf-m)

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)

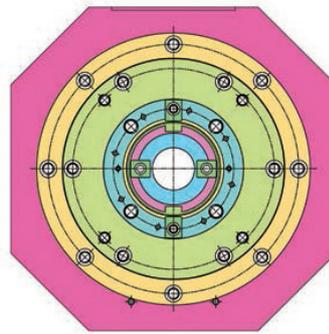
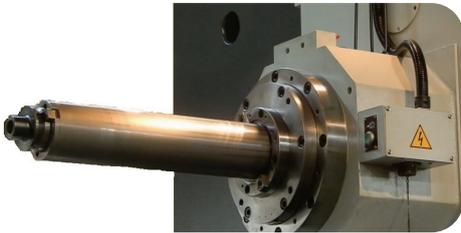


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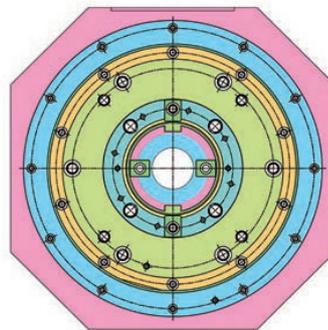
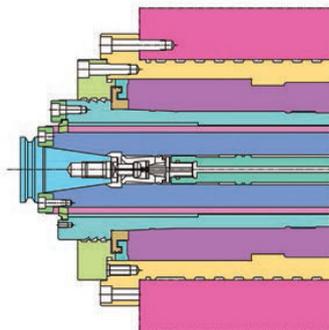
Spindle Dia. 110mm



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 heated treatment to HRC62~68.

This hardness maintains spindle form and insures high reliability.

This increased rigidity increases the overall machine capability.

We use the highest quality spindle 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	3000		
	Spindle taper		ISO 50 / BT-50		
	Spindle diameter	mm	Dia. 110		
	Spindle end diameter	mm	Dia. 215		
	Max. spindle torque (S1)	Nm	912		
Travel	Work table travel X axis (Horizontal)	mm	1500	2000	3000
	Spindle travel Y axis (Vertical)	mm	1100	1800	
	Work table travel Z axis (Vertical)	mm	1000	1300	1500
	Spindle travel W axis	mm	400		
	Distance from spindle nose to table center	mm	505 - 1505	860 - 2160	860 - 2360
	Distance from spindle center to table surface	mm	0 - 1100	0 - 1800	
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	
	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 axis = 10000 Z axis = 10000 Y axis = 10000 W axis = 3000	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	70	80	
	Machine dimension (L x W x H)	mm	7355 x 4500 x 3800	5500 x 8700 x 4540	6350 x 9000 x 4540
	Machine weight	kg	18500	25000	29000
	Controller		Fanuc / Siemens / Heidenhain		

※ THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

■ STANDARD ACCESSORIES:

1. Tools and tool box
2. Foundation screws and bolts
3. Spindle oil cooler
4. Spindle box vertical movement counter weight (For CBA-110R2 and CBA-110R3)
5. Work lamp
6. Electronic cabinet cooler
7. X axis dust cover
8. Y axis dust cover
9. Z axis dust cover
10. MPG (manual pause generator)
11. Automatic lubrication system
12. Screw chip conveyor
13. 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. Transformer
7. Splash guard for rotary table
8. Splash guard for operator
9. Work piece measuring device

SPECIFICATIONS

T - TYPE			CBA-135TR2	CBA-135TR3	CBA-135TR4
Spindle	Main motor (cont. / 30 min)	kw	37 / 45		
	Spindle speed (Max.)	rpm	P : 2000, Q : 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 (S1)	Nm	2150		
Travel	Work table travel X axis (Horizontal)	mm	2000	3000	4000
	Spindle travel Y axis (Vertical)	mm	1800	2300	2800
	Column moving travel Z axis		1100	1400	1700
	Spindle travel W1 axis	mm	700		
	Quill travel W2 axis	mm	350 (OPT.)		
	Total spindle travel (W1 + W2)		1050		
	Distance from spindle nose to table center	mm	1045 - 2145	1045 - 2445	1045 - 2745
	Distance from spindle center to table surface	mm	0 - 1800	0 - 2300	0 - 2800
Rotary table	Table dimension	mm	1400 x 1600	1600 x 1800	1800 x 2000
	T-slot	mm x No.	22 x 9	22 x 9	22 x 9
	Max. loading weight	kg	8500	10000	12000
	Index	degree	0.001°		
	Max. rotation dimension	mm	2126	2408	2691
	Table rotation speed	rpm	0.8		
Feed	Rapid feed	X / Y / Z / W1 axis	mm / min	X and Y axis = 8000 / W1 axis = 3000 / Z axis = 5000	
	Feed rate	X / Y / Z axis	mm / min	1 - 5000	
		W1 axis	mm / min	1 - 3000	
	Quill feed rate	W2 axis	mm / min	1 - 1500	
	Power capacity	KVA	100	100	100
	Machine dimension (L x W x H)	mm	7200 x 7720 x 5260	8700 x 7810 x 5760	10200 x 8250 x 6260
	Machine weight	kg	39500	43000	46000
	Controller		Fanuc / Siemens / Heidenhain		

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■ 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 for rotary table
10. Splash guard for operator
11. Work piece measuring device
12. W2 axis

CNC-TAKANG CO., LTD.

No. 72, Alley 7, Lane 98, 1st Road, Taichung Industry Park,
Taichung 40767, TAIWAN
FAX: +886-4-2359 6064 E-mail: takang@ms17.hinet.net
TEL: (04)2359 6056 Web site: www.cnctakang.com.tw