

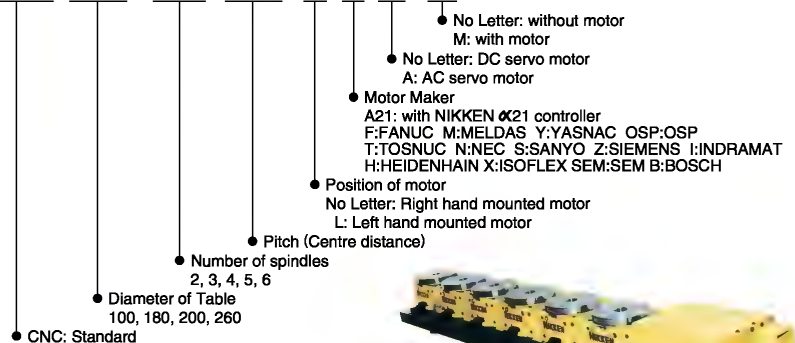
# MULTI-SPINDLE CNC ROTARY TABLE

**NIKKEN**

- Multi-Spindle (2, 3 & 4 spindles) CNC rotary table series for rationalization of machining of small size work pieces ( $\phi 3 \sim 100\text{mm}$ ).
- Different pitch between spindles is also available.
- 5 or 6 spindles CNC rotary table is also available.

• Explanation of the Code No. (Example)

## CNC 100-3W-120-L F A-M









**CNC100-2W**

**CNC170-6W**

Please contact us for **CNC180-2W**, **CNC202-2W** and **CNC260-2W**.

( ): High Speed type Please contact us.

## Specifications

Item / Code No.		CNC100 CNCZ100 -2W,-3W,-4W			CNC180-2W	CNC202-2W	CNC260-2W
Diameter of Table	$\phi$ mm	105			180	200	260
Diameter of Spindle Hole	$\phi$ mm	$\phi 60\text{H}7 \phi 30$			$\phi 60\text{H}7 \phi 40$	$\phi 60\text{H}7 \phi 40$	$\phi 80\text{H}7$
Number of spindles (Pitch)	mm	2,3,4 $\times$ 120			2 $\times$ 250	2 $\times$ 250	2 $\times$ 350
Centre Height	mm	105			175	175	220
Width of T Slot	mm	16 $^{+0.018}_0$			12 $^{+0.018}_0$	12 $^{+0.018}_0$	12 $^{+0.018}_0$
Clamping System		Air			Air	Air	Air/Hyd.
Clamping Torque	N·m	147			303	303	588/1568
Table Inertia at Motor Shaft ( $\frac{GD^2}{4}$ ) kg·m $^2$ $\times 10^{-3}$		0.13	0.16	0.2	0.12	0.13	0.7
Servo Motor	min $^{-1}$	$\alpha$ iF2 / 5000·2000		$\alpha$ iF4/4000·2000	$\alpha$ iF4 / 4000·2000	$\alpha$ iF8 / 3000·2000	$\alpha$ iF8 / 3000·2000
MIN. Increment		0.001 $^\circ$			0.001 $^\circ$	0.001 $^\circ$	0.001 $^\circ$
Rotation Speed	min $^{-1}$	11.1 (44.4)			22.2	22.2	16.6
Total Reduction Ratio		1/180 (1/45)			1/90	1/90	1/120
Indexing Accuracy	sec	$\pm 30$		$\pm 45$	$\pm 20$	$\pm 20$	20
Net Weight	kg	70	90	120	115	120	320
MAX. Work Load on the Table	Vertical 	15			100	100	175
	Horizontal 	30			200	200	350
MAX. Thrust Load applicable on the Table		3920			10780	10780	25480
		49			415	415	984
		98			980	980	3332
MAX. Work Inertia	Vertical  + ( $\frac{GD^2}{4}$ ) kg·m $^2$	0.019 (0.07Horizontal)			0.5	0.5	1.9
Driving Torque		72			72	144	192

★ L type (left hand mounted motor) is available for all tables.

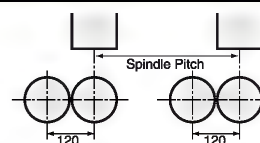
★ Min. pitch between spindles CNC100:120mm, CNC180:250mm, CNC202:250mm, CNC260:320mm. When you need different pitch, please contact us.

★ 4 spindle table to suit 2 Spindle machine is available.

★ Max. number of spindles CNC100:6 spindles, CNC180:4 spindles, CNC202:4 spindles, CNC260:2 spindles.

★ Rotary joint is available for all tables

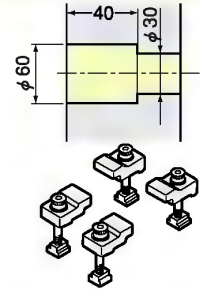
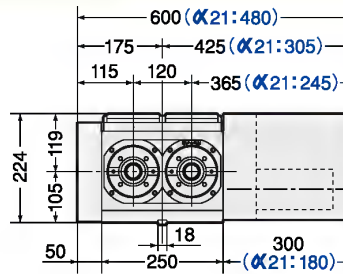
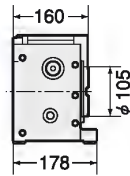
★ Please refer for the air-hydraulic booster, when CNC260-2W is used on the M/C without hydraulic source.



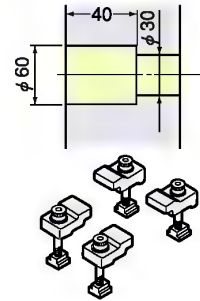
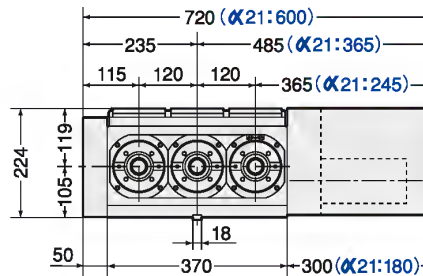
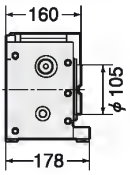
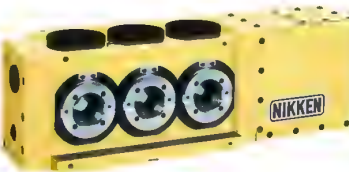
## CNC100-2W,3W,4W, CNC180-2W,CNC202-2W,CNC260-2W

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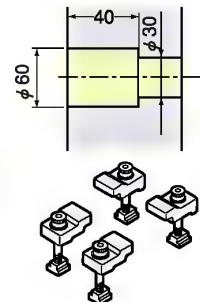
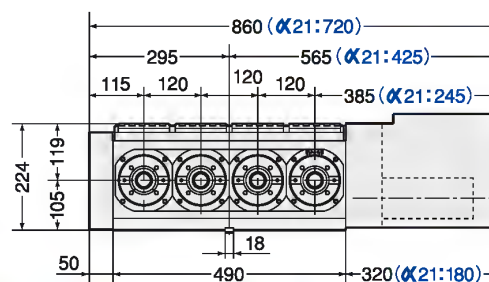
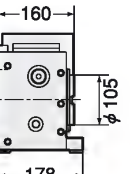
External dimensions will be different according to the type of the servo motors. Dimensions with FANUC motor or with NIKKEN  $\alpha$ 21 controller ( $\alpha$ 21: ) are shown. Please contact with us for CAD data (2D:DXF, 3D:PARASOLID).

**CNC100-2W**

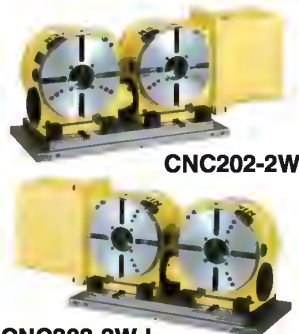
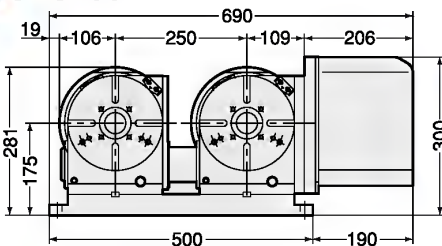
Air purge function is provided inside the motor cover as standard.

**CNC100-3W**

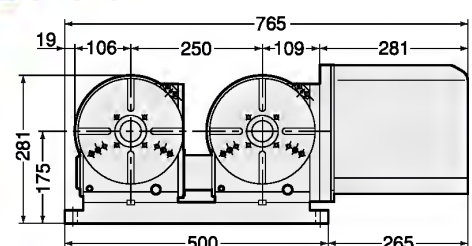
Air purge function is provided inside the motor cover as standard.

**CNC100-4W**

Air purge function is provided inside the motor cover as standard.

**CNC180-2W**

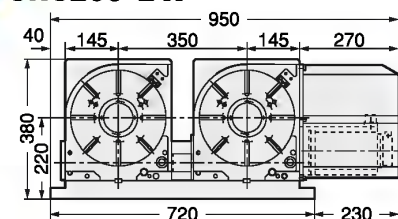
Air purge function is provided inside the motor cover as standard.

**CNC202-2W**

Air purge function is provided inside the motor cover as standard.

**CNC260-2W**

Pneumatic Brake  
Torque UP 588Nm



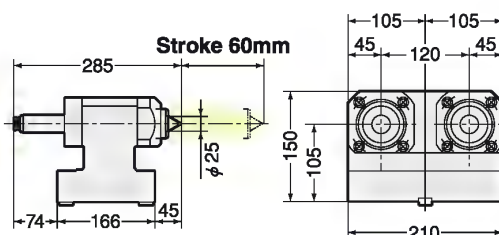
CNC202-2W-L



For the rotary table with pneumatic brake, air purge function is provided inside the motor cover as standard.

**Accuracy Standard of Multi-Spindle**

No.	Measuring Item	Measuring Method	Accuracy
1	Pitch between Spindles		Within $\pm 0.02\text{mm}$ from nominal pitch
2	Centre Height of Spindle		Within $\pm 0.02\text{mm}$

**Pneumatic Tailstock for Multi-Spindle  
PB-105-2W,-3W,-4W**

PB-105-4W

PB-105-2W

★ MT (Morse Taper) type quill is also available. Please contact us.  
★ The stroke 60mm can be changed. Please contact us.

★ For fitting metal and stepped guide piece  
★ For scroll chuck, tailstock and other optional accessories  
★  $\alpha$  series attachment can be attached for CNC100-2W, 3W, 4W, CNC180-2W and CNC202-2W