

# TOP SIDE MOTOR MOUNTED CNC ROTARY TABLE



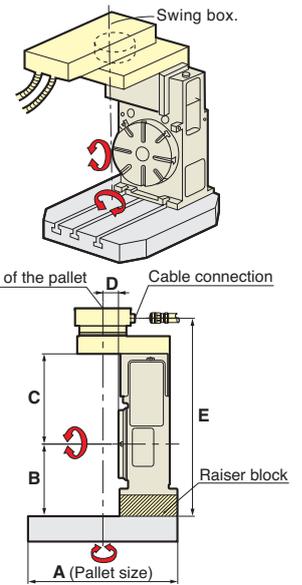
CNC501T

■ This is the application that the rotary table with swing box is installed on the pallet of the horizontal M/C.  
Please specify A, B, C, D and E.

● Explanation of the Code No. (Example)

**CNC 501 T F A - M**

- No Letter: without motor  
M: with motor
- Motor Maker ☞ P.37  
A21: with NIKKEN  $\alpha$ 21 controller  
F:FANUC M:MELDAS Y:YASNAC OSP:OSP  
T:TOSNUC N:NEC S:SANYO Z:SIEMENS I:INDRAMAT  
H:HEIDENHAIN X:ISOFLEX SEM:SEM B:BOSCH
- Position of motor T: Top side
- Diameter of Table  
320, 400, 500, 600
- CNC: Standard  
CNCZ: High Speed Z Series



## Specifications

Item / Code No.		CNC321T	CNC401T	CNC501T	CNC601T
Diameter of Table	$\phi$ mm	320	400	500	600
Diameter of Spindle Hole	$\phi$ mm	$\phi 105H7$	$\phi 105H7$	$\phi 130H7$	$\phi 130H7$
Centre Height	mm	240	240	310	310
Width of T Slot	mm	$12^{+0.018}_0$	$14^{+0.018}_0$	$14^{+0.018}_0$	$14^{+0.018}_0$
Clamping System		Hyd.	Hyd.	Hyd.	Hyd.
Clamping Torque	N·m	1760	1760	4655	4655
Table Inertia at Motor Shaft ( $\frac{GD^2}{4}$ )	$\text{kg}\cdot\text{m}^2 \times 10^{-3}$	2.0	2.0	9.0	8.8
Servo Motor	$\text{min}^{-1}$	$\alpha$ IF12/4000·2000	$\alpha$ IF12/4000·2000	$\alpha$ IF12/4000·2000	$\alpha$ IF12/4000·2000
MIN. Increment		$0.001^\circ$	$0.001^\circ$	$0.001^\circ$	$0.001^\circ$
Rotation Speed	$\text{min}^{-1}$	16.6	16.6	16.6	11.1
Total Reduction Ratio		1/120	1/120	1/120	1/180
Indexing Accuracy	sec	15	15	15	15
Net Weight	kg	220	245	495	525
MAX. Work Load on the Table	Vertical  kg	250	250	400	400
	Horizontal  kg	—	—	—	—
MAX. Thrust Load applicable on the Table	N	53100	53100	150000	150000
	*1  F x L N·m	2648	2648	5709	5709
	F x L N·m	3840	3840	16650	16650
Guide Line of MAX. Unbalancing Load	*2  kg·m	10.0	10.0	20.0	20.0
MAX. Work Inertia	Vertical  + $\frac{GD^2}{4}$ $\text{kg}\cdot\text{m}^2$	8.0	8.0	19	37
Driving Torque	*3  N·m	576	576	576	864

★\*1 This is the strength of the worm wheel without brake. It is applied against dynamic cutting thrust.  
 ★\*2 The guide line of MAX unbalancing load means the unbalancing load, when the rotary table is used with support table in vertical application. The guide line figure will be different according to the servo motor, please refer ☞ P.37 for more detail.  
 ★\*3 Driving torque means the torque at MAX. rotation speed after acceleration. Driving torque is almost constant and independent from the load except unbalancing load is applied.  
 ★ AWC system is available for all rotary tables, please refer ☞ P.47~P.48. ★ Rotary joint is available for all rotary tables, please refer ☞ P.54.  
 ★ Ultra precision type is available for all rotary tables,  $\pm 3''$  or  $\pm 5''$ , please refer ☞ P.53. ★  $\alpha$ IF22/4000 motor can be mounted on CNC321T, 401T, 501T, 601T.  
 ★ The supplied hydraulic pressure is 3.5MPa for hydraulic clamping system.  
 ★ The air-hydraulic booster is available, when the rotary table with hydraulic clamping system is used on the M/C without hydraulic source, please refer ☞ P.55.  
 ★ Total reduction ratio of 1/180 is also available for CNC501T.