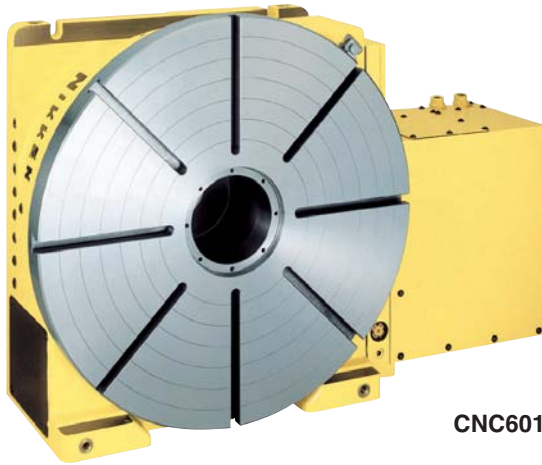


CNC ROTARY TABLE

NIKKEN



CNC601

- Dividing and lead cutting for large size work piece is suitable.
- Large through hole and powerful clamping system.

Explanation of the Code No. (Example)

CNC 601 F A - M

- No Letter: without motor M: with motor
- No Letter: DC servo motor A: AC servo motor
- Motor Maker P.37
- A21PW: with NIKKEN α 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
- No Letter: Right hand mounted motor
- L: Left hand mounted motor
- Position of motor
- No Letter: Horizontal V: Vertical
- Diameter of Table
- 500, 600, 800, 1200
- CNC: Standard
- CNCZ: High Speed Z Series
- CNCB: Big Bore

Rotary table with α 21PW controller, refer

P.68

Specifications

() : High Speed CNC ROTARY Table Z series

Item / Code No.		CNC501 CNCZ501	CNC601 CNCZ601	CNC803	CNC1003	CNCB450	CNC802
Diameter of Table	φmm	500	600	800	1000	450	800
Diameter of Spindle Hole	φmm	Φ 130H7	Φ 130H7	Φ 230H7	Φ 230H7	Φ 205H7	Φ 270H7
Centre Height	mm	310	310	550	550	280	470
Width of T Slot	mm	14 ^{+0.018} ₀	14 ^{+0.018} ₀	22H7 *4	22H7 *4	14 ^{+0.018} ₀	20H7 *4
Clamping System		Hyd.	Hyd.	Hyd.	Hyd.	Hyd.	Hyd.
Clamping Torque	N·m	4655	4655	7000	7000	3870	7000
Table Inertia at Motor Shaft ($\frac{GD^2}{4}$)	kg·m ² ×10 ⁻³	6.8	4.9	6.2	6.3	2.8	5.3
Servo Motor	min ⁻¹	αiF12/4000·2000	αiF12/4000·2000	αiF30/4000·2000	αiF30/4000·2000	αiF12/4000·2000	αiF22/4000·2000
MIN. Increment		0.001°	0.001°	0.001°	0.001°	0.001°	0.001°
Rotation Speed	min ⁻¹	16.6(33.3)	11.1(22.2)	5.5	5.5	25	5.5
Total Reduction Ratio		1/120(1/60)	1/180(1/90)	1/360	1/360	1/120	1/360
Indexing Accuracy	sec	15	15	15	15	15	15
Net Weight	kg	470	500	2070	2210	380	1100
MAX. Work Load on the Table	Vertical  kg	400	400	2000	2000	350	—
	Horizontal  kg	800	800	4000	4000	700	3000
MAX. Thrust Load applicable on the Table	 N	150000	150000	281250	281250	63720	247920
	*1  F×L N·m	5709	5709	20067	20067	3531	8563
	 F×L N·m	16650	16650	42190	42190	5990	36260
Guide Line of MAX. Unbalancing Load	*2  kg·m	20.0	20.0	30.0	30.0	15.0	—
MAX. Work Inertia	Vertical  + ($\frac{GD^2}{4}$) kg·m ²	19.4(9.7)	37(18.5)	234	234	17	234
Driving Torque	*3  N·m	576(460)	864(690)	3168	3168	576	3168

★*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.

★ L type (Motor is mounted at left hand side) is available for CNC501, 601.

★ Ultra precision type is available for all rotary tables, $\pm 3''$ or $\pm 5''$, please refer P.53.

★ α IF22/4000 motor can be mounted on CNC501, 601.

★ 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.

★ L type and T type (Motor is mounted at top side) is available for CNCB450.

★ Rotary joint is available for all rotary tables, please refer P.54.

★ Ultra heavy duty type is available for all rotary tables.

★ The supplied hydraulic pressure is 3.5MPa for hydraulic clamping system.

★*4 Standard is without T slot. T slot is available as an option, please specify the width of the T slot.