

COMPACT CNC ROTARY TABLE



CNC105 α21 and attachments

- Wide application can be offered from small Drilling Press to M/C.
- Suitable for indexing/leads cutting of small size work pieces.
- Various kinds of the work chucking attachments can be offered from 5C collet fixtures to the air/hyd. chuck. [P.46](#)

● Explanation of the Code No. (Example)

CNC 105 L F A - M

- No Letter: without motor M: with Motor
- No Letter: DC servo motor A: AC servo motor
- Motor Maker [P.37](#)
- A21: with NIKKEN α21 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
- Diameter of Table
- 105, 180, 200
- CNC: Standard
- CNCZ: High Speed Z series



CNC202L

Specifications

() : High Speed CNC ROTARY Table Z series

Rotary table with α21 controller, refer [P.69](#)

Item / Code No.		CNC105 CNCZ105	CNC180 CNCZ180	CNC202 CNCZ202
Diameter of Table	φmm	105	180	200
Diameter of Spindle Hole	φmm	φ60 _{H7} φ30	φ60 _{H7} φ40	φ60 _{H7} φ40
Centre Height	mm	105	135	135
Width of T Slot	mm	φ10 _{H7} Pin hole	12 ^{+0.018} ₀	12 ^{+0.018} ₀
Clamping System		Air	Air	Air
Clamping Torque	N·m	205	303	303
Table Inertia at Motor Shaft ($\frac{GD^2}{4}$)	kg·m ² ×10 ⁻³	0.06	0.08	0.09
Servo Motor	min ⁻¹	αIF1/5000·2000	αIF2/5000·2000	αIF4/5000·2000
MIN. Increment		0.001°	0.001°	0.001°
Rotation Speed	min ⁻¹	22.2(44.4)	22.2(44.4)	22.2(44.4)
Total Reduction Ratio		1/90(1/45)	1/90(1/45)	1/90(1/45)
Indexing Accuracy	sec	±30	±20	±20
Net Weight	kg	32	45	55
MAX. Work Load on the Table	Vertical	30 kg	100	100
	Horizontal	60 kg	200	200
MAX. Thrust Load applicable on the Table		8800 N	18000	18000
	*1	FXL 275 N·m	542	542
		FXL 220 N·m	690	690
Guide Line of MAX. Unbalancing Load	*2	—	3.0	5.0
MAX. Work Inertia	Vertical	0.04(0.02) kg·m ²	0.40(0.20)	1.0(0.5)
Driving Torque	*3	36(27) N·m	72(54)	144(115)

★*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 all rotary tables.

★ 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](#).

★ αIF4/5000 motor can be mounted on CNC180.

★ Ultra precision type is available for all rotary tables, ±3" or ±5", please refer [P.53](#).