COMPACT CNC ROTARY TABLE

**NIKKEN**


- ■ 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

Option

| ADD. AXIS P.57 | ACCURACY SPEC. P.99 | ROTARY JOINT P.89 | ULTRA PRECISIO P.87 |

Accessories

| SUPPORT TABLE P.79 | TAIL STOCK P.81 | SCROLL CHUCK P.83 | POWER CHUCK P.84 | CLAMP DEVICE P.85 | T-NUT P.86 |

CNC105 and accessories

■ Specifications

( ):High Speed CNC ROTARY Table Z series

Item / Code No.		CNC105 CNCZ105	CNC180 CNCZ180	CNC202 CNCZ202
Diameter of Table	φmm	105	180	200
Diameter of Spindle Hole	φmm	φ60H7 φ30	φ60H7 φ40	φ60H7 φ40
Center Height	mm	105	135	135
Width of T Slot	mm	φ10H7 Pin hole	$12^{+0.018}_{0}$	$12^{+0.018}_{0}$
Clamping System		Pneumatic*4	Pneumatic*4	Pneumatic*4
Clamping Torque	N·m	205	303	303
Table Inertia at Motor Shaft $\left(\frac{GD^2}{4}\right)$ kg·m²×10⁻³		0.06	0.08	0.09
Servo Motor	r/min	αiF1·3000	αiF2·3000	αiF4·3000
MIN. Increment		0.001°	0.001°	0.001°
Rotation Speed*5	r/min	33.3(66.6)	33.3(66.6)	33.3(66.6)
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 kg	30	100	100
	Horizontal kg	60	200	200
MAX. Thrust Load applicable on the Table	N	8800	18000	18000
*1	F×L N·m	275	542	542
	F×L N·m	220	690	690
Guide Line of MAX. Unbalancing Load *2	N·m	–	30	50
MAX. Work Inertia	Vertical $\left(\frac{GD^2}{4}\right)$ kg·m²	0.04(0.02)	0.4(0.2)	1.0(0.5)
Driving Torque *3	N·m	36(27)	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 to ☞P.57 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.

*4 Air Intensifying Booster system is available if the supplied air pressure is under 0.5MPa or the brake torque is required to increase. ☞P.95

*5 The table rotation speed when the motor rotates at 3000r/min. Depending on the application(unbalance of the jig,work) and the motor specification, the motor may not be able to rotate at 3000r/min. ★αiF4/5000 motor can be mounted on **CNC180**.