

TOP SIDE MOTOR MOUNTED CNC ROTARY TABLE

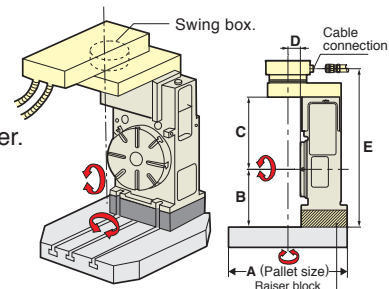
NIKKEN

CNC302T

■ Ideal for automation of small parts by mounting of jig holder

Also ideal for B-axis of general-purpose horizontal machining center. Figure at right shows example of pallet mounting.

Please specify A, B, C, D and E.


Option

Accessories

Specifications

Item / Code No.		CNC202T	CNC260T	CNC302T *5
Diameter of Table	φmm	200	260	300
Diameter of Spindle Hole	φmm	φ60H7 φ40	φ80H7	φ80H7
Center Height	mm	150	170	170
Width of T Slot	mm	12 ^{+0.018} ₀	12 ^{+0.018} ₀	12 ^{+0.018} ₀
Clamping System		Pneumatic*4	Pneumatic*4 / Hydraulic	Pneumatic*4 / Hydraulic
Clamping Torque	N·m	303	588 / 1568	588 / 1568
Table Inertia at Motor Shaft	$\left(\frac{GD^2}{4}\right) \text{ kg}\cdot\text{m}^2 \times 10^{-3}$	1.0	1.5	1.5
Servo Motor	r/min	αiF4·3000	αiF4·3000	αiF4·3000
MIN. Increment		0.001°	0.001°	0.001°
Rotation Speed*6	r/min	25.0	25.0	25.0
Total Reduction Ratio		1/120	1/120	1/120
Indexing Accuracy	sec	±20	20	20
Net Weight	kg	70	160	165
MAX. Work Load on the Table	Vertical	100 kg	175	175
	Horizontal	—	—	—
MAX. Thrust Load applicable on the Table		18000 N	42480	42480
	*1	542 FXL N·m	1442	1442
		690 FXL N·m	2320	2320
Guide Line of MAX. Unbalancing Load	*2	50 N·m	60	60
MAX. Work Inertia	Vertical	1.0 $\left(\frac{GD^2}{4}\right) \text{ kg}\cdot\text{m}^2$	3.2	3.2
Driving Torque	*3	192 N·m	192	192

*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 CNC302T is semi-standard model.

*6 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.