

TOP SIDE MOTOR MOUNTED CNC ROTARY TABLE

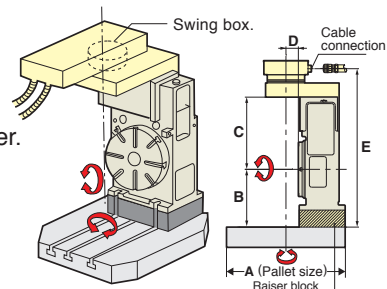
NIKKEN


CNC501T

■ 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					
ADD. AXIS	ACCURACY SPEC.	ROTARY JOINT	ULTRA PRECISION	SUPPORT TABLE	TAIL STOCK	SCROLL CHUCK	POWER CHUCK	CLAMP DEVICE	T-NUT
P.57	P.99	P.89	P.87	P.79	P.81	P.83	P.84	P.85	P.86

Specifications

Item / Code No.		CNC321T*4	CNC401T	CNC501T	CNC601T
Diameter of Table	φmm	320	400	500	600
Diameter of Spindle Hole	φmm	φ105H7	φ105H7	φ130H7	φ130H7
Center 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		Hydraulic	Hydraulic	Hydraulic	Hydraulic
Clamping Torque	N·m	1760	1760	4655	4655
Table Inertia at Motor Shaft	($\frac{GD^2}{4}$) kg·m ² ×10 ⁻³	2.0	2.0	9.0	8.8
Servo Motor	r/min	αiF12·2000	αiF12·2000	αiF22·2000	αiF22·2000
MIN. Increment		0.001°	0.001°	0.001°	0.001°
Rotation Speed	r/min	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  FXL N·m	2648	2648	5709	5709
	 FXL N·m	3840	3840	16650	16650
Guide Line of MAX. Unbalancing Load	*2  N·m	100	100	200	200
MAX. Work Inertia	Vertical  ($\frac{GD^2}{4}$) kg·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 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 CNC321T is semi-standard model.

★ αiF22/4000 motor can be mounted on CNC321T, 401T. ★ Total reduction ratio of 1/180 is also available for CNC501T.