

STANDARD CNC ROTARY TABLE

NIKKEN


CNC260

- The rotary table can be used vertically or horizontally depending on the application
- Best match for a medium-size machining center
- Standard model with motors mounted on the body side



Specifications

(): High Speed CNC ROTARY Table Z series

Item / Code No.		CNC260 CNCZ260	CNC260P CNCZ260P	CNC302*5 CNCZ302	CNC302P CNCZ302P	CNC321*5 CNCZ321	CNC401 CNCZ401
Diameter of Table	φmm	260	260	300	300	320	400
Diameter of Spindle Hole	φmm	φ80H7	φ80H7	φ80H7	φ80H7	φ105H7	φ105H7
Center Height	mm	170	170	170	170	230	230
Width of T Slot	mm	12 ^{+0.018} ₀	12 ^{+0.018} ₀	12 ^{+0.018} ₀	12 ^{+0.018} ₀	12 ^{+0.018} ₀	14 ^{+0.018} ₀
Clamping System*7		Hydraulic	Pneumatic	Hydraulic	Pneumatic	Hydraulic	Hydraulic
Clamping Torque	N·m	1568	1430	1568	1430	1760	1760
Table Inertia at Motor Shaft ($\frac{GD^2}{4}$)	kg·m ² ×10 ⁻³	0.33	0.33	0.33	0.33	2.8	2.8
Servo Motor	r/min	αiF4·3000	αiF4·3000	αiF4·3000	αiF4·3000	αiF12·2000	αiF12·2000
MIN. Increment		0.001°	0.001°	0.001°	0.001°	0.001°	0.001°
Rotation Speed*6	r/min	25.0(50.0)	25.0(50.0)	25.0(50.0)	25.0(50.0)	22.2(44.4)	22.2(44.4)
Total Reduction Ratio		1/120(1/60)	1/120(1/60)	1/120(1/60)	1/120(1/60)	1/90(1/45)	1/90(1/45)
Indexing Accuracy	sec	20	20	20	20	15	15
Net Weight	kg	115	115	120	120	200	230
MAX. Work Load on the Table	Vertical	175	175	175	175	250	250
	Horizontal	350	350	350	350	500	500
MAX. Thrust Load applicable on the Table		42480	42480	42480	42480	53100	53100
	*1	1442	1442	1442	1442	2648	2648
		2320	2320	2320	2320	3840	3840
Guide Line of MAX. Unbalancing Load	*2	50	50	50	50	100	100
MAX. Work Inertia	Vertical	3.2(1.6)	3.2(1.6)	3.2(1.6)	3.2(1.6)	6.4(3.2)	6.4(3.2)
Driving Torque	*3	192(153)	192(153)	192(153)	192(153)	432(345)	432(345)

*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.

*5 CNC302,321 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.

*7 The air brake version of the existing CNC260(302) has been discontinued, so please select the new CNC260P(302P).

★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 to P.95.

★αiF8/4000 motor can be mounted on CNC260, 302, CNC260P, 302P.