

TILTING ROTARY TABLE

NIKKEN

■ CNC tilting rotary table with powerful clamping system



5AX-350

● Explanation of the Code No. (Example)

5AX - 350 F A - M

- No Letter: without motor M: with motor
- No Letter: DC servo motor A: AC servo motor
- Motor Maker P.37
- WA21PW: with NIKKEN α 21 controllers for both axes
- DA21PW: with NIKKEN α 21 controller for tilting axis
- 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
- Diameter of Table 350, 550
- 5AX-: Tilting rotary CNC table

Specifications

Item / Code No.		5AX-350		5AX-550	
Diameter of Table	ϕ mm	350		550	
Diameter of Spindle Hole	ϕ mm	$\phi 80H7$		$\phi 130H7$	
Centre Height (90°)	mm	300		380	
Table Height in Horizontal Position (0°)	mm	300		518	
Width of T Slot	mm	$12^{+0.018}_0$		$14^{+0.018}_0$	
Axis		Rotary	Tilting (0°~105°)	Rotary	Tilting (-105°~+105°)
Clamping System	3.5MPa	Hyd.	Hyd.	Hyd.	Hyd.
Clamping Torque	N·m	1568	1568	3430	6272
Table Inertia at Motor Shaft	$(\frac{GD^2}{4}) \text{ kg}\cdot\text{m}^2 \times 10^{-3}$	0.8	1.35	5.5	5.2
Servo Motor	min ⁻¹	α iF8 / 4000·2000	α iF12 / 4000·2000	α iF12 / 4000·2000	α iF12 / 4000·2000
MIN. Increment		0.001°	0.001°	0.001°	0.001°
Rotation Speed	min ⁻¹	22.2	22.2	11.1	5.5
Total Reduction Ratio		1/90	1/90	1/180	1/360
Indexing Accuracy	sec	20	60	20	60
Net Weight	kg	420 (without Base:355)		1150	
MAX. Work Load on the Table	0° to 30°	200		500	
	30° to 90°	200		300	
MAX. Thrust Load applicable on the Table	Tilting Angle = 0°	19600		31360	
	Tilting Angle = 0°	L=175mm	F=4900N	L=275mm	F=9800N
	Tilting Angle = 90°	L ₁ =0mm	F ₁ =17160N	L ₁ =0mm	F ₁ =19600N
		L ₂ =100mm	F ₂ =8580N	L ₂ =200mm	F ₂ =14120N
	Tilting Angle = 90°	858		2548	
MAX. Work Inertia	$(\frac{GD^2}{4}) \text{ kg}\cdot\text{m}^2$	3.2		23	
Driving Torque	N·m	288		864	

★ Range of tilting angle (0°~105°) can be expanded as an option. Please contact us. ★ Ultra precision type is available for all rotary tables, Rotary axis: $\pm 5''$ Tilting axis: $\pm 10''$, please refer P.53
 ★ AWC system is available for all rotary tables, please refer P.47~48 ★ The supplied hydraulic pressure is 3.5MPa for hydraulic clamping system.
 ★ Rotary joint is available for all rotary tables, please refer P.55