

TILTING ROTARY TABLE



5AX-230



Powerful Brake System

■ CNC tilting rotary table with powerful brake system.

USA, EU : PAT

● Explanation of the Code No. (Example)

5AX- 230 L 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
- Position of rotary axis motor
- No Letter: Right hand mounted motor
- L: Left hand mounted motor
- Diameter of Table 200, 230, 250
- Location of the motor for tilting axis
- No letter: horizontal
- T: Top side motor
- 5AX-: Tilting rotary CNC table

Specifications

Item / Code No.		5AX-230		5AX-250	
Diameter of Table	ϕ mm	230		250	
Diameter of Spindle Hole	ϕ mm	$\phi 60H7 \phi 40$		$\phi 60H7 \phi 50$	
Centre Height (90°)	mm	240		250	
Table Height in Horizontal Position (0°)	mm	285		250	
Width of T Slot	mm	$12^{+0.018}_0$		$12^{+0.018}_0$	
Axis		Rotary	Tilting (0°~105°)	Rotary	Tilting (0°~105°)
Clamping System	3.5MPa	Hyd.	Hyd.	Hyd.	Hyd.
Clamping Torque	N·m	490	3430	588	4900
Table Inertia at Motor Shaft ($\frac{GD^2}{4}$)	$\text{kg}\cdot\text{m}^2 \times 10^{-3}$	0.3	0.5	0.11	0.16
Servo Motor	min^{-1}	α iF4 / 5000·2000	α iF8 / 4000·2000	α iF4 / 5000·2000	α iF4 / 5000·2000
MIN. Increment		0.001°	0.001°	0.001°	0.001°
Rotation Speed	min^{-1}	11.1	5.5	22.2	11.1
Total Reduction Ratio		1/180	1/360	1/90	1/180
Indexing Accuracy	sec	20	60	20	60
Net Weight	kg	220		290	
MAX. Work Load on the Table	0° to 30°	100		80	
	30° to 90°	100		50	
MAX. Thrust Load applicable on the Table	Tilting Angle = 0°	11760		9800	
	Tilting Angle = 0°	L=115mm	F=5880N	L=100mm	F=4900N
	Tilting Angle = 90°	L ₁ =0mm L ₂ =100mm	F ₁ =5880N F ₂ =2940N	L ₁ =0mm L ₂ =100mm	F ₁ =5880N F ₂ =2940N
	Tilting Angle = 90°	451		382	
MAX. Work Inertia	$\frac{GD^2}{4}$ $\text{kg}\cdot\text{m}^2$	0.66		0.5	
Driving Torque		288		144	

- ★ L type (Motor is mounted at left hand side) is available for 5AX-230.
- ★ *Please specify 5AX-2002 as the Code No. of 5AX-200II when ordering.
- ★ Range of tilting angle (0°~105°) can be expanded as an option. Please contact us.
- ★ AWC system is available for all rotary tables, please refer ⇨ P.47~48
- ★ Rotary joint is available for all rotary tables, please refer ⇨ P.54
- ★ Ultra precision type is available for all rotary tables, Rotary axis: $\pm 5''$ Tilting axis: $\pm 10''$, please refer ⇨ P.53

- ★ α iF8/4000 motor can be mounted on the rotary axis of 5AX-230.
- ★ The supplied hydraulic pressure is 3.5MPa for hydraulic clamping system.
- ★ The air-hydraulic booster is available, when 5AX-2002 with hydraulic clamping system is used on the M/C without hydraulic source, please refer ⇨ P.55.
- ★ The air-hydraulic booster can not be used for 5AX-230.
- ★ The hydraulic tank is always necessary for 5AX-230.