

MULTI-SPINDLE TILTING ROTARY TABLE



5AX-4MT-120

- Tilting rotary table with Multi-Spindle
- Various attachment for fixing work piece



● Explanation of the Code No. (Example)

5AX - 2MT - 105 - 120 F A - M

- No Letter: without motor M: with motor
 - No Letter: DC servo motor A: AC servo motor
 - Motor Maker P.37
 - WA21: with NIKKEN α 21 controllers for both axes
 - DA21: 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
 - No Letter: Tilting axis right hand side
 - L: Tilting axis left hand side
 - Pitch (Centre distance)
 - Diameter of Table 105, 120
 - Number of spindles 2, 3, 4
 - 5AX-: Tilting rotary table
- () :High Speed type Please contact us.

Specifications

Item / Code No.		5AX-2MT-105		5AX-4MT-120	
Diameter of Table	ϕ mm	105		105	
Diameter of Spindle Hole	ϕ mm	$\phi 60_{H7} \phi 30$		$\phi 60_{H7} \phi 30$	
Number of spindles (Pitch)	mm	120		120	
Centre Height (90°)	mm	175		235	
Table Height in Horizontal Position (0°)	mm	250		300	
Width of T Slot	mm	$16^{+0.018}_0$		$16^{+0.018}_0$	
Axis		Rotary	Tilting (0°~105°)	Rotary	Tilting (0°~105°)
Clamping System	Air 0.5MPa Hyd. 3.5MPa	Air	Air	Hyd.	Hyd.
Clamping Torque	N·m	147	147	147	343
Table Inertia at Motor Shaft ($\frac{GD^2}{4}$)	$\text{kg}\cdot\text{m}^2 \times 10^{-3}$	0.13	0.13	0.2	0.48
Servo Motor	min^{-1}	α iF2 / 5000·2000	α iF2 / 5000·2000	α iF8 / 4000·2000	α iF4 / 5000·2000
MIN. Increment		0.001°	0.001°	0.001°	0.001°
Rotation Speed	min^{-1}	22.2	11.1	11.1(44.4)	16.6
Total Reduction Ratio		1/90	1/180	1/180(1/45)	1/120
Indexing Accuracy	sec	± 30	60	± 45	± 30
Net Weight	kg	150		350	
MAX. Work Load on the Table	0° to 30°	15 kg		25 kg	
	30° to 90°	10 kg		15 kg	
MAX. Thrust Load applicable on the Table	Tilting Angle = 0°	3920 N		3920 N	
	Tilting Angle = 0°	L=60mm	F ₁ =784N	L=60mm	F=2858 N
	Tilting Angle = 90°	L ₁ =0mm L ₂ =100mm	F ₁ =653N F ₂ =490N	L ₁ =0mm L ₂ =100mm	F ₁ =1380N F ₂ =1040N
	Tilting Angle = 90°	49 N·m		49 N·m	
MAX. Work Inertia	$\frac{GD^2}{4}$ $\text{kg}\cdot\text{m}^2$	0.014		0.021	
Driving Torque	N·m	36		144	

- ★ Min. pitch between spindles 105:120mm. If you need different pitch, please contact us.
- ★ 4 spindle rotary table to suit 2 Spindle M/C is also available, please contact with us.
- ★ Max numbers of spindles 105:4 spindles.
- ★ The supplied hydraulic pressure is 3.5MPa for hydraulic clamping system.

