

MULTI-SPINDLE TILTING ROTARY TABLE

NIKKEN


5AX-4MT-105-120

- Tilting rotary table with Multi-Spindle
- Various attachment for fixing work piece
- Ideal for small items and mass-produced parts



Option				Accessories				
ADD. AXIS	ACCURACY SPEC.	ROTARY JOINT	ULTRA PRECISION	TAIL STOCK	SCROLL CHUCK	POWER CHUCK	CLAMP DEVICE	T-NUT
P.57	P.95	P.81	P.79	P.73	P.75	P.76	P.77	P.78

Specifications Multi-Spindle Tilting Rotary Tables are all semi-standard models. Please contact us.

Item / Code No.		5AX-2MT-105-120		5AX-4MT-105-120	
Diameter of Table	φmm	105		105	
Diameter of Spindle Hole	φmm	φ60H7 φ30		φ60H7 φ30	
Number of spindles (Pitch)	mm	2 spindles (120)		4 spindles (120)	
Center Height (90°)	mm	175		235	
Table Height in Horizontal Position (0°)	mm	250		300	
Width of T Slot	mm	-		-	
Axis		Rotary	Tilting (0°~105°)	Rotary	Tilting (-110°~+110°)
Clamping System		Pneumatic*1	Pneumatic*1	Hydraulic	Hydraulic
Clamping Torque	N·m	147	147	147	343
Table Inertia at Motor Shaft $(\frac{GD^2}{4})$	kg·m ² ×10 ⁻³	0.13	0.13	0.2	0.48
Servo Motor	r/min	α iF2·3000	α iF2·2000	α iF8·3000	α iF4·2000
MIN. Increment		0.001°	0.001°	0.001°	0.001°
Rotation Speed*2	r/min	33.3	11.1	16.6	16.6
Total Reduction Ratio		1/90	1/180	1/180	1/120
Indexing Accuracy	sec	±30	60	±45	±30
Net Weight	kg	150		350	
MAX. Work Load on the Table	0° to 30°	15		25	
	30° to 90°	10		15	
MAX. Thrust Load applicable on the Table	Tilting Angle = 0°	3920		3920	
	Tilting Angle = 0°	L=60mm F ₁ =784N		L=60mm F=2858N	
	Tilting Angle = 90°	L ₁ =0mm F ₁ =653N L ₂ =100mm F ₂ =490N		L ₁ =0mm F ₁ =1380N L ₂ =100mm F ₂ =1040N	
	Tilting Angle = 90°	49		49	
MAX. Work Inertia		0.014		0.021	
Driving Torque		36		144	

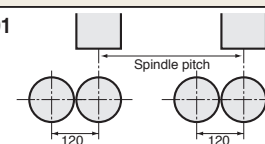
*1 Air Intensifying Booster system is available if the supplied air pressure is under 0.5MPa or the brake torque is required to increase. **P.91**

*2 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.

★ Min. pitch between spindles: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:4 spindles.

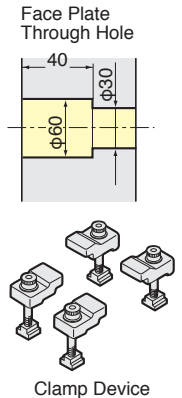
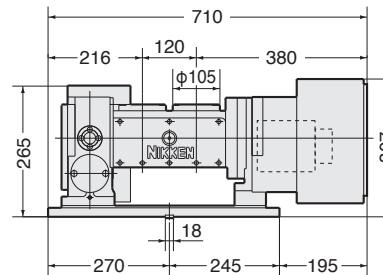
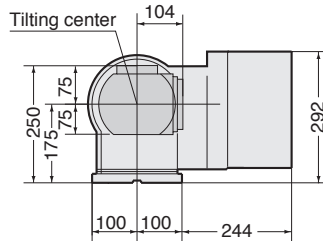


5AX-2MT, 5AX-4MT



External dimensions depend on the type of the servo motor. Indicated dimensions are in case of FANUC. Please contact us for CAD files (2D:DXF, 3D:PARASOLID).

5AX-2MT-105-120

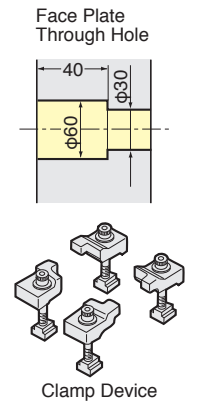
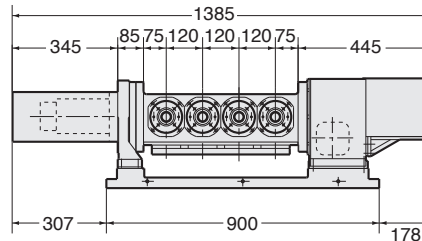
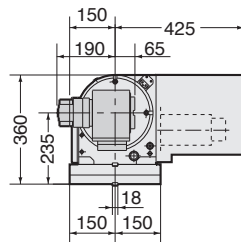


Center height of high column table is 35mm higher than that of standard table.
MAX. number of ports in rotary joint Standard: 4 ports, High Column: 6 ports
If you need a knock hole for positioning or a key way on the table surface, please contact us.

5AX-4MT-105-120



4" Power chuck in photo is optional.



MAX. 6 port rotary joint can be installed on standard type as an option.
If you need a knock hole for positioning or a key way on the table surface, please contact us.

Multi-Spindle Tilting Rotary Table

For Multi-Spindle Tilting Rotary Table, please contact us to know the required faceplate diameters, fixture attachment (e.g. Power Chuck etc), the required spindle pitch, the M/C model and the type of NC.



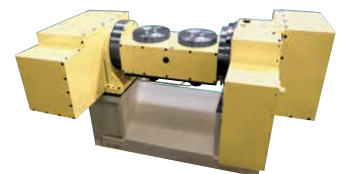
5AX-2MT-170-200



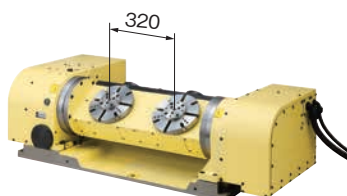
5AX-2MT-201-250



5AX-2MT-200-360



5AX-2MT-200-250



5AX-2MT-201-320



5AX-2MT-180-250



5AX-2MT-130-170



5AX-2MT-182-250-205B