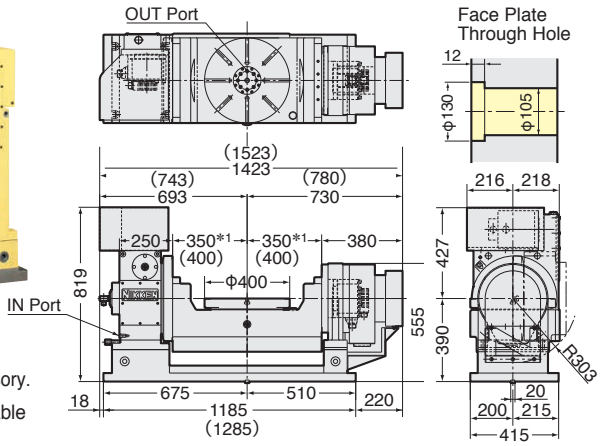
BUILT-IN type TILTING ROTARY TABLE

NIKKEN

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-T400, N400



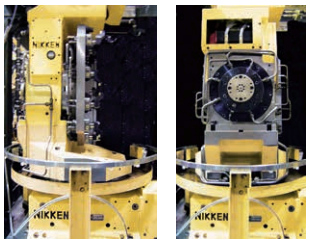
∗( ) : Figures is for **N400**.
∗1500 is available on the figures marked.

Built-in type 8 ports rotary joint is optional accessory.

The position of the motor of the tilting axis table can be right & left side for the vertical M/C.

Example when the tilting base is supplied.

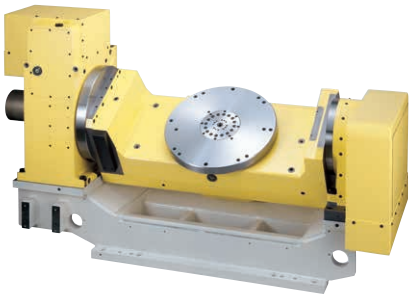
5AX-N400

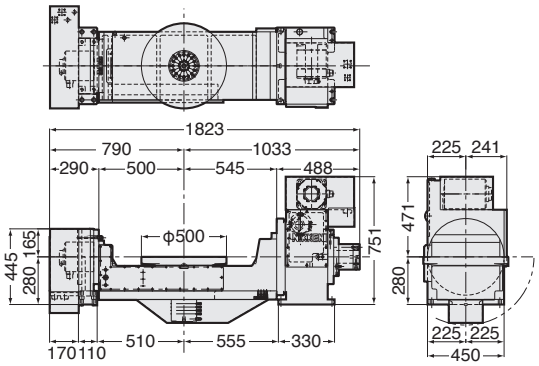


Combination of CNC503H & CNC302T

5AX-B450

Tilting base will be supplied from M/C builder.





Built-in type 17 ports rotary joint is optional accessory.

The position of the motor of the tilting axis table can be right or left side for the vertical M/C.

When only tilting axis is needed, an extended work piece can be machined.

5AX-T400-780

Item / Code No.		5AX-T400 N400		5AX-B450	
Diameter of Table	φmm	400		500	
Diameter of Spindle Hole	φmm	Φ105H7		Φ155H7 Φ109	
Center Height	(90°) mm	390		280*1	
Table Height in Horizontal Position	(0°) mm	390		280*1	
Width of T Slot	mm	$14^{+0.018}_{0}$		—	
Axis		Rotary	Tilting	Rotary	Tilting
Clamping System	3.5MPa	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Clamping Torque	N·m	1760	1760	1760	3870
Table Inertia at Motor Shaft	$(\frac{GD^2}{4})$ kg·m²×10⁻³	2.8	2.44	2.8	2.9
Servo Motor	r/min	αiF12 •2000	αiF22 •2000	αiF12 •2000	αiF22 •2000
MIN. Increment		0.001°	0.001°	0.001°	0.001°
Rotation Speed	r/min	22.2	16.6	22.2	16.6
Total Reduction Ratio		1/90	1/120	1/90	1/120
Indexing Accuracy	sec	15	60	20	60
Net Weight	kg	750(**w/o base**) 995(**with base**)		1050(**w/o base**)	

Item / Code No.		5AX-T400 N400	5AX-B450
MAX. Work Load on the Table	0° to 30° W kg	300	300
	30° to 90° W kg	250	250
MAX. Thrust Load applicable on the Table	Tilting Angle = 0° F	31360	31360
	Tilting Angle = 0° F L	L=200mm F=6860N	L=250mm F=5488N
	Tilting Angle = 90° F1 F2	L=100mm F=11660N	L=100mm F=11660N
	Tilting Angle = 90° L F F×L N·m	1166	1166
MAX. Work Inertia	C $(\frac{GD^2}{4})$ kg·m²	5.1	5.1
Driving Torque	N·m	432	432

★Ultra precision type is available for all rotary tables, Rotary axis: **±5″**Tilting axis: **±10″**, please refer to ☞ **P.87**.
The figures marked ∗1 show the dimension without tilting axis base.