

# MANUAL TILTING ROTARY TABLE



NST300

■ Table can be tilted at 0°~90° manually.

■ Indexing is CNC controlled so that it can be adapted to all kinds of machining.

● Explanation of the Code No. (Example)

## NST 300 L F A - M

- No Letter: without motor
- M: with motor
- No Letter: DC servo motor
- A: AC servo motor
- Motor Maker ⇒ P.47
- A21: with NIKKEN A21 controller
- 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 motor
- No Letter: Right hand mounted motor
- L: Left hand mounted motor (Only NST300)
- Diameter of Table
- 250, 300, 500
- NST: Manual tilting table

## Specifications

Item / Code No.		NST250	NST300	NST500
Diameter of Table	φmm	250	300	500
Diameter of Spindle Hole	φmm	φ60H7 φ52	φ60H7 φ60	φ75H7 φ61.5
Centre Height	mm	155	208	288
Width of T Slot	mm	12 <sup>+0.018</sup> <sub>0</sub>	12 <sup>+0.018</sup> <sub>0</sub>	14 <sup>+0.018</sup> <sub>0</sub>
Clamping System		Air	Air	Air
Clamping Torque	N·m	147	196	196
Table Inertia at Motor Shaft ( $\frac{GD^2}{4}$ )	kg·m <sup>2</sup> ×10 <sup>-3</sup>	0.39	0.59	0.69
Servo Motor	min <sup>-1</sup>	αiF2 / 5000·2000	αiF4 / 4000·2000	αiF8 / 3000·2000
MIN. Increment		0.001°	0.001°	0.001°
Rotation Speed	min <sup>-1</sup>	16.6	11.1	5.5
Total Reduction Ratio		1/120	1/180	1/360
Indexing Accuracy	sec	20	20	20
Net Weight	kg	75	135	320
MAX. Work Load on the Table	Vertical  kg	50	100	200
	Horizontal  kg	100	300	500
MAX. Thrust Load applicable on the Table	N	9800	14700	24500
	F×L N·m	412	686	1166
	F×L N·m	706	1176	2450
MAX. Work Inertia	Vertical  + ( $\frac{GD^2}{4}$ ) kg·m <sup>2</sup>	1.35	3.37	14.70
Driving Torque	N·m	144	288	1152

★ L type (left hand mounted motor) is available for NST300.  
★ αiF8/3000 motor can be mounted on NST300.

# NST250, 300, 500



External dimensions will be different according to the type of the servo motors. Dimensions with FANUC motor or with NIKKEN  $\alpha$ 21 controller ( $\alpha$ 21: ) are shown. Please contact with us for CAD data (2D:DXF, 3D:PARASOLID).

## NST250

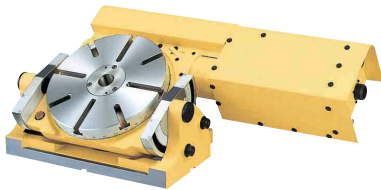
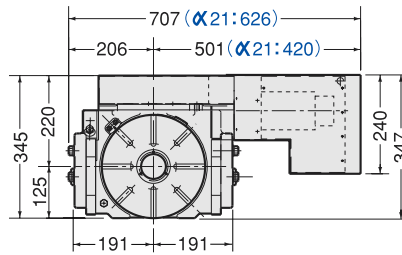
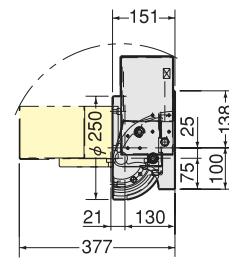


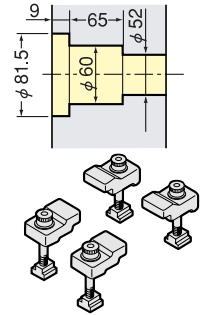
Photo shows with centre socket (option).



Guide key width: 18mm  
Table height in horizontal position: 151mm



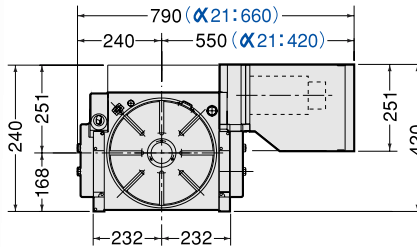
Centre height at 90°: 155mm



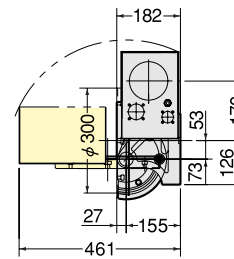
## NST300



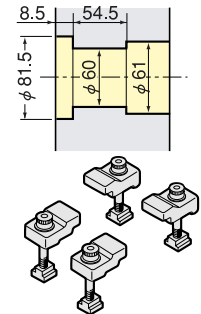
Photo shows with centre socket (option).



Guide key width: 18mm  
Table height in horizontal position: 182mm



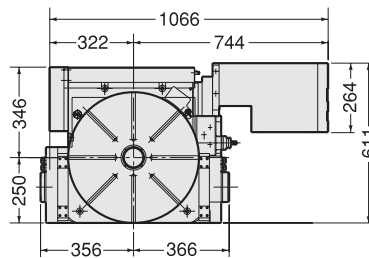
Centre height at 90°: 208mm



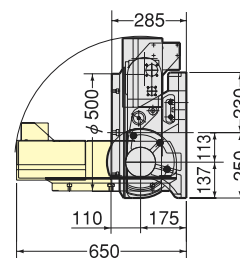
## NST500



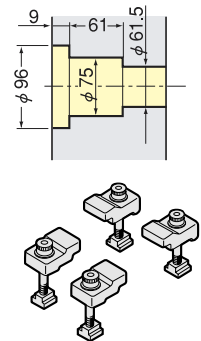
Photo shows with centre socket (option).



Guide key width: 20mm  
Table height in horizontal position: 285mm



Centre height at 90°: 288mm



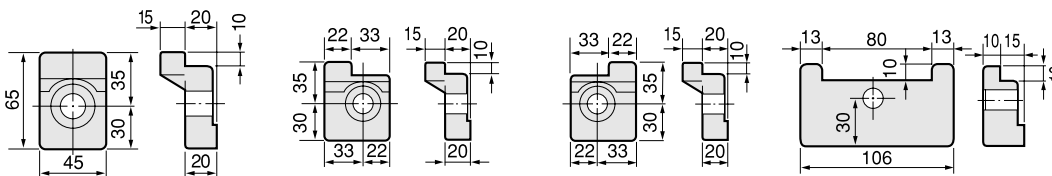
- ★ For accuracy standard, refer  $\Rightarrow$  P.51, 52
- ★ For scroll chuck, tailstock and other optional accessories, refer  $\Rightarrow$  P.49, 50

★  $\alpha$  series attachment can be attached for NST250, refer  $\Rightarrow$  P.48

# FITTING METAL and STEPPED GUIDE PIECE



## Fitting Metal

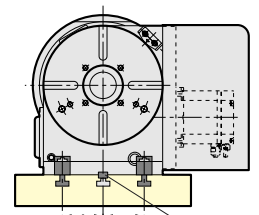


A

B

C

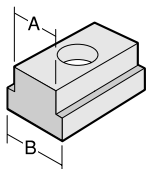
E



T-slot pitch guide piece

The Fitting Metal is designed for T-slot pitches of 100mm or 125mm on the M/C table. Please contact with us for the other pitches.

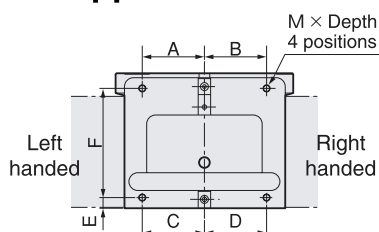
## Stepped Guide Piece



★ 2 pcs./set

B	A	14	18	20
10		W-14I		
12		W-14H	W-18E	
14			W-18A	
16		W-14A	W-18B	W-20A
18		W-14B		W-20B
20		W-14C	W-18C	
22			W-18D	W-20C
24				W-20D
7/16"		W-14F		
11/16"		W-14G		

## Tapped Holes Location on the Base Plane



● Please refer above dimensions for direct mounting with the bolts from base plane side.

Code No.	A	B	C	D	E	F	M $\times$ Depth, 4 positions
CNC105, 105L	55	55	55	55	10	125	M10 $\times$ 12L, 4 positions
CNC180, 202 CNC180L, 202L	70	70	70	70	12	123	M 8 $\times$ 10L, 4 positions
CNC260, 302	105	120	105	120	12.5	167.5	M12 $\times$ 16L, 4 positions
CNC260L, 302L	120	105	120	105	12.5	167.5	M12 $\times$ 16L, 4 positions
CNC321, 401	145	135	165	135	15	200	M12 $\times$ 20L, 4 positions
CNC321L, 401L	135	145	135	165	15	200	M12 $\times$ 20L, 4 positions
CNC501, 501L	240	240	240	240	20	235	M16 $\times$ 30L, 4 positions