

Manual Tilting type

THNC THNC-251・301

Manual tilt adjustment type with a highly rigid body and a powerful hydraulic clamp system.



Unit: mm

Specifications

		THNC-251	THNC-301
Tilt range		0° to +93°	0° to +93°
Table diameter		φ250	φ320
Table height at 0° position		230	265
Center height at 90° position		210	235
Center bore	Nose diameter	φ40H7	φ40H7
	Through-bore	φ32	φ40
Table T-slot width*1		12H7	14H7
Guide block width		18h7	18h7
Servo motors (for FANUC)	Rotary axis	αiF4	αiF8
	Tilt axis	Manual	Manual
Inertia converted into motor shaft	$\times 10^{-3} \text{kg} \cdot \text{m}^2$	0.20	0.25
Speed reduction ratio		1/180	1/180
Table max. rpm	min^{-1} (Motor rpm: 2,000 min^{-1})	11.1	11.1
Clamp system		Hydraulic 3.5MPa	Hydraulic 3.5MPa
Supplied pressure		Manual 19.6N·m	Manual 35.3N·m
Clamp torque	N·m	490	833
Indexing accuracy(the sum)	sec	15	15
Net weight	kg	125	180
Strength of worm gears (Rotary axis)	N·m	470	764
Allowable work weight	kg	80	200
Allowable load (when table is clamped)	N	6,860	9,800
Allowable load (when table is clamped)	N·m	490	833
Allowable load (when table is clamped)	N·m	490	1,862
Allowable work inertia	$\text{kg} \cdot \text{m}^2$	0.62	2.25

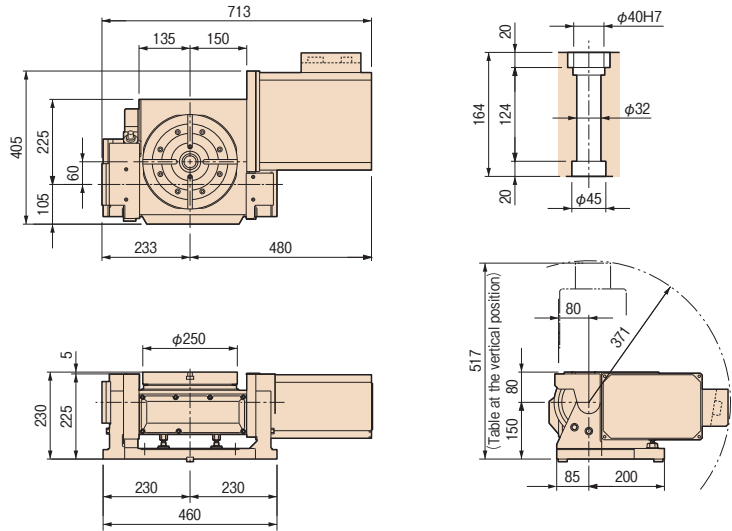
☞ Servo motors of other manufacturers **P.66**

* 1 The tolerance of the table T-slot width is applicable to four standard slots arranged crosswise. ☞ Dimensions **P.60**

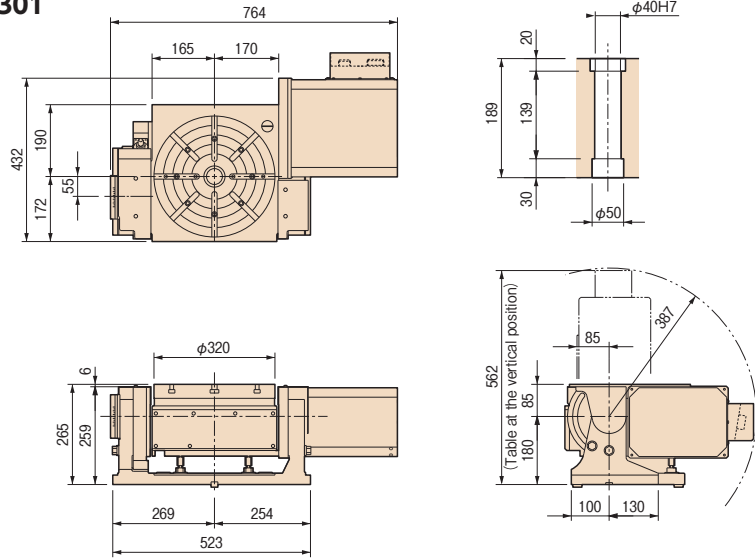
Dimensions

Unit: mm

THNC-251



THNC-301



Note: The above dimensions are for FANUC servo motors. The dimensions of servo motors of other manufacturers may be larger.

RBS

TBS

RWE/RWA
RN

RWA-B
RNCV-B

RNCM

RWB

RWB-K
RNCK

RCH

RNC

RCV

Multi-Spindle
RWM

TWA/TN

TWB
TTNC

THNC
Multi-Spindle
TWM

RDS

RTV
RTT

RCB

NC Controllers

Accessories

Options

Technical
Information

Clamping block and bolt

Unit: mm

	Type	Q'ty	Layout	T-slot pitch	T-slot width	A	B	C	D	E	F	G	H	I	J	K	L	M
THNC-251	I	4	a b	40 to 100 40 to 65	18	25	12	80	12	33	35	22	21	11	65	40	28	16
THNC-301	II	4	a b	40 to 130 40 to 80	18	25	15	52	12	15	25	40	21	11	85	40	28	16

Note: When using a machine with a T-slot pitch other than the above, use suitable clamping blocks and bolts that are available on the market, or order custom-made ones from TSUDAKOMA. (Option)

