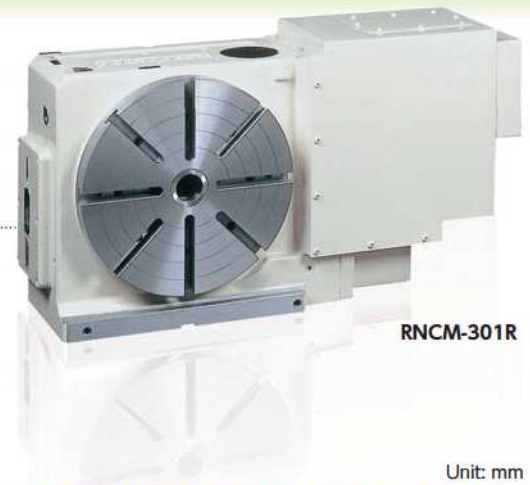


Vertical motor mounting type

# RNCM

**RNCM- 251•301•401•501•631**

Basic models with a motor horizontally mounted onto the side of the body.



RNCM-301R

## Specifications

Unit: mm

		RNCM-251	RNCM-301	RNCM-401	RNCM-501	RNCM-631		
Handedness	R	○	○	○	○	○		
	L	○	○	○	○	○		
Table diameter		φ250	φ320	φ400	φ500	φ630		
Center height		160	210	255	310	400		
Center bore	Nose diameter	φ40H7	φ40H7	φ40H7	φ50H7	φ60H6*2		
	Through-bore	φ32	φ40	φ40	φ50	φ60		
Table T-slot width*1		12H7	14H7	14H7	18H7	18H7		
Guide block width		18h7	18h7	18h7	18h7	18h7		
Servo motors (for FANUC)		αiF4 or αiF8	αiF8	αiF12	αiF12	αiF12		
Inertia converted into motor shaft × 10 <sup>-3</sup> kg·m <sup>2</sup> [× 10 <sup>-3</sup> kgf·cm·sec <sup>2</sup> ]		0.30 [3.01]	0.34 [3.43]	1.76 [17.9]	2.05 [20.9]	3.09 [31.9]		
Net weight		75	200	300	450	800		
Speed reduction ratio		1/180	1/360	1/180	1/180	1/180		
Table max. rpm (Motor rpm: 2,000min <sup>-1</sup> )		11.1	5.5	11.1	11.1	11.1		
Indexing accuracy (the sum)		15	15	15	15	15		
Clamp system		Hydraulic or air-hydraulic (Option)		Hydraulic or air-hydraulic (Option)	Hydraulic or air-hydraulic (Option)	Hydraulic or air-hydraulic (Option)		
Clamp torque / Hydraulic pressure 3.5Mpa [35kgf/cm <sup>2</sup> ]		N·m [kgf·m]	490 [50]	Air-hydraulic pressure 274 [28]	833 [85]	1,764 [180]	2,450 [250]	4,410 [450]
Strength of worm gears		N·m [kgf·m]	470 [48]	764 [78]	1,666 [170]	2,450 [250]	4,116 [420]	
Allowable work weight	Vertical setting ( ) : with tailstock	kg	100 (250)	150 (350)	200 (500)	250 (600)	400 (1,000)	
	Horizontal setting	kg	250	350	500	600	1,000	
Allowable load (when table is clamped)	F	N [kgf]	19,600 [2,000]	29,400 [3,000]	39,200 [4,000]	49,000 [5,000]	49,000 [5,000]	
	F × L	N·m [kgf·m]	490 [50]	833 [85]	1,764 [180]	2,450 [250]	4,410 [450]	
	F × L	N·m [kgf·m]	931 [95]	1,568 [160]	2,450 [250]	3,430 [350]	7,840 [800]	
Allowable work inertia	$J = \frac{W \cdot D^2}{8}$	kg·m <sup>2</sup> [kgf·cm·sec <sup>2</sup> ]	1.2 [12.3]	3.7 [38.5]	9.7 [99.8]	18.2 [185.2]	49.6 [506.2]	

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

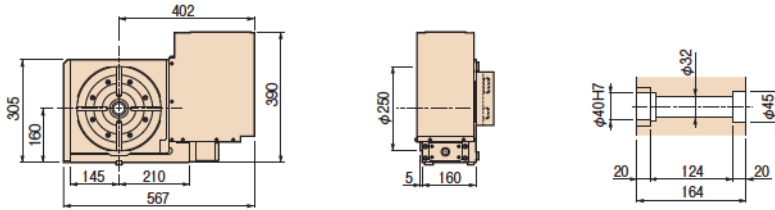
\* 1 The tolerance of the table T-slot width is applicable to four standard slots arranged crosswise.

\* 2 For model RNCM-631, a big bore type is also available. (center bore: φ180H7)

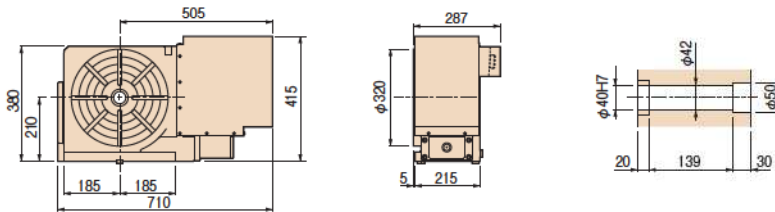
# Dimensions

Unit: mm

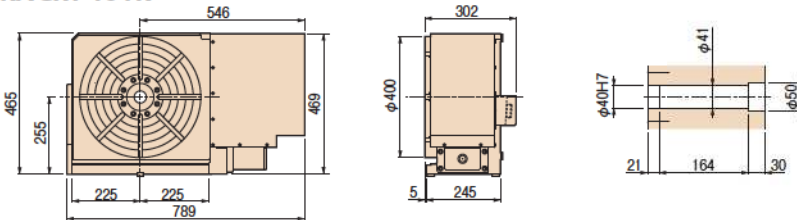
## RNCM-251R



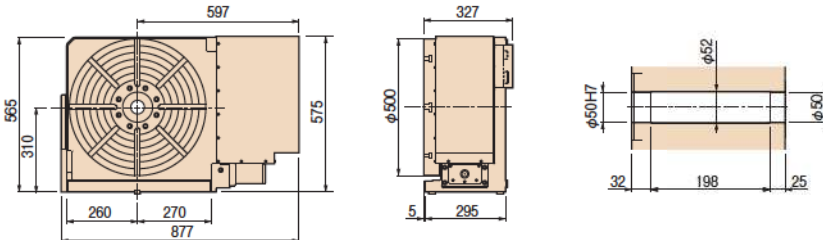
## RNCM-301R



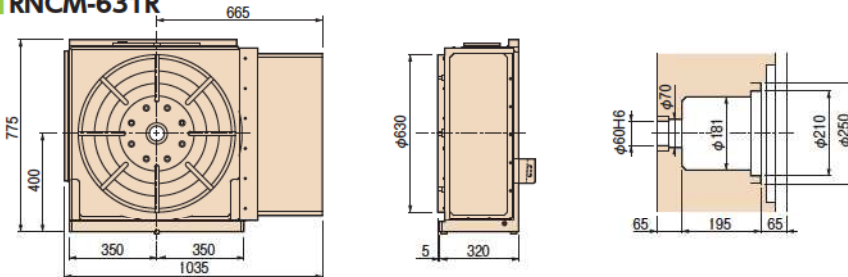
## RNCM-401R



## RNCM-501R



## RNCM-631R



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

### Clamping block and bolt

Unit: mm

	Type	Q'ty	T-slot pitch	T-slot width	A	B	C	D	E	F	G	H	I	J	K	L	M
RNCM-251	I	4	50~125	18	25	12	80	12	33	35	22	21	11	65	40	28	16
RNCM-301	I	4	55~127	18	30	15	90	16	31	43	25	21	11	70	46	28	16
RNCM-401	I	4	55~155	18	30	15	90	16	31	43	25	21	11	70	46	28	16
RNCM-501	I	4	60~194	18	40	20	110	18	42	50	25	21	11	70	46	28	16
RNCM-631	II	4	90~255	18	40	18	63	18	15	30	58	21	11	105	60	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)

With Hydraulic Power Chuck

P.56



RNCM-301R

With Support Spindle and Fixture Plate

P.59



RNCM-501R

RBS

TBS

RWE/RWA  
RN

RWE/RWA-B  
RNCV-B

RNCM

RWB

RWB-K  
RNCK

RCH  
RNC

RCV  
RNCV

Multi-Spindle  
RWM

TWA/TN

TTNC

THNC

Multi-Spindle  
TWM

RDS

RTV  
RTT

RCB

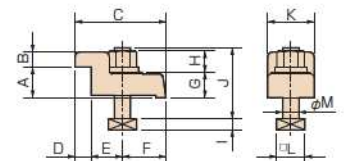
NC Controllers

Accessories

Options

Technical Information

Type I



Type II

