RNCM-251, 301, 401, 501, 631

SPACE SAVING • POWERFUL HYDRAULIC CLAMPING

The RNCM-Series rotary tables utilize a space saving vertical motor mounting configuration. These tables feature powerful hydraulic clamping and can be accessorized with a variety of options.

RNCM-631R

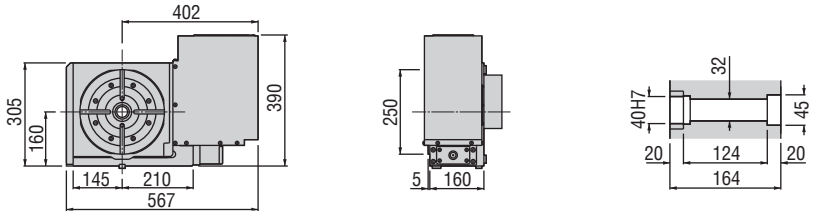
Table Model			RNCM-251	RNCM-301	RNCM-401	RNCM-501	RNCM-631
Versions available			R, L	R, L	R, L	R, L	R, L
Table diameter		mm	250	320	400	500	630
Center height		mm	160	210	255	310	400
Center bore	Nose Diameter	mm	40H7	40H7	40H7	50H7	60H6
	Thru Diameter	mm	32	40	40	50	60
Table T-slot width			12H7	14H7	14H7	18H7	18H7
Guide block width			18h7				
Servo motor (Fanuc)*			Alpha 8i	Alpha 12i	Alpha 12i	Alpha 12i	Alpha 12i
Maximum motor speed		rpm	4,000				
Speed reduction ratio			1/180				
Maximum table speed		rpm	22.2				
Inertia converted into motor shaft		x 10^{-3}kg·m^2	.30	1.76	2.05	3.09	5.55
Clamp system**			Hydraulic				
Clamp torque @500psi		Nm (ft. lbs.)	490 (361)	833 (614)	1,764 (1,300)	2,450 (1,806)	4,410 (3,250)
Indexing accuracy		arc sec.	±7.5				
Net Weight		kg (lbs.)	75 (165)	200 (440)	300 (660)	450 (990)	800 (1,760)
Allowable wheel torque		Nm (ft. lbs.)	470 (346)	764 (563)	1,666 (1,228)	2,450 (1,805)	4,116 (3,033)
Allowable work inertia		kg·m^2	1.2	3.7	9.7	18.2	39.7
Allowable work weight		kg (lbs) [w/ tailstock]	100 (220) [250 (550)]	150 (330) [350 (770)]	200 (440) [500 (1,100)]	250 (550) [600 (1,320)]	400 (880) [1000 (1,760)]
		kg (lbs)	250 (550)	350 (770)	500 (1,100)	600 (1,320)	1,000 (2,200)
Allowable load when table clamped		N (lbf)	19,600 (4,390)	29,400 (6,585)	39,200 (8,781)	49,000 (10,976)	49,000 (10,976)
		Nm (ft. lbs.)	490 (361)	833 (614)	1,764 (1,300)	2,450 (1,806)	4,410 (3,250)
		Nm (ft. lbs.)	931 (686)	1,568 (1,156)	2,450 (1,806)	3,430 (2,528)	7,840 (5,778)

* Other motors & RPM available
** Booster optional
Specifications subject to change without notice

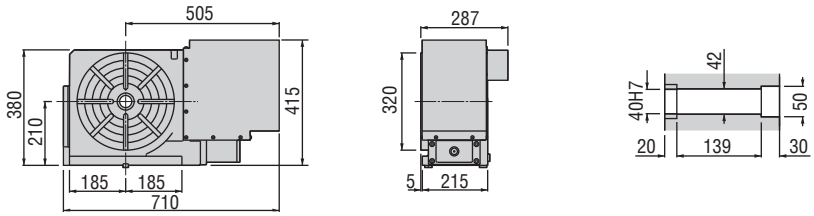
Dimensions

Drawings not to scale • Dimensions = mm

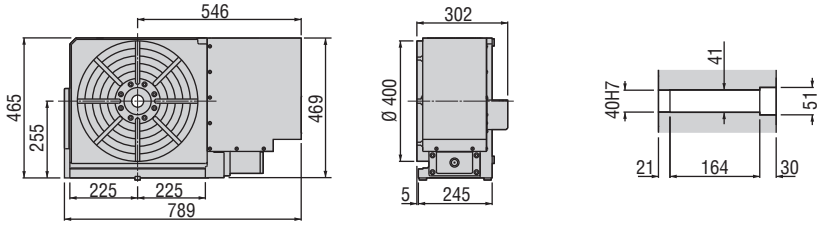
RNCM-251R



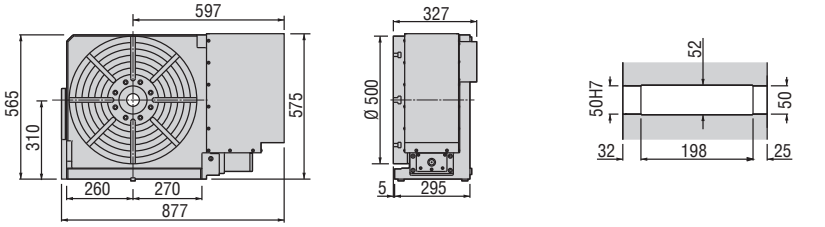
RNCM-301R



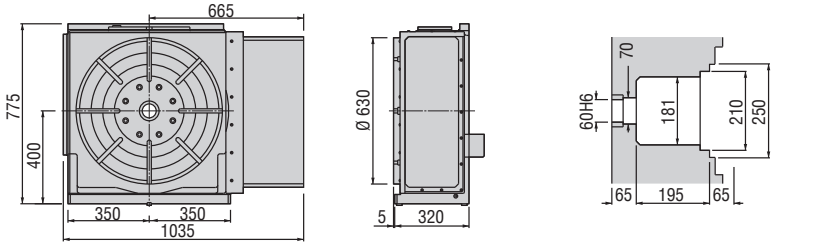
RNCM-401R



RNCM-501R



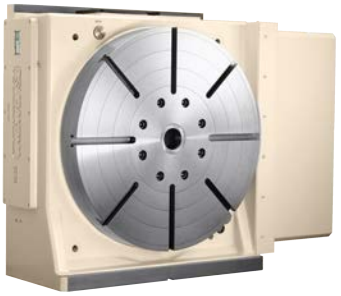
RNCM-631R



The dimensions above are for tables with a FANUC servo motor. Other motors available (dimensions may increase).

RNCM-401L

RNCM-631R



Options & Accessories

TPC NC Controller	p.62
Chucks	p.74
Tailstock	p.75
Support Spindle	p.77
Face Plate	p.77
Encoder / Scale	p.78
Pull Stud Device	p.79
Rotary Joint	p.79
Booster	p.80
PVC or Steel Cables	p.81

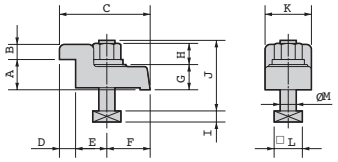
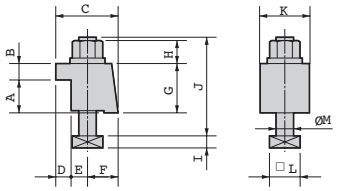
Clamping Block and Bolt

Dimensions = mm

	Type	Q'ty	T-Slot Width	A	B	C	D	E	F	G	H	I	J	K	L	M
RNCM-251	I	4	18	25	12	80	12	33	35	22	21	11	65	40	28	16
RNCM-301	I	4	18	30	15	90	16	31	43	25	21	11	70	46	28	16
RNCM-401	I	4	18	30	15	90	16	31	43	25	21	11	70	46	28	16
RNCM-501	I	4	18	40	20	110	18	42	50	25	21	11	70	46	28	16
RNCM-631	II	4	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 KOMA (opt.)

Type I



Type II