

RN-100/150-2,3,4 | RN-200/250/300-2,3

MULTI-FACE PLATE, MULTI-SPINDLE TABLE • PNEUMATIC CLAMPING

These high speed, multi-spindle rotary tables are particularly suited for multi-spindle vertical machining centers. The compact, multi-spindle RN-100 is ideal for use on drilling and tapping machines.



RN-100R-3

Table Model		RN-100-2,3,4	RN-150-2,3,4			RN-200-2,3		RN-250-2,3		RN-300-2,3			
Versions available		R, L	R			R		R		R			
Spindle outer diameter	mm	80h7	100h7			120h7		-		-			
Table diameter (optional)	mm	(115)	(160)			(200)		250		320			
Center height	mm	135	135			160		160		210			
Center bore	Nose Diameter	mm	50H7			55H7		65H7		75H7		110H7	
	Thru Diameter	mm	30			40		45		45		85	
Table T-slot width (with face plate)		(10H8)		(12H8)			(12H8)		12H8		14H8		
Minimum spindle center distance		120		215			250		300		380		
Guide block width		18h7		14h7			18h7		18h7		18h7		
Servo motor (Fanuc)*		Alpha 4i		α4i	Alpha 8i		Alpha 8i		Alpha 8i		Alpha 12i		
Maximum motor speed	rpm	5,000		5,000	4,000		4,000		4,000		4,000		
Speed reduction ratio		1/36		1/90	1/180		1/90		1/120	1/180	1/120		
Number of spindles		2	3	4	2	3	4	2	3	2	3	2	3
Maximum table speed	rpm	138.9		55.5	44.4	22.2	44.4		33.3	22.2	33.3		
Inertia converted into motor shaft $\times 10^{-3} \text{kg}\cdot\text{m}^2$.64	.92	1.06	.42	.78	.39	.55	.92	.84	.63	2.09	2.63
Clamp system		Pneumatic											
Clamp torque @72psi	Nm (ft. lbs.)	80 (59)		156 (115)			294 (217)		441 (325)		880 (649)		
Indexing accuracy		±30		±15									
Net Weight [dual spindle]	kg (lbs.)	70-110 (154-242)		[120 (264)]			[160 (352)]		[240 (528)]		[480 (1,056)]		
Allowable wheel torque	Nm (ft. lbs.)	178 (131)		147 (108)			245 (181)		470 (346)		764 (563)		
Allowable work inertia	kg·m ²	.10		.48			1.2		2.0		3.7		
Allowable work weight	kg (lbs) [w/ tailstock]	25 (55) [50 (110)]		75 (165) [150 (330)]			100 (220) [250 (550)]		100 (220) [250 (550)]		150 (330) [350 (770)]		
	kg (lbs)	50 (110)		150 (330)			250 (550)		250 (550)		350 (770)		
Allowable load when table clamped	N (lbf)	5,880 (1,317)		7,840 (1,756)			13,720 (3,073)		13,720 (3,073)		19,600 (4,390)		
	Nm (ft. lbs.)	80 (59)		156 (115)			294 (217)		441 (325)		880 (649)		
	Nm (ft. lbs.)	156 (115)		392 (289)			980 (722)		980 (722)		1,960 (1,444)		

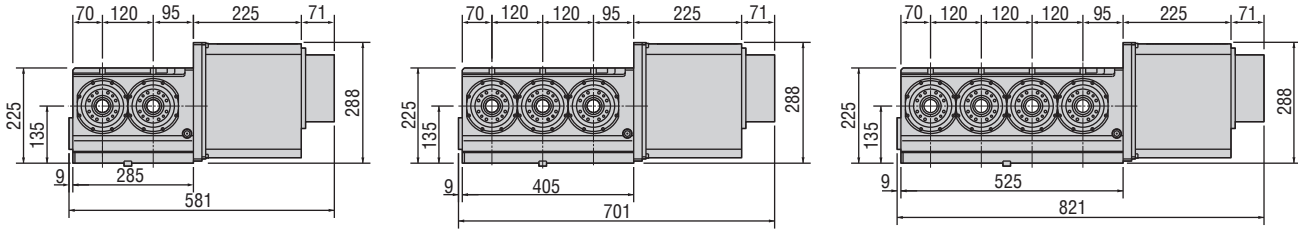
* Other motors & RPM available
Specifications subject to change without notice

NC Rotary Tables ▶ Multi-Face Plate, Multi-Spindle Models

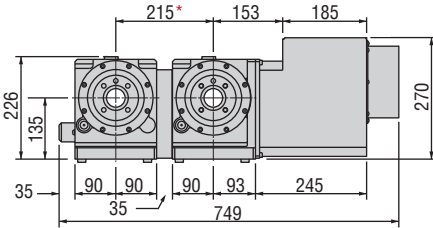
Dimensions

Drawings not to scale • Dimensions = mm

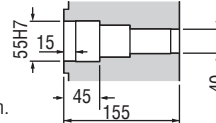
RN-100R-2,3,4



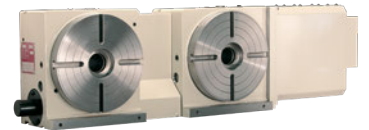
RN-150R-2 (3 & 4 spindle models also available)



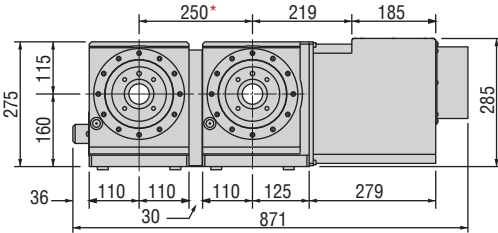
*Minimum center distance = 215mm. Other center distances available.



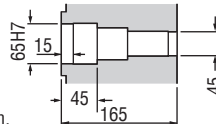
RN-250-2



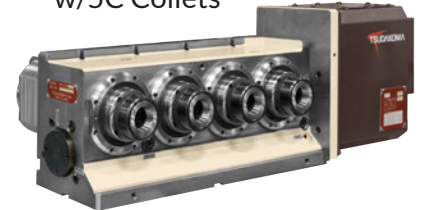
RN-200R-2 (3 spindle model also available)



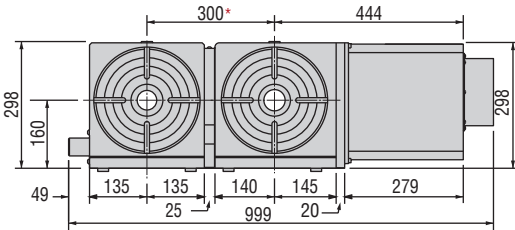
*Minimum center distance = 250mm. Other center distances available.



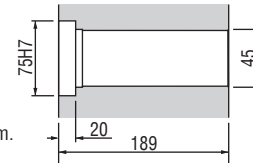
RN-100R-4 w/5C Collets



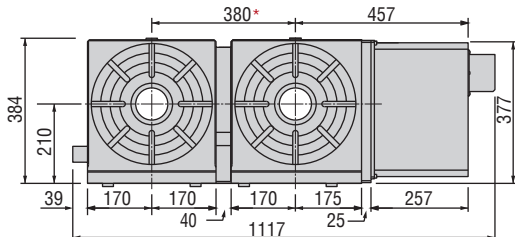
RN-250R-2 (3 spindle model also available)



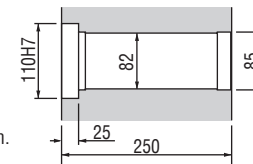
*Minimum center distance = 300mm. Other center distances available.



RN-300R-2 (3 spindle model also available)



*Minimum center distance = 380mm. Other center distances available.



Options & Accessories

TPC NC Controller	p.68
Chucks	p.79
Tailstock	p.81
Support Spindle	p.81
Face Plate	p.83
Encoder / Scale	p.84
Pull Stud Device	p.85
Rotary Joint	p.85
PVC or Steel Cables	p.86

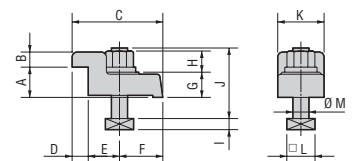
The dimensions above are for tables with a FANUC servo motor. Other motors available (dimensions may increase).

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
RN-100R	I	2	18	25	12	80	12	33	35	22	21	11	65	40	28	16
RN-150R	I	2	18	25	12	80	12	33	35	22	21	11	65	40	28	16
RN-200R	I	2	18	25	12	80	12	33	35	22	21	11	65	40	28	16
RN-250R	I	4	18	25	12	80	12	33	35	22	21	11	65	40	28	16
RN-300R	I	4	18	30	15	90	16	31	43	25	21	11	70	46	28	16

Type I



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.)