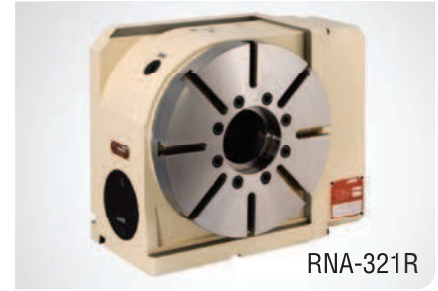


RN-100 • RNA-161, 201, 251, 321

COMPACT • MASSIVE CLAMP TORQUE






The compact, high speed RN-100 is especially suited for drilling and tapping machines. RNA-Series tables utilize a patent pending dual taper pneumatic clamping system which generates massive clamp torque - up to 300% greater than previous RN-Series rotary tables. RNA-Series tables feature a full range of options including rotary scales and hydraulic or pneumatic rotary joints.



RNA-321R

Specifications ►

Dimensions = mm

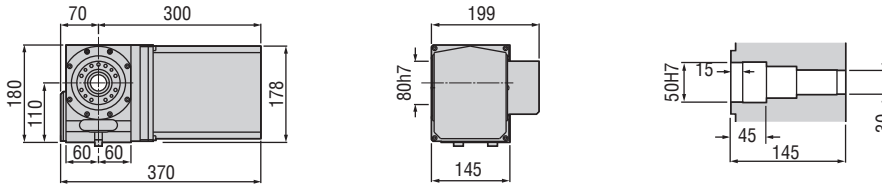
Table Model		RN-100	RNA-161	RNA-201	RNA-251	RNA-251,S	RNA-321	RNA-321,S
Versions available		R, L	R, L	R, L	R, L	R, L	R, L	R, L
Spindle outer diameter	mm	80h7	100h7	120h7	140h7	140h7	180h7	180h7
Table diameter (optional)	mm	(135)	(160, 200)	(200, 250)	250	250	320	320
Center height	mm	110	135	160	160	160	210	210
Center bore	Nose Diameter	mm	50H7	55H7	65H7	80H7	110H7	110H7
	Thru Diameter	mm	30	40	45	50	85	85
Table T-slot width (with face plate)		(10H8)	(12H8)	(12H8)	12H8	12H8	14H7	14H7
Guide block width		14h7	14h7	18h7	18h7	18h7	18h7	18h7
Servo motor (Fanuc)*		Alpha 2i	Alpha 2i	Alpha 4i	Alpha 8i	Alpha 8is	Alpha 8i	Alpha 22is
Maximum motor speed	rpm	5,000	5,000	4,000	3,000	4,000	3,000	4,000
Speed reduction ratio		1/36	1/72	1/72	1/90	1/45	1/120	1/45
Maximum table speed	rpm	83.3@ 3,000	69.4	55.6	33.3	88.9	25	88.9
Inertia converted into motor shaft	x 10 ⁻³ kg·m ²	.23	.09	.17	.41	.44	.52	1.66
Clamp system		Pneumatic		Pneumatic Dual Taper				
Clamp torque @72psi	Nm (ft. lbs.)	80 (59)	500 (369)	800 (590)	1,000 (737)	1,000 (737)	1,500 (1,106)	1,500 (1,106)
Indexing accuracy	arc sec.	±22.5	±12.5	±10	±10	±10	±10	±10
Repeatability	arc sec.	±2						
Net Weight	kg (lbs.)	28 (62)	38 (84)	61 (134)	80 (176)	80 (176)	145 (319)	145 (319)
Allowable wheel torque	Nm (ft. lbs.)	176 (130)	206 (152)	288 (212)	596 (439)	596 (439)	939 (692)	939 (692)
Allowable work inertia	kg·m ²	.10	.64	1.25	1.95	1.95	4.48	4.48
Allowable work weight	 kg (lbs) [w/ tailstock]	25 (55) [50 (110)]	100 (220) [175 (385)]	125 (275) [250 (550)]	125 (275) [250 (550)]	125 (275) [250 (550)]	175 (385) [375 (825)]	175 (385) [375 (825)]
	 kg (lbs)	50 (110)	200 (440)	250 (550)	250 (550)	250 (550)	350 (770)	350 (770)
Allowable load when table clamped	 N (lbf)	5,880 (1,317)	10,800 (2,419)	14,400 (3,226)	14,400 (3,226)	14,400 (3,226)	24,800 (5,555)	24,800 (5,555)
	 Nm (ft. lbs.)	80 (59)	500 (369)	800 (590)	1,000 (737)	1,000 (737)	1,500 (1,106)	1,500 (1,106)
	 Nm (ft. lbs.)	156 (115)	780 (575)	1,900 (1,400)	1,900 (1,400)	1,900 (1,400)	4,700 (3,464)	4,700 (3,464)

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

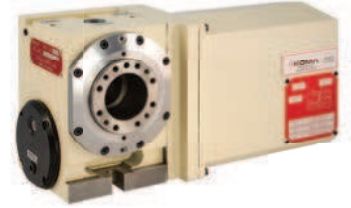
Dimensions ▶

Drawings not to scale • Dimensions = mm

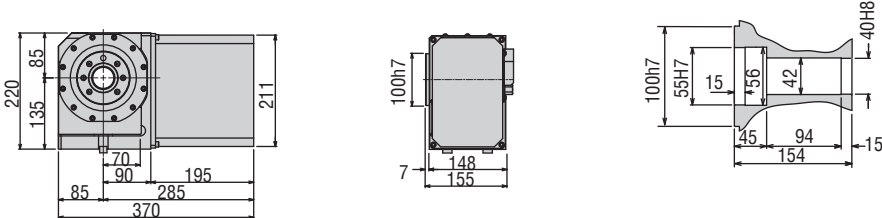
RN-100R



● RN-100R

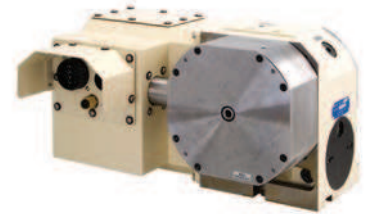


RNA-161R

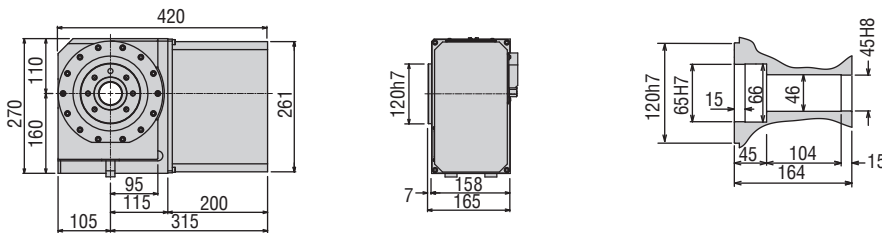


● RNA-161R

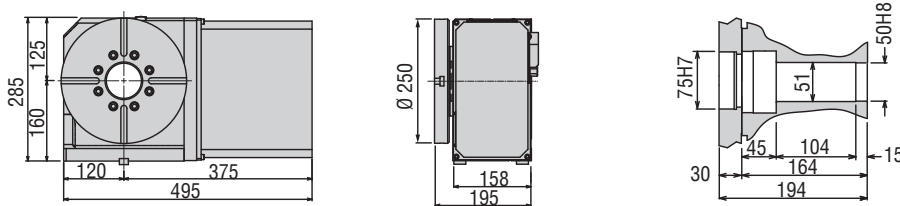
With optional rotary scale



RNA-201R



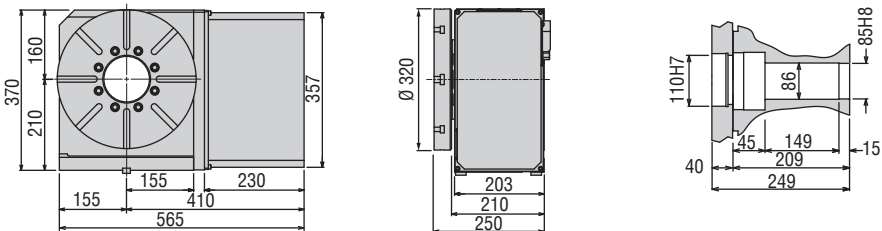
RNA-251R



Options & Accessories

TPC NC Controller	p.66
Chucks	p.77
Tailstock	p.79
Support Spindle	p.79
Face Plate	p.81
Encoder / Scale	p.82
Pull Stud Device	p.83
Rotary Joint	p.83
PVC or Steel Cables	p.84

RNA-321R



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-100	-	2	14	-	-	-	-	-	-	-	17	8	55	-	23	12
RNA-161	-	2	14	-	-	-	-	-	-	-	17	8	60	-	23	12
RNA-201	-	2	18	-	-	-	-	-	-	-	21	11	65	-	28	16
RNA-251	I	4	18	25	12	80	12	33	35	22	21	11	65	40	28	16
RNA-321	I	4	18	30	15	90	16	31	43	25	21	11	70	46	28	16

Note 1: 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.)

Note 2: Clamping blocks are not included in RN-100, RNA-161 and RNA-201.

Type I

