

Standard type

RNA RNA-160·200·250·320

RN RN-100



RNA-250R

The RNA series, which is an improvement over the best-selling RN series, has remarkably improved cost efficiency due to its high-speed operation for use in drill and tapping machines.

Specifications

Unit : mm

		RNA-160	RNA-200	RNA-250	RNA-320	RN-100
Handedness	R	○	○	○	○	○
	L	○	○	○	○	○
Spindle diameter		φ100	φ120	φ140	φ180	φ80
Table diameter *1		φ160 or 200 (Option)	φ200 or 250 (Option)	φ250 (Option)	φ320 (Option)	φ135 (Option)
Center height		135	160	160	210	110
Center bore	Nose diameter	φ55H7×45	φ65H7×45	φ80H7×45	φ115H7×45	φ50H7×45
	Through-bore	φ40	φ45	φ50	φ85	φ30
Table T-slot width *1		12H8	12H8	12H8	14H8	10H8
Guide block width		14h7	18h7	18h7	18h7	14h7
Servo motors (for FUNAC)		αiF2 αiF4	αiF4	αiF8	αiF8	αiF2
Inertia converted into motor shaft	×10 ⁻³ kg·m ²	0.09 0.09	0.17	0.41	0.52	0.23
Net weight	kg	38 44	61	80	150	28
Speed reduction ratio		1/72	1/72	1/90 *2	1/120 *2	1/36
Table max. rpm	min ⁻¹ (Motor rpm: 3,000min ⁻¹)	41.6	41.6	33.3	25	83.3
Indexing accuracy (the sum)	sec	25	20	20	20	45
Repeatability	arc sec	4	4	4	4	4
Clamp system		Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic
Clamp torque	N·m /pneumatic pressure 0.49MPa	500	800	1000	1500	80
Strength of worm gears	N·m	206	288	596	939	176
Allowable work weight	Vertical setting () : with tailstock	kg 100 (200)	125 (250)	125 (250)	175 (350)	25 (50)
	Horizontal setting 	kg 200	250	250	350	50
Allowable load (when table is clamped)	F 	N 10,800	14,400	14,400	24,800	5,880
Allowable load (when table is clamped)	F×L 	N·m 500	800	1,000	1,500	80
	F×L 	N·m 780	1,900	1,900	4,700	156
Allowable work inertia	$J = \frac{W \cdot D^2}{8}$ 	kg·m ² 0.64	1.25	1.95	4.48	0.10

Servo motors of other manufacturers **P.65** When assembling a faceplate or a fixture with the main spindle **P.75**

*1 The tolerance of the table T-slot width is applicable to four standard slots arranged crosswise. Dimensions **P.59**

*2 High speed models are available. Ask us for further information.

RNA-250: 320 (speed reduction ratio: 1:45) RNA-320: αiF12 or an equivalent motor should be used.