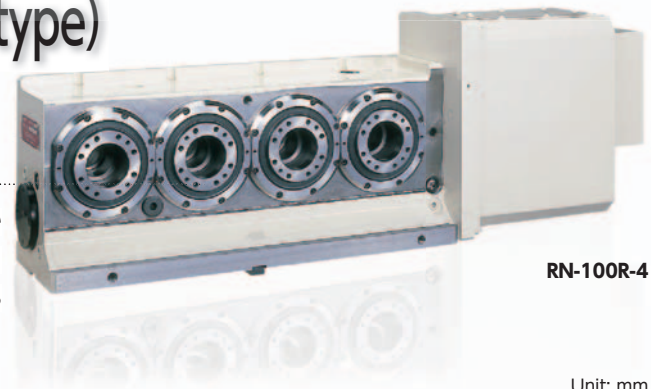


RN-N (multi-spindle type)

RN-100·150·200-2/3/4 (spindles)
RN-250·300-2/3 (spindles)



RN-100R-4

High-productivity model for multi-piece/multi-face machining. The RN-100, the smallest of the RN-series, assures the fastest operation and meets the requirements for drilling and tapping machines.

Specifications

Unit: mm

		RN-100-2/3/4			RN-150-2	RN-200-2	RN-250-2	RN-300-2
Handedness	R	○			○	○	○	○
	L	○			—	—	—	—
Spindle diameter		φ80h7			φ100h7	φ120h7	—	—
Table diameter		φ115 (Option)			φ160 (Option)	φ200 (Option)	φ250	φ320
Center height		135			135	160	160	210
Center bore	Nose diameter	φ50H7 (φ50H7 W/face plate)			φ55H7 (φ50H7 W/face plate)	φ65H7 (φ50H7 W/face plate)	φ75H7	φ110H7
	Through-bore	φ30			φ40	φ45	φ45	φ82
Minimum distance between table centers		120			215	250	300	380
Table T-slot width *1		10H8 (W/face plate)			12H8 (W/face plate)	12H8 (W/face plate)	12H8	14H8
Guide block width		18h7			14h7	18h7	18h7	18h7
Servo motors (for FANUC)		αiF4			αiF4	αiF8	αiF8	αiF12
Number of axis		2-axis	3-axis	4-axis	2-axis	2-axis	2-axis	2-axis
Inertia converted into motor shaft (When spindle pitch is minimum)	$\times 10^{-3} \text{kg} \cdot \text{m}^2$ [$\times 10^{-3} \text{kgf} \cdot \text{cm} \cdot \text{sec}^2$]	0.64 [6.52]	0.92 [9.38]	1.06 [10.8]	0.42 [4.28]	0.55 [5.61]	0.84 [8.56]	2.09 [21.3]
Net weight (When spindle pitch is minimum and with base plate)	kg	70	90	110	120	160	240	480
Speed reduction ratio		1/36	1/36	1/36	1/90	1/90	1/120	1/120
Table max. rpm (Motor rpm: 2,000min ⁻¹)	min ⁻¹	69.4/2,500	69.4/2,500	55.5/2,000	22.2	22.2	16.6	16.6
Clamp system		Pneumatic			Pneumatic	Pneumatic	Pneumatic	Pneumatic
Clamp torque /pneumatic pressure 0.49MPa [5kgf/cm ²]	N·m [kgf·m]	80 [8]			156 [16]	294 [30]	441 [45]	880 [90]
Indexing accuracy (the sum)	sec	60			30	30	30	30
Strength of worm gears	N·m [kgf·m]	178 [18]			147 [15]	264 [27]	470 [48]	764 [78]
Allowable work weight	Vertical setting () : with tailstock	25 (50)			75 (150)	100 (250)	100 (250)	150 (350)
	Horizontal setting	50			150	250	250	350
	F N [kgf]	5,880 [600]			7,840 [800]	13,720 [1,400]	13,720 [1,400]	19,600 [2,000]
Allowable load (when table is clamped)	F × L N·m [kgf·m]	80 *2 [8]			156 [16]	294 [30]	441 [45]	880 [90]
	F × L N·m [kgf·m]	156 [16]			392 [40]	980 [100]	980 [100]	1,960 [200]
Allowable work inertia (per single-axis)	$J = \frac{W \cdot D^2}{8}$ kg·m ² [kgf·cm·sec ²]	0.10 [1.0]			0.48 [4.9]	1.20 [12.3]	1.95 [20.0]	3.70 [38.5]

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

* 1 The tolerance of the table T-slot width is applicable to four standard slots arranged crosswise. ☞ Dimensions **P.60**

* 2 The clamp torque is optionally increased, subject to applications.