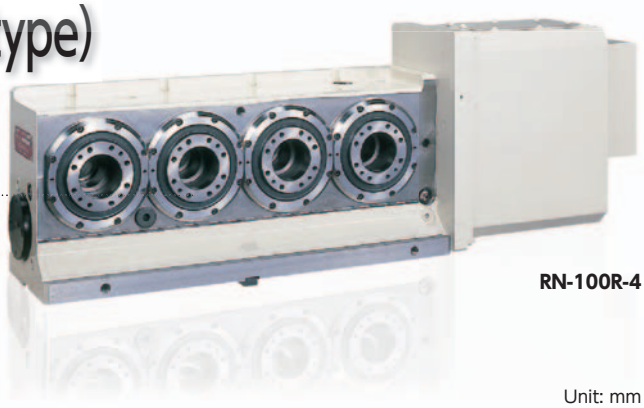
RN-N (multi-spindle type)

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

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.



RN-100R-4

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)	$\times10^{-3}$kg·m² 【$\times10^{-3}$kgf·cm·sec²】	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/cm²】	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	kg	25 (50)			75 (150)	100 (250)	100 (250)	150 (350)
Allowable work weight — Horizontal setting	kg	50			150	250	250	350
Allowable load (when table is clamped) — 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】
Allowable load (when table is clamped) — 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·m² 【kgf·cm·sec²】	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

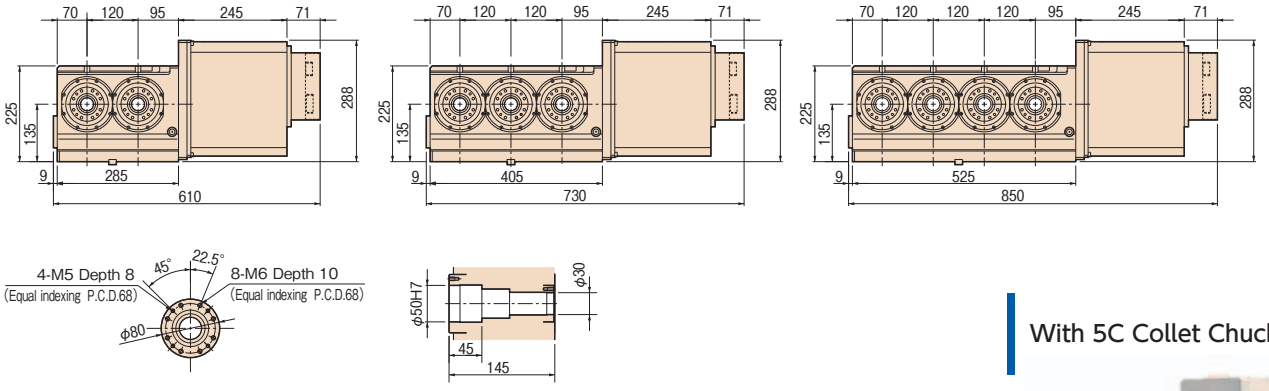
＊1 The tolerance of the table T-slot width is applicable to four standard slots arranged crosswise. ☞ Dimensions P.60

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

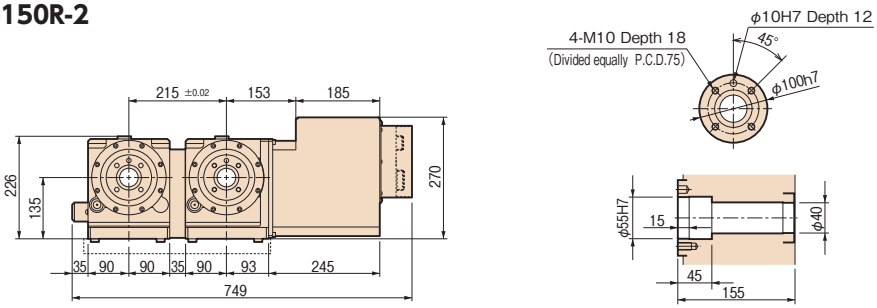
Dimensions

Unit: mm

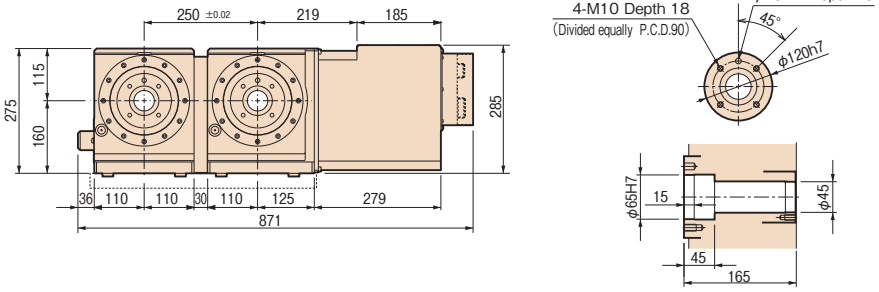
RN-100R-2/3/4



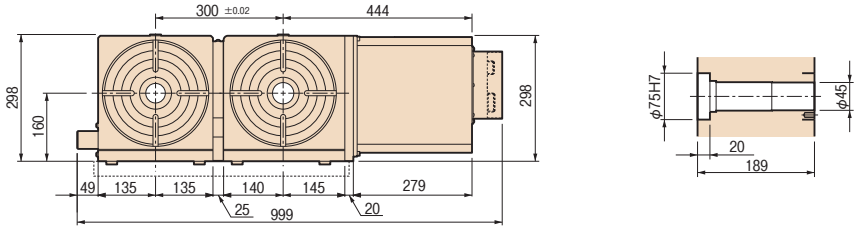
RN-150R-2



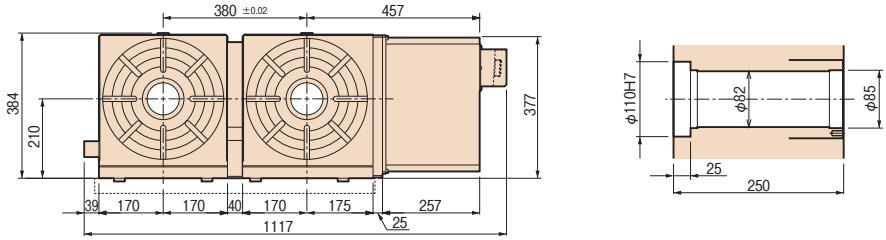
RN-200R-2



RN-250R-2



RN-300R-2



Note: The above dimensions are for FANUC servo motors. The dimensions of servo motors of other manufacturers may be larger.

With 5C Collet Chuck



RN-100R-3

With Rotary Joint

P.63



RN-150R-4