

Big bore type

RCB RCB-350•450•550

Main spindle with highly rigid bearings and table with high overall rigidity enable machining of hard materials such as aircraft components. Machining at a position closer to the face plate is made possible by inserting the workpiece through the large bore.



Unit: mm

Specifications

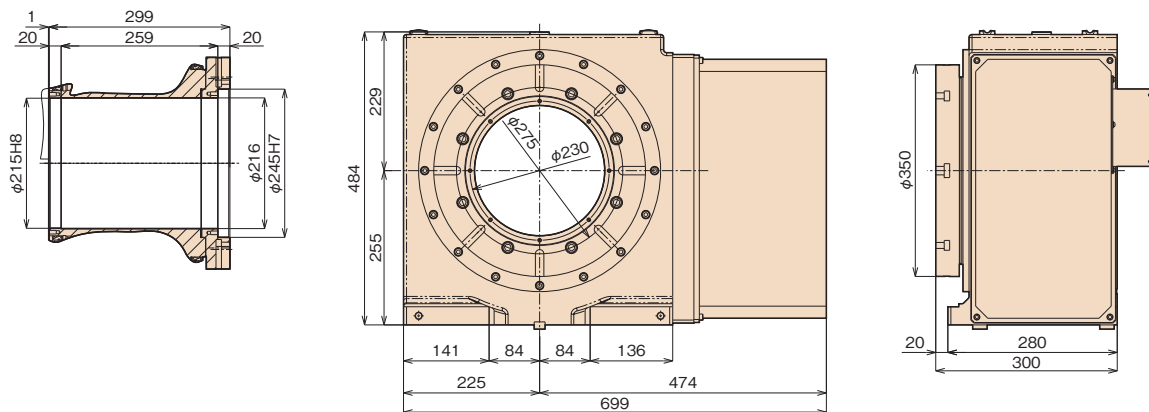
		RCB-350	RCB-450	RCB-550
Handedness	R	○	○	○
	L	—	—	—
	K	○	○	○
Table diameter		φ 350	φ 450	φ 550
Center height		255	310	350
Center bore	Nose diameter	φ 245H7	φ 295H7	φ 345H7
	Through-bore	φ 216	φ 265	φ 315
Table T-slot width		14H7	14H7	18H7
Guide block width		18h7	18h7	18h7
Servo motors (for FANUC)		α iF12	α iF22	α iF22
Inertia converted into motor shaft $\times 10^{-3} \text{kg} \cdot \text{m}^2$		3.48	6.14	5.84
Net weight kg		330	520	720
Speed reduction ratio		1/90	1/90	1/120
Table max. rpm min^{-1} (Motor rpm: 2,000 min^{-1})		22.2	22.2	16.6
Indexing accuracy (the sum) arcsec		15	15	15
Clamp system		Hydraulic or air-hydraulic (option)	Hydraulic or air-hydraulic (option)	Hydraulic or air-hydraulic (option)
Clamp torque /hydraulic pressure 3.5MPa N·m		3,300	4,700	6,500
Allowable work weight	Vertical setting () : with tailstock	400 (800)	700 (1,400)	1,000 (2,000)
	F	50,000	85,000	150,000
Allowable load (when table is clamped)	F × L	3,300	4,700	6,500
	F × L	3,600	7,300	15,000
Allowable work inertia $J = \frac{W \cdot D^2}{8}$		6.1	17.7	37.8

- Tech.Info.** Servo motors of other manufacturers **P.70** When assembling a faceplate or a fixture with the main spindle **P.81**
- Option** Air-hydraulic Booster **P.69**

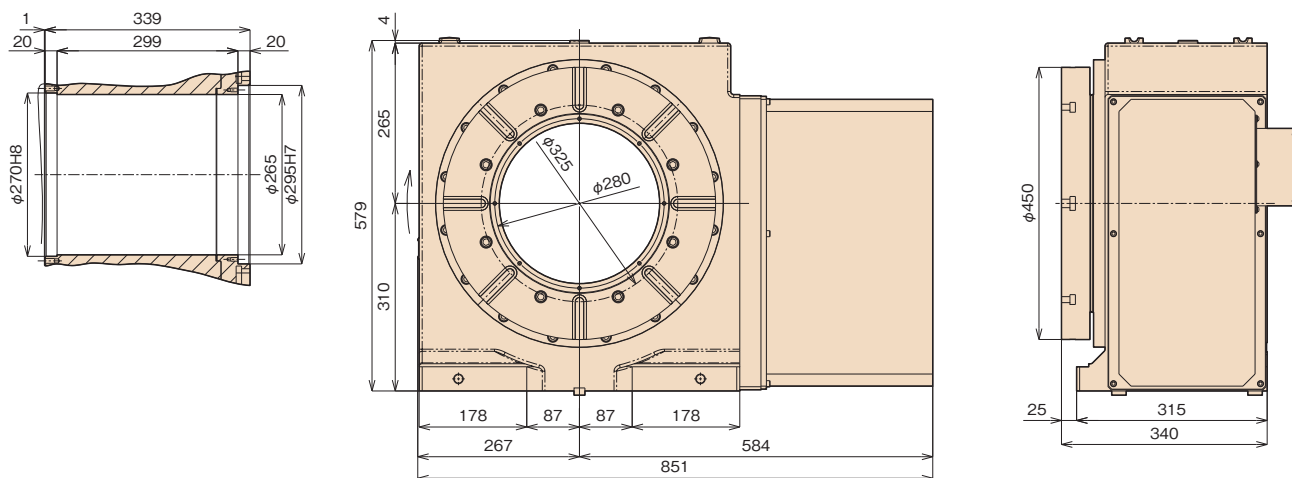
Dimensions

Unit: mm

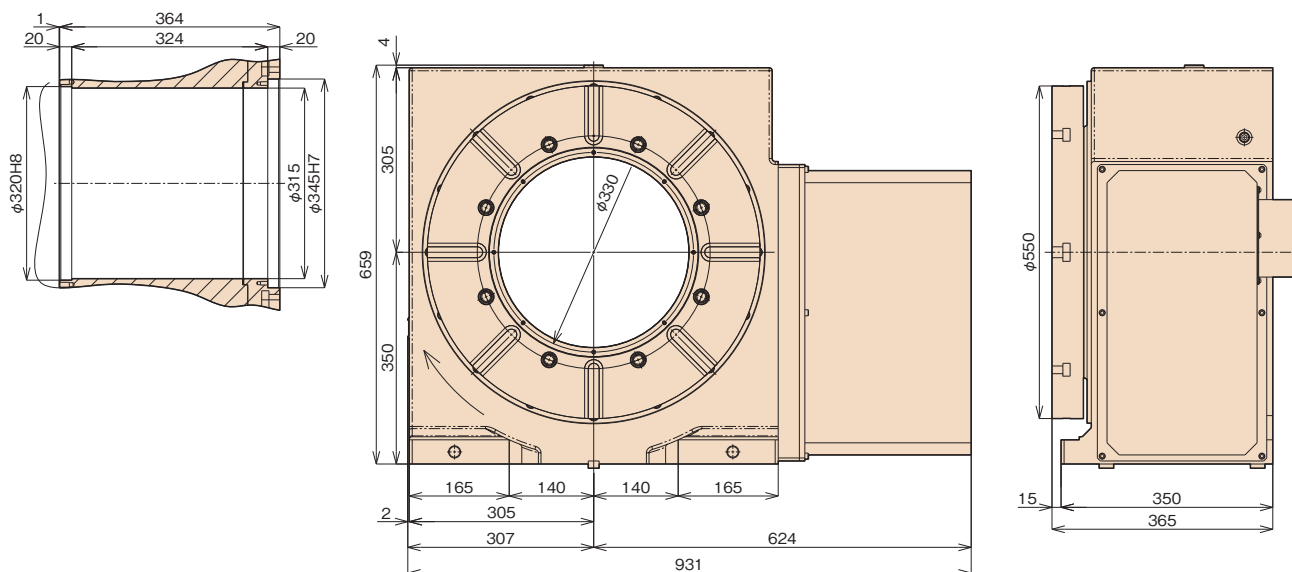
RCB-350R



RCB-450R



RCB-550R



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

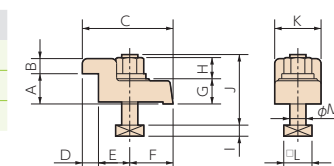
Clamping block and bolt

Unit: mm

Type I

	Type	Q'ty	T-slot pitch	T-slot width	A	B	C	D	E	F	G	H	I	J	K	L	M
RCB-350	I	4	107 to 197	18	30	15	90	16	31	43	25	21	11	70	46	28	16
RCB-450	I	4	113 to 242	18	40	20	110	18	42	50	25	21	11	70	46	28	16
RCB-550	I	4	163 to 282	18	40	20	110	18	42	50	25	21	11	70	46	28	16

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 TSUDAKOMA. (Option)



RBS
RBH
RBM
TBS
RWE/RWA
RN
RWH
RWA-B
RWB
RWB-K
RCB
RCH
RCV
Multi-Spindle
RWM
TWA/TN
TWS
TWB
Multi-Spindle
TWM
RDS
TDS
TDB
NC Controllers
Accessories
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Technical Information