

Standard type – Hydraulic –

RBH RBH-160•250•320

TSUDAKOMA BallDrive NC rotary table with new hydraulic clamp specification.

Selection can be made according to the fluid in the operating environment.

Increase machining efficiency and productivity of various workpieces.



Unit: mm

仕 様

		RBH-160	RBH-250	RBH-320
Handedness	R	○	○	○
	L	○	○	○
Spindle diameter		φ 100	φ 140	φ 180
Table diameter		φ 160 or φ 200 (Option)	φ 250 (Option)	φ 320 (Option)
Center height		160	210	255
Center bore	Nose diameter	φ 55H7×45	φ 80H7×45	φ 115H7×45
	Through-bore	φ 40	φ 50	φ 85
Table T-slot width		12H8	12H8	14H8
Guide block width		14 h 7	18 h 7	18 h 7
Servo motors (for FANUC)		α iS4	α iS8	α iS12
Inertia converted into motor shaft	× 10 ⁻³ kg·m ²	0.19	0.42	2.24
Net weight	kg	60	110	210
Speed reduction ratio		1/36	1/36	1/36
Table max. rpm	min ⁻¹ (Motor rpm: 3,000min ⁻¹)	83.3	83.3	83.3
Indexing accuracy (the sum)	秒	15	15	15
Clamp system		Hydraulic	Hydraulic	Hydraulic
Clamp torque / Hydraulic pressure 3.5Mpa	N·m	500	1,000	1,500
Allowable work weight	Vertical setting () : with tailstock kg	100 (200)	125 (250)	175 (350)
	Horizontal setting kg	200	250	350
	F N	10,800	14,400	24,800
Allowable load (when table is clamped)	F×L N·m	500	1,000	1,500
	F×L N·m	780	1,900	4,700
Allowable work inertia	$J = \frac{W \cdot D^2}{8}$ kg·m ²	0.64	1.95	4.48

CE correspondence model

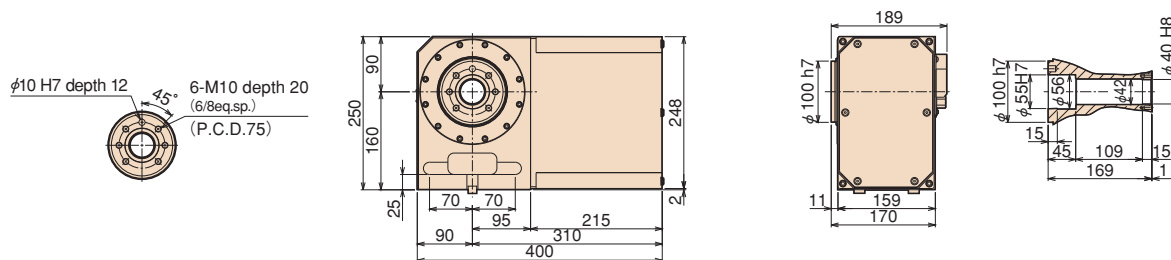
Tech.Info. Servo motors of other manufacturers **P.68** When assembling a faceplate or a fixture with the main spindle **P.79**

Option High-precision Spec. **P.64** Rotary Joint **P.66**

Dimensions

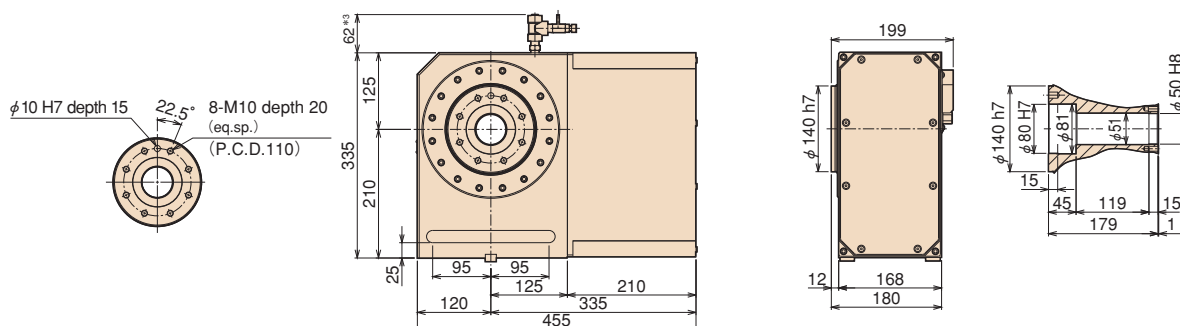
Unit:mm

RBH-160R



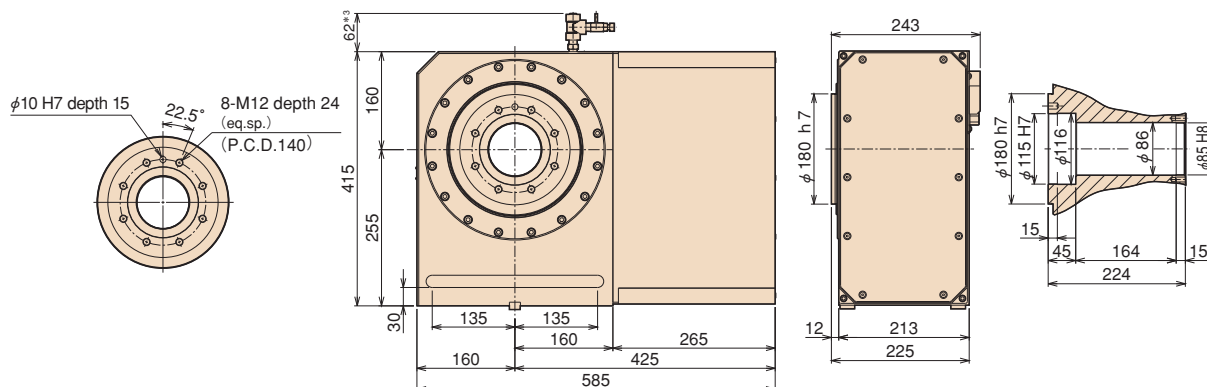
•Size 160 is for vertical setting only.

RBH-250R



* 3 Hydraulic feed port and bleed plug are attached to the top of the frame for horizontal setting only.
•Size 250 can be used either horizontally or vertically. It cannot be used both horizontally and vertically.

RBH-320R



* 3 Hydraulic feed port and bleed plug are attached to the top of the frame for horizontal setting only.
•Size 320 can be used either horizontally or vertically. It cannot be used both horizontally and vertically.

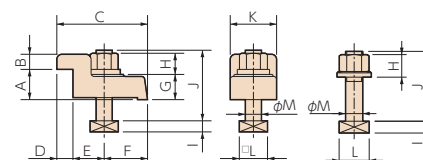
Note: The above dimensions are for FANUC servo motors. The dimensions of servo motors of other manufacturers may be larger.

Clamping block and bolt

	Q'ty	T-slot pitch	T-slot width	A	B	C	D	E	F	G	H	I	J	K	L	M
RBH-160	2	—	14	—	—	—	—	—	—	—	17	8	60	—	23	12
RBH-250	4	40 to 120	18	25	12	80	12	33	35	22	21	11	65	40	28	16
RBH-320	4	55 to 147	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 TSUDAKOMA. (Option)
Note 2: Clamping blocks are not included with the RBH-160.

Type I



RBS

RBH

Multi-Spindle
RBM

TBS

RWE/RWA
RN

RWH

RWA-B
RNCV-B

RWB

RWB-K
RNCK

RCB

RCH
RNC

RCV

Multi-Spindle
RWM

TWA/TN

TWB
TTNC

Multi-Spindle
TWM

RDS

RTV
RTT

TDS
TDB

NC Controllers

Accessories

Options

Technical
Information