

Standard type

RBS RBS-160•250•320

We provide you the top productivity and high-grade machining with no backlash and high indexing speed, two times faster than previous model.



Unit: mm

Specifications

		RBS-160,H	RBS-250,H	RBS-320,H
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)	arcsec	15	15	15
Clamp system		Pneumatic	Pneumatic	Pneumatic
Clamp torque / pneumatic pressure 0.49MPa	N·m	500	1,000	1,500
Allowable work weight	Vertical setting () : with tailstock	100 (200)	125 (250)	175 (350)
	Horizontal setting	200	250	350
Allowable load (when table is clamped)	F	10,800	14,400	24,800
	F×L	500	1,000	1,500
	F×L	780	1,900	4,700
Allowable work inertia	$J = \frac{W \cdot D^2}{8}$	0.64	1.95	4.48

CE correspondence model

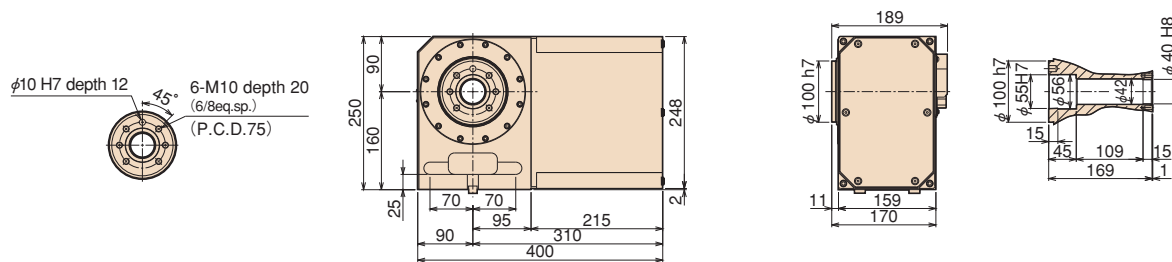
Tech.Info. Servo motors of other manufacturers **P.70** When assembling a faceplate or a fixture with the main spindle **P.81**

Option High-precision Spec. **P.66** Rotary Joint **P.68**

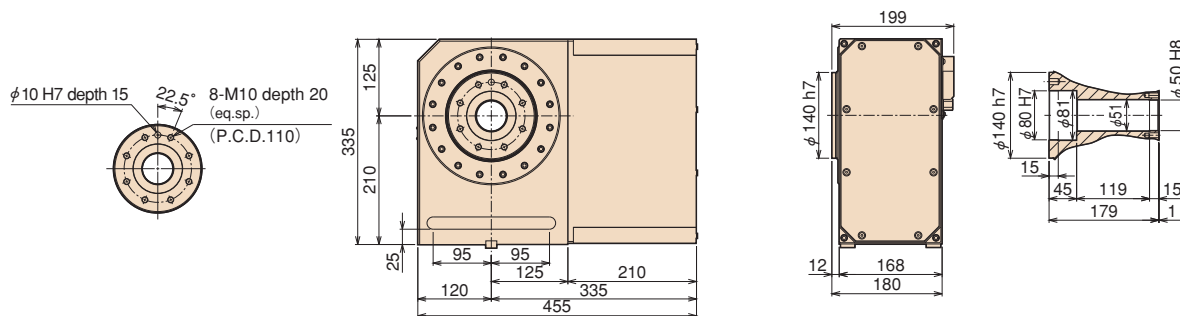
Dimensions

Unit:mm

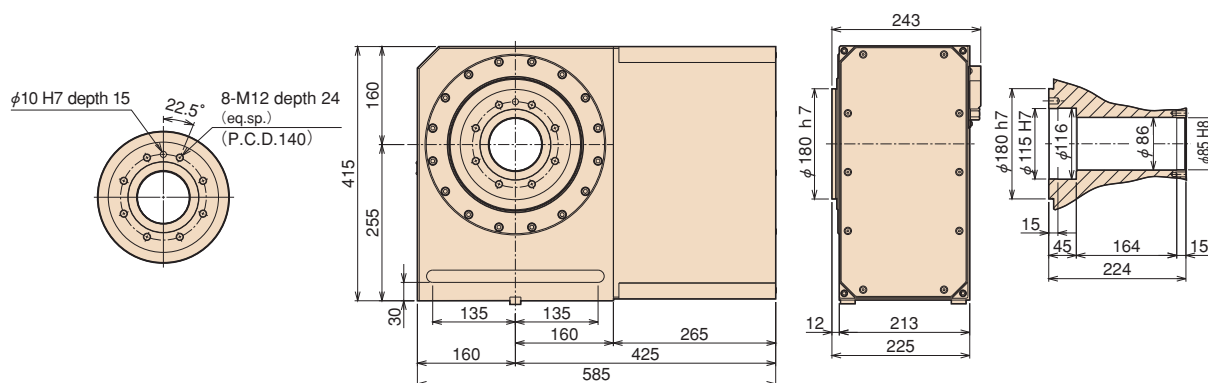
RBS-160R



RBS-250R



RBS-320R



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

Clamping block and bolt

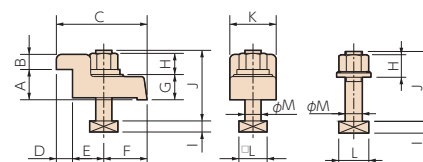
Unit: mm

	Q'ty	T-slot pitch	T-slot width	A	B	C	D	E	F	G	H	I	J	K	L	M
RBS-160	2	—	14	—	—	—	—	—	—	—	17	8	60	—	23	12
RBS-250	4	40 to 120	18	25	12	80	12	33	35	22	21	11	65	40	28	16
RBS-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 RBS-160.

Type I



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

Options

**Technical
Information**