

RBA-250K, 320K, 400K, 500K

HORIZONTAL MACHINING CENTER ROTARY TABLES





The RBA,K-Series rotary tables are designed for use on horizontal machining centers. RBA,K tables utilize a powerful Dual Disc hydraulic clamping mechanism, and are available with a built-in air/hydraulic booster. RBA,K Series worm wheels are manufactured as an assembly consisting of the worm wheel, cross roller bearing, and the main spindle, resulting in unsurpassed accuracy.



RBA-500K

Dimensions = mm

Specifications

Table Model	RBA-250K	RBA-250K,S	RBA-320K	RBA-320K,S	RBA-400K	RBA-500K	
Table diameter	250	250	320	320	400	500	
Center height	160	160	210	210	255	310	
Center bore	Nose Diameter	95H7	95H7	130H7	130H7	190H7	220H7
	Thru Diameter	71	71	101	101	151	182
Table T-slot width	12H7	12H7	14H7	14H7	14H7	18H7	
Guide block width	18h7						
Servo motor (Fanuc)*	Alpha 8i	Alpha 8is	Alpha 12i	Alpha 22is	Alpha 12i	Alpha 12i	
Maximum motor speed rpm	3,000	4,000	3,000	4,000	3,000	3,000	
Speed reduction ratio	1/90	1/45	1/90	1/45	1/90	1/180	
Maximum table speed rpm	33.3	88.9	33.3	88.9	33.3	16.7	
Inertia converted into motor shaft x 10 ⁻³ kg·m ²	.94	1.0	3.04	3.47	4.28	3.00	
Clamp system**	Hydraulic						
Clamp torque @500psi Nm (ft. lbs.)	1,000 (737)	1,000 (737)	2,450 (1,806)	2,450 (1,806)	4,200 (3,095)	6,100 (4,496)	
Indexing accuracy arc sec.	±7						
Repeatability arc sec.	±2						
Net Weight kg (lbs.)	105 (231)	105 (231)	185 (407)	185 (407)	300 (660)	550 (1,210)	
Allowable wheel torque Nm (ft. lbs.)	581 (428)	581 (428)	939 (692)	939 (692)	1,666 (1,228)	3,276 (2,414)	
Allowable work inertia kg·m ²	2.34	2.34	5.12	5.12	9.7	18.2	
Allowable load when table clamped		150 (330) [300 (660)]	150 (330) [300 (660)]	200 (440) [400 (880)]	200 (440) [400 (880)]	250 (550) [500 (1,100)]	250 (550) [600 (1,320)]
		19,600 (4,390)	19,600 (4,390)	29,400 (6,586)	29,400 (6,586)	39,200 (8,781)	49,000 (10,976)
		1,000 (737)	1,000 (737)	2,450 (1,806)	2,450 (1,806)	4,200 (13,095)	6,100 (4,496)
		980 (722)	980 (722)	3,626 (2,672)	3,626 (2,672)	5,880 (4,334)	13,132 (9,678)

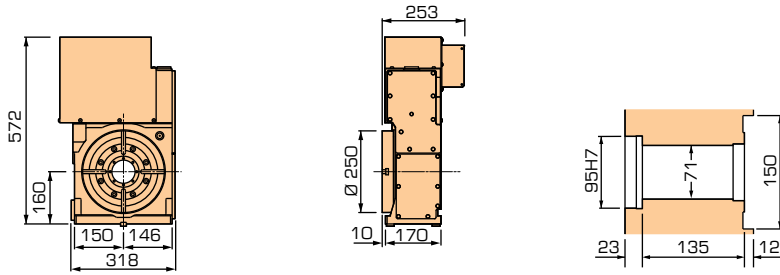
*Other motors & rpm available • Specifications subject to change without notice • **Booster optional

Single Axis Rotary Tables

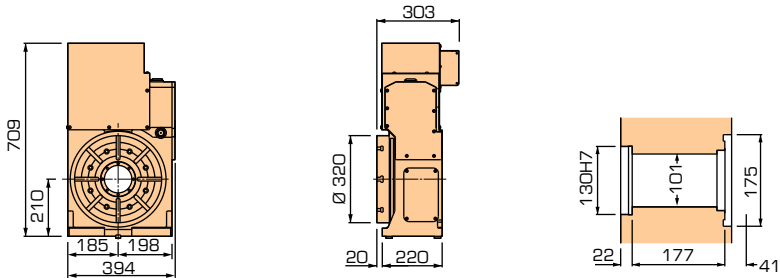
Dimensions

Drawings not to scale • Dimensions = mm

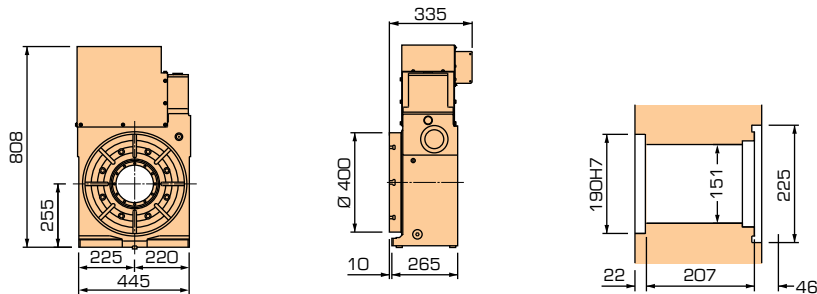
RBA-250K



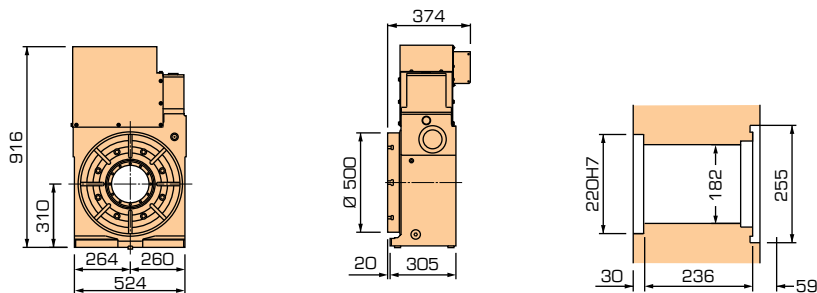
RBA-320K



RBA-400K



RBA-500K



The dimensions above are for tables with a FANUC servo motor. Other motors available (dimensions may increase).

- RBA-400K
Capto Output



- RBA-250K
Custom Swivel Box



- RBA-400K
Custom Swivel Arm
A swivel connector is used to prevent cables from being entangled when the rotary table is mounted on a pallet.



OPTIONS • ACCESSORIES

Table Model	Dual Faceplates (see page 26)	TPC NC Controller	Various Chucks & Collets	Tailstocks Support Spindles	PVC or Steel Braided Cables	Scales	Rotary Joint	Air/Hydraulic Booster
RBA-250K	Yes	TPC3 Series	Yes	Yes	Yes	Yes	Yes	Yes
RBA-320K	Yes	TPC3 Series	Yes	Yes	Yes	Yes	Yes	Yes
RBA-400K	Yes	TPC3 Series	Yes	Yes	Yes	Yes	Yes	Yes
RBA-500K	Yes	TPC3 Series	Yes	Yes	Yes	Yes	Yes	Yes