

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

HEAVY DUTY • DUAL DISC HYDRAULIC CLAMPING

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

Specifications ►

Dimensions = mm

Table Model			RBA-250K	RBA-250K,S	RBA-320K	RBA-320K,S	RBA-400K	RBA-500K	
Table diameter			mm	250	250	320	320	400	500
Center height			mm	160	160	210	210	255	310
Center bore	Nose Diameter	mm	95H7	95H7	130H7	130H7	190H7	220H7	
	Thru Diameter	mm	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	4,000	4,000	4,000	4,000	4,000	4,000
Speed reduction ratio				1/90	1/45	1/90	1/45	1/90	1/180
Maximum table speed			rpm	44.4	88.9	44.4	88.9	44.4	44.4
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 work weight		kg (lbs) [w/ tailstock]	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)]	
		N (lbf)	19,600 (4,390)	19,600 (4,390)	29,400 (6,586)	29,400 (6,586)	39,200 (8,781)	49,000 (10,976)	
		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)	
		Nm (ft. lbs.)	980 (722)	980 (722)	3,626 (2,672)	3,626 (2,672)	5,880 (4,334)	13,132 (9,678)	

* Other motors & RPM available

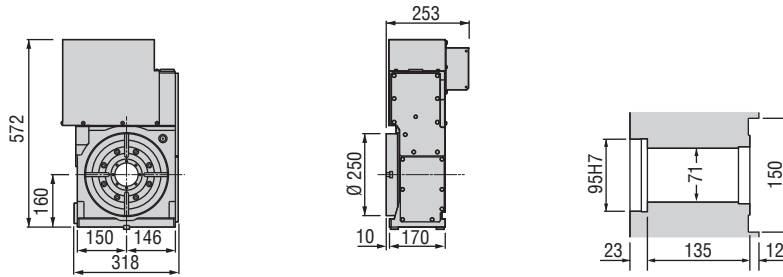
** Booster optional

Specifications subject to change without notice

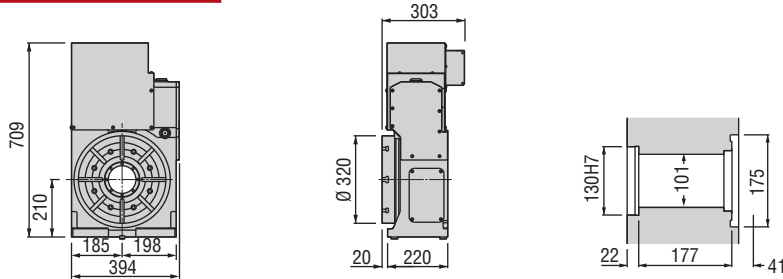
Dimensions ▶

Drawings not to scale • Dimensions = mm

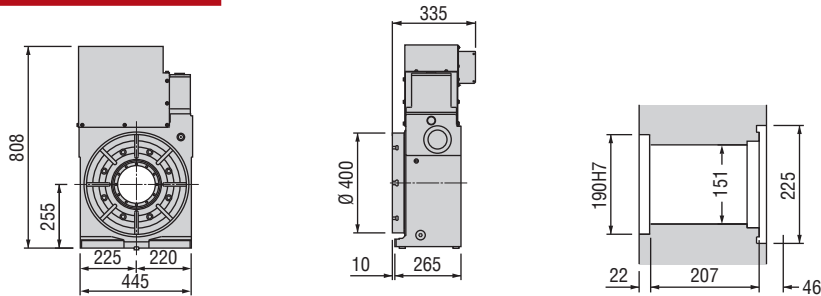
RBA-250K



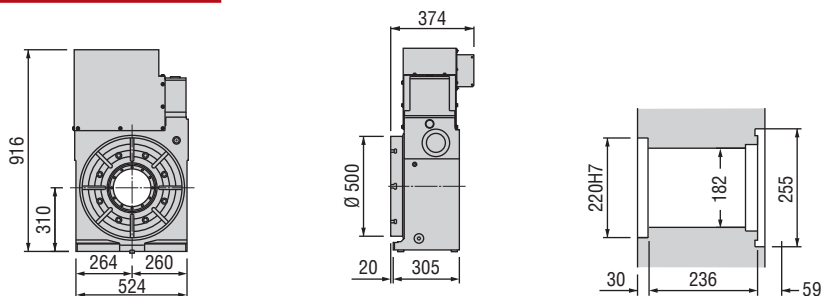
RBA-320K



RBA-400K



RBA-500K



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

- RBA-400K with capto output



- 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

TPC NC Controller	p.68
Chucks	p.79
Tailstock	p.81
Support Spindle	p.81
Face Plate	p.83
Encoder / Scale	p.84
Pull Stud Device	p.85
Rotary Joint	p.85
PVC or Steel Cables	p.86

Clamping Block and Bolt ▶

Dimensions = mm

	Type	Q'ty	T-Slot Width	A	B	C	D	E	F	G	H	I	J	K	L	M
RBA-250K	I	4	18	25	12	80	12	33	35	22	21	11	65	40	28	16
RBA-320K	I	4	18	30	15	90	16	31	43	25	21	11	70	46	28	16
RBA-400K	I	4	18	30	15	90	16	31	43	25	21	11	70	46	28	16
RBA-500K	I	4	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 KOMA (opt.)

Type I

