

**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	130H7	130H7	190H7	220H7
	Thru Diameter	mm	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 12is	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 <sup>-3</sup> kg·m <sup>2</sup>	.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 <sup>2</sup>	2.34	2.34	5.12	5.12	9.7	18.2
Allowable load when table clamped	 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

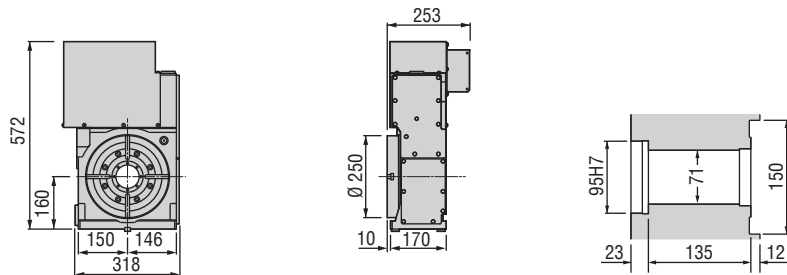
\*\* Booster optional

Specifications subject to change without notice

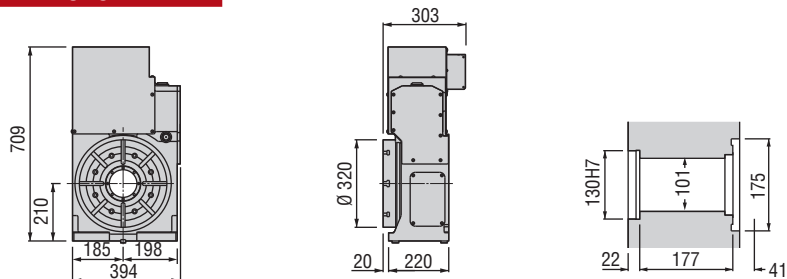
## Dimensions ▶

Drawings not to scale • Dimensions = mm

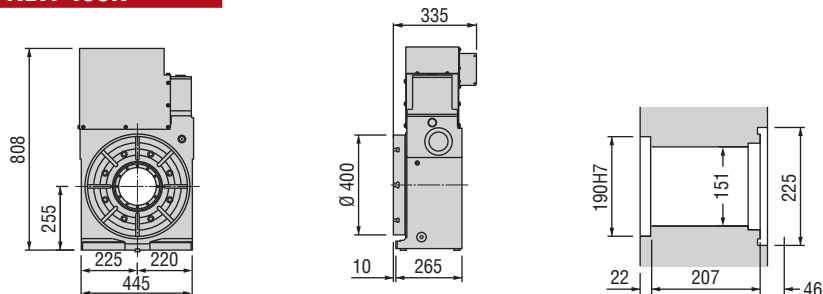
### RBA-250K



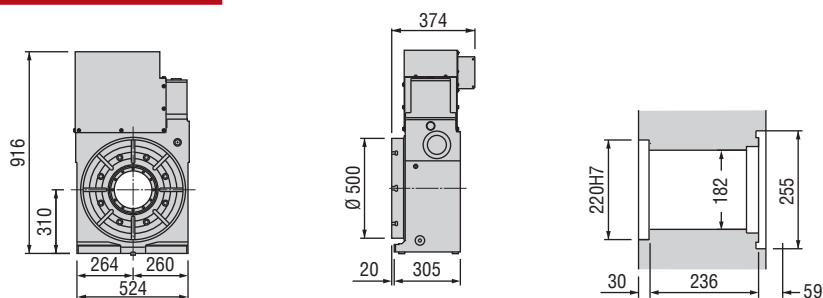
### RBA-320K



### 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.66
Chucks	p.77
Tailstock	p.79
Support Spindle	p.79
Encoder / Scale	p.82
Pull Stud Device	p.83
Rotary Joint	p.83
Air/Hydraulic Booster	p.84
PVC or Steel Cables	p.84

## 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

