



BALL DRIVE SYSTEM

HIGH SPEED

Index speeds up to 138.9 RPM

ZERO BACKLASH

High accuracy machining with no reversal error

HIGH ACCURACY

Increased accuracy and repeatability specifications.

ZERO MAINTENANCE

Lifetime adjustment-free Ball Drive System

HIGH RIGIDITY

Increase clamp and holding torque.

TORQUE TRANSFER EFFICIENCY

40% more drive torque



KOMA PRECISION



BALL DRIVE TABLES



RBS-250R



RBS-250K

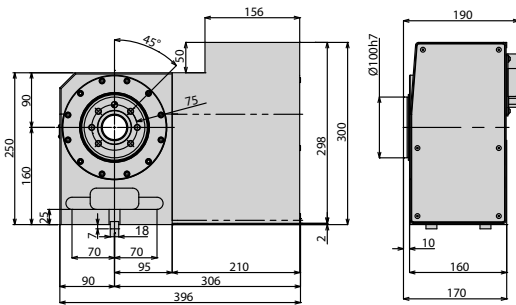


TBS-130

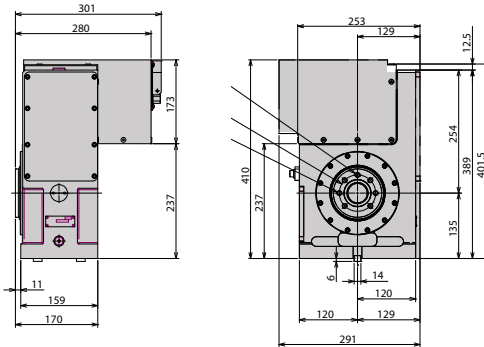
ROTARY TABLE DIMENSIONS



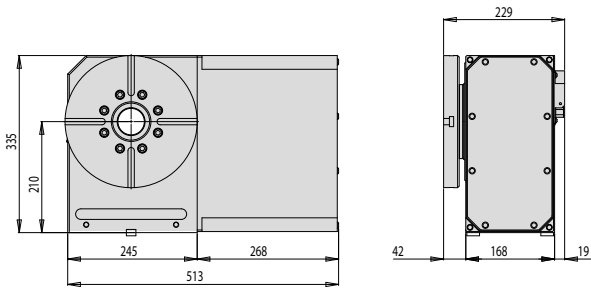
RBS-160



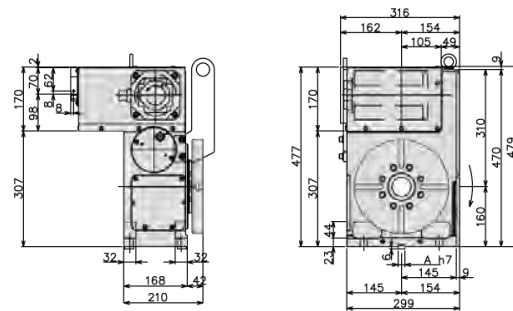
RBS-160K



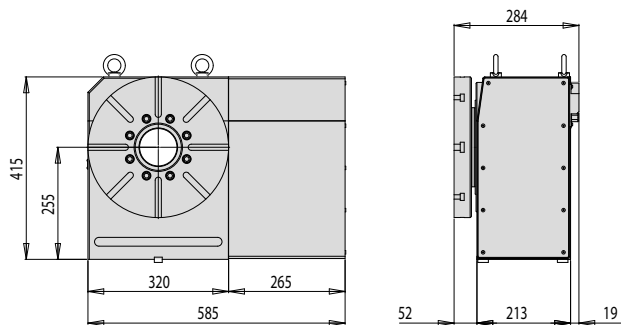
RBS-250



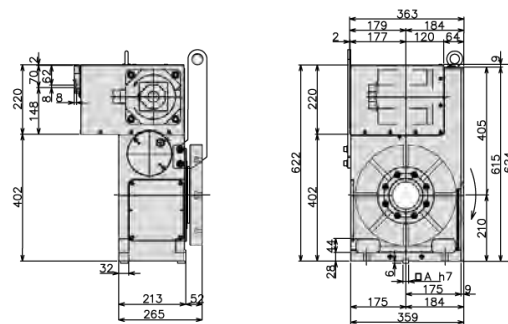
RBS-250K



RBS-320



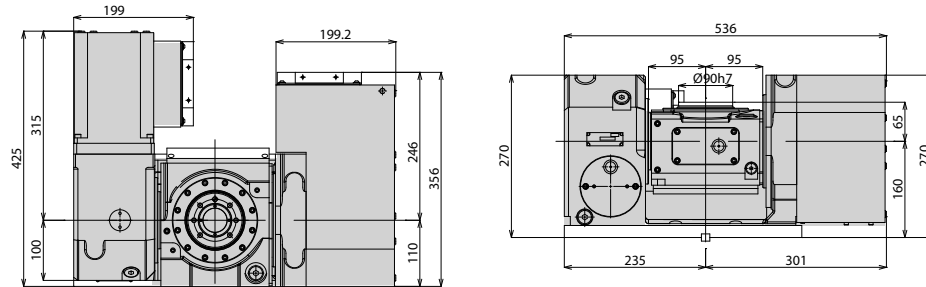
RBS-320K



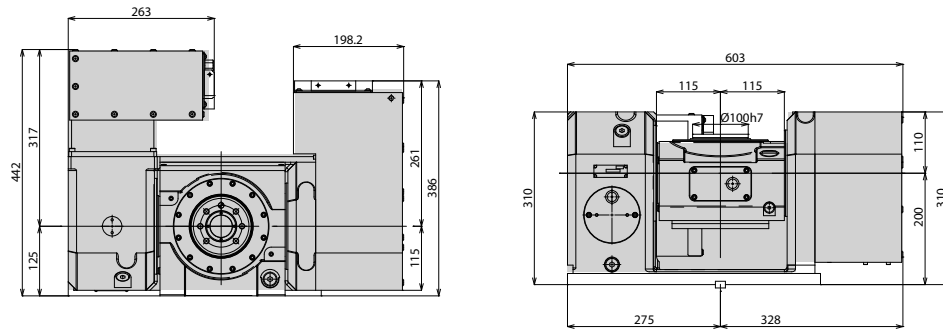


ROTARY TABLE DIMENSIONS

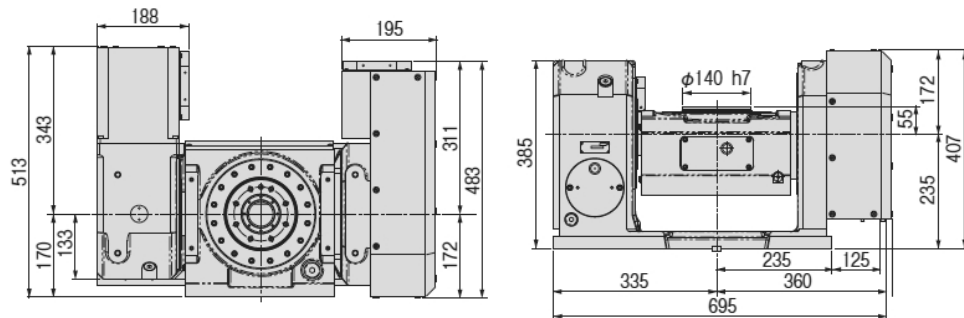
TBS-130



TBS-160



TBS-250



ROTARY TABLE SPECIFICATIONS



Table Model		RBS-160	RBS-250	RBS-320
Versions available		R/L	R/L	R
Spindle outer diameter	mm	100h7	140h7	180h7
Table diameter	mm	(160, 200)	250	320
Center height	mm	160	210	255
Center bore Nose Diameter		55H7	80H7	115H7
Center bore Thru Diameter		40	50	85
Table T-slot width		12H8	12H8	14H8
Guide block width		14h7	18h7	18h7
Servo motor (Fanuc)*		Alpha 4i	Alpha 8i	Alpha 12i
Maximum motor speed	rpm	5,000	4,000	4,000
Speed reduction ratio		1/36	1/36	1/36
Maximum table speed	rpm	138.9	111.1	111.1
Inertia converted into motor shaft $\times 10^{-3}\text{kg}\cdot\text{m}^2$		0.19	0.42	2.24
Clamp system**		Pneumatic		
Hold torque @72psi	Nm (ft. lbs.)	700 (550)	1,480 (1,076)	2,580 (1,901)
Indexing accuracy	arc sec.	± 7.5	± 7.5	± 7.5
Repeatability	arc sec.	± 2	± 2	± 2
Net Weight	kg (lbs.)	55 (121.2)	100 (220)	200 (440)
Allowable work inertia	kg·m ²	0.48	1.95	4.48
Allowable work weight	 kg (lbs) [w/ tailstock]	100 (200) [200 (440)]	125 (275) [250 (550)]	175 (385) [350 (770)]
	 kg (lbs)	200 (440)	250 (550)	350 (770)
Allowable load when table clamped	 N (lbf)	10,800 (2,419)	14,400 (3,226)	24,800 (5,555)
	 Nm (ft. lbs.)	500 (369)	1,000 (737)	1,500 (1,106)
	 Nm (ft. lbs.)	780 (575)	1,900 (1,400)	4,700 (3,464)

*Other motors & rpm available

• Dimensions = mm

Specifications subject to change without notice



ROTARY TABLE SPECIFICATIONS

Table Model		RBS-160K	RBS-250K	RBS-320K
Versions available		K	K	K
Spindle outer diameter	mm	100h7	140h7	180h7
Table diameter	mm	(160, 200)	250	320
Center height	mm	135	160	255
Center bore Nose Diameter		55H7	80H7	115H7
Center bore Thru Diameter		40	50	85
Guide block width		14h7	18h7	18h7
Servo motor (Fanuc)*		Alpha 4i	Alpha 8i	Alpha 12i
Maximum motor speed	rpm	5,000	4,000	4,000
Speed reduction ratio		1/36	1/36	1/36
Maximum table speed	rpm	138.9	111.1	111.1
Inertia converted into motor shaft x 10 ⁻³ kg·m ²		0.19	0.42	2.24
Clamp system**		Pneumatic		
Hold torque @72psi	Nm (ft. lbs.)	700 (516)	1,480 (1,076)	2,580 (1,901)
Indexing accuracy	arc sec.	±7.5	±7.5	±7.5
Net Weight	kg (lbs.)	75 (165)	100 (220)	200 (440)
Allowable work inertia		0.48	1.95	4.48
Allowable work weight	 kg (lbs) [w/ tailstock]	100 (200) [200 (440)]	125 (275) [250 (550)]	175 (385) [350 (770)]
	 kg (lbs)	-	250 (550)	350 (770)

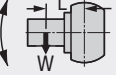
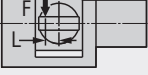
*Other motors & rpm available

• Dimensions = mm

Specifications subject to change without notice

ROTARY TABLE SPECIFICATIONS



Table Model		TBS-130		TBS-160		TBS-250	
Tilt Range		-30° ~ +110°		-30° ~ +110°		-30° ~ +110°	
Spindle outer diameter		90h7		100h7		140h7	
Table diameter (optional)		(135)		(160 or 200)		(250)	
Table height at 0° position		225 (250 w/faceplate)		270 (300 w/faceplate)		290 (320 w/faceplate)	
Center height at 90° position		160		200		235	
Center bore Nose Diameter		55H7 (40H7)		55H7 (50H7)		80H7 (75H7)	
Center bore Thru Diameter		40		40		50	
Servo motor (Fanuc)*		Rotary	Tilt	Rotary	Tilt	Rotary	Tilt
		Alpha 2i	Alpha 2i	Alpha 2i	Alpha 4i	Alpha 8i	Alpha 8i
Maximum motor speed	rpm	5,000	5,000	5,000	5,000	4,000	4,000
Speed reduction ratio		1/48	1/60	1/60	1/60	1/45	1/60
Maximum table speed	rpm	104.2	83.3	83.3	83.3	88.9	66.7
Inertia converted into motor shaft	$\times 10^{-3} \text{kg} \cdot \text{m}^2$	.074	.072	.17	.18	.465	.465
Clamp system		Pneumatic					
Clamp torque @72psi	Nm (ft. lbs.)	700 (516)	700 (516)	700 (516)	700 (516)	1,000 (737)	1,000 (737)
Indexing accuracy	arc sec.	±10	-	±10	-	±10	-
Tilting accuracy	arc sec.	-	±17.5	-	±17.5	-	±20
Net Weight	kg (lbs.)	125 (276)		160 (353)		280 (617)	
Allowable wheel torque - rotary	Nm (ft. lbs.)	-		-		-	
Allowable work inertia	kg·m ²	.08		.19		1.05	
Allowable work weight	0° tilt angle  kg (lbs)	35 (77)		60 (132)		135 (298)	
	0° ~ 90° tilt angle  kg (lbs)	20 (44)		40 (88)		85 (187)	
Allowable work movement	 Nm (ft. lbs.)	61.1		59.6		186.7 (137)	
Allowable load when table clamped	 N (lbf)	3,920 (878)		10,800		14,400 (64,054)	
	 Nm (ft. lbs.)	700 (516)		700 (516)		1,000 (737)	
	 Nm (ft. lbs.)	700 (516)		700 (516)		1,000 (737)	

*Other motors & rpm available

• Dimensions = mm

Specifications subject to change without notice



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