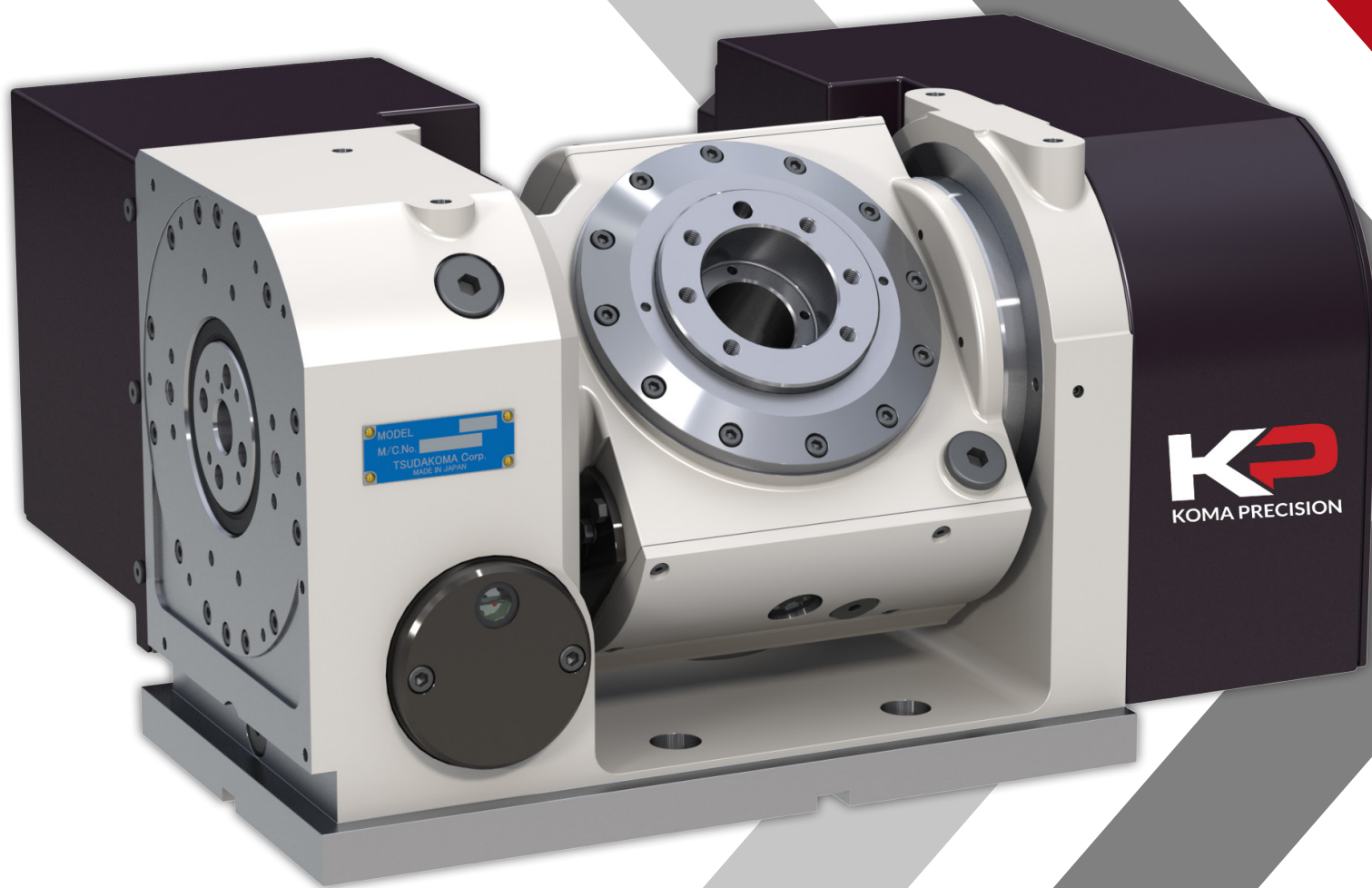




TSUDAKOMA

Rotary Table

Selection Guide

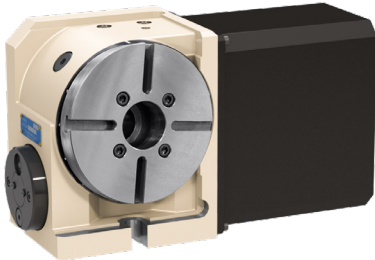
KOMA PRECISION

For over thirty-five years Koma Precision has been the foremost source for the finest the world has to offer in machine tool Productivity Innovation.

With over 30,000 rotary table installations, Koma is the largest distributor of Tsudakoma NC rotary tables and indexers in the world. With over 12,000 angle heads and live tools installed, Koma is the world's largest supplier for Alberti - the originator and the foremost innovator of productivity tooling.



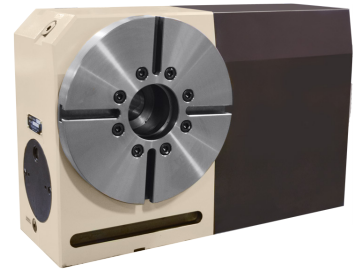
ROTARY TABLES



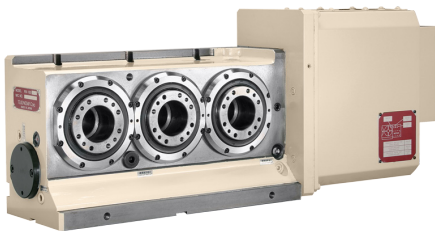
RWE SERIES



RWA SERIES



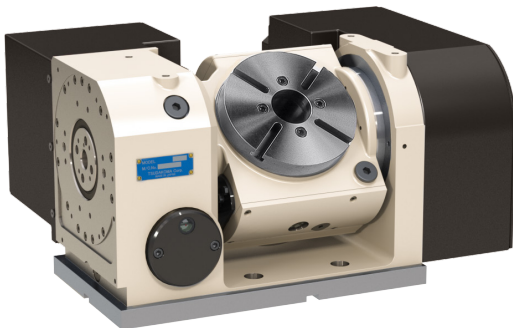
RBS SERIES



RN-MULTI SERIES



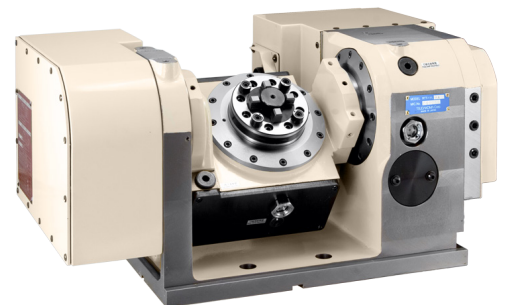
RWB SERIES



TWA SERIES



TBS SERIES



5TH AXIS TILTING
RTT-111, CA



MV-800H				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	
RBS SERIES	RBS-160	RBS-250		
RN MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4	
TWA SERIES	TWA-130	TWA-160		
TBS SERIES	TBS-130	TBS-160		
5 th AXIS TILTING	RTT-111, CA			



MV-1000H				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250	RBS-320	
RN MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4	
TWA SERIES	TWA-130	TWA-160	TWA -200	
TBS SERIES	TBS-130	TBS-160		
5 th AXIS TILTING	RTT-111, CA			



MV-1100H/B

RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250	RBS-320	
RN MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4	
TWA SERIES	TWA-130	TWA-160	TWA -200	
TBS SERIES	TBS-130	TBS-160		
5th AXIS TILTING	RTT-111, CA			

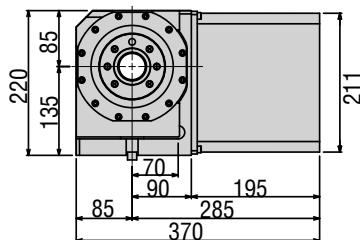


MV-1600H

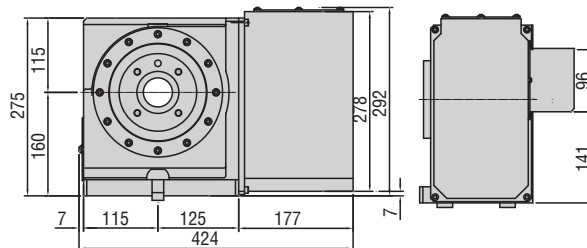
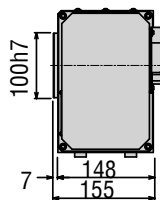
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250	RBS-320	
RWB SERIES	RWB-250	RWB-320		
RN MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4	
TWA SERIES	TWA-130	TWA-160	TWA-200	TN-320
TBS SERIES	TBS-130	TBS-160	TBS-250	
5th AXIS TILTING	RTT-111, CA			

RWE & RWA Series

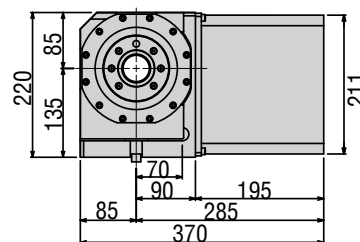
(Drawings Not To Scale)



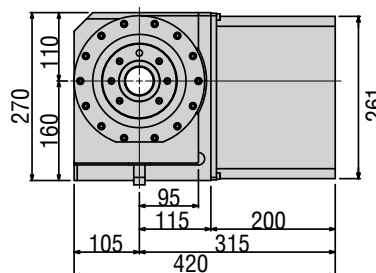
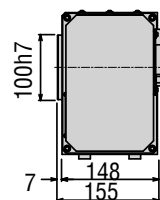
RWE-160



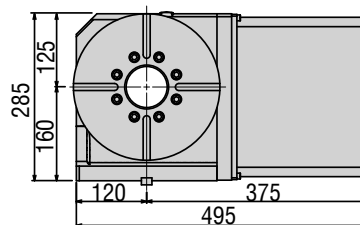
RWE-200



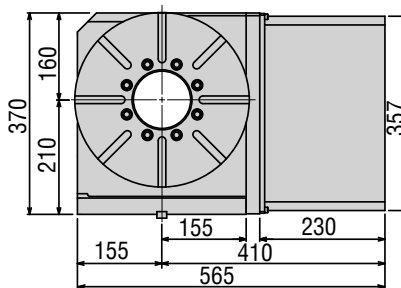
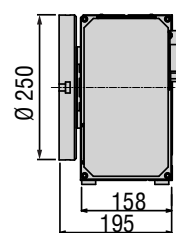
RWA-160



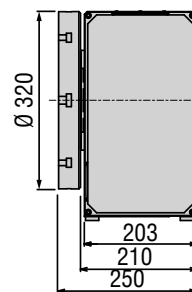
RWA-200



RWA-250



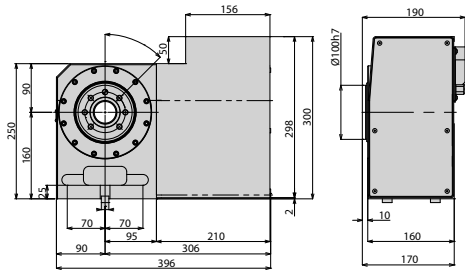
RWA-320



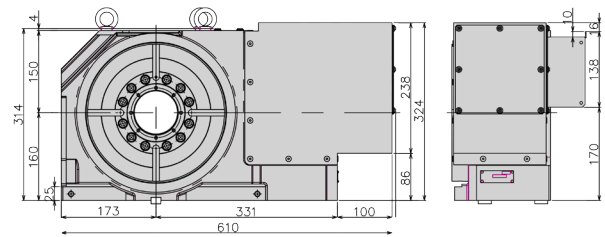
ROTARY TABLE DIMENSIONS



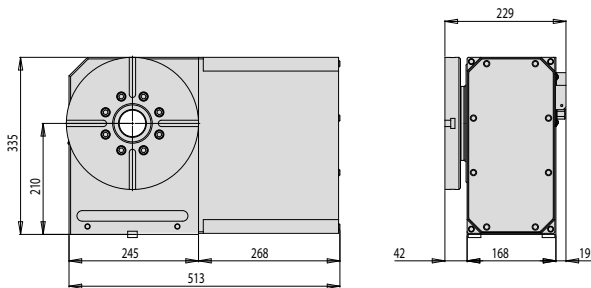
RBS, & RWB Series (Drawings Not To Scale)



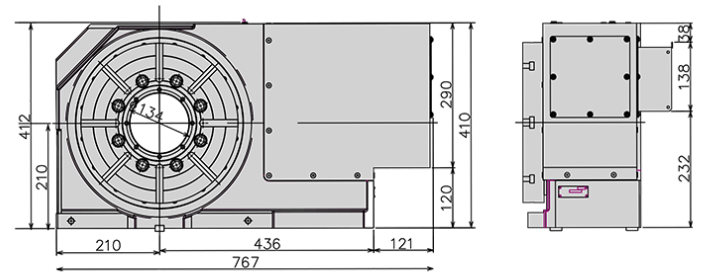
RBS-160



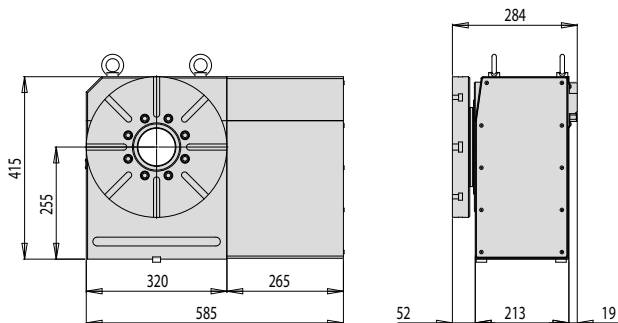
RWB-250R



RBS-250



RWB-320R

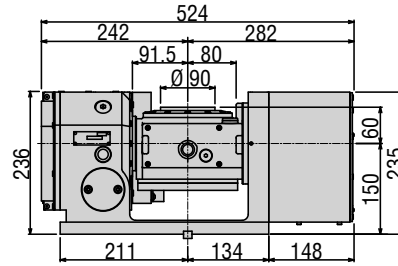
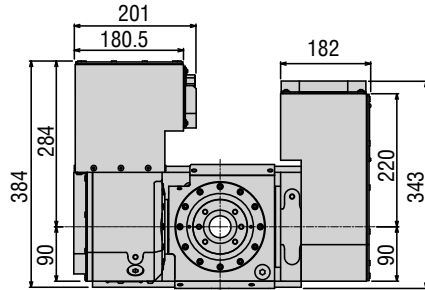


RBS-320

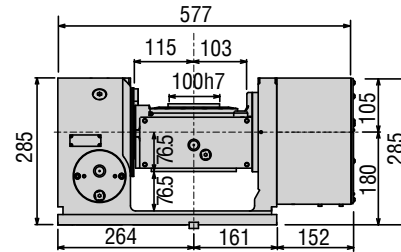
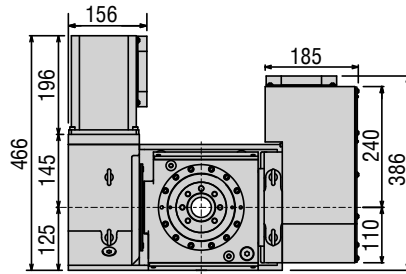
Please contact Koma Precision to confirm Tsudakoma Rotary Table working envelope.

www.komaprecision.com • info@komaprecision.com • 1-800-249-5662

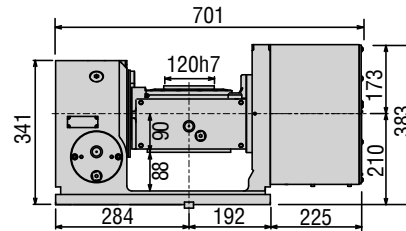
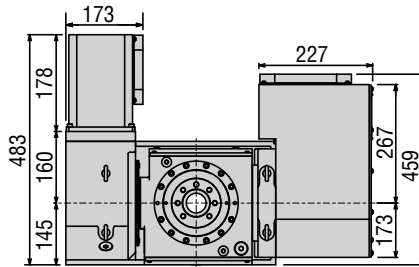
TWA-Series (Drawings Not To Scale)



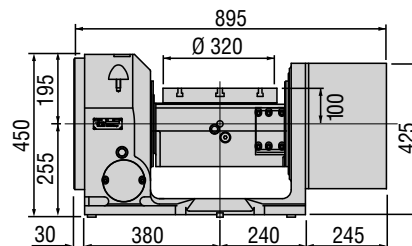
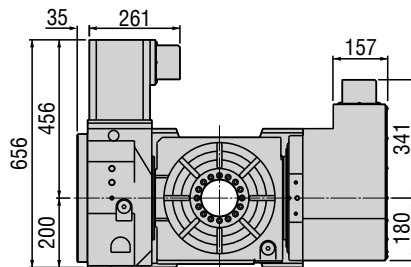
TWA-130



TWA-160



TWA-200

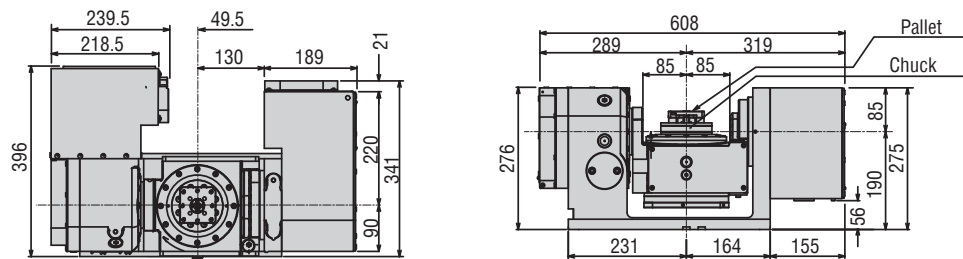


TN-320

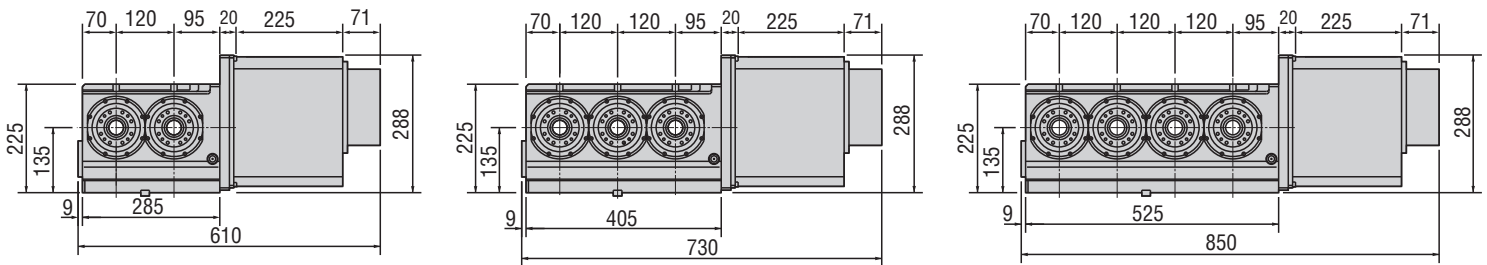
Please contact Koma Precision to confirm Tsudakoma Rotary Table working envelope.

www.komaprecision.com • info@komaprecision.com • 1-800-249-5662

RTT-111,CA, RN Multi Series & TBS-Series (Drawings Not To Scale)



RTT-111 CA

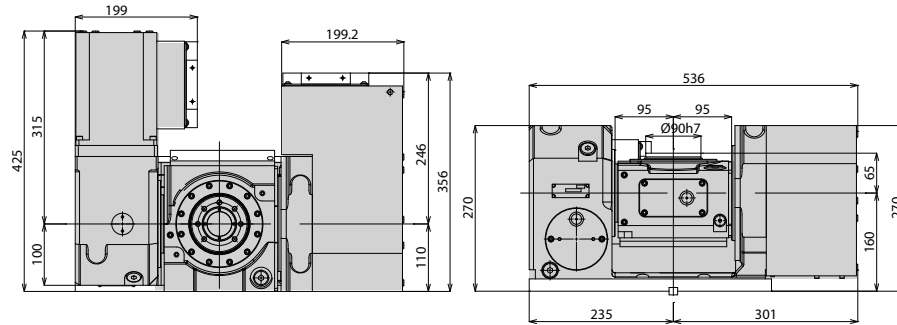


RN-100R-2,3,4

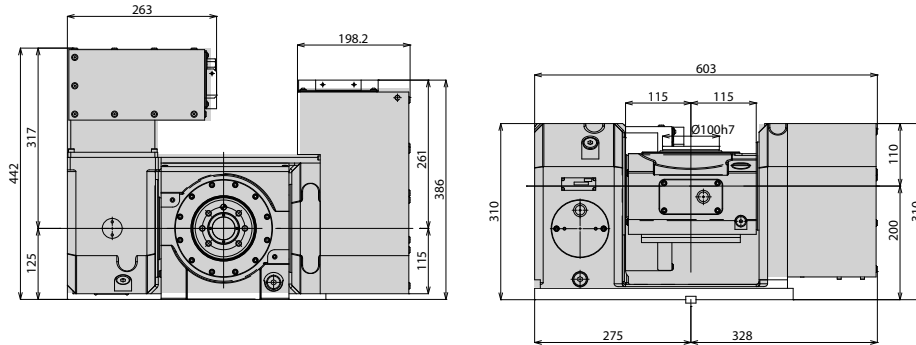
Please contact Koma Precision to confirm Tsudakoma Rotary Table working envelope.

www.komaprecision.com • info@komaprecision.com • 1-800-249-5662

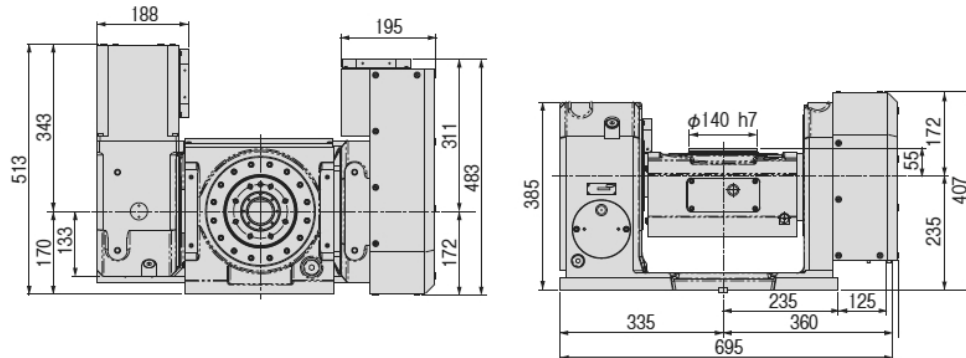
TBS-Series (Drawings Not To Scale)



TBS-130



TBS-160



TBS-250

Please contact Koma Precision to confirm Tsudakoma Rotary Table working envelope.

ROTARY TABLE SPECIFICATIONS



RN-Multi, RWA & RWE-Series

Table Model		RN-100-2,3,4	RWA-160	RWA-200	RWA-250	RWA-320	RWE-160	RWE-200
Versions available		R, L	R, L	R, L	R, L	R, L	R, L	R, L
Spindle outer diameter		80h7	100h7	120h7	140h7	180h7	100h7	120h7
Table diameter (optional)		(115)	(160, 200)	(200, 250)	250	320	(160, 200)	(200, 250)
Center height		135	135	160	160	210	135	160
Center bore	Nose Diameter	50H7	55H7	65H7	80H7	115H7	55H7	65H7
	Thru Diameter	30	40	45	50	85	40	45
Table T-slot width (with face plate)		-	(12H8)	(12H8)	12H8	14H7	(12H8)	(12H8)
Minimum spindle center distance		120	-	-	-	-	-	-
Guide block width		18h7	14h7	18h7	18h7	18h7	14h7	18h7
Servo motor (Fanuc)*		Alpha 4i	Alpha 2i	Alpha 4i	Alpha 8i (8is)	Alpha 8i (22is)	Alpha 2i	Alpha 4i
Maximum motor speed	rpm	5,000	5,000	5,000	4,000 (4,000)	4,000 (4,000)	5,000	5,000
Speed reduction ratio		1/36	1/72	1/72	1/90 (1/45)	1/120 (1/45)	1/72	1/72
Number of spindles		2 3 4	-	-	-	-	-	-
Maximum table speed	rpm	138.9	69.4	69.4	44.4 (88.9)	33.3 (88.9)	69.4	69.4
Inertia converted into motor shaft	$\times 10^{-3} \text{kg}\cdot\text{m}^2$	.64 .92 1.06	.09	.17	.41 (.44)	.52 (1.66)	.09	.17
Clamp system		Pneumatic		Pneumatic Dual Taper			Pneumatic Disc Clamp	
Clamp torque @72psi	Nm (ft. lbs.)	80 (59)	500 (369)	800 (590)	1,000 (737)	1,500 (1,106)	250 (180)	400 (295)
Indexing accuracy	arc sec.	±30	±12.5	±10	±10	±10	±12.5	±10
Net Weight	kg (lbs.)	70-110(154-242)	38 (84)	61 (134)	80 (176)	145 (319)	40 (88)	61 (135)
Allowable wheel torque	Nm (ft. lbs.)	176 (130)	206 (152)	288 (212)	596 (439)	939 (692)	206 (152)	288 (212)
Allowable work inertia	$\text{kg}\cdot\text{m}^2$	.10	.64	1.25	1.95	4.48	.64	1.25
Allowable work weight	 kg (lbs) [w/ tailstock]	25 (55) [50 (110)]	100 (220) [175 (385)]	125 (275) [250 (550)]	125 (275) [250 (550)]	175 (385) [375 (825)]	100 (220) [200 (441)]	125 (275) [250 (551)]
	 kg (lbs)	50 (110)	200 (440)	250 (550)	250 (550)	350 (770)	-	-
Allowable load when table clamped	 N (lbf)	5,880 (1,317)	10,800 (2,419)	14,400 (3,226)	14,400 (3,226)	24,800 (5,555)	10,800 (2,419)	14,400 (3,226)
	 Nm (ft. lbs.)	80 (59)	500 (369)	800 (590)	1,000 (737)	1,500 (1,106)	500 (369)	800 (590)
	 Nm (ft. lbs.)	156 (115)	780 (575)	1,900 (1,400)	1,900 (1,400)	4,700 (3,464)	780 (575)	1,900 (1,400)

* Other motors & RPM available

** Booster optional

Dimensions = mm

Specifications subject to change without notice

RBS & RWB-Series

Table Model			RBS-160	RBS-250	RBS-320	RWB-250	RWB-320
Versions available			R	R	R	R, L	R, L
Spindle outer diameter	mm		100h7	140h7	180h7	--	
Table diameter	mm		(160, 200)	250	320	250	320
Center height	mm		160	210	255	160	210
Center bore	Nose Diameter	mm	55H7	80H7	115H7	105	150
	Thru Diameter	mm	40	50	85	80	120
Table T-slot width			12H8	12H8	14H8	12H7	14H7
Guide block width			14h7	18h7	18h7	18h7	
Servo motor (Fanuc)*			Alpha 4i	Alpha 8i	Alpha 12i	Alpha 8i	Alpha 12i
Maximum motor speed	rpm		5,000	4,000	4,000	4,000	4,000
Speed reduction ratio			1/36	1/36	1/36	1/90	1/120
Maximum table speed	rpm		138.9	111.1	111.1	44.4	33.3
Inertia converted into motor shaft	$\times 10^{-3} \text{kg-m}^2$		0.19	0.42	2.24	1.27	3.53
Clamp system**			Pneumatic			Hydraulic	
Clamp torque @500psi	Nm (ft. lbs.)		-	-	-	1,300 (958)	3,100 (2,284)
Indexing accuracy	arc sec.		± 7.5	± 7.5	± 7.5	± 7	
Net Weight	kg (lbs.)		55 (121.2)	100 (220)	200 (440)	125 (286)	250 (550)
Allowable wheel torque	Nm (ft. lbs.)		--			1,011 (745)	2,127 (1,567)
Holding torque @72psi	Nm (ft. lbs.)		700 (516)	1480 (1076)	2580 (1901)	--	
Allowable work inertia	kg-m ²		0.48	1.95	4.48	7	19
Allowable work weight [with tailstock]	 kg (lbs)		100 (200) [200 (440)]	125 (275) [250 (550)]	175 (385) [350 (770)]	175 (385) [350 (770)]	250 (550) [500 (1,100)]
	w/ SSB		-	-	-	900 (1,980)	1,500 (3,300)
Allowable load when table clamped	 kg (lbs)		200 (440)	250 (550)	350 (770)	350 (770)	500 (1,100)
	 N (lbf)		10,800 (2,419)	14,400 (3,226)	24,800 (5,555)	35,000 (7,700)	89,000 (19,580)
	 Nm (ft. lbs.)		500 (369)	1,000 (737)	1,500 (1,106)	1,300 (958)	3,100 (2,284)
Allowable load when table clamped	 Nm (ft. lbs.)		780 (575)	1,900 (1,400)	4,700 (3,464)	1,500 (1,105)	5,300 (3,906)

* Other motors & RPM available

** Booster optional

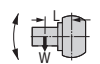
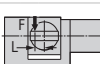
Dimensions = mm

Specifications subject to change without notice

ROTARY TABLE SPECIFICATIONS



TBS Series & RTT-111,CA

Table Model		TBS-130		TBS-160		TBS-250		RTT-111, CA	
Tilt Range		-30° ~ +110°		-30° ~ +110°		-30° ~ +110°		-17° ~ +107°	
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)		190	
Center height at 90° position		160		200		235		190	
Center bore	Nose Diameter (w/face plate)	55H7 (40H7)		55H7 (50H7)		80H7 (75H7)		-	
	Thru Diameter	40		40		50		-	
Table T-slot width		12H8		12H8		-		-	
Guide block width		14 h7		18h7		-		14H7	
Servo motor (Fanuc)*		Rotary	Tilt	Rotary	Tilt	Rotary	Tilt	Tilt	Tilt
		Alpha 2i	Alpha 2i	Alpha 2i	Alpha 4i	Alpha 8i	Alpha 8i	Alpha 2i	Alpha 2i
Maximum motor speed	rpm	5,000	5,000	5,000	5,000	4,000	4,000	5,000	5,000
Speed reduction ratio		1/48	1/60	1/60	1/60	1/45	1/60	1/60	1/120
Maximum table speed	rpm	104.2	83.3	83.3	83.3	88.9	66.7	83.3	41.7
Inertia converted into motor shaft	x 10 ⁻³ kg.m ²	.074	.072	.17	.18	.465	.465	.074	.072
Clamp system		Pneumatic						Pneumatic Dual Taper	
Clamp torque @72psi	Nm (ft. lbs.)	700 (516)	700 (516)	700 (516)	700 (516)	1,000 (737)	1,000 (737)	500 (369)	500 (369)
Indexing accuracy	arc sec.	±10	-	±10	-	±10	-	±15	-
Tilting accuracy	arc sec.	-	±17.5	-	±17.5	-	±20	-	±30
Net Weight	kg (lbs.)	125 (276)		160 (353)		280 (617)		98(216)	
Allowable wheel torque - rotary	Nm (ft. lbs.)	-		-		-		152(112)	
Allowable work inertia	kg.m ²	.08		.19		1.05		.08	
Allowable work weight	0° tilt angle		kg (lbs)	35 (77)	60 (132)	135 (298)		35 (77)	
	0° ~ 90° tilt angle		kg (lbs)	20 (44)	40 (88)	85 (187)		20 (44)	
Allowable work moment			Nm (ft. lbs.)	61.1	59.6	186.7 (137)		57 (42)	
Allowable load when table clamped			N (lbf)	3,920 (878)	10,800	14,400 (64,054)		3,920 (878)	
			Nm (ft. lbs.)	700 (516)	700 (516)	1,000 (737)		500 (369)	
			Nm (ft. lbs.)	700 (516)	700 (516)	1,000 (737)		500 (369)	

TWA Series

Table Model		TWA-130		TWA-160		TWA-200		TN-320	
Tilt Range		-17° ~ +107°		-30° ~ +110°		-30° ~ +110°		-30° ~ +110°	
Spindle outer diameter		90h7		100h7		120h7		-	
Table diameter (optional)		(135)		160 (200)		200 (250)		320	
Table height at 0° position		210 (235 w/face plate)		235 (260 w/face plate)		270 (300 w/face plate)		355	
Center height at 90° position		150		180		210		255	
Center bore	Nose Diameter (w/face plate)	55H7 (40H7)		55H7 (50H7)		65H7 (60H7)		105H7	
	Thru Diameter	35		40		45		102	
Table T-slot width		12H8 (w/face plate)		12H8 (w/face plate)		12H8 (w/face plate)		14H7	
Guide block width		14h7		18h7		18h7		18h7	
Servo motor (Fanuc)*		Rotary	Tilt	Rotary	Tilt	Rotary	Tilt	Rotary	Tilt
		Alpha 2i	Alpha 2i	Alpha 2i	Alpha 2i	Alpha 4i	Alpha 4i	Alpha 8i	Alpha 8i
Maximum motor speed	rpm	5,000	5,000	5,000	5,000	5,000	5,000	4,000	4,000
Speed reduction ratio		1/60	1/120	1/72	1/120	1/45	1/90	1/120	1/240
Maximum table speed	rpm	83.3	41.7	69.4	41.7	111.1	111.1	33.3	16.7
Inertia converted into motor shaft	$\times 10^{-3} \text{kg} \cdot \text{m}^2$	.074	.072	.17	.18	.38	.45	.82	.45
Clamp system		Pneumatic Dual Taper						Hydraulic @500 psi**	
Clamp torque @72psi	Nm (ft. lbs.)	500 (369)	500 (369)	500 (369)	800 (590)	800 (590)	1,000 (737)	[2,200] [(1,621)]	[2,200] [(1,621)]
Indexing accuracy	arc sec.	±20	-	±15	-	±15	-	±10	-
Tilting accuracy	arc sec.	-	±22.5	-	±22.5	-	±22.5	-	±22.5
Net Weight	kg (lbs.)	76 (167)		127 (279)		190 (418)		440 (968)	
Allowable wheel torque - rotary	Nm (ft. lbs.)	152 (112)		200 (147)		450 (332)		931 (686)	
Allowable work inertia	kg·m ²	.08		.19		.59		1.53	
Allowable work weight	0° tilt angle	kg (lbs.)	35 (77)	60 (132)	120 (264)	150 (330)			
	0° ~ 90° tilt angle	kg (lbs.)	20 (44)	40 (88)	70 (154)	100 (220)			
Allowable work moment		Nm (ft. lbs.)	24 (17.7)	39.2 (28.9)	53.7 (39.6)	163.3 (120.4)			
Allowable load when table clamped		N (lbf)	3,920 (878)	7,840 (1,756)	13,720 (3,073)	19,600 (4,390)			
		Nm (ft. lbs.)	500 (369)	500 (369)	800 (590)	2,200 (1,621)			
		Nm (ft. lbs.)	500 (369)	800 (590)	1,000 (737)	2,200 (1,621)			

* Other motors & RPM available • Dimensions = mm • Specifications subject to change without notice



Tel: 1.800.249.5662
Fax: 860.623.4132

info@komaprecision.com
www.komaprecision.com

20 Thompson Road
East Windsor, CT 06088