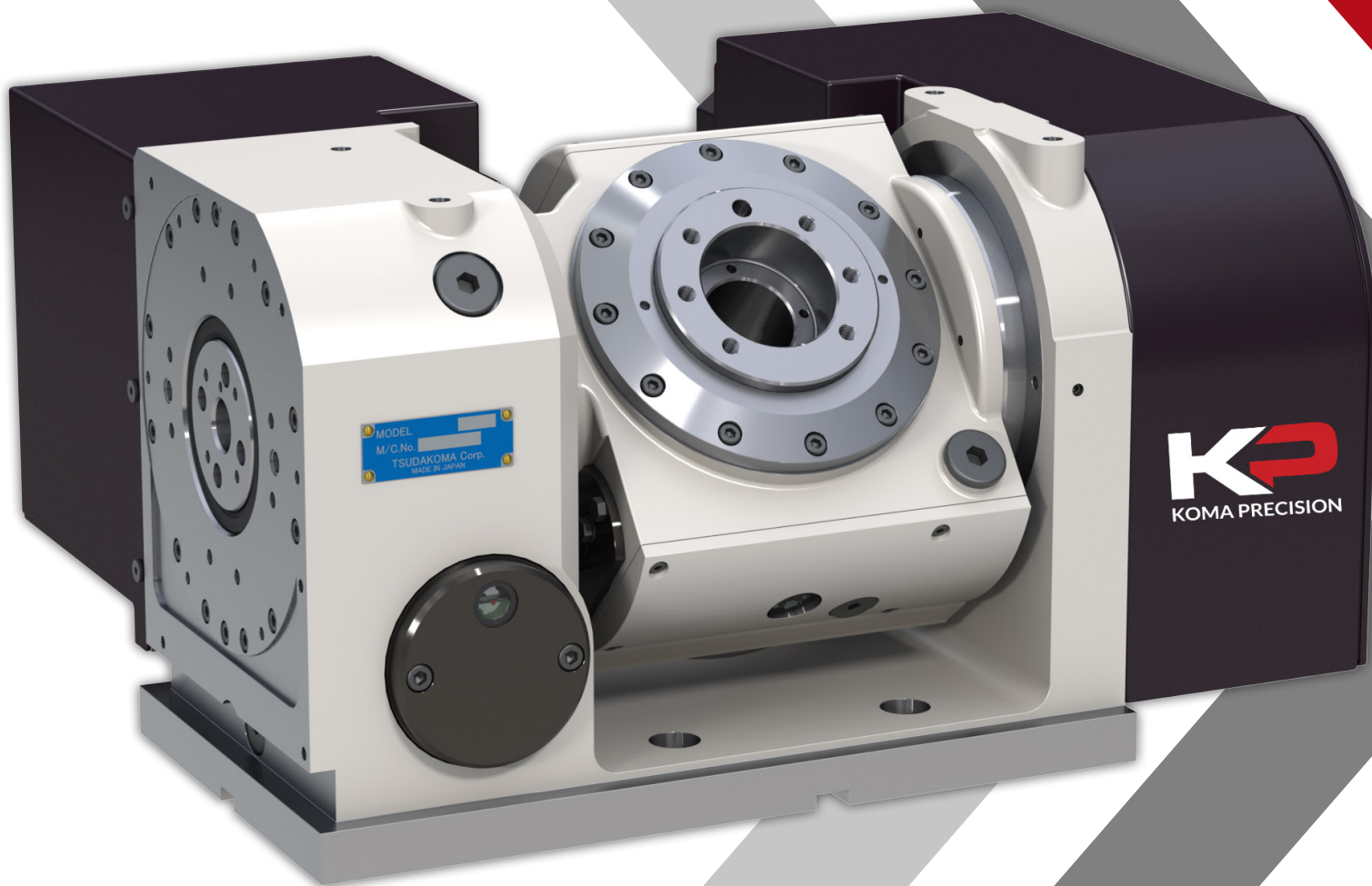




TSUDAKOMA

Rotary Table

Selection Guide

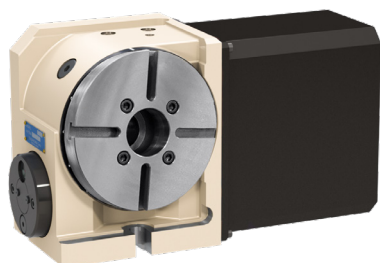
KOMA PRECISION

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.

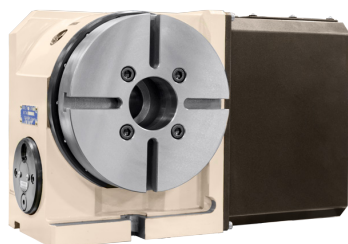
With over 30,000 rotary table installations, Koma is the largest distributor of Tsudakoma NC rotary tables and indexers in the world. With over 12,000 angle heads and live tools installed, Koma is the world's largest supplier for Alberti - the originator and the foremost innovator of productivity tooling.



ROTARY TABLES



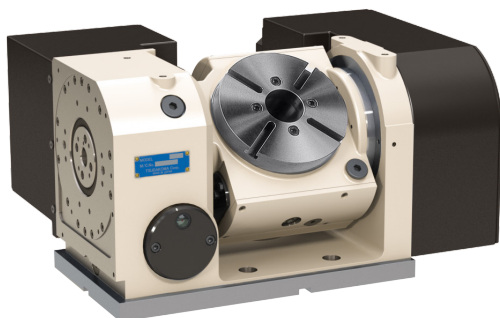
RWE SERIES



RWA SERIES



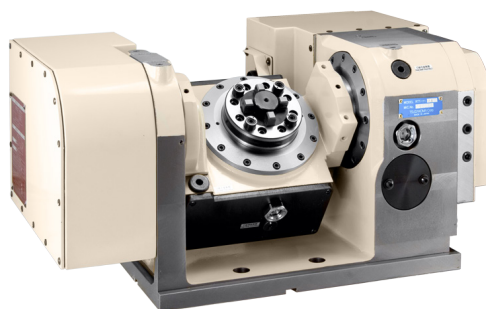
RBS SERIES



TWA SERIES



TBS SERIES



**5TH AXIS TILTING
RTT-111, CA**

GENMILL-2416/2818				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-320	
RBS SERIES	RBS-160	RBS-200		
TWA SERIES	TWA-130	TWA-160	TWA-200**	
TBS SERIES	TBS-130	TBS-160		
5 TH AXIS TILTING	RTT-111 CA*			

* Only Fits Tilting Down the X Axis

** Column risers may be required

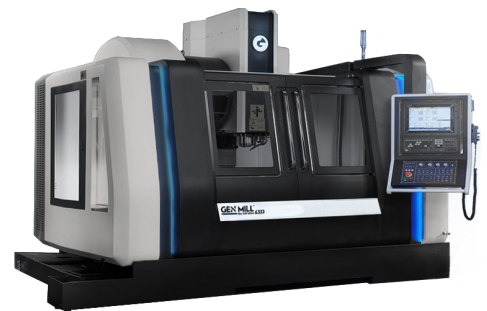


GENMILL-4024/5127				
RWE SERIES	RWE-200			
RWA SERIES	RWA-200	RWA-250	RWA-320	
TWA SERIES	TN-101	TWA-130		
RWB SERIES	RWB-250	RWB-320	RWB-400	
TWA SERIES*	TWA-130	TWA-160	TWA-200	
TBS SERIES*	TBS-130	TBS-160	TBS-250	

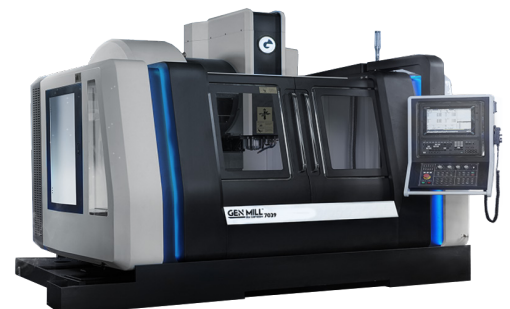
* Column riser may be required



GENMILL-6333				
RWA SERIES	RWA-250	RWA-320		
RBS SERIES	RBS-250	RBS-320		
RWB SERIES	RWB-250	RWB-320	RWB-400	
TWA SERIES	TWA-160	TWA-200	TWA-320	
TBS SERIES	TBS-160	TBS-200	TBS-320	



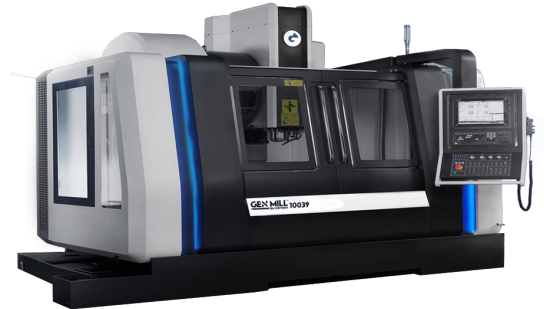
GENMILL-7039				
RWA SERIES	RWA-250	RWA-320		
RBS SERIES	RBS-250	RBS-320		
RWB SERIES	RWB-250	RWB-320	RWB-400	
TWA SERIES	TWA-160	TWA-200	TWA-250	TWA-320
TBS SERIES	TBS-160	TBS-200	TBS-250	



GENMILL SERIES



GENMILL-10039				
RWA SERIES	RWA-250	RWA-320		
RBS SERIES	RBS-250	RBS-320		
RWB SERIES	RWB-250	RWB-320	RWB-400	RWB-500
TWA SERIES	TWA-160	TWA-200	TWA-250	TWA-320
TBS SERIES	TBS-160	TBS-200	TBS-250	



GENMILL-T-500/T-700				
RWE SERIES	RWE-160	RWE-200		
RBS-SERIES	RBS-160			
TWA SERIES	TN-101	TWA-130	TWA-160	
TBS SERIES	TBS-130			
5TH AXIS TILTING	RTT-111,CA			



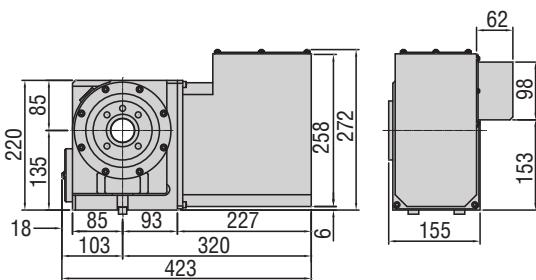
VMP-4024/5X-12			
RWE SERIES	RWE-160	RWE-200	
RWA-SERIES	RWA-250	RWA-320	
RBS-SERIES	RBS-160		
TWA SERIES	TN-101	TWA-130	
TBS SERIES	TBS-130		
5TH AXIS TILTING	RTT-111,CA		



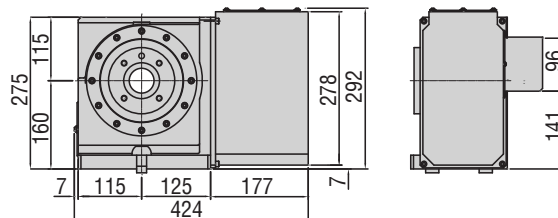
RWE & RWA-Series

(Drawings Not To Scale)

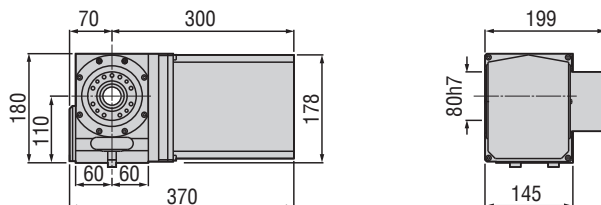
RWE-160



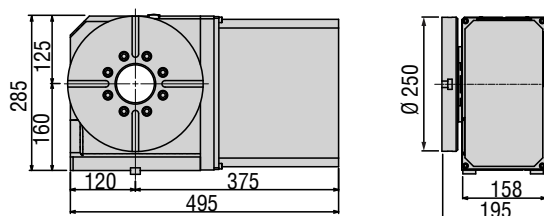
RWE-200



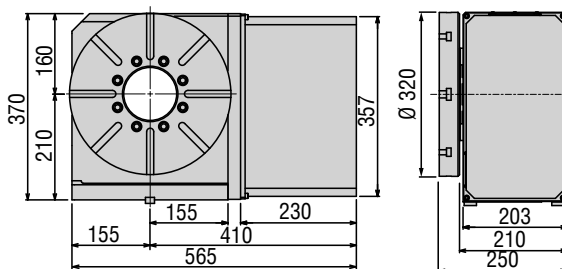
RN-100R



RWA-250



RWA-320



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

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

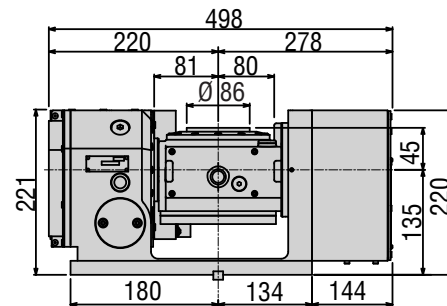
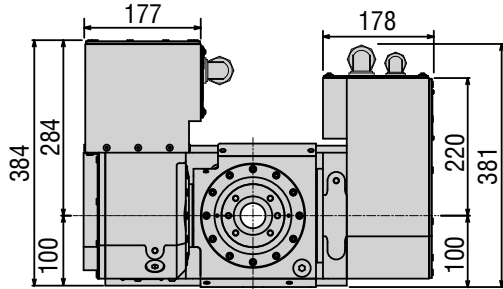
ROTARY TABLE DIMENSIONS



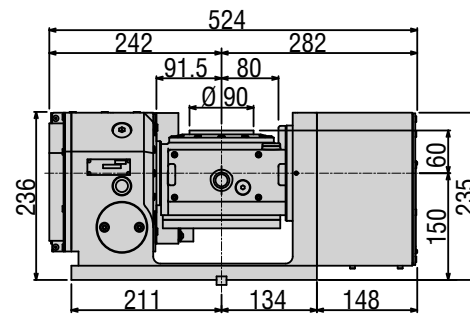
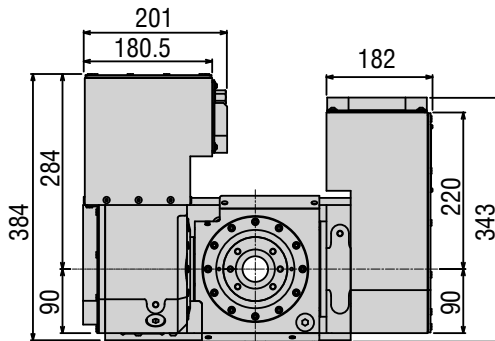
TWA-Series

(Drawings Not To Scale)

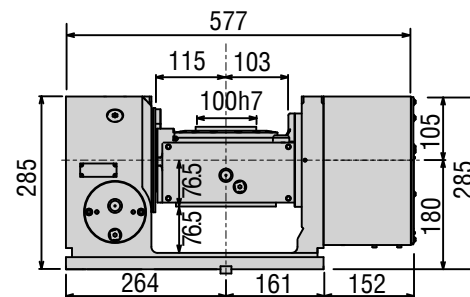
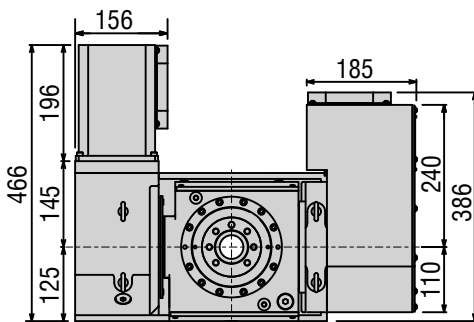
TN-101



TWA-130



TWA-160



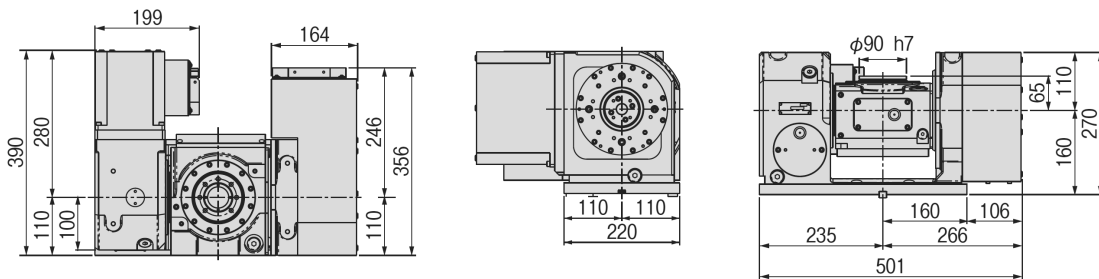
Please contact Koma Precision to confirm Ganesh / Tsudakoma Rotary Table working envelope.

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

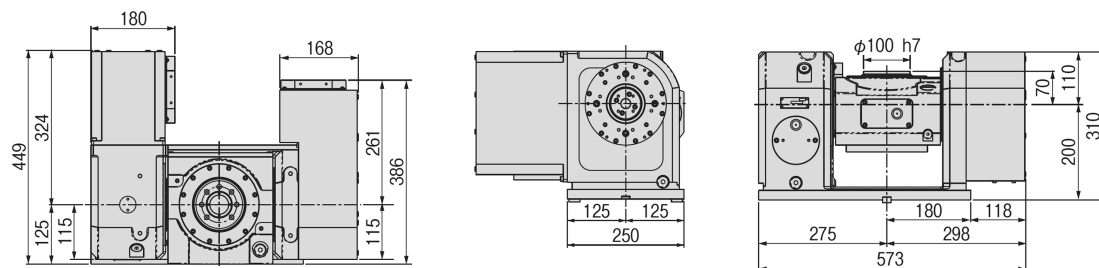
TBS-Series & RTT-111,CA

(Drawings Not To Scale)

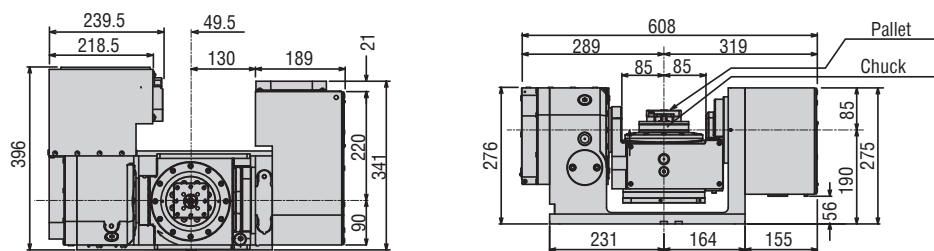
TBS-130



TBS-160



RTT-111 CA



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

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

ROTARY TABLE SPECIFICATIONS



RN, RWA & RWE-Series

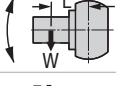
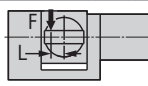
Table Model		RN-100	RWA-250 (S)	RWA-320 (S)	RWE-160	RWE-200
Versions available		R, L	R, L	R, L	R, L	R, L
Spindle outer diameter		80h7	140h7	180h7	100h7	120h7
Table diameter (optional)		(135)	250	320	(160, 200)	(200, 250)
Center height		110	160	210	135	160
Center bore	Nose Diameter	50H7	80H7	115H7	55H7	65H7
	Thru Diameter	30	50	85	40	45
Table T-slot width (with face plate)		(10H8)	12H8	14H7	(12H8)	(12H8)
Guide block width		14h7	18h7	18h7	14h7	18h7
Servo motor (Fanuc)*			Alpha 8i (8is)	Alpha 8i (22is)	Alpha 2i	Alpha 4i
Maximum motor speed	rpm		4,000 (4,000)	4,000 (4,000)	5,000	5,000
Speed reduction ratio		1/36	1/90 (1/45)	1/120 (1/45)	1/72	1/72
Maximum table speed	rpm		44.4 (88.9)	33.3 (88.9)	69.4	69.4
Inertia converted into motor shaft	$\times 10^{-3} \text{kg-m}^2$	.23	.41 (.44)	.52 (1.66)	.09	.17
Clamp system		Pneumatic	Pneumatic Dual Taper		Pneumatic Disc Clamp	
Clamp torque @72psi	Nm (ft. lbs.)	80 (59)	1,000 (737)	1,500 (1,106)	250 (180)	400 (295)
Indexing accuracy	arc sec.		± 10	± 10	± 12.5	± 10
Net Weight	kg (lbs.)	28 (62)	80 (176)	145 (319)	40 (88)	61 (135)
Allowable wheel torque	Nm (ft. lbs.)	176 (130)	596 (439)	939 (692)	206 (152)	288 (212)
Allowable work inertia	kg-m^2	.10	1.95	4.48	.64	1.25
Allowable work weight	 kg (lbs) [w/ tailstock]	25 (55) [50 (110)]	125 (275) [250 (550)]	175 (385) [375 (825)]	100 (220) [200 (441)]	125 (275) [250 (551)]
	 kg (lbs)	50 (110)	250 (550)	350 (770)	-	-
Allowable load when table clamped	 N (lbf)	5,880 (1,317)	14,400 (3,226)	24,800 (5,555)	10,800 (2,419)	14,400 (3,226)
	 Nm (ft. lbs.)	80 (59)	1,000 (737)	1,500 (1,106)	500 (369)	800 (590)
	 Nm (ft. lbs.)	156 (115)	1,900 (1,400)	4,700 (3,464)	780 (575)	1,900 (1,400)

* Other motors & RPM available

Dimensions = mm

Specifications subject to change without notice

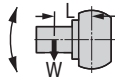
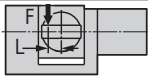
TWA-SERIES

Model		TN-101		TWA-130		TWA-160	
Tilt Range		-17° ~ +107°		-17° ~ +107°		-30° ~ +110°	
Spindle outer diameter		86h7		90h7		100h7	
Table diameter (optional)		(135)		(135)		160 (200)	
Table height at 0° position (w/face plate)		180 (205)		210 (235)		235 (260)	
Center height at 90° position		135		150		180	
Center bore	Nose Diameter (w/face plate)	55H7 (40H7)		55H7 (40H7)		55H7 (50H7)	
	Thru Diameter	35		35		40	
Table T-slot width		12H7 (w/face plate)		12H8 (w/face plate)		12H8 (w/face plate)	
Guide block width		14h7		14h7		18h7	
Servo motor (Fanuc)*		Rotary	Tilt	Rotary	Tilt	Rotary	Tilt
		Alpha 2i	Alpha 2i	Alpha 2i	Alpha 2i	Alpha 2i	Alpha 2i
Maximum motor speed	rpm	5,000	5,000	5,000	5,000	5,000	5,000
Speed reduction ratio		1/60	1/120	1/60	1/120	1/72	1/120
Maximum table speed	rpm	83.3	41.7	83.3	41.7	69.4	41.7
Inertia converted into motor shaft	x 10 ⁻³ kg·m ²	.072	.078	.074	.072	.17	.18
Clamp system		Pneumatic		Pneumatic Dual Taper			
Clamp torque @72psi	Nm (ft. lbs.)	200 (147)	300 (221)	500 (369)	500 (369)	500 (369)	800 (590)
Indexing accuracy	arc sec.	±20	-	±20	-	±15	-
Tilting accuracy	arc sec.	-	±22.5	-	±22.5	-	±22.5
Net Weight	kg (lbs.)	65 (143)		76 (167)		127 (279)	
Allowable wheel torque - rotary	Nm (ft. lbs.)	152 (112)		152 (112)		200 (147)	
Allowable work inertia	kg·m ²	.08		.08		.19	
Allowable work weight	0° tilt angle 	kg (lbs)	35 (77)	35 (77)	35 (77)	60 (132)	
	0° ~ 90° tilt angle 	kg (lbs)	20 (44)	20 (44)	20 (44)	40 (88)	
Allowable work moment		Nm (ft. lbs.)	24 (17.7)	24 (17.7)	24 (17.7)	39.2 (28.9)	
Allowable load when table clamped		N (lbf)	3,920 (878)	3,920 (878)	3,920 (878)	7,840 (1,756)	
		Nm (ft. lbs.)	200 (147)	500 (369)	500 (369)	500 (369)	
		Nm (ft. lbs.)	300 (221)	500 (369)	500 (369)	800 (590)	

* Other motors & RPM available ** Booster optional

Dimensions = mm Specifications subject to change without notice

TWA, TBS-Series, & RTT-111,CA

Model		TBS-130		TBS-160		RTT-111,CA	
Tilt Range		-30° ~ +110°		-30° ~ +110°		-17° ~ +107°	
Spindle outer diameter		90h7		100h7		--	
Table diameter (optional)		(135)		(160 or 200)		--	
Table height at 0° position (w/face plate)		225 (250)		270 (300)		190	
Center height at 90° position		160		200		190	
Center bore	Nose Diameter (w/face plate)	55H7 (40H7)		55H7 (50H7)		-	
	Thru Diameter	40		40		-	
Table T-slot width		12H8		12H8		14H7	
Guide block width		14h7		18h7		14H7	
Servo motor (Fanuc)*		Rotary	Tilt	Rotary	Tilt	Rotary	Tilt
		Alpha 2i	Alpha 2i	Alpha 2i	Alpha 4i	Alpha 2i	Alpha 2i
Maximum motor speed	rpm	5,000	5,000	5,000	5,000	5,000	5,000
Speed reduction ratio		1/48	1/60	1/60	1/60	1/60	1/120
Maximum table speed	rpm	104.2	83.3	83.3	83.3	83.3	41.7
Inertia converted into motor shaft	x 10 ⁻³ kg·m ²	.074	.072	.17	.18	.074	.72
Clamp system		Pneumatic				Hydraulic @500 psi **	
Clamp torque @72psi	Nm (ft. lbs.)	700 (516)	700 (516)	700 (516)	700 (516)	[2,200] [(1,621)]	[2,200] [(1,621)]
Indexing accuracy	arc sec.	±10	-	±10	-	±20	-
Tilting accuracy	arc sec.	-	±17.5	-	±17.5	-	±30
Net Weight	kg (lbs.)	125 (276)		160 (353)		98 (216)	
Allowable wheel torque - rotary	Nm (ft. lbs.)	-		-		152 (112)	
Allowable work inertia	kg·m ²	.08		.19		.08	
Allowable work weight	0° tilt angle 	kg (lbs)	35 (77)	60 (132)	35 (77)		
	0° ~ 90° tilt angle 	kg (lbs)	20 (44)	40 (88)	20 (44)		
Allowable work moment		Nm (ft. lbs.)	61.1	59.6	57 (42)		
Allowable load when table clamped		N (lbf)	3,920 (878)	10,800	3,920 (878)		
		Nm (ft. lbs.)	700 (516)	700 (516)	500 (369)		
		Nm (ft. lbs.)	700 (516)	700 (516)	500 (369)		

* Other motors & RPM available ** Booster optional

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