

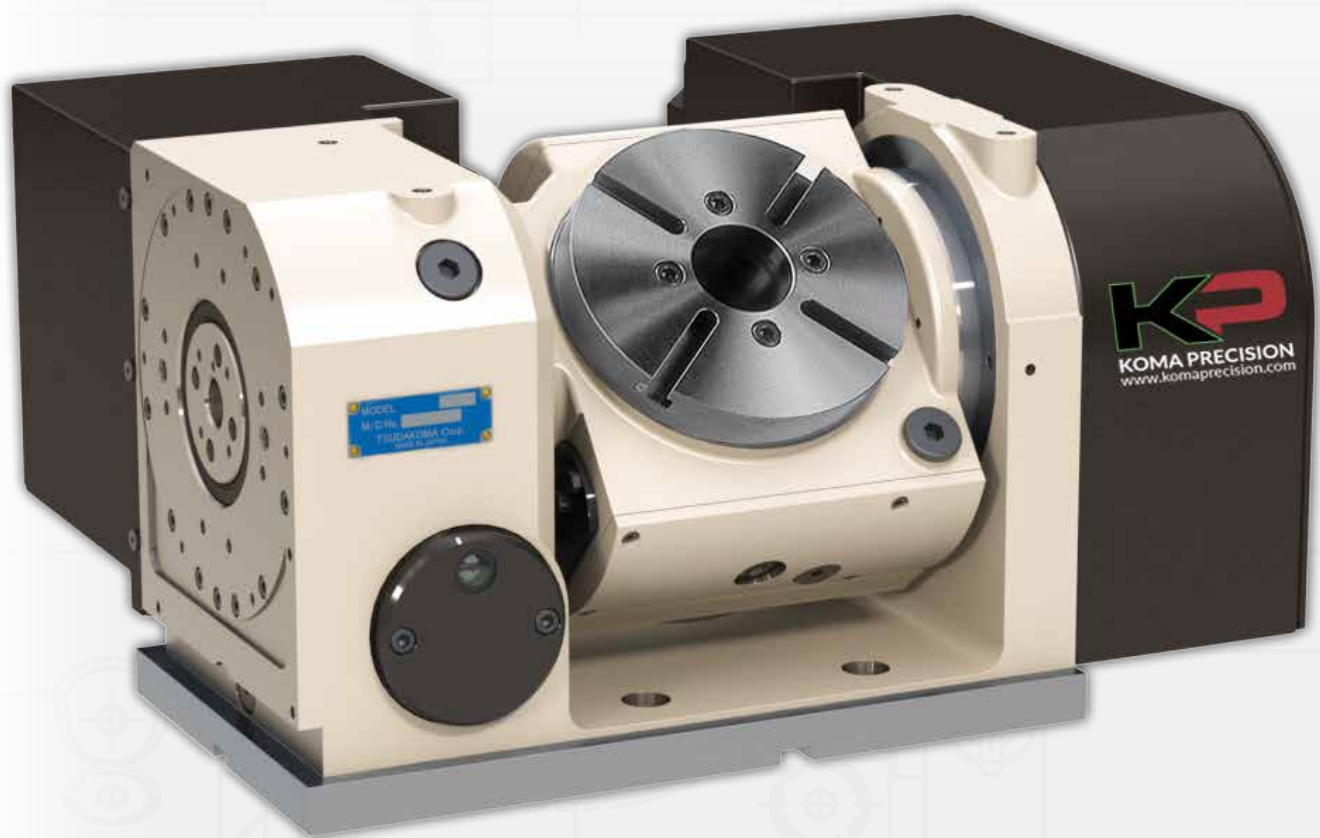


KOMA PRECISION
THE KEY TO PERFORMANCE
www.komaprecision.com

TSUDAKOMA

Rotary Table Selection Guide

2022



WE FOCUS ON BEING THE BEST—
that's why leading companies choose Koma.

WE ARE THE EXCLUSIVE NORTH AMERICAN
IMPORTER, NATIONAL DISTRIBUTOR, AND
SERVICE CENTER FOR TSUDAKOMA ROTARY TABLES.



KOMA PRECISION

ABOUT US

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

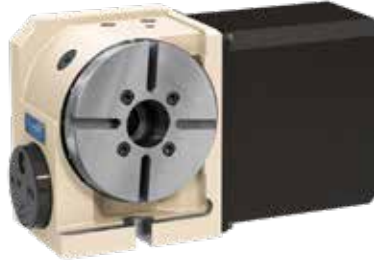
With over 30,000 rotary table installations, Koma is the largest distributor of Tsudakoma NC rotary tables and indexers in the world. With over 12,000 angle heads and live tools installed, Koma is the world's largest supplier for Alberti - the originator and the foremost innovator of productivity tooling.



ROTARY TABLES



RWE INDEXERS



RWE SERIES



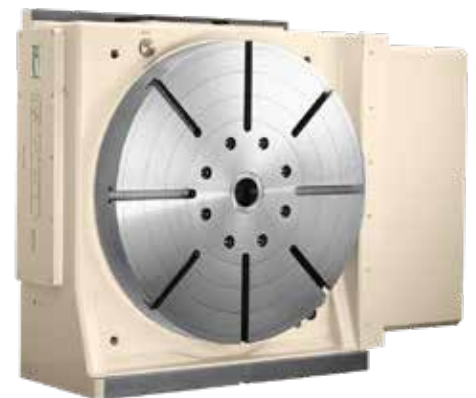
RWA SERIES



RBS SERIES



RN-100 MULTI SERIES



RNCM SERIES



TWA SERIES



TBS SERIES



5TH AXIS TILTING
RTT-111, CA

VMP-580				
RWE INDEXERS	RWE-160 TPC	RWE-200 TPC		
RWE SERIES	RWE-160,R	RWE-200,R		
RWA SERIES	RWA-160,R	RWA-200,R	RWA-250,R	
RBS SERIES	RBS-160R	RBS-250R		
RN MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4	
5TH AXIS TILTING	RTT-111,CA			
TWA SERIES	TWA-130			
TBS SERIES	TBS-130			
VMP-760				
RWE INDEXERS	RWE-160 TPC	RWE-200 TPC		
RWE SERIES	RWE-160,R	RWE-200,R		
RWA SERIES	RWA-160,R	RWA-200,R	RWA-250,R	RWA-320,R
RBS SERIES	RBS-160R	RBS-250R	RBS-320R	
RN MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4	
5TH AXIS TILTING	RTT-111,CA			
TWA SERIES	TWA-130	TWA-160		
TBS SERIES	TBS-130	TBS-160		
VMP-1000				
RWE INDEXERS	RWE-160 TPC	RWE-200 TPC		
RWE SERIES	RWE-160,R	RWE-200,R		
RWA SERIES	RWA-160,R	RWA-200,R	RWA-250,R	RWA-320,R
RBS SERIES	RBS-160R	RBS-250R	RBS-320R	
RN MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4	
5TH AXIS TILTING	RTT-111,CA			
TWA SERIES	TWA-130	TWA-160		
TBS SERIES	TBS-130	TBS-160		
VMP-1650				
RWE INDEXERS	RWE-160 TPC	RWE-200 TPC		
RWE SERIES	RWE-160,R	RWE-200,R		
RWA SERIES	RWA-160,R	RWA-200,R	RWA-250,R	RWA-320,R
RBS SERIES	RBS-160R	RBS-250R	RBS-320R	
RN MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4	
5TH AXIS TILTING	RTT-111,CA			
TWA SERIES	TWA-130	TWA-160	TWA-200	
TBS SERIES	TBS-130	TBS-160	TBS-200	



VMP-580



VMP-760



VMP-1000

VB-SERIES

VB-1400				
RWE INDEXERS	RWE-160 TPC	RWE-200 TPC		
RWE SERIES	RWE-160,R	RWE-200,R		
RWA SERIES	RWA-160,R	RWA-200,R	RWA-250,R	RWA-320,R
RBS SERIES	RBS-160R	RBS-250R	RBS-320R	
RN MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4	
5TH AXIS TILTING	RTT-111,CA			
TWA SERIES	TWA-130	TWA-160	TWA-200	
TBS SERIES	TBS-130	TBS-160	TBS-200	
VB-1650				
RWE INDEXERS	RWE-160 TPC	RWE-200 TPC		
RWE SERIES	RWE-160,R	RWE-200,R		
RWA SERIES	RWA-160,R	RWA-200,R	RWA-250,R	RWA-320,R
RBS SERIES	RBS-160R	RBS-250R	RBS-320R	
RN MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4	
RNCM SERIES	RNCM-401,R			
5TH AXIS TILTING	RTT-111,CA			
TWA SERIES	TWA-130	TWA-160	TWA-200	
TBS SERIES	TBS-130	TBS-160	TBS-200	
VB-1900				
RWE INDEXERS	RWE-160 TPC	RWE-200 TPC		
RWE SERIES	RWE-160,R	RWE-200,R		
RWA SERIES	RWA-160,R	RWA-200,R	RWA-250,R	
RBS SERIES	RBS-160R	RBS-250R		
RN MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4	
RNCM SERIES	RNCM-401,R			
5TH AXIS TILTING	RTT-111,CA			
TWA SERIES	TWA-130	TWA-160	TWA-200	
TBS SERIES	TBS-130	TBS-160	TBS-200	
VB-2200				
RWE INDEXERS	RWE-160 TPC	RWE-200 TPC		
RWE SERIES	RWE-160,R	RWE-200,R		
RWA SERIES	RWA-160,R	RWA-200,R	RWA-250,R	RWA-320,R
RBS SERIES	RBS-160R	RBS-250R	RBS-320R	
RN MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4	
RNCM SERIES	RNCM-401,R			
5TH AXIS TILTING	RTT-111,CA			
TWA SERIES	TWA-130	TWA-160	TWA-200	
TBS SERIES	TBS-130	TBS-160	TBS-200	



VB-1400



VB-1650



VB-1900



VB-2200

NBP-1100				
RWE INDEXERS	RWE-160 TPC	RWE-200 TPC		
RWE SERIES	RWE-160,R	RWE-200,R		
RWA SERIES	RWA-160,R	RWA-200,R	RWA-250,R	
RBS SERIES	RBS-160R	RBS-250R		
RN MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4	
5TH AXIS TILTING	RTT-111,CA			
TWA SERIES	TWA-130			
TBS SERIES	TBS-130			
NBP-1300				
RWE INDEXERS	RWE-160 TPC	RWE-200 TPC		
RWE SERIES	RWE-160,R	RWE-200,R		
RWA SERIES	RWA-160,R	RWA-200,R	RWA-250,R	RWA-320,R
RBS SERIES	RBS-160R	RBS-250R	RBS-320R	
RN MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4	
5TH AXIS TILTING	RTT-111,CA			
TWA SERIES	TWA-130	TWA-160		
TBS SERIES	TBS-130	TBS-160		
HV-1000				
RWE INDEXERS	RWE-160 TPC	RWE-200 TPC		
RWE SERIES	RWE-160,R	RWE-200,R		
RWA SERIES	RWA-160,R	RWA-200,R	RWA-250,R	
RBS SERIES	RBS-160R	RBS-250R	RBS-320R	
RN MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4	
5TH AXIS TILTING	RTT-111,CA			
TWA SERIES	TWA-130	TWA-160		
TBS SERIES	TBS-130	TBS-160		



NBP-1100



NBP-1300



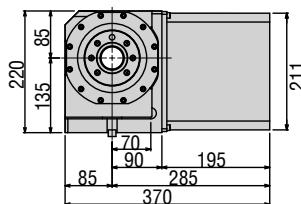
HV-1000

ROTARY TABLE DIMENSIONS

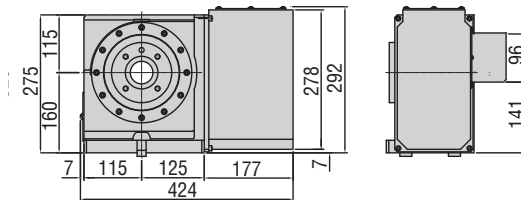
RWE, RWA, RBS-Series & RN-100R-2,3,4

(Drawings Not To Scale)

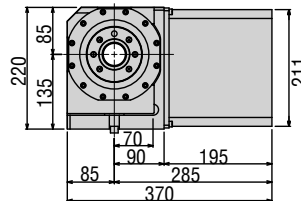
RWE-160



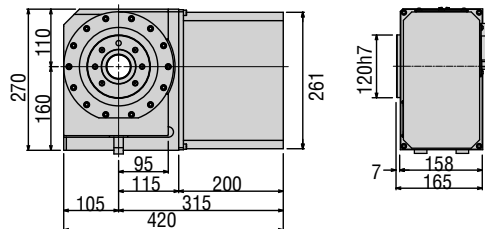
RWE-200



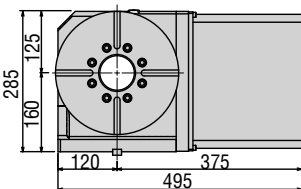
RWA-160



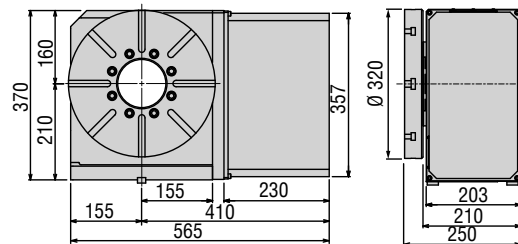
RWA-200



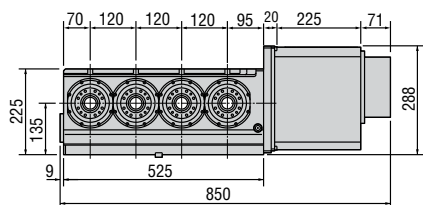
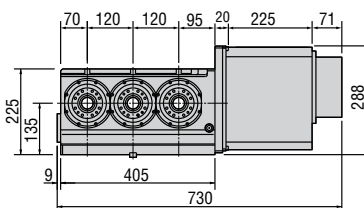
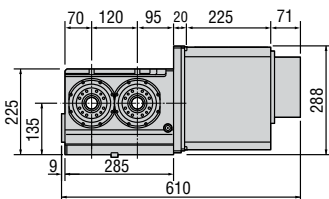
RWA-250



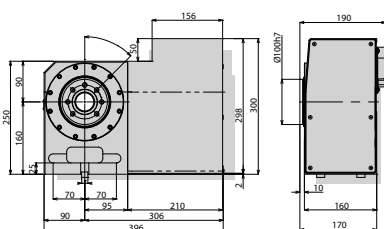
RWA-320



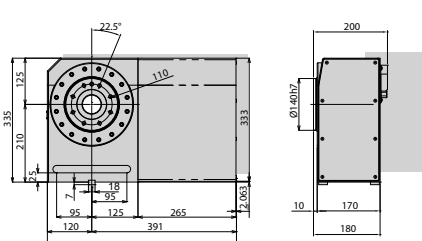
RN-100R-2,3,4



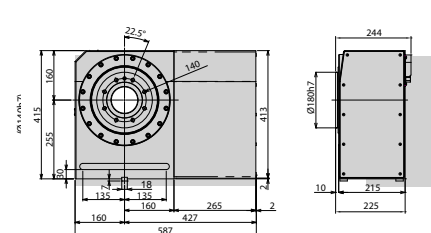
RBS-160



RBS-250



RBS-320



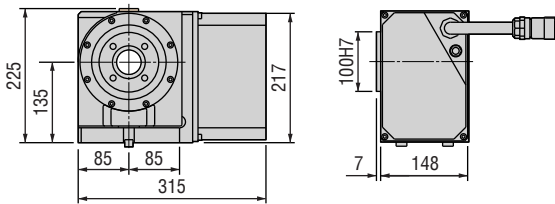
Please contact Koma Precision to confirm Feeler / Tsudakoma Rotary Table working envelope.

ROTARY TABLE DIMENSIONS

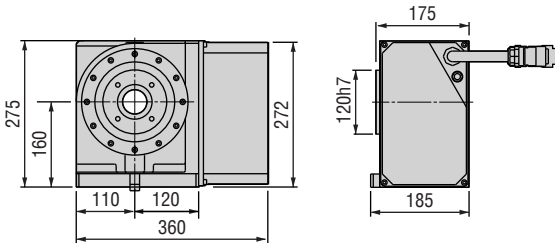
RWE Indexers

(Drawings Not To Scale)

RWE-160 TPC

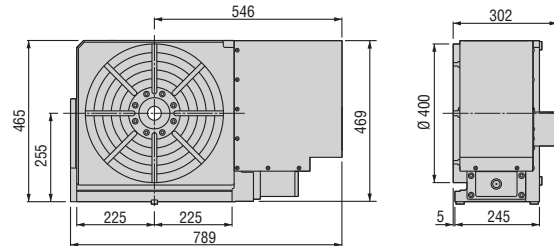


RWE-200 TPC



RNCM-401

(Drawings Not To Scale)

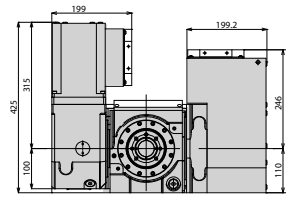
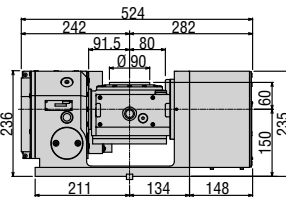
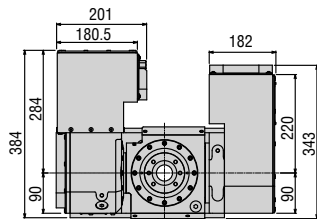


RNCM-401

TWA, TBS Series & RTT-111, CA ROTARY TABLE DIMENSIONS

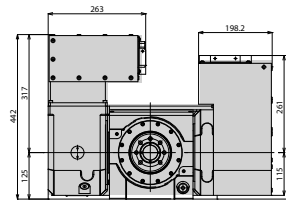
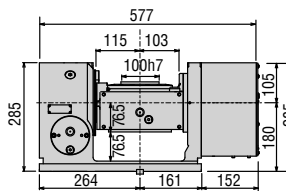
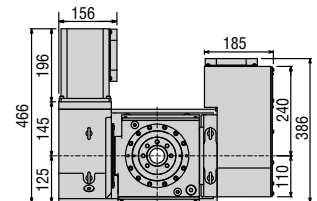
(Drawings Not To Scale)

TWA-130



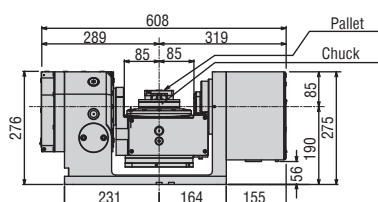
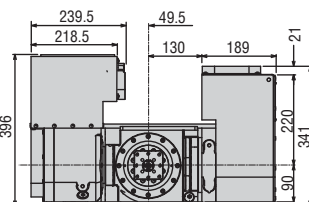
TBS-130

TWA-160



TBS-160

RTT-111 CA



Please contact Koma Precision to confirm Feeler / 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 (S)	RWA-320 (S)	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 x 10 ⁻³ kg·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 kg·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

Dimensions = mm

Specifications subject to change without notice

RBS, RWE Indexers & RNCM-Series

Table Model		RBS-160	RBS-250	RBS-320	RWE-160 TPC	RWE-200 TPC	RNCM-401
Versions available		R	R	R	-	-	R, L
Spindle outer diameter		100h7	140h7	180h7	100h7	120h7	-
Table diameter (optional)		(160, 200)	250	320	(160 or 200)	(200 or 250)	400
Center height		160	210	255	135	160	255
Center bore	Nose Diameter (w/ face plate)	55H7	80H7	115H7	55H7 (50H7)	65H7 (60H7)	40H7
	Thru Diameter	40	50	85	40	45	40
Table T-slot width (with faceplate)		12H8	12H8	14H8	12H8	12H8	14H7
Guide block width		14h7	18h7	18h7	14h7	18h7	18h7
Servo motor (Fanuc)*		Alpha 4i	Alpha 8i	Alpha 12i	-	-	Alpha 12i
Controller (included with table)		-	-	-	TPC-Jr G2	TPC-Jr G3	-
Maximum motor speed rpm		5,000	4,000	4,000	3,000	3,000	4,000
Speed reduction ratio		1/36	1/36	1/36	1/60	1/72	1/180
Maximum table speed rpm		138.9	111.1	111.1	50	41.7	22.2
Inertia converted into motor shaft $\times 10^{-3} \text{kg}\cdot\text{m}^2$		-	-	-	.19	.19	2.05
Clamp system		Pneumatic Disc Clamp			Pneumatic		Hydraulic**
Clamp torque @72psi [500psi] Nm (ft. lbs.)		700 (516)	1480 (1076)	2580 (1901)	156 (115)	294 (217)	[1,764 (1,300)]
Indexing accuracy arc sec.		± 12.5	± 10	± 10	± 22.5		± 7.5
Net Weight kg (lbs.)		44 (97)	62 (136)	107 (235)	40 (88)	65 (143)	300 (660)
Allowable wheel torque Nm (ft. lbs.)		206 (152)	288 (212)	565 (416)	147 (108)	264 (195)	1,666 (1,228)
Allowable work inertia $\text{kg}\cdot\text{m}^2$		.48	1.25	1.95	.48	1.2	9.7
Allowable work weight	 kg (lbs) [w/ tailstock]	75 (165) [150 (330)]	100 (220) [250 (550)]	100 (220) [250 (550)]	75 (165) [150 (330)]	100 (220) [250 (550)]	200 (440) [500 (1,100)]
	 kg (lbs)	-	-	-	150 (330)	250 (550)	500 (1,100)
Allowable load when table clamped	 N (lbf)	7,840 (1,762)	13,720 (3,085)	250 (550)	7,840 (1,756)	13,720 (3,073)	39,200 (8,781)
	 Nm (ft. lbs.)	250 (180)	400 (295)	13,720 (3,073)	156 (115)	294 (217)	1,764 (1,300)
	 Nm (ft. lbs.)	392 (290)	980 (723)	600 (442)	392 (289)	980 (722)	2,450 (1,806)

* Other motors & RPM available

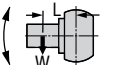
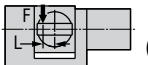
** Booster optional

Dimensions = mm

Specifications subject to change without notice

ROTARY TABLE SPECIFICATIONS

TWA, TBS-Series & RTT-111, CA

Table Model		TBS-130		TBS-160		TWA-130		TWA-160		RTT-111, CA	
Tilt Range		-30° ~ +110°		-30° ~ +110°		-17° ~ +107°		-30° ~ +110°		-17° ~ +107°	
Spindle outer diameter		90h7		100h7		90h7		100h7		-	
Table diameter (optional)		(135)		(160 or 200)		(135)		160 (200)		-	
Table height at 0° position		225 (250 w/faceplate)		270 (300 w/faceplate)		210 (235 w/faceplate)		235 (260 w/faceplate)		190	
Center height at 90° position		160		200		150		180		190	
Center bore	Nose Diameter (w/face plate)	55H7 (40H7)		55H7 (50H7)		55H7 (40H7)		55H7 (50H7)		--	
	Thru Diameter	40		40		35		40		--	
Table T-slot width		12H8		12H8		12H8 (w/faceplate)		12H8 (w/faceplate)		--	
Guide block width		14h7		18h7		14h7		18h7		14H7	
Servo motor (Fanuc)*		Rotary	Tilt	Rotary	Tilt	Rotary	Tilt	Rotary	Tilt	Rotary	Tilt
		Alpha 2i	Alpha 2i	Alpha 2i	Alpha 4i	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	5,000	5,000	5,000	5,000
Speed reduction ratio		1/48	1/60	1/60	1/60	1/60	1/120	1/72	1/120	1/60	1/120
Maximum table speed	rpm	104.2	83.3	83.3	83.3	83.3	41.7	69.4	41.7	83.3	41.7
Inertia converted into motor shaft	x 10 ⁻³ kg·m ²	.074	.072	.17	.18	.074	.072	.17	.18	.074	.072
Clamp system		Pneumatic				Pneumatic Dual Taper					
Clamp torque @72psi	Nm (ft. lbs.)	700 (516)	700 (516)	700 (516)	700 (516)	500 (369)	500 (369)	500 (369)	800 (590)	500 (369)	500 (369)
Indexing accuracy	arc sec.	±10	-	±10	-	±20	-	±15	-	±20	-
Tilting accuracy	arc sec.	-	±17.5	-	±17.5	-	±22.5	-	±22.5	-	±30
Net Weight	kg (lbs.)	125 (276)		160 (353)		76 (167)		127 (279)		98(216)	
Allowable wheel torque - rotary	Nm (ft. lbs.)	-		-		152 (112)		200 (147)		152(112)	
Allowable work inertia	kg·m ²	.08		.19		.08		.19		.08	
Allowable work weight	0° tilt angle 	kg (lbs)	35 (77)	60 (132)	35 (77)	60 (132)	35 (77)	60 (132)	35 (77)	60 (132)	35 (77)
	0° ~ 90° tilt angle 	kg (lbs)	20 (44)	40 (88)	20 (44)	40 (88)	20 (44)	40 (88)	20 (44)	40 (88)	20 (44)
Allowable work moment		Nm (ft. lbs.)	61.1	59.6	24 (17.7)	39.2 (28.9)	57 (42)				
Allowable load when table clamped		N (lbf)	3,920 (878)	10,800	3,920 (878)	7,840 (1,756)	3,920 (878)				
		Nm (ft. lbs.)	700 (516)	700 (516)	500 (369)	500 (369)	500 (369)				
		Nm (ft. lbs.)	700 (516)	700 (516)	500 (369)	800 (590)	500 (369)				

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

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