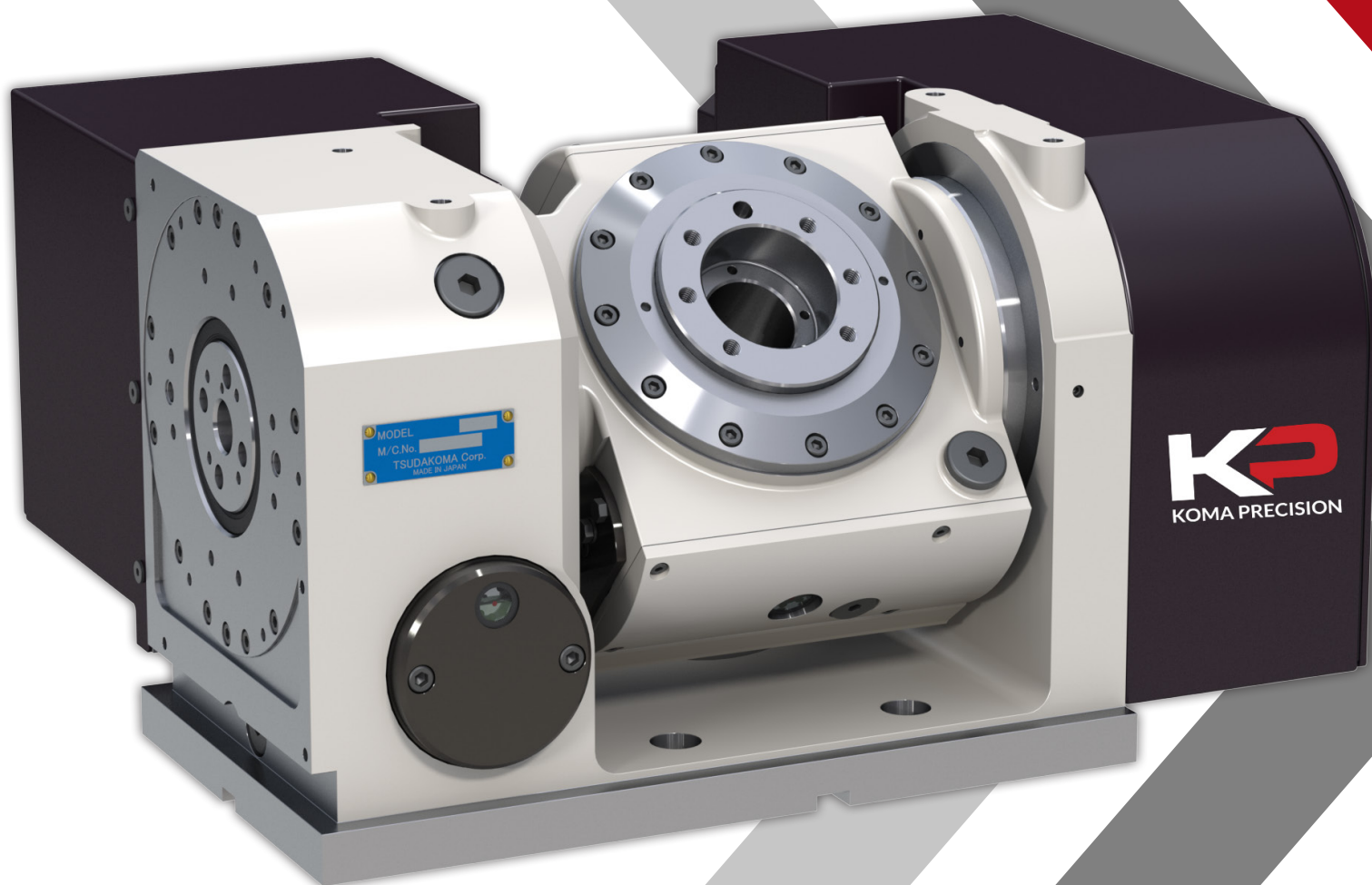




TSUDAKOMA

Rotary Table

Selection Guide

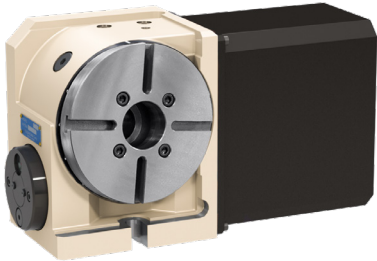
KOMA PRECISION

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.

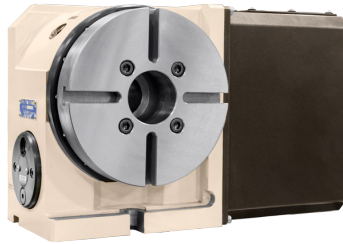
With over 30,000 rotary table installations, Koma is the largest distributor of Tsudakoma NC rotary tables and indexers in the world. With over 12,000 angle heads and live tools installed, Koma is the world's largest supplier for Alberti - the originator and the foremost innovator of productivity tooling.



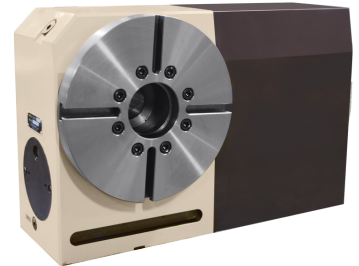
ROTARY TABLES



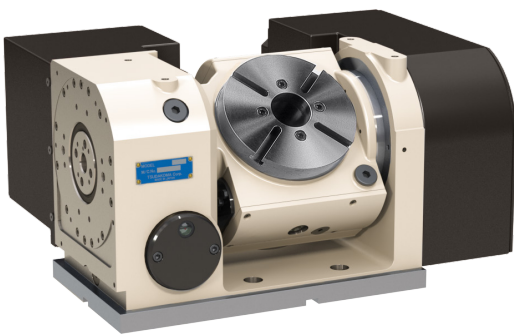
RWE SERIES



RWA SERIES



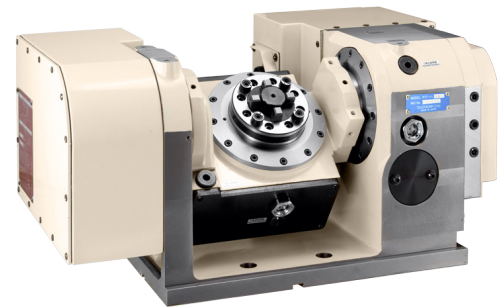
RBS SERIES



TWA SERIES



TBS SERIES



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



RWB SERIES



RNCM SERIES



VF1 SERIES

RWE SERIES	RWE-160	RWE-200	
RWA SERIES	RWA-160	RWA-200	
RBS SERIES	RBS-160		
TWA SERIES	TN-101	TWA-130	
5TH AXIS TILTING	RTT-111,CA		



VF2 SERIES

RWE SERIES	RWE-160	RWE-200	
RWA SERIES	RWA-160	RWA-200	
RBS SERIES	RBS-160		
TWA SERIES	TN-101	TWA-130	
5TH AXIS TILTING	RTT-111,CA		



VF3

RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	
RBS SERIES	RBS-160			
TWA SERIES	TN-101	TWA-130	TWA-160	
5TH AXIS TILTING	RTT-111,CA			
TBS SERIES	TBS-130			

VF SERIES



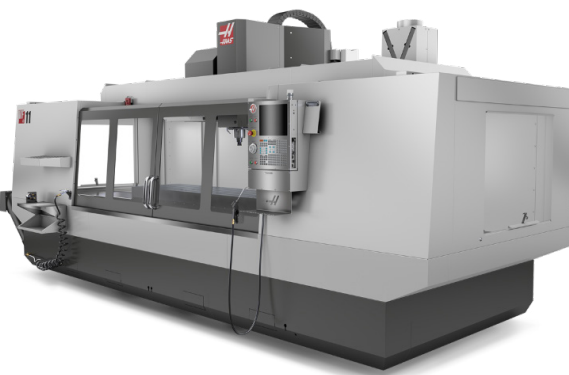
VF4				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	
RBS SERIES	RBS-160	RBS-250		
TBS SERIES	TBS-130			
TWA SERIES	TN-101	TWA-130	TWA-160	
5TH AXIS TILTING	RTT-111,CA			



VF5				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250	RBS-320	
TBS SERIES	TBS-130	TBS-160		
TWA SERIES	TN-101	TWA-130	TWA-160	TWA-200
5TH AXIS TILTING	RTT-111,CA			



VF6				
RWA SERIES	RWA-250	RWA-320		
RNCM SERIES	RNCM-401			
RWB SERIES	RWB-250	RWB-320	RWB-400	
RBS SERIES	RBS-160	RBS-250	RBS-320	
TBS SERIES	TBS-130	TBS-160		
TWA SERIES	TWA-160	TWA-200	TN-320	



VF7

RWA SERIES	RWA-250	RWA-320	
RBS SERIES	RBS-250	RBS-320	
RNCM SERIES	RNCM-401		
RWB SERIES	RWB-250	RWB-320	RWB-400
TWA SERIES	TWA-160	TWA-200	TN-320
TBS SERIES	TBS-130	TBS-160	

VF8/9

RWA SERIES	RWA-250	RWA-320	
RBS SERIES	RBS-250	RBS-320	
RNCM SERIES	RNCM-401		
RWB SERIES	RWB-250	RWB-320	RWB-400
TWA SERIES	TWA-160	TWA-200	TN-320
TBS SERIES	TBS-130	TBS-160	

VF10/11/12

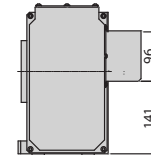
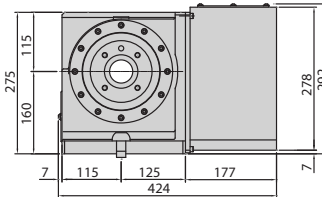
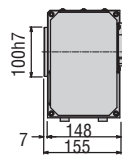
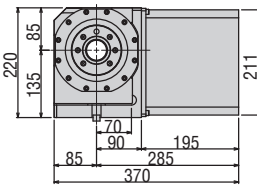
PLEASE CALL

ROTARY TABLE DIMENSIONS



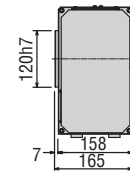
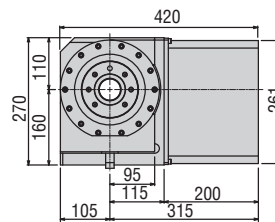
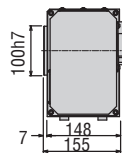
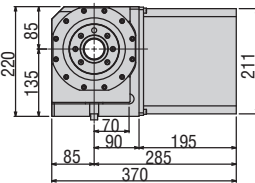
RWE, RWA & RBS Series (Drawings Not To Scale)

RWE-160



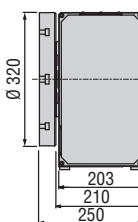
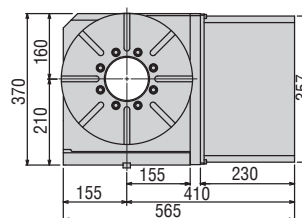
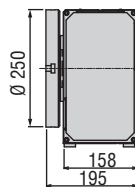
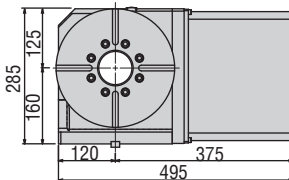
RWE-200

RWA-160



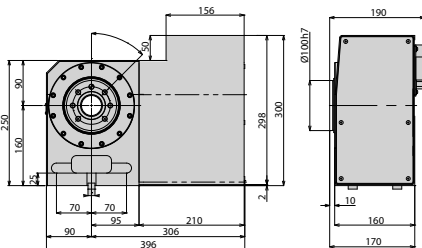
RWA-200

RWA-250

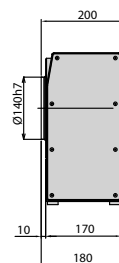
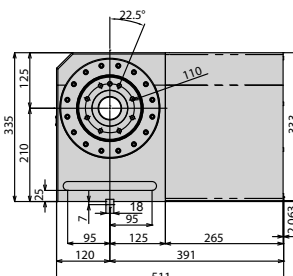


RWA-320

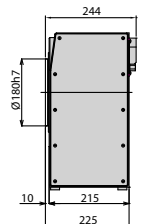
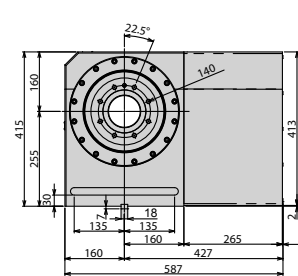
RBS-160



RBS-250



RBS-320

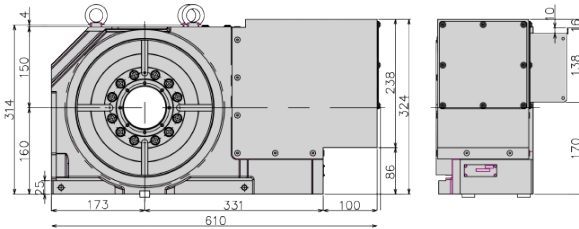


Please contact Koma Precision to confirm DMG Mori / Tsudakoma Rotary Table working envelope.

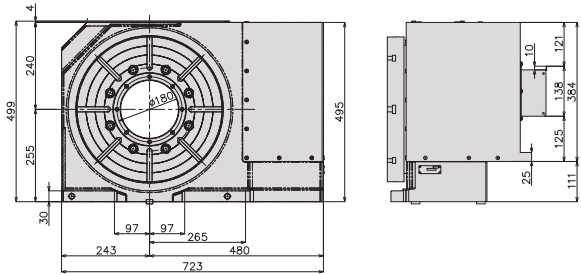
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RWB, RNCM & TBS-Series (Drawings Not To Scale)

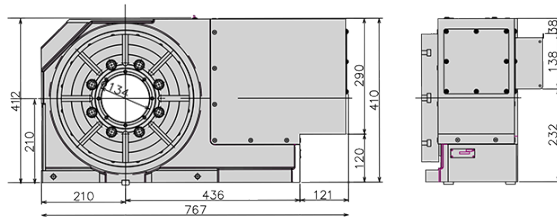
RWB-250



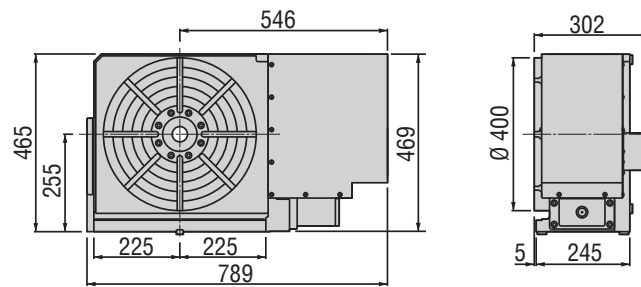
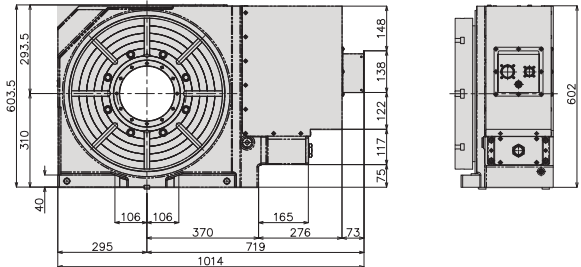
RWB-400



RWB-320

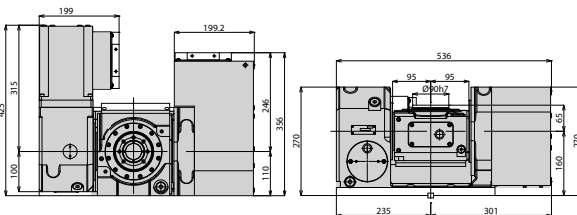


RWB-500

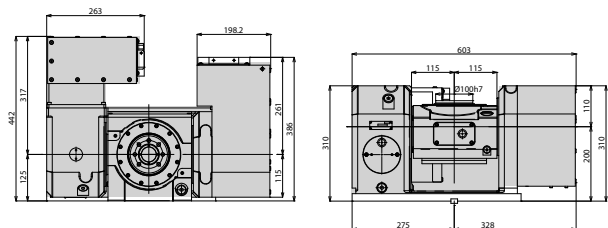


RNCM-401R

TBS-130



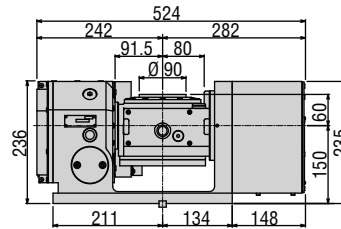
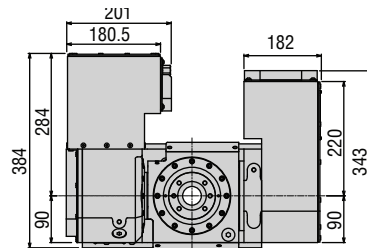
TBS-160



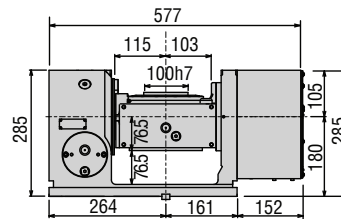
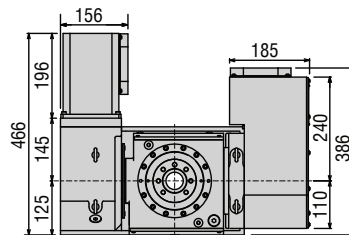
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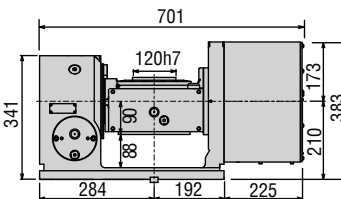
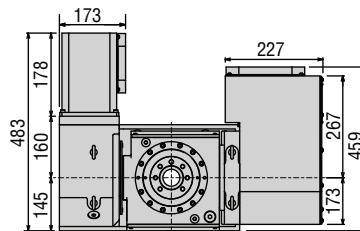
TWA-Series & RTT-111,CA (Drawings Not To Scale)



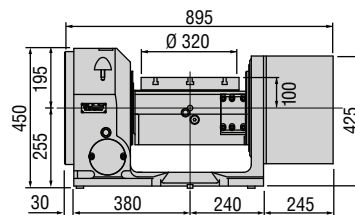
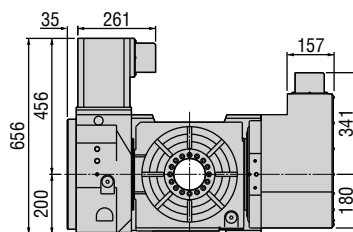
TWA-130



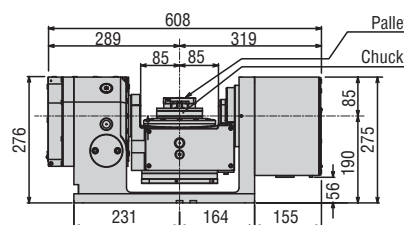
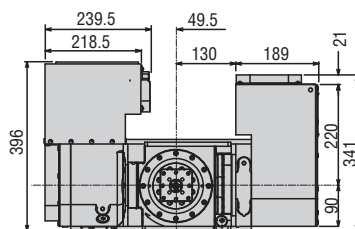
TWA-160



TWA-200



TN-320



RTT-111, CA

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RWE & RNCM-Series

Table Model		RWE-160	RWE-200	RNCM-401
Versions available		R, L	R, L	R,L
Spindle outer diameter		100h7	120h7	-
Table diameter (optional)		(160, 200)	(200, 250)	400
Center height		135	160	255
Center bore	Nose Diameter	55H7	65H7	40H7
	Thru Diameter	40	45	40
Table T-slot width (with face plate)		(12H8)	(12H8)	14H7
Guide block width		14h7	18h7	18h7
Servo motor (Fanuc)*		Alpha 2i	Alpha 4i	Alpha 12i
Maximum motor speed	rpm	5,000	5,000	4,000
Speed reduction ratio		1/72	1/72	1/180
Maximum table speed	rpm	69.4	69.4	22.2
Inertia converted into motor shaft	$\times 10^{-3} \text{kg}\cdot\text{m}^2$	.09	.17	2.05
Clamp system		Pneumatic Disc Clamp		Hydraulic
Clamp torque @72psi	Nm (ft. lbs.)	250 (180)	400 (295)	1,764 (1,300)
Indexing accuracy	arc sec.	± 12.5	± 10	± 7.5
Net Weight	kg (lbs.)	40 (88)	61 (135)	300 (660)
Allowable wheel torque	Nm (ft. lbs.)	206 (152)	288 (212)	1,666 (1,228)
Allowable work inertia	kg·m ²	.64	1.25	9.7
Allowable work weight	 kg (lbs) [w/ tailstock]	100 (220) [200 (441)]	125 (275) [250 (551)]	200 (440) [500 (1,100)]
	 kg (lbs)	-	-	500 (1,100)
Allowable load when table clamped	 N (lbf)	10,800 (2,419)	14,400 (3,226)	39,200 (8,781)
	 Nm (ft. lbs.)	500 (369)	800 (590)	1,764 (1,300)
	 Nm (ft. lbs.)	780 (575)	1,900 (1,400)	2,450 (1,806)

* Other motors & RPM available

** Booster optional

Dimensions = mm

Specifications subject to change without notice

RWA-Series

Table Model		RWA-160	RWA-200	RWA-250 (S)	RWA-320 (S)
Versions available		R, L	R, L	R, L	R, L
Spindle outer diameter		100h7	120h7	140h7	180h7
Table diameter (optional)		(160, 200)	(200, 250)	250	320
Center height		135	160	160	210
Center bore	Nose Diameter	55H7	65H7	80H7	115H7
	Thru Diameter	40	45	50	85
Table T-slot width (with face plate)		(12H8)	(12H8)	12H8	14H7
Guide block width		14h7	18h7	18h7	18h7
Servo motor (Fanuc)*		Alpha 2i	Alpha 4i	Alpha 8i (8is)	Alpha 8i (22is)
Maximum motor speed rpm		5,000	5,000	4,000 (4,000)	4,000 (3,000)
Speed reduction ratio		1/72	1/72	1/90 (1/45)	1/120 (1/45)
Maximum table speed rpm		69.4	69.4	44.4 (88.9)	33.3 (66.7)
Inertia converted into motor shaft $\times 10^{-3}\text{kg}\cdot\text{m}^2$		.09	.17	.41 (.44)	.52 (1.66)
Clamp system		Pneumatic Dual Taper			
Clamp torque @72psi Nm (ft. lbs.)		500 (369)	800 (590)	1,000 (737)	1,500 (1,106)
Indexing accuracy arc sec.		± 12.5	± 10	± 10	± 10
Net Weight kg (lbs.)		40 (88)	61 (135)	80 (176)	145 (319)
Allowable wheel torque Nm (ft. lbs.)		206 (152)	288 (212)	596 (439)	939 (692)
Allowable work inertia kg·m ²		.64	1.25	1.95	4.48
Allowable work weight	 kg (lbs) [w/ tailstock]	100 (220) [175 (385)]	125 (275) [250 (550)]	125 (275) [250 (550)]	175 (385) [375 (825)]
	 kg (lbs)	200 (440)	250 (550)	250 (550)	350 (770)
Allowable load when table clamped	 N (lbf)	10,800 (2,419)	14,400 (3,226)	14,400 (3,226)	24,800 (5,555)
	 Nm (ft. lbs.)	500 (369)	800 (590)	1,000 (737)	1,500 (1,106)
	 Nm (ft. lbs.)	780 (575)	1,900 (1,400)	1,900 (1,400)	4,700 (3,464)

* Other motors & RPM available

** Booster optional

Dimensions = mm

Specifications subject to change without notice

RWB-Series

Table Model			RWB-250	RWB-320	RWB-400
Versions available			R,L	R, L	R, L
Table diameter		mm	250	320	400
Center height		mm	160	210	255
Center bore	Nose Diameter	mm	105	150	200
	Thru Diameter	mm	80	120	160
Table T-slot width			12H7	14H7	14H7
Guide block width			18h7		
Servo motor (Fanuc)*			Alpha 8i	Alpha 12i	
Maximum motor speed		rpm	4,000		
Speed reduction ratio			1/90		
Maximum table speed		rpm	44.4		
Inertia converted into motor shaft x 10 ⁻³ kg·m²			1.27	3.53	4.63
Clamp system**			Hydraulic		
Clamp torque @500psi		Nm (ft. lbs.)	1,300 (958)	3,100 (2,284)	5,500 (4,053)
Indexing accuracy		arc sec.	±7		
Net Weight		kg (lbs.)	125 (286)	250 (550)	360 (792)
Allowable wheel torque		Nm (ft. lbs.)	1,011 (745)	2,127 (1,567)	3,958 (2,917)
Allowable work inertia		kg·m²	7.0	19.2	36
Allowable work weight		kg (lbs) [w/ tailstock]	175 (385) [350 (770)]	250 (550) [500 (1,100)]	300 (660) [600 (1,320)]
		kg (lbs)	350 (770)	1,100 (500)	1,320 (600)
Allowable load when table clamped		N (lbf)	35,000 (7,700)	89,000 (19,580)	109,000 (23,980)
		Nm (ft. lbs.)	1,300 (958)	3,100 (2,284)	5,500 (4,053)
		Nm (ft. lbs.)	1,500 (1,105)	5,300 (3,906)	7,800 (5,748)

* Other motors & RPM available

** Booster optional

Dimensions = mm

Specifications subject to change without notice

RBS-Series

Table Model		RBS-160	RBS-250	RBS-320
Versions available		R	R	R
Spindle outer diameter		100h7	140h7	180h7
Table diameter (optional)		(160, 200)	250	320
Center height		160	210	255
Center bore	Nose Diameter	55H7	80H7	115H7
	Thru Diameter	40	50	85
Table T-slot width (with face plate)		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		
Clamp torque @72psi Nm (ft. lbs.)		250 (180)	400 (295)	600 (442)
Indexing accuracy arc sec.		± 12.5	± 10	± 10
Net Weight kg (lbs.)		44 (97)	62 (136)	107 (235)
Allowable wheel torque Nm (ft. lbs.)		206 (152)	288 (212)	565 (416)
Allowable work inertia kg·m ²		.48	1.25	1.95
Allowable work weight		kg (lbs) [w/ tailstock] 75 (165) [150 (330)]	100 (220) [250 (550)]	100 (220) [250 (550)]
Allowable load when table clamped		N (lbf) 7,840 (1,762)	13,720 (3,085)	250 (550)
		Nm (ft. lbs.) 250 (180)	400 (295)	13,720 (3,073)
		Nm (ft. lbs.) 392 (290)	980 (723)	600 (442)

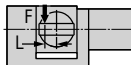
* Other motors & RPM available

** Booster optional

Dimensions = mm

Specifications subject to change without notice

TWA-Series

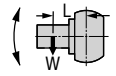
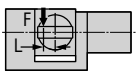
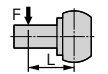
Model		TN-101		TWA-130		TWA-160		TWA-200		TN-320	
Tilt Range		-17° ~ +107°		-17° ~ +107°		-30° ~ +110°		-30° ~ +110°		-30° ~ +110°	
Spindle outer diameter		86h7		90h7		100h7		120h7		-	
Table diameter (optional)		(135)		(135)		160 (200)		200 (250)		320	
Table height at 0° position (with faceplate)		180 (205)		210 (235)		235 (260)		270 (300)		355	
Center height at 90° position		135		150		180		210		255	
Center bore	Nose Diameter (w/faceplate)	55H7 (40H7)		55H7 (40H7)		55H7 (50H7)		65H7 (60H7)		105H7	
	Thru Diameter	35		35		40		45		100	
Table T-slot width (with faceplate)		(12H8)		(12H8)		(12H8)		(12H8)		14H7	
Guide block width		14h7		14h7		18h7		18h7		18h7	
Servo motor (Fanuc)*		Rotary	Tilt	Rotary	Tilt	Rotary	Tilt	Rotary	Tilt	Rotary	Tilt
		Alpha 2i	Alpha 2i	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	5,000	5,000	4,000	4,000
Speed reduction ratio		1/60	1/120	1/60	1/120	1/72	1/120	1/45	1/90	1/120	1/240
Maximum table speed	rpm	83.3	41.7	83.3	41.7	69.4	41.7	111.1	55.5	33.3	16.7
Inertia converted into motor shaft	x 10 ⁻³ kg.m ²	.072	.078	.074	.072	.17	.18	.38	.45	.82	.45
Clamp system		Pneumatic		Pneumatic Dual Taper						Hydraulic @500 psi**	
Clamp torque @72psi	Nm (ft. lbs.)	200 (147)	300 (221)	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	-	±20	-	±15	-	±15	-	±10	-
Tilting accuracy	arc sec.	-	±22.5	-	±22.5	-	±22.5	-	±22.5	-	±22.5
Net Weight	kg (lbs.)	65 (143)		76 (167)		127 (279)		190 (418)		440 (968)	
Allowable wheel torque - rotary	Nm (ft. lbs.)	152 (112)		152 (112)		200 (147)		450 (332)		931 (686)	
Allowable work inertia	kg.m ²	.08		.08		.19		.59		1.53	
Allowable work weight	0° tilt angle 	kg (lbs)	35 (77)	35 (77)	35 (77)	60 (132)	120 (264)	150 (330)			
	0° ~ 90° tilt angle 	kg (lbs)	20 (44)	20 (44)	20 (44)	40 (88)	70 (154)	100 (220)			
Allowable work moment	 Nm (ft. lbs.)	24 (17.7)	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)	3,920 (878)	7,840 (1,756)	13,720 (3,073)	19,600 (4,390)					
	 Nm (ft. lbs.)	200 (147)	500 (369)	500 (369)	800 (590)	2,200 (1,621)					
	 Nm (ft. lbs.)	300 (221)	500 (369)	800 (590)	1,000 (737)	2,200 (1,621)					

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

ROTARY TABLE SPECIFICATIONS



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		225 (250 w/faceplate)		270 (300 w/faceplate)		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		--	
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	.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)
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



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