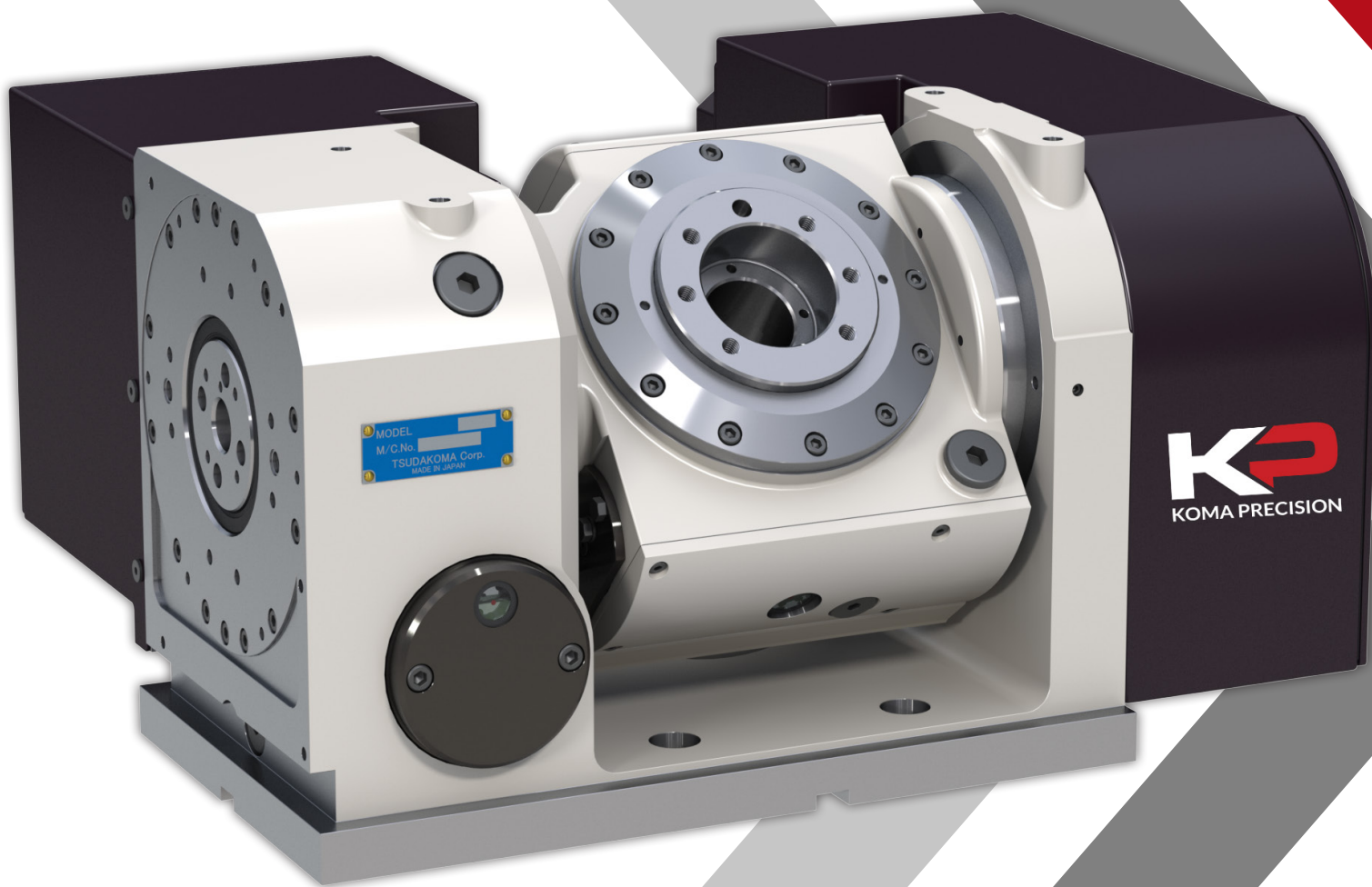




DOOSAN
MACHINE TOOLS
AMERICA



TSUDAKOMA

Rotary Table

Selection Guide

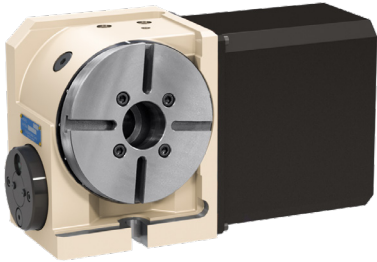
KOMA PRECISION

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.



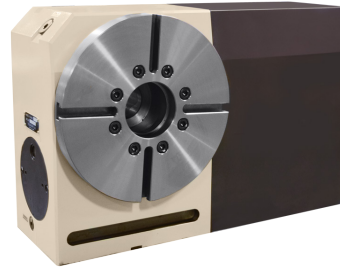
ROTARY TABLES



RWE SERIES



RWA SERIES



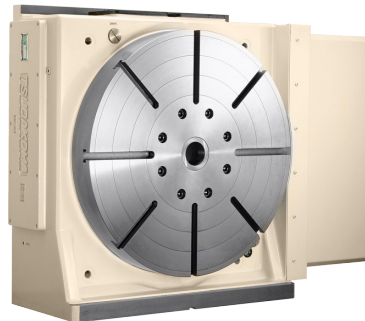
RBS SERIES



RWB SERIES



RN-MULTI SERIES



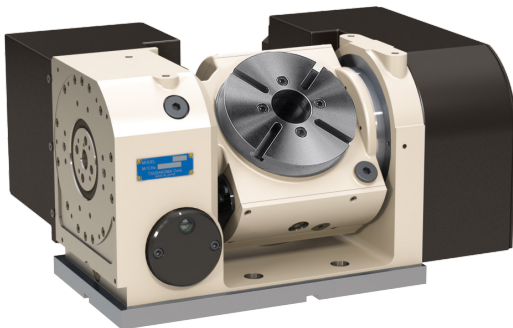
RNCM SERIES



RNCK SERIES



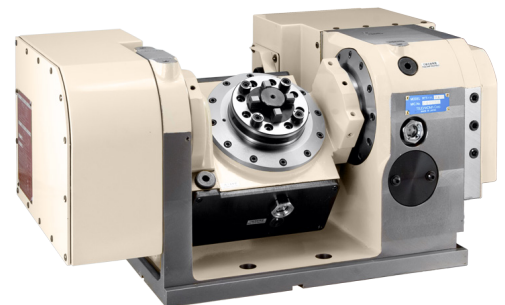
RWB-K SERIES



TWA SERIES



TBS SERIES



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



DNM-4000 / 4500 / 4500S				
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	TWA-200	
TBS SERIES	TBS-130	TBS-160		
5th AXIS TILTING	RTT-111, CA			



DNM-5700 / 5700S				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250		
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			



DNM-6700				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250		
RNCM SERIES	RNCM-401R			
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		



DNM-750 (L) II				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250	RBS-320	
RNCM SERIES	RNCM-401R	RNCM-501R		
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		

DOOSAN MYNX SERIES



MYNX 5400				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
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		
5th AXIS TILTING	RTT-111, CA			



MYNX 6500				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250		
RWB SERIES	RWB-320R			
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		



MYNX 7500				
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-320R	RWB-400R		
RNCM SERIES	RNCM-401R			
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		



MYNX 9500				
Please Call				



VCF 850				
Please Call				



VC 3600



NHM 5000

VC 3600			
RWE SERIES	RWE-160		
RWA SERIES	RWA-160		
VC 430 / 510			
RWE SERIES	RWE-160	RWE-200	
RWA SERIES	RWA-160	RWA-200	
DMP 2SP			
Please Call			

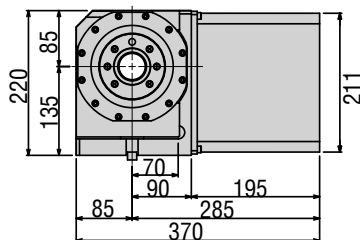
HC 400			
RWB-K SERIES	RWB-250K		
NHP 4000			
RWB-K SERIES	RWB-250K		
NHP 5000 / 5500			
RWB-K SERIES	RWB-250K	RWB-320K	RWB-400K
NHP 6300			
RWB-K SERIES	RWB-320K	RWB-400K	RWB-500K
RNCK SERIES	RNCK-631		
NHP 8000			
RWB-K SERIES	RWB-400K	RWB-500K	
RNCK SERIES	RNCK-631		
NHM 5000			
RWB-K SERIES	RWB-250K	RWB-320K	RWB-400K
NHM 6300			
RWB-K SERIES	RWB-250K	RWB-320K	RWB-400K
NHM 8000			
RWB-K SERIES	RWB-320K	RWB-400K	RWB-500K
RNCK SERIES	RNCK-631		
HM 1000 / 1250 / 1250W			
Please Call			

ROTARY TABLE DIMENSIONS

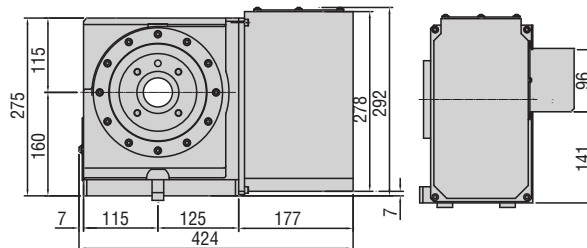
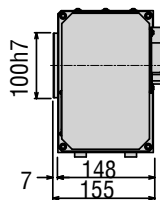


RWE & RWA Series

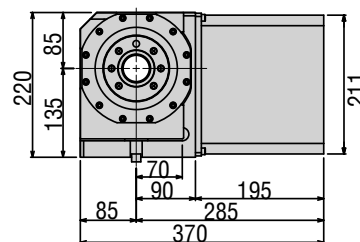
(Drawings Not To Scale)



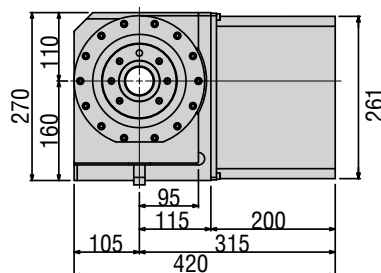
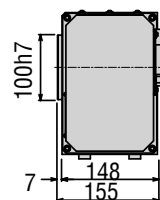
RWE-160



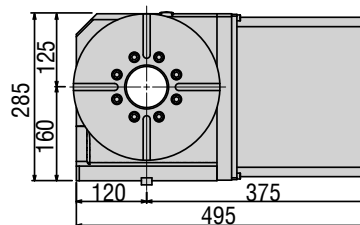
RWE-200



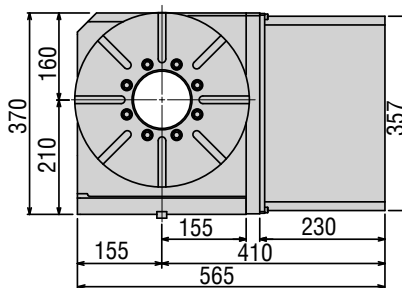
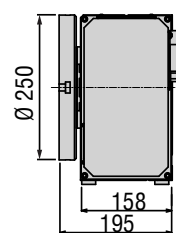
RWA-160



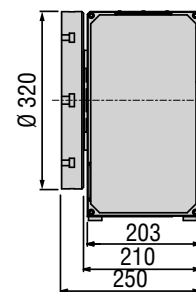
RWA-200



RWA-250



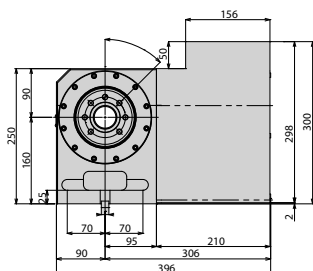
RWA-320



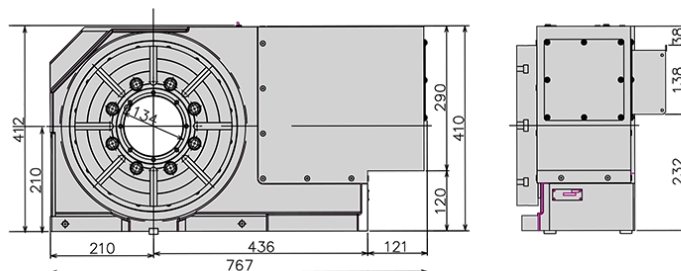
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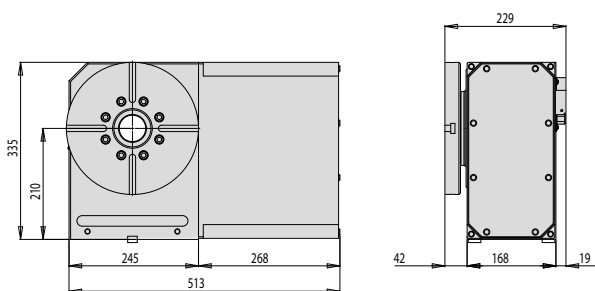
RBS, & RWB Series (Drawings Not To Scale)



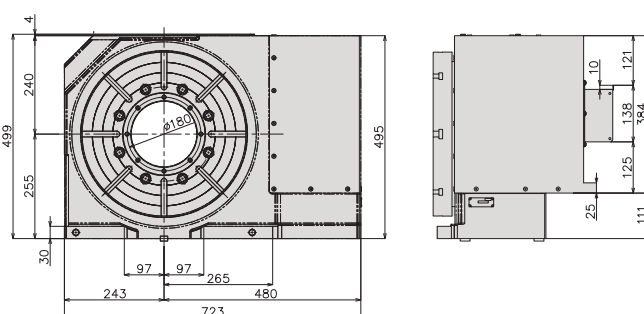
RBS-160



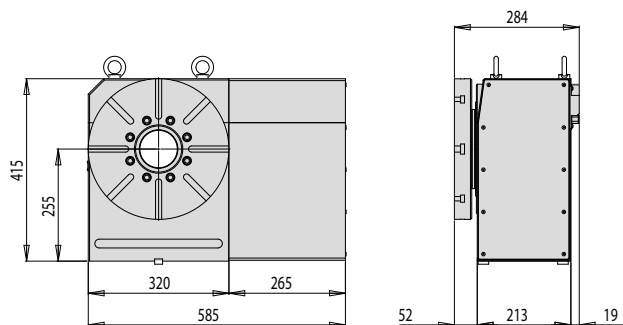
RWB-320R



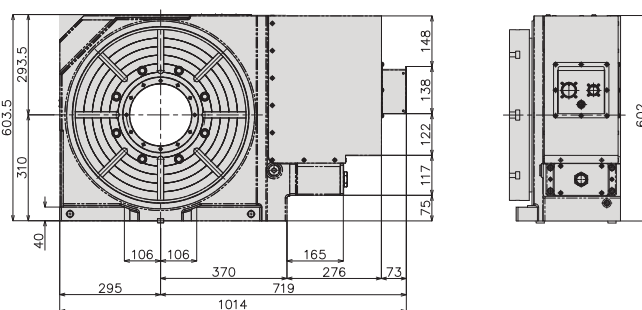
RBS-250



RWB-400R



RBS-320



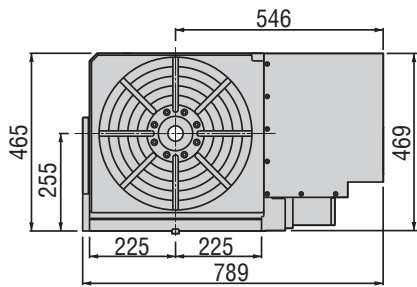
RWB-500R

ROTARY TABLE DIMENSIONS

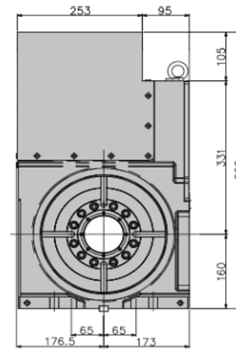
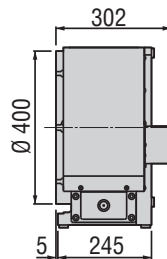


RNCM & RWB-K Series

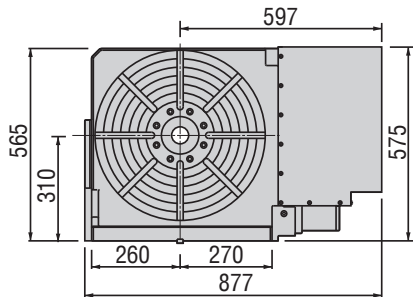
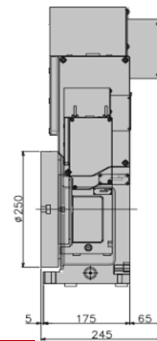
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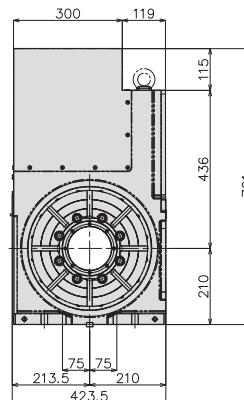
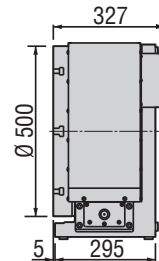
RNCM-401R



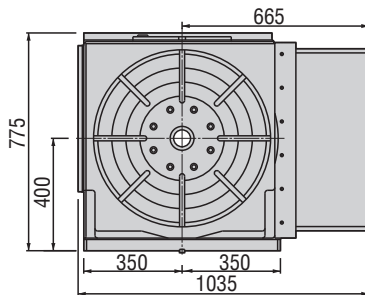
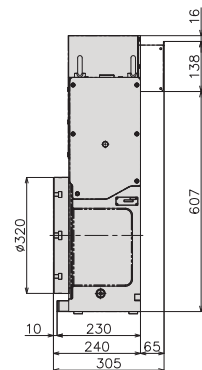
RWB-250K



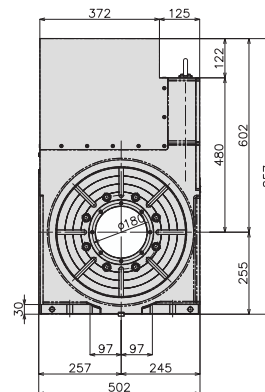
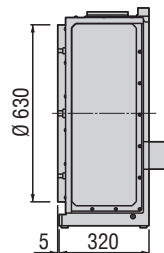
RNCM-501R



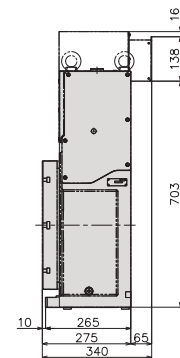
RWB-320K



RNCM-631R



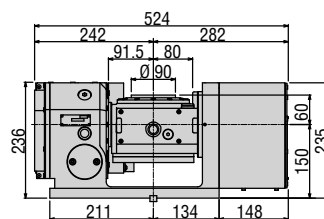
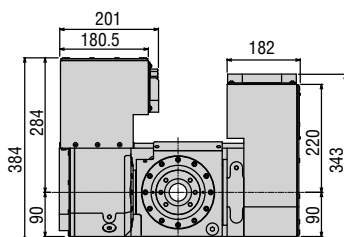
RWB-400K



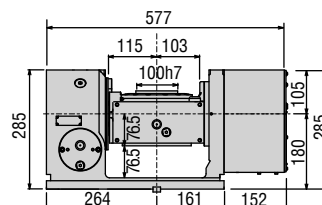
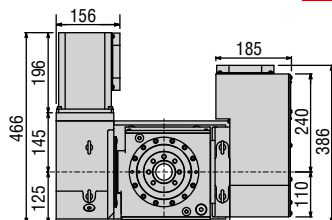
Please contact Koma Precision to confirm Tsudakoma Rotary Table working envelope.

TWA & TBS Series

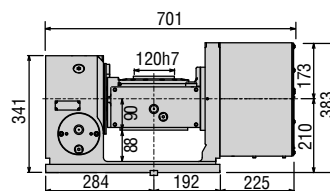
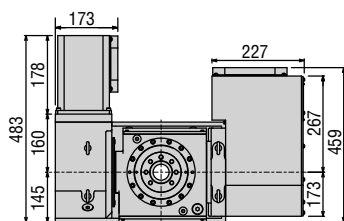
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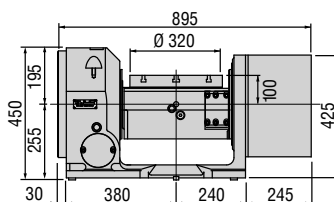
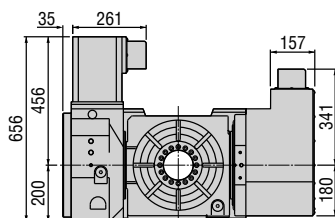
TWA-130



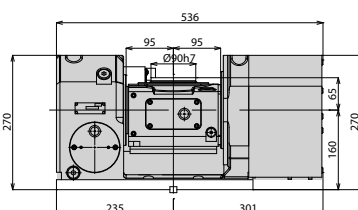
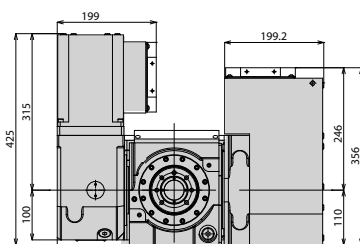
TWA-160



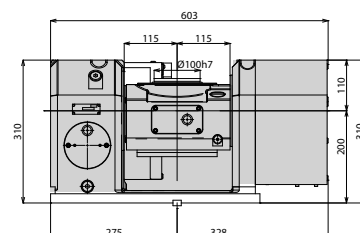
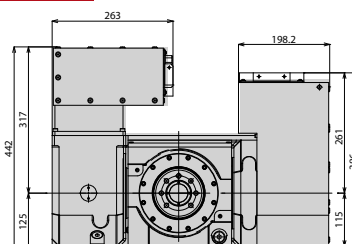
TWA-200



TN-320



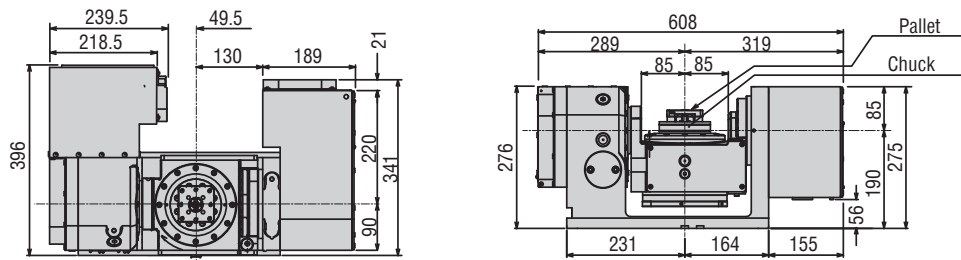
TBS-130



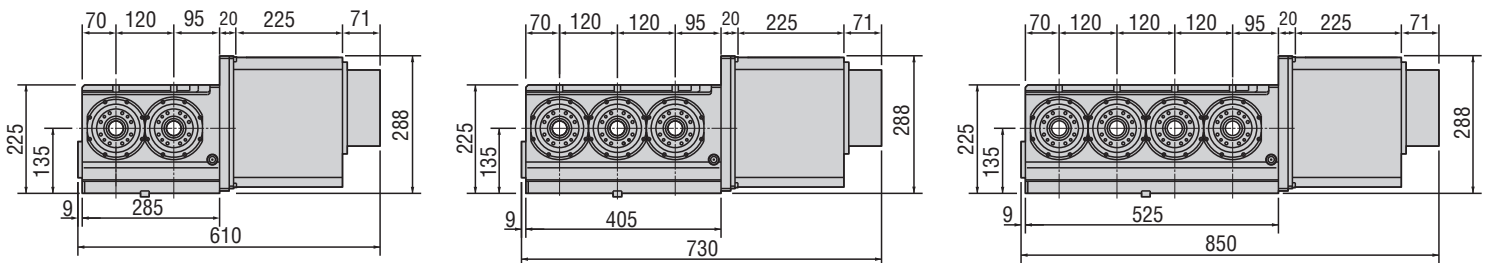
TBS-160

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



RTT-111 CA



RN-100R-2,3,4

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

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	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

** Booster optional

Dimensions = mm

Specifications subject to change without notice

ROTARY TABLE SPECIFICATIONS



RBS & RWB-Series

Table Model		RBS-160	RBS-250	RBS-320	RWB-320	RWB-400	RWB-500
Versions available		R	R	R	R, L	R, L	R, L
Spindle outer diameter	mm	100h7	140h7	180h7	--		
Table diameter	mm	(160, 200)	250	320	320	400	500
Center height	mm	160	210	255	210	255	310
Center bore	Nose Diameter	mm	55H7	80H7	115H7	150	200
	Thru Diameter	mm	40	50	85	120	160
Table T-slot width		12H8	12H8	14H8	14H7	14H7	18H7
Guide block width		14h7	18h7	18h7	18h7		
Servo motor (Fanuc)*		Alpha 4i	Alpha 8i	Alpha 12i	Alpha 12i	Alpha 12i	Alpha 12i
Maximum motor speed	rpm	5,000	4,000	4,000	4,000	4,000	4,000
Speed reduction ratio		1/36	1/36	1/36	1/90	1/90	1/180
Maximum table speed	rpm	138.9	111.1	111.1	44.4	44.4	22.2
Inertia converted into motor shaft	$\times 10^{-3}\text{kg}\cdot\text{m}^2$	0.19	0.42	2.24	3.53	4.63	3.00
Clamp system**		Pneumatic			Hydraulic		
Clamp torque @500psi	Nm (ft. lbs.)	-	-	-	3,100 (2,284)	5,500 (4,053)	6,100 (4,496)
Indexing accuracy	arc sec.	± 7.5	± 7.5	± 7.5	± 7		
Net Weight	kg (lbs.)	55 (121.2)	100 (220)	200 (440)	250 (550)	360 (792)	620 (1,364)
Allowable wheel torque	Nm (ft. lbs.)	--			2,127 (1,567)	3,958 (2,917)	3,276 (2,414)
Holding torque @72psi	Nm (ft. lbs.)	700 (516)	1480 (1076)	2580 (1901)	--		
Allowable work inertia	$\text{kg}\cdot\text{m}^2$	0.48	1.95	4.48	19.2	36	112
Allowable work weight	 kg (lbs) [w/ tailstock]	100 (200) [200 (440)]	125 (275) [250 (550)]	175 (385) [350 (770)]	550 (250) [1,100 (500)]	660 (300) [1,320 (600)]	1,320 (600) [2,460 (1,200)]
	 kg (lbs)	200 (440)	250 (550)	350 (770)	1,100 (500)	1,320 (600)	2,640 (1,200)
Allowable load when table clamped	 N (lbf)	10,800 (2,419)	14,400 (3,226)	24,800 (5,555)	89,000 (19,580)	109,000 (23,980)	240,000 (52,800)
	 Nm (ft. lbs.)	500 (369)	1,000 (737)	1,500 (1,106)	3,100 (2,284)	5,500 (4,053)	7,600 (5,601)
	 Nm (ft. lbs.)	780 (575)	1,900 (1,400)	4,700 (3,464)	5,300 (3,906)	7,800 (5,748)	17,000 (12,529)

* Other motors & RPM available

** Booster optional

Dimensions = mm

Specifications subject to change without notice



ROTARY TABLE SPECIFICATIONS

RNCM & RWB-K Series

Table Model		RNCM-401	RNCM-501	RNCM-631	RWB-250K	RWB-320K	RWB-400K
Versions available		R, L	R, L	R, L	K	K	K
Table diameter	mm	400	500	630	250	320	400
Center height	mm	255	310	400	160	210	255
Center bore Nose Diameter	mm	40H7	50H7	60H6	105	150	200
Center bore Thru Diameter	mm	40	50	60	80	120	160
Table T-slot width		14H7	18H7	18H7	12H7	14H7	14H7
Guide block width		18h7					
Servo motor (Fanuc)*		Alpha 12i	Alpha 12i	Alpha 12i	Alpha 8i	Alpha 12i	Alpha 12i
Maximum motor speed	rpm	4,000	4,000	4,000	4,000	4,000	4,000
Speed reduction ratio		1/180	1/180	1/180	1/90	1/90	1/90
Maximum table speed	rpm	22.2	22.2	22.2	44.4	44.4	44.4
Inertia converted into motor shaft	$\times 10^{-3}\text{kg}\cdot\text{m}^2$	2.05	3.09	5.55	1.27	3.53	4.63
Clamp system**		Hydraulic					
Clamp torque @500psi	Nm (ft. lbs.)	1,764 (1,300)	2,450 (1,806)	4,410 (3,250)	1,300 (958)	3,100 (2,284)	5,500 (4,053)
Indexing accuracy	arc sec.	± 7.5			± 7		
Net Weight	kg (lbs.)	300 (660)	450 (990)	800 (1,760)	125 (286)	250 (550)	360 (792)
Allowable wheel torque	Nm (ft. lbs.)	1,666 (1,228)	2,450 (1,805)	4,116 (3,033)	1,011 (745)	2,127 (1,567)	3,958 (2,917)
Allowable work inertia	$\text{kg}\cdot\text{m}^2$	9.7	18.2	39.7	7.0	19.2	36.0
Allowable work weight	 kg (lbs) [w/ tailstock]	200 (440) [500 (1,100)]	250 (550) [600 (1,320)]	400 (880) [1000 (1,760)]	175 (385) [250 (550)]	250 (550) [500 (1,100)]	300 (660) [600 (1,320)]
	 kg (lbs)	500 (1,100)	600 (1,320)	1,000 (2,200)	-	-	-
Allowable load when table clamped	 N (lbf)	39,200 (8,781)	49,000 (10,976)	49,000 (10,976)	35,000 (7,700)	89,000 (19,580)	109,000 (23,980)
	 Nm (ft. lbs.)	1,764 (1,300)	2,450 (1,806)	4,410 (3,250)	1,300 (958)	3,100 (2,284)	5,500 (4,053)
	 Nm (ft. lbs.)	2,450 (1,806)	3,430 (2,528)	7,840 (5,778)	1,500 (1,105)	5,300 (3,906)	7,800 (5,748)

* Other motors & RPM available

** Booster optional

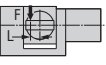
Dimensions = mm

Specifications subject to change without notice

ROTARY TABLE SPECIFICATIONS



TWA, TBS Series & RTT-111,CA

Table Model		TWA-130		TWA-160		TWA-200		TN-320		TBS-130		TBS-160		RTT-111, CA	
Tilt Range		-17° ~ +107°		-30° ~ +110°		-30° ~ +110°		-30° ~ +110°		-30° ~ +110°		-30° ~ +110°		-17° ~ +107°	
Spindle outer diameter		90h7		100h7		120h7		-		90h7		100h7		-	
Table diameter (optional)		(135)		160 (200)		200 (250)		320		(135)		(160 or 200)		-	
Table height at 0° position		210 (235 w/face plate)		235 (260 w/face plate)		270 (300 w/face plate)		355		225 (250 w/faceplate)		270 (300 w/faceplate)		190	
Center height at 90° position		150		180		210		255		160		200		190	
Center bore	Nose Diameter (w/face plate)	55H7 (40H7)		55H7 (50H7)		65H7 (60H7)		105H7		55H7 (40H7)		55H7 (50H7)		-	
	Thru Diameter	35		40		45		102		40		40		-	
Table T-slot width		12H8 (w/face plate)		12H8 (w/face plate)		12H8 (w/face plate)		14H7		12H8		12H8		-	
Guide block width		14h7		18h7		18h7		18h7		14 h7		18h7		14H7	
Servo motor (Fanuc)*		Rotary	Tilt	Rotary	Tilt	Rotary	Tilt	Rotary	Tilt	Rotary	Tilt	Rotary	Tilt	Rotary	Tilt
		Alpha 2i	Alpha 2i	Alpha 2i	Alpha 2i	Alpha 4i	Alpha 4i	Alpha 8i	Alpha 8i	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	4,000	4,000	5,000	5,000	5,000	5,000	5,000	5,000
Speed reduction ratio		1/60	1/120	1/72	1/120	1/45	1/90	1/120	1/240	1/48	1/60	1/60	1/60	1/60	1/120
Maximum table speed	rpm	83.3	41.7	69.4	41.7	111.1	111.1	33.3	16.7	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	.38	.45	.82	.45	.074	.072	.17	.18	.074	.072
Clamp system		Pneumatic Dual Taper						Hydraulic @500 psi**		Pneumatic				Pneumatic Dual Taper	
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]]	700 (516)	700 (516)	700 (516)	700 (516)	500 (369)	500 (369)
Indexing accuracy	arc sec.	±20	-	±15	-	±15	-	±10	-	±10	-	±10	-	±15	-
Tilting accuracy	arc sec.	-	±22.5	-	±22.5	-	±22.5	-	±22.5	-	±17.5	-	±17.5	-	±30
Net Weight	kg (lbs.)	76 (167)		127 (279)		190 (418)		440 (968)		125 (276)		160 (353)		98(216)	
Allowable wheel torque - rotary	Nm (ft. lbs.)	152 (112)		200 (147)		450 (332)		931 (686)		-		-		152(112)	
Allowable work inertia	kg·m ²	.08		.19		.59		1.53		.08		.19		.08	
Allowable work weight	0° tilt angle 	kg (lbs)	35 (77)	60 (132)		120 (264)		150 (330)		35 (77)		60 (132)		35 (77)	
	0° ~ 90° tilt angle 	kg (lbs)	20 (44)	40 (88)		70 (154)		100 (220)		20 (44)		40 (88)		20 (44)	
Allowable work moment		Nm (ft. lbs.)	24 (17.7)	39.2 (28.9)		53.7 (39.6)		163.3 (120.4)		61.1		59.6		57 (42)	
Allowable load when table clamped		N (lbf)	3,920 (878)	7,840 (1,756)		13,720 (3,073)		19,600 (4,390)		3,920 (878)		10,800		3,920 (878)	
		Nm (ft. lbs.)	500 (369)	500 (369)		800 (590)		2,200 (1,621)		700 (516)		700 (516)		500 (369)	
		Nm (ft. lbs.)	500 (369)	800 (590)		1,000 (737)		2,200 (1,621)		700 (516)		700 (516)		500 (369)	

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



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