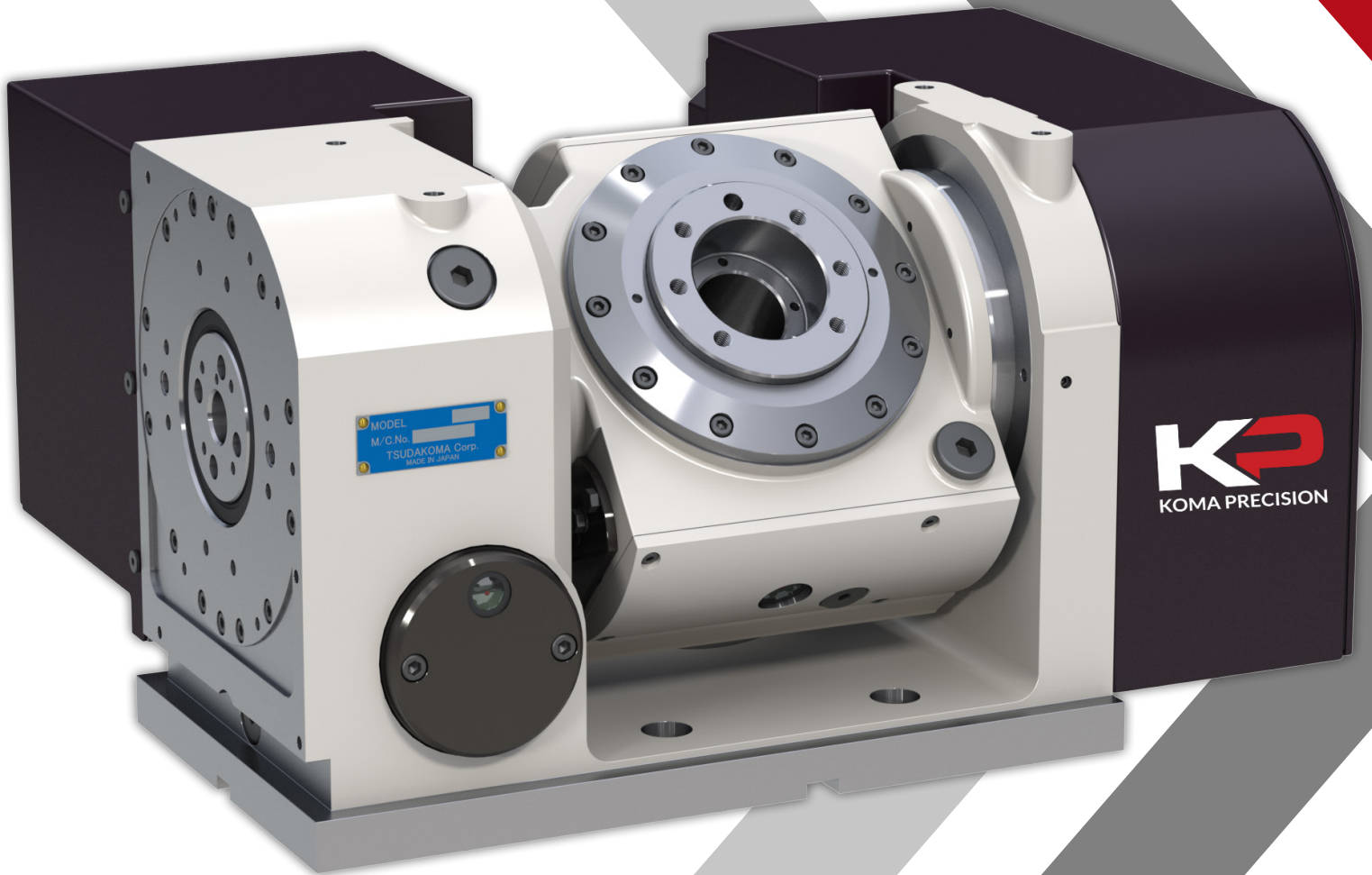




TSUDAKOMA

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.



DMQP PROGRAM



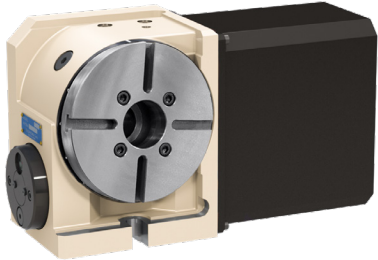
Every CNC accessory that is used on a DMG Mori machine - whether it's a machining center, lathe or multi-axis machine - needs to work at peak performance. That is why DMG/Mori has created the Qualified Products program. The DMQP program identifies suppliers that offer qualified products that meet their standards for performance.

Koma Precision is pleased to be a part of the DMQP program with both Tsudakoma Rotary Tables and Alberti Live Tooling being considered qualified products.

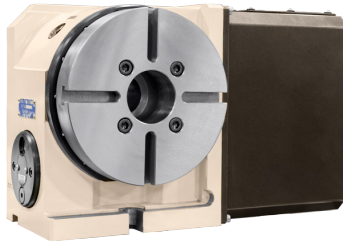
By ordering Tsudakoma Rotary Tables or Alberti Live Tooling through your trusted distributor, you can be assured that you are getting quality products that will provide exceptional results.



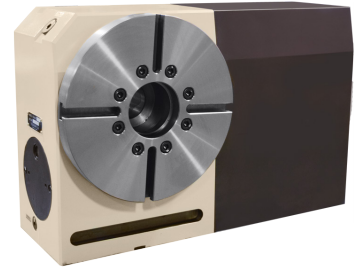
ROTARY TABLES



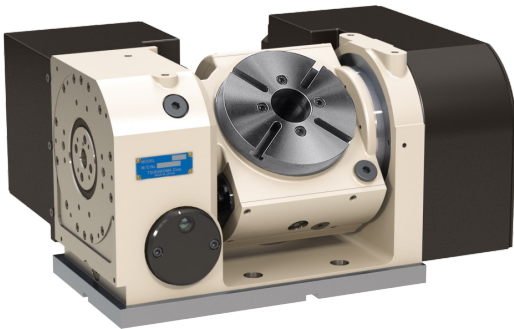
RWE SERIES



RWA SERIES



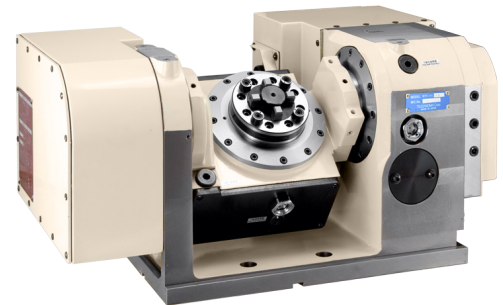
RBS SERIES



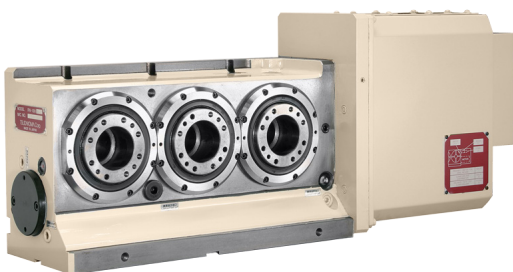
TWA SERIES



TBS SERIES



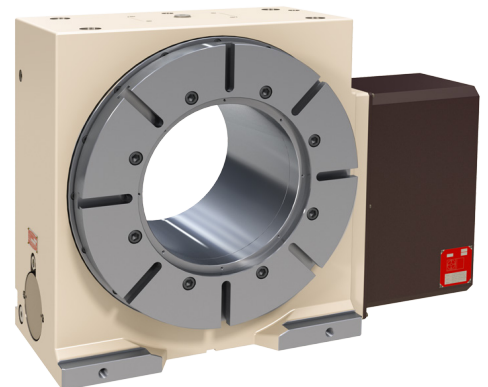
**5TH AXIS TILTING
RTT-111, CA**



RN-MULTI SERIES



RWB SERIES

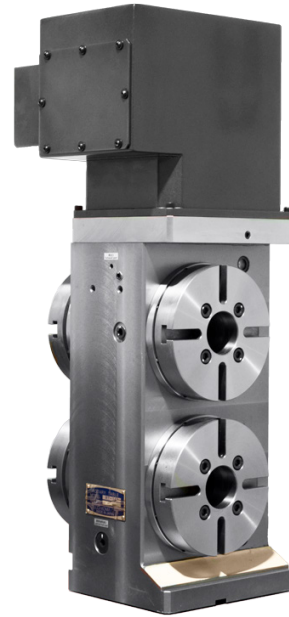


RCB SERIES

ROTARY TABLES



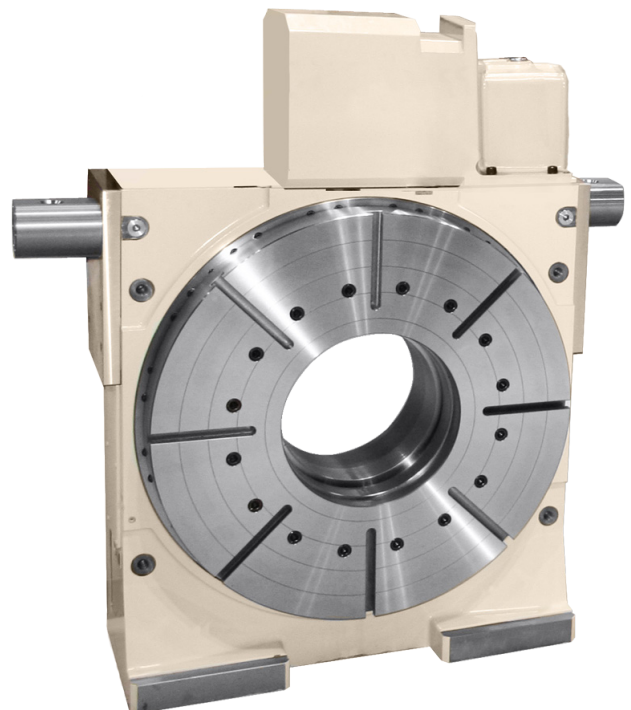
RWB-K SERIES



RT SERIES



RNCK SERIES



RCV SERIES



CMX 600 V

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		
5th AXIS TILTING	RTT-111, CA			



CMX 800 V / CMX 1100 V

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			

NVX SERIES



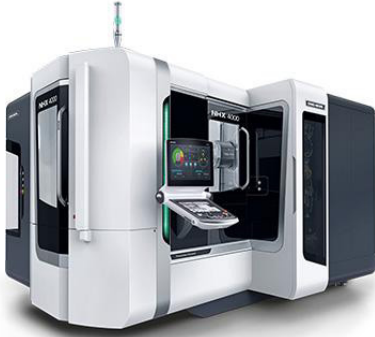
NVX 5060				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	
RBS SERIES	RBS-160	RBS-250		
RN MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4	
TWA SERIES	TWA-130	TWA-160		
TBS SERIES	TBS-130	TBS-160		
5th AXIS TILTING	RTT-111, CA			



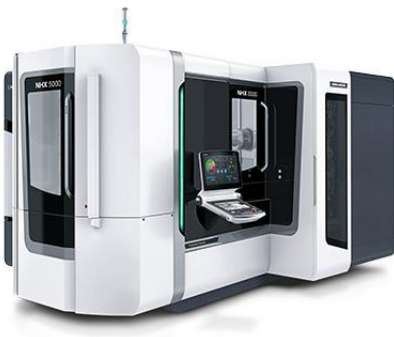
NVX 5080 / NVX 5100				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250		
RN MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4	
TWA SERIES	TWA-130	TWA-160	TWA-200	
TBS SERIES	TBS-130	TBS-160		
5th AXIS TILTING	RTT-111, CA			



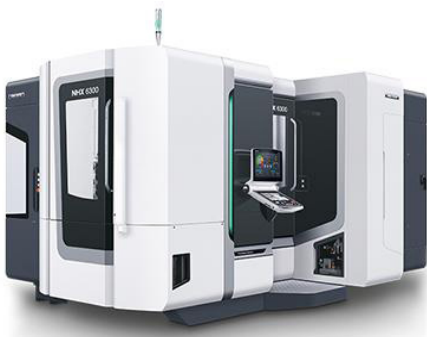
NVX 7000				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250	RBS-320	
RWB SERIES	RWB-400	RWB-500		
RCB SERIES	RCB-350	RCB-450		
RN MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4	
TWA SERIES	TWA-130	TWA-160	TWA-200	TN-320
TBS SERIES	TBS-130	TBS-160		
5th AXIS TILTING	RTT-111, CA			



NHX 4000			
RWB-K SERIES	RWB-250K	RWB-320K	
RWB K-2 SERIES	RWB-250K-2		
RT SERIES	RT-147		

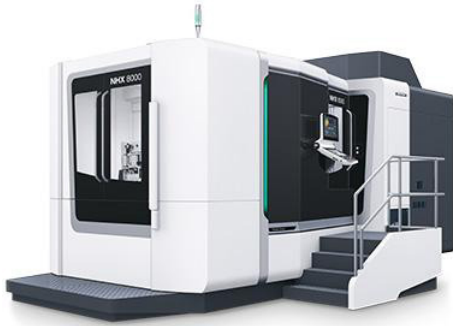


NHX 5000 / NHX 5500				
RWB-K SERIES	RWB-250K	RWB-320K	RWB-400K	
RWB K-2 SERIES	RWB-250K-2	RWB-320K-2		
RT SERIES	RT-147			

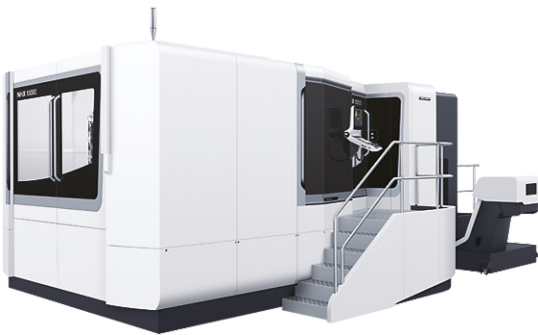


NHX 6300				
RWB-K SERIES	RWB-250K	RWB-320K	RWB-400K	RWB-500K
RWB K-2 SERIES	RWB-250K-2	RWB-320K-2	RWB-400K-2	
RT SERIES	RT-147	RT-251		

NHX SERIES



NHX 8000				
RNCK SERIES	RNCK-631			
RWB-K SERIES	RWB-250K	RWB-320K	RWB-400K	RWB-500K
RWB K-2 SERIES	RWB-250K-2	RWB-320K-2	RWB-400K-2	
RT SERIES	RT-147	RT-251	RT-320	



NHX 10000				
RNCK SERIES	RNCK-631			
RWB-K SERIES	RWB-250K	RWB-320K	RWB-400K	RWB-500K
RWB K-2 SERIES	RWB-250K-2	RWB-320K-2	RWB-400K-2	
RCV-K SERIES	RCV-800K			
RT SERIES	RT-147	RT-251		



DMF 180

RWB SERIES	RWB-320	RWB-400	RWB-500	
RCB SERIES	RCB-350	RCB-450	RCB-550	RCB-800
RNCM SERIES	RNCM-631			
RCV SERIES	RCV-800			



DMF 260-7

RWB SERIES	RWB-320	RWB-400	RWB-500	
RCB SERIES	RCB-350	RCB-450	RCB-550	RCB-800
RNCM SERIES	RNCM-631			
RCV SERIES	RCV-800			



DMF 260-11

RWB SERIES	RWB-320	RWB-400	RWB-500	
RCB SERIES	RCB-350	RCB-450	RCB-550	RCB-800
RNCM SERIES	RNCM-631			
RCV SERIES	RCV-800			



DMF 360

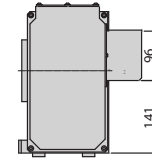
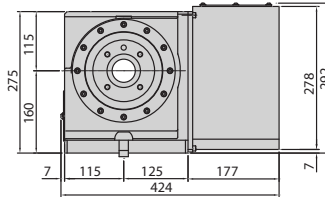
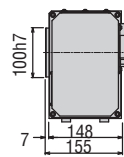
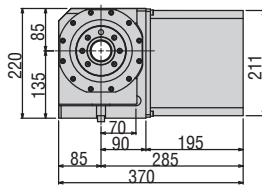
RWB SERIES	RWB-320	RWB-400	RWB-500	
RCB SERIES	RCB-350	RCB-450	RCB-550	RCB-800
RNCM SERIES	RNCM-631			
RCV SERIES	RCV-800			

ROTARY TABLE DIMENSIONS



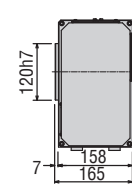
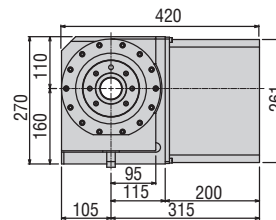
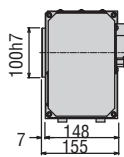
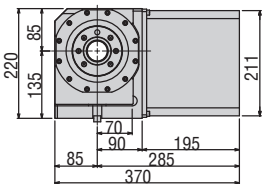
RWE, RWA & RBS-Series (Drawings Not To Scale)

RWE-160



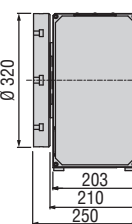
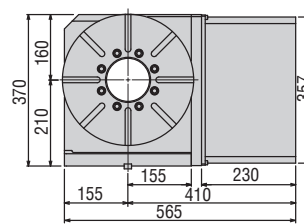
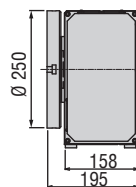
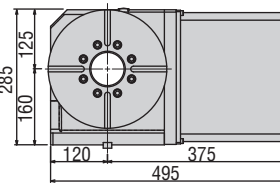
RWE-200

RWA-160



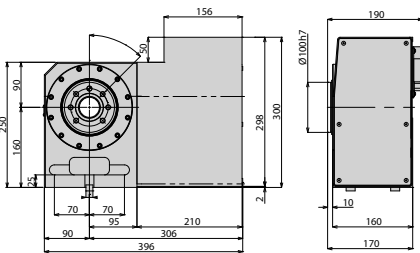
RWA-200

RWA-250

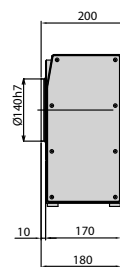
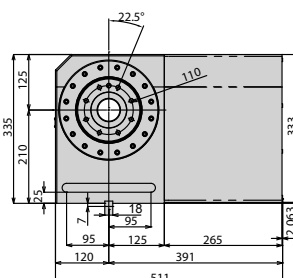


RWA-320

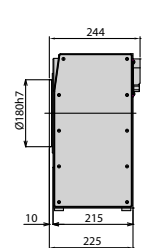
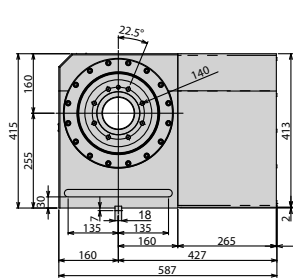
RBS-160



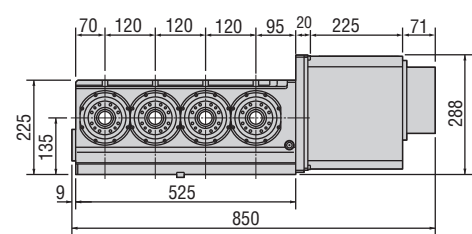
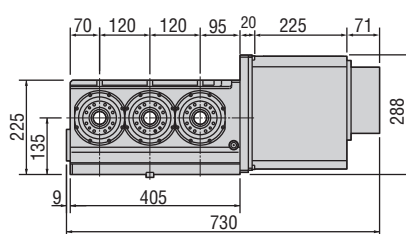
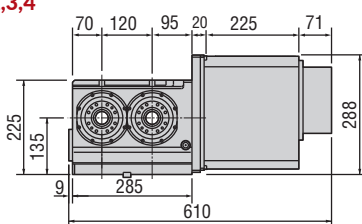
RBS-250



RBS-320



RN-100R-2,3,4

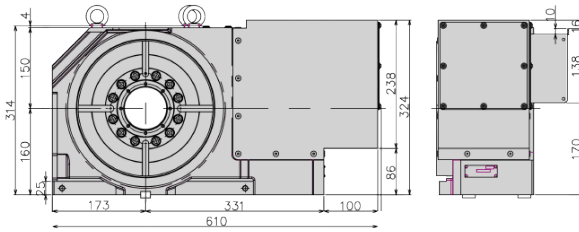


Please contact Koma Precision to confirm DMG Mori / Tsudakoma Rotary Table working envelope.

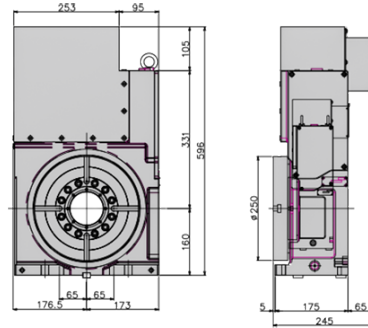
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RWB & RWB,K-Series (Drawings Not To Scale)

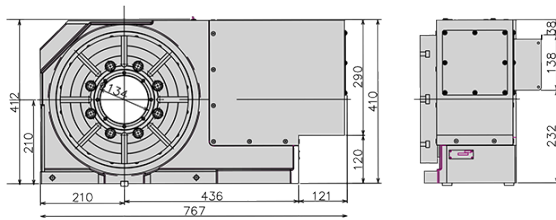
RWB-250



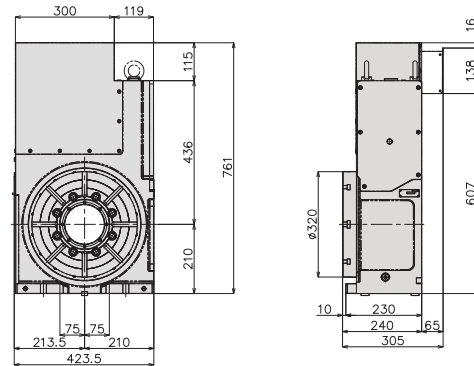
RWB-250K



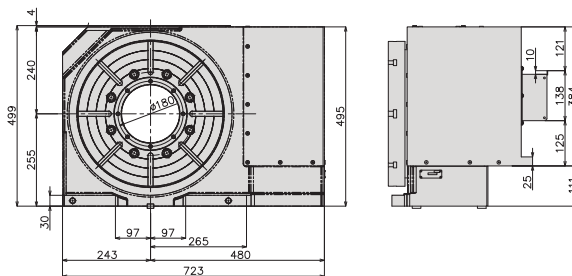
RWB-320



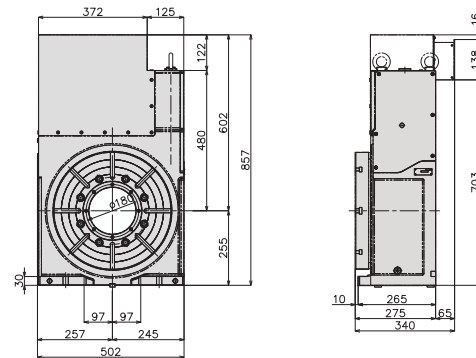
RWB-320K



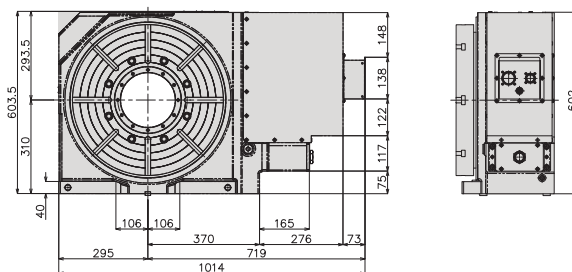
RWB-400



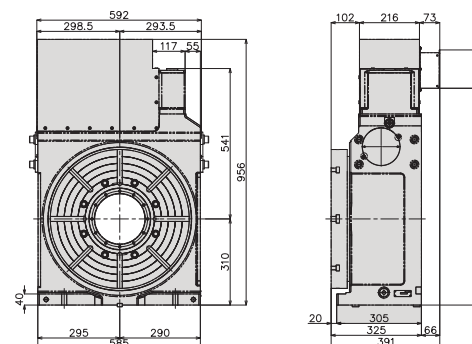
RWB-400K



RWB-500



RWB-500K



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

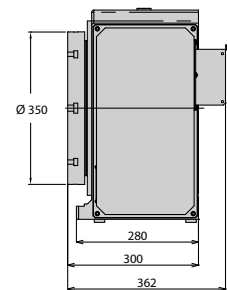
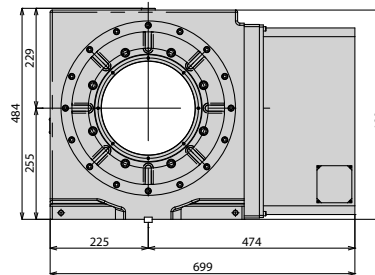
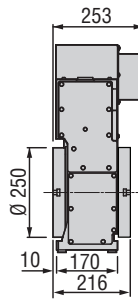
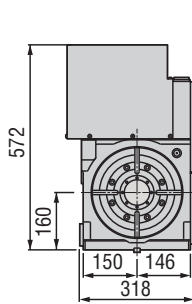
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ROTARY TABLE DIMENSIONS



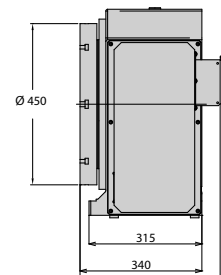
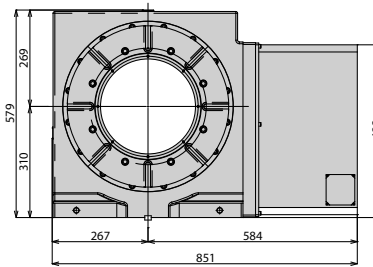
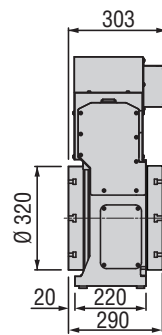
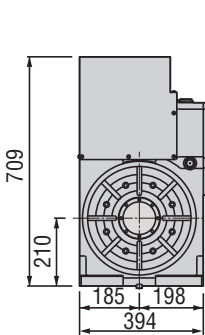
RCB ,RWB K-2, RNCK & RCV-K Series (Drawings Not To Scale)

RWB-250K-2



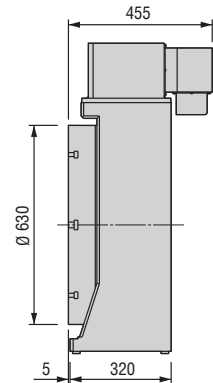
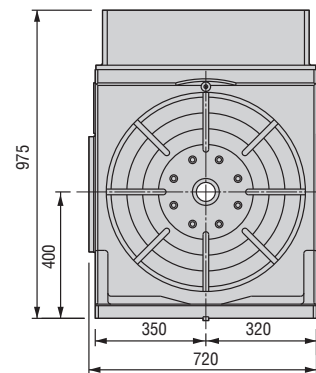
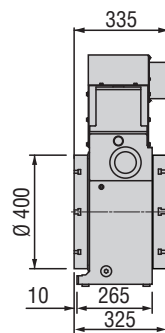
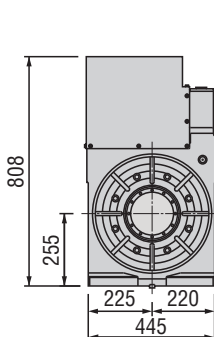
RCB-350

RWB-320K-2



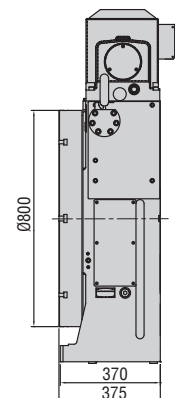
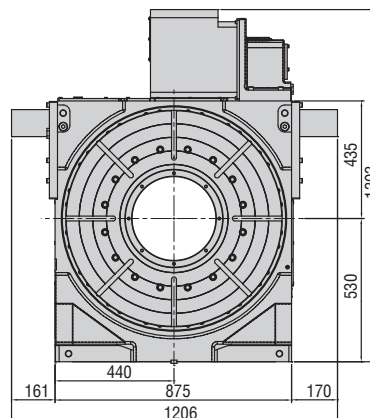
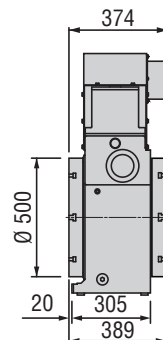
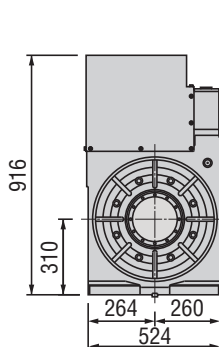
RCB-450

RWB-400K-2



RNCK-631

RWB-500K-2



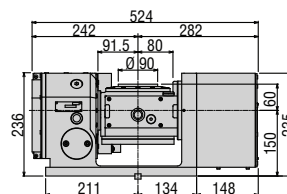
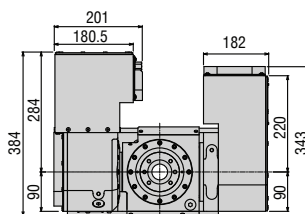
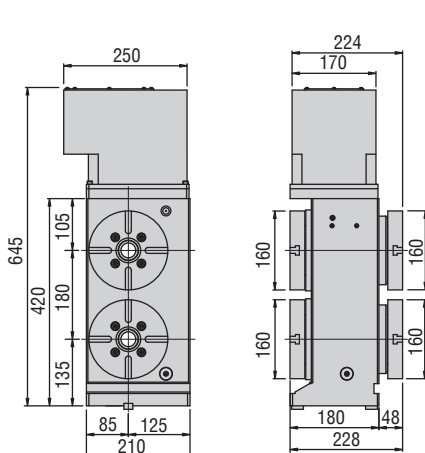
RCV-800,K

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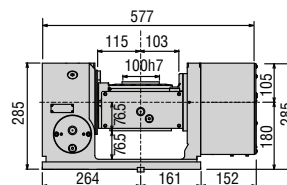
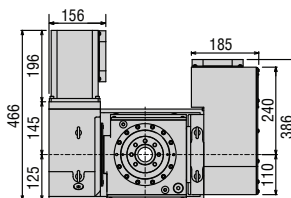
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RT, TWA, TBS-Series & RTT-111, CA (Drawings Not To Scale)

RT-147

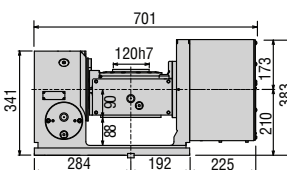
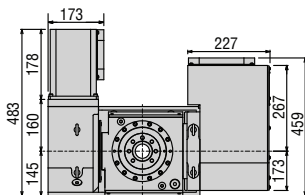
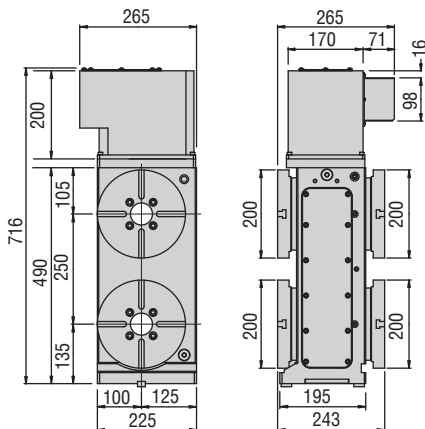


TWA-130

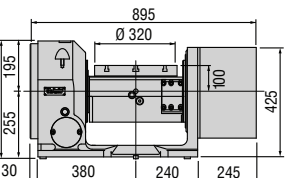
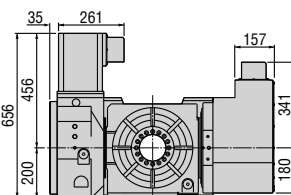


TWA-160

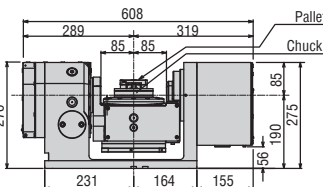
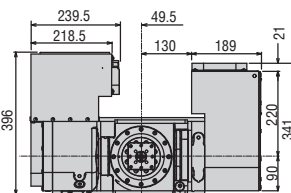
RT-251



TWA-200

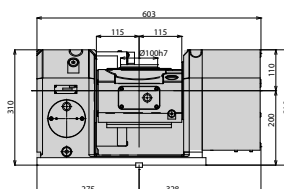
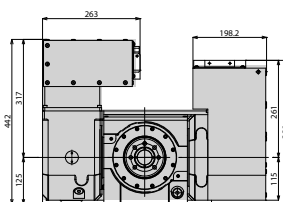
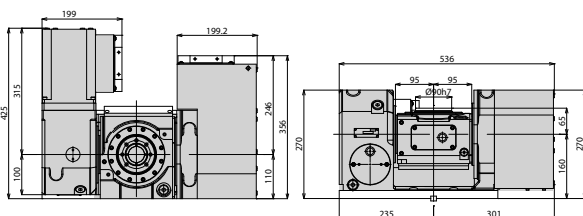


TN-320



RTT-111, CA

TBS-130



TBS-160

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

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ROTARY TABLE SPECIFICATIONS



RN-Multi, RWE-Series, RNCK & RCV

Table Model		RN-100-2,3,4	RWE-160	RWE-200	RNCK-631	RCV-800K
Versions available		R, L	R, L	R, L	-	-
Spindle outer diameter		80h7	100h7	120h7	-	-
Table diameter (optional)		(115)	(160, 200)	(200, 250)	630	800 (1,000)
Center height		135	135	160	400	530
Center bore	Nose Diameter	50H7	55H7	65H7	60H6	360H7 x 45
	Thru Diameter	30	40	45	60	310
Table T-slot width (with face plate)		-	(12H8)	(12H8)	18H7	18H7
Minimum spindle center distance		120	-	-	-	-
Guide block width		18h7	14h7	18h7	18h7	22h7
Servo motor (Fanuc)*		Alpha 4i	Alpha 2i	Alpha 4i	Alpha 12i	
Maximum motor speed	rpm	5,000	5,000	5,000	4,000	4,000
Speed reduction ratio		1/36	1/72	1/72	1/180	1/360
Number of spindles		2 3 4	-	-		
Maximum table speed	rpm	138.9	69.4	69.4	22.2	11.1
Inertia converted into motor shaft	x 10 ⁻³ kg·m ²	.64 .92 1.06	.09	.17	5.55	4.89
Clamp system		Pneumatic		Pneumatic Disc Clamp		Hydraulic
Clamp torque @72psi	Nm (ft. lbs.)	80 (59)	250 (180)	400 (295)	4,410 (3,250)	7,000 (5,159)
Indexing accuracy	arc sec.	±30	±12.5	±10	±7.5	
Net Weight	kg (lbs.)	70-110(154-242)	40 (88)	61 (135)	800 (1,760)	1,450 (3,190)
Allowable wheel torque	Nm (ft. lbs.)	176 (130)	206 (152)	288 (212)	4,116 (3,033)	7,840 (5,778)
Allowable work inertia	kg·m ²	.10	.64	1.25	39.7	320
Allowable work weight	 kg (lbs) [w/ tailstock]	25 (55) [50 (110)]	100 (220) [200 (441)]	125 (275) [250 (551)]	400 (880) [800 (1,760)]	2,000 (4,400) [4,000 (8,000)]
	 kg (lbs)	50 (110)	-	-	--	4,000 (8,800)
Allowable load when table clamped	 N (lbf)	5,880 (1,317)	10,800 (2,419)	14,400 (3,226)	49,000 (10,976)	100,000 (22,400)
	 Nm (ft. lbs.)	80 (59)	500 (369)	800 (590)	4,410 (3,250)	7,000 (5,159)
	 Nm (ft. lbs.)	156 (115)	780 (575)	1,900 (1,400)	7,840 (5,778)	11,600 (8,550)

* 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

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

RWB & RWB-K-Series

Table Model			RWB-320	RWB-400	RWB-500	RWB-250K	RWB-320K	RWB-400K	RWB-500K
Versions available			R, L	R, L	R, L	--	--	--	--
Spindle outer diameter	mm		--	--	--	--	--	--	--
Table diameter	mm		320	400	500	250	320	400	500
Center height	mm		210	255	310	160	210	255	310
Center bore	Nose Diameter	mm	150	200	220	105	150	200	220H7
	Thru Diameter	mm	120	160	182	80	120	160	182
Table T-slot width			14H7	14H7	18H7	12H7	14H7	14H7	18H7
Guide block width			18h7						
Servo motor (Fanuc)*			Alpha 12i	Alpha 12i	Alpha 12i	Alpha 8i	Alpha 12i	Alpha 12i	Alpha 12i
Maximum motor speed	rpm		4,000	4,000	4,000	4,000	4,000	4,000	4,000
Speed reduction ratio			1/90	1/90	1/180	1/90	1/90	1/90	1/180
Maximum table speed	rpm		44.4	44.4	22.2	44.4	44.4	44.4	22.2
Inertia converted into motor shaft $\times 10^{-3}\text{kg}\cdot\text{m}^2$			3.53	4.63	3.00	1.27	3.53	4.63	3.00
Clamp system**			Hydraulic						
Clamp torque @500psi	Nm (ft. lbs.)		3,100 (2,284)	5,500 (4,053)	6,100 (4,496)	1,300 (958)	3,100 (2,284)	5,500 (4,053)	7,600 (5,601)
Indexing accuracy	arc sec.		± 7						
Net Weight	kg (lbs.)		250 (550)	360 (792)	620 (1,364)	125 (286)	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)	1,011 (745)	2,127 (1,567)	3,958 (2,917)	3,276 (2,414)
Holding torque @72psi	Nm (ft. lbs.)		-	-	-	-	-	-	-
Allowable work inertia	kg-m ²		19.2	36	112	7.0	19.2	36.0	112
Allowable work weight	 kg (lbs) [w/ tailstock]		250 (550) [500 (1,100)]	300 (660) [600 (1,320)]	600 (1,320) [1,200 (2,460)]	175 (385) [250 (550)]	250 (550) [500 (1,100)]	300 (660) [600 (1,320)]	600 (1,320)
	 kg (lbs)		1,100 (500)	1,320 (600)	2,640 (1,200)	-	-	-	-
Allowable load when table clamped	 N (lbf)		89,000 (19,580)	109,000 (23,980)	240,000 (52,800)	35,000 (7,700)	89,000 (19,580)	109,000 (23,980)	240,000 (52,800)
	 Nm (ft. lbs.)		3,100 (2,284)	5,500 (4,053)	7,600 (5,601)	1,300 (958)	3,100 (2,284)	5,500 (4,053)	7,600 (5,601)
	 Nm (ft. lbs.)		5,300 (3,906)	7,800 (5,748)	17,000 (12,529)	1,500 (1,105)	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



RCB & RT Series Rotary Tables

Table Model		RCB-350	RCB-450	RCB- 550	RT-147	RT-251	RT-320
Versions available		R,L	R,L	R,L	--	--	--
Table diameter		350	450	550	160 x (2,4)	200 x (2,4)	320 x (2,4)
Center height		255	310	350	135 & 315	135 & 385	210 & 610
Center bore	Nose Diameter	245H7	295H7	345H7	55H7	55H7	101H7
	Thru Diameter	215	265	315	40	40	130
Table T-slot width		14H7	14H7	18H7	12H8	12H8	12H8
Guide block width		18h7	18h7	18h7	14h7	14h7	14h7
Servo motor*		Alpha 12i	Alpha 22i	Alpha 22i	Alpha 4i	Alpha 4i	Alpha 22i
Maximum motor speed	rpm	4,000	3,000	3,000	5,000	5,000	3,000
Speed reduction ratio		1/90	1/90	1/120	1/90	1/90	1/90
Maximum table speed	rpm	44.4	33.3	33.3	55.5	55.5	33.3
Inertia converted into motor shaft	$\times 10^{-3} \text{kg}\cdot\text{m}^2$	3.48	6.14	6.01	.25	.25	3.04
Clamp system**		Hydraulic			Pneumatic	Hydraulic**	
Clamp torque @500psi	Nm (ft. lbs.)	3,300 (2,432)	4,700 (3,464)	6,500 (4,790)	-	210 (154)	2,450 (1,806)
Indexing accuracy	arc sec.	± 7.5			± 22.5		
Net Weight	kg (lbs.)	400 (880)	520 (1,144)	720 (1,584)	100 (220) quad	135 (297) quad	450 (990) quad
Allowable wheel torque	Nm (ft. lbs.)	1,942 (1,431)	3,276 (2,414)	4,716 (3,475)	147 (108)	264 (194)	931(686)
Allowable work inertia	$\text{kg}\cdot\text{m}^2$	6.1	17.7	37.8	.48	.48	5.12
Allowable work weight [with tailstock]	 kg (lbs)	400 (880)	700 (1,540)	1,000 (2200)	75/face plate (165/face plate)	75/face plate (165/face plate)	100/face plate (220/face plate)
Allowable load when table clamped	 N (lbf)	29,400 (6,586)	45,000 (10,080)	54,000 (12,096)	--	--	--
	 Nm (ft. lbs.)	3,300 (2,432)	4,700 (3,464)	6,500 (4,790)	156 (115)	264 (194)	2,450 (1,806)
	 Nm (ft. lbs.)	3,626 (2,672)	8,000 (5,896)	15,132 (11,152)	392 (289)	392 (289)	3,626 (2,672)

* Other motors & RPM available

** Booster optional

Dimensions = mm

Specifications subject to change without notice

RWB-K2 Series Rotary Tables

Table Model			RWB-250K-2	RWB-320K-2	RWB-400K-2	RWB-500K-2
Table diameter	mm		250	320	400	500
Center height	mm		160	210	255	310
Center bore	Nose Diameter	mm	95H7	130H7	190H7	220H7
Table T-slot width			12H7	14H7	14H7	18H7
Guide block width			18h7			
Servo motor (Fanuc)*			Alpha 8i	Alpha 12i		
Maximum motor speed	rpm		4,000	4,000	4,000	4,000
Speed reduction ratio			1/90	1/90	1/90	1/180
Maximum table speed	rpm		44.4	44.4	44.4	22.2
Inertia converted into motor shaft	$\times 10^{-3} \text{kg} \cdot \text{m}^2$		.94	3.04	4.28	3.00
Clamp system**			Hydraulic			
Clamp torque @500psi	Nm (ft. lbs.)		1,000 (737)	2,450 (1,806)	4,200 (3,095)	6,100 (4,496)
Indexing accuracy	arc sec.		± 7			
Net Weight	kg (lbs.)		105 (231)	185 (407)	300 (660)	550 (1,210)
Allowable wheel torque	Nm (ft. lbs.)		581 (428)	939 (692)	1,666 (1,228)	3,276 (2,414)
Allowable work inertia	$\text{kg} \cdot \text{m}^2$		2.34	5.12	9.7	18.2
Allowable work weight per face plate	 kg (lbs)		75 (165)	100 (220)	125 (275)	125 (275)
Allowable load when table clamped	 N (lbf)		19,600 (4,390)	29,400 (6,586)	39,200 (8,781)	49,000 (10,976)
	 Nm (ft. lbs.)		1,000 (737)	2,450 (1,806)	4,200 (3,095)	6,100 (4,496)
	 Nm (ft. lbs.)		980 (722)	3,626 (2,672)	5,880 (4,334)	13,132 (9,678)

* Other motors & RPM available

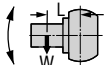
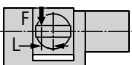
** Booster optional

Specifications subject to change without notice

ROTARY TABLE SPECIFICATIONS

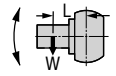
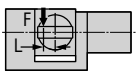
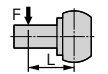


TWA-Series

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/faceplate)		235 (260 w/faceplate)		270 (300 w/faceplate)		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		100	
Table T-slot width		12H8 (w/faceplate)		12H8 (w/faceplate)		12H8 (w/faceplate)		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	55.5	33.3	16.7
Inertia converted into motor shaft	x 10 ⁻³ kg.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 • ** Booster optional • Dimensions = mm • Specifications subject to change without notice

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	$\times 10^{-3}\text{kg}\cdot\text{m}^2$	.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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