



TSUDAKOMA
ROTARY TABLE
SELECTION GUIDE

TOYODA

ABOUT US

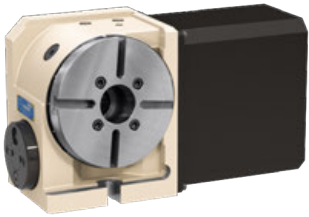
KOMA PRECISION

For over thirty 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



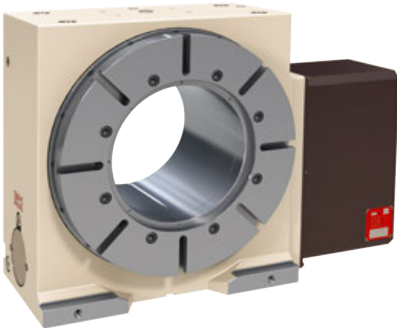
RWA SERIES



RBS SERIES



RWB SERIES



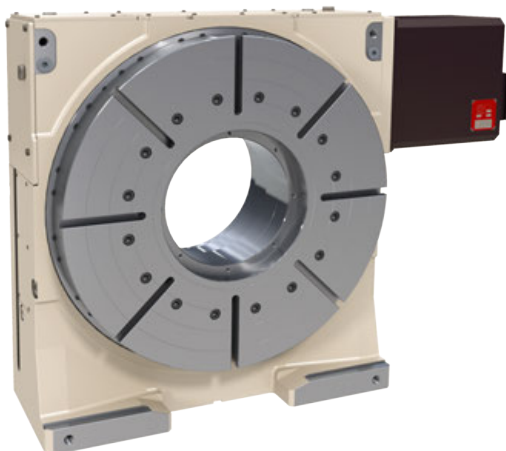
RCB SERIES



TWA SERIES



TBS SERIES



RCV SERIES



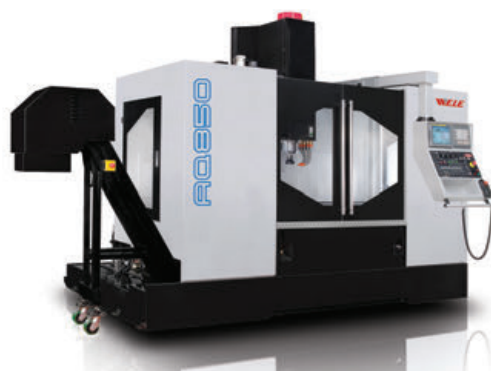
RNCK SERIES



RWB-K-2 SERIES

AQ-SERIES

AQ850				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250		
TWA SERIES	TWA-130	TWA-160	TWA-200	
TBS SERIES	TBS-130	TBS-160		
AQ1050				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250		
TWA SERIES	TWA-130	TWA-160	TWA-200	
TBS SERIES	TBS-130	TBS-160		
AQ1265				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250		
TWA SERIES	TWA-130	TWA-160	TWA-200	TN-320
TBS SERIES	TBS-130	TBS-160		
RWB SERIES	RWB-320			
RCB SERIES	RCB-350			
AQ1465				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250		
TWA SERIES	TWA-130	TWA-160	TWA-200	TN-320
TBS SERIES	TBS-130	TBS-160		
RWB SERIES	RWB-320			
RCB SERIES	RCB-350			



AQ850

FV-SERIES

FV965				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250		
TWA SERIES	TWA-130	TWA-160	TWA-200	
TBS SERIES	TBS-130	TBS-160		
FV1165				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250		
TWA SERIES	TWA-130	TWA-160	TWA-200	
TBS SERIES	TBS-130	TBS-160		
FV1365				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250		
TWA SERIES	TWA-130	TWA-160	TWA-200	TN-320
TBS SERIES	TBS-130	TBS-160		
RWB SERIES	RWB-320			
FV1565				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250		
TWA SERIES	TWA-130	TWA-160	TWA-200	TN-320
TBS SERIES	TBS-130	TBS-160		
RWB SERIES	RWB-320			

FV965



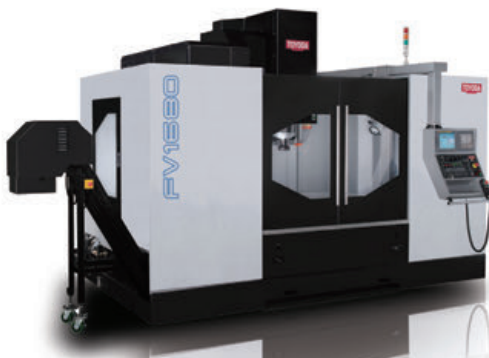
FV1165



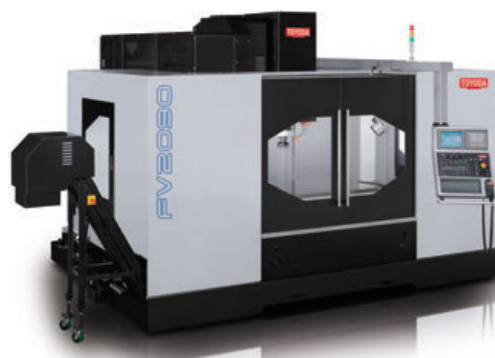
FV-SERIES

FV1480				
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TWA SERIES	TWA-130	TWA-160	TWA-200	TN-320
TBS SERIES	TBS-130	TBS-160		
RWB SERIES	RWB-320	RWB-400		
FV1680				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250		
TWA SERIES	TWA-130	TWA-160	TWA-200	TN-320
TBS SERIES	TBS-130	TBS-160		
RWB SERIES	RWB-320	RWB-400		
FV1890				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250		
TWA SERIES	TWA-130	TWA-160	TWA-200	TN-320
TBS SERIES	TBS-130	TBS-160		
RWB SERIES	RWB-320	RWB-400		
FV2090				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250		
TWA SERIES	TWA-130	TWA-160	TWA-200	TN-320
TBS SERIES	TBS-130	TBS-160		
RWB SERIES	RWB-320	RWB-400	RWB-500	
RNCM SERIES	RNCM-631			

FV1680



FV2090



STEALTH SERIES

STEALTH 965				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250		
TWA SERIES	TWA-130	TWA-160	TWA-200	
TBS SERIES	TBS-130	TBS-160		
STEALTH 1165				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250		
TWA SERIES	TWA-130	TWA-160	TWA-200	
TBS SERIES	TBS-130	TBS-160		
STEALTH 1365				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250		
TWA SERIES	TWA-130	TWA-160	TWA-200	
TBS SERIES	TBS-130	TBS-160		
STEALTH 1565				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250		
TWA SERIES	TWA-130	TWA-160	TWA-200	TN-320
TBS SERIES	TBS-130	TBS-160		
STEALTH VQ 1060				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RBS SERIES	RBS-160	RBS-250		
TWA SERIES	TWA-130	TWA-160	TWA-200	
TBS SERIES	TBS-130	TBS-160		

STEALTH 1565



BRIDGEMILL RB, SB & LB SERIES



SB216

RB 212			
RCB SERIES	RCB-350	RCB-450	RCB-550
RWB SERIES	RWB-500		
RNCM SERIES	RNCM-631		
RCV SERIES	RCV-800R		
TWA SERIES	TN-320		
RB 312			
RCB SERIES	RCB-350	RCB-450	RCB-550
RWB SERIES	RWB-500		
RNCM SERIES	RNCM-631		
RCV SERIES	RCV-800R		
TWA SERIES	TN-320		
SB 216 SB 316 SB 416			
RCB SERIES	RCB-350	RCB-450	RCB-550
RWB SERIES	RWB-500		
RNCM SERIES	RNCM-631		
RCV SERIES	RCV-800R		
TWA SERIES	TN-320		
LB 321 LB 421 LB 521			
RCB SERIES	RCB-350	RCB-450	RCB-550
RWB SERIES	RWB-500		
RNCM SERIES	RNCM-631		
RCV SERIES	RCV-800R		
TWA SERIES	TN-320		
LB 325 LB 425 LB 525 LB 625			
RCB SERIES	RCB-350	RCB-450	RCB-550
RWB SERIES	RWB-500		
RNCM SERIES	RNCM-631		
RCV SERIES	RCV-800R		
TWA SERIES	TN-320		
LB 433 LB 533 LB 633			
RCB SERIES	RCB-350	RCB-450	RCB-550
RWB SERIES	RWB-500		
RNCM SERIES	RNCM-631		
RCV SERIES	RCV-800R		
TWA SERIES	TN-320		



LB421

FH-J / FH-S SERIES

FH 400J FH 450J			
RWB-K SERIES	RWB-250K	RWB-320K	
RWB-K2 SERIES	RWB-250K-2	RWB-320K-2	
FH 500J			
RWB-K SERIES	RWB-250K	RWB-320K	RWB-400K
RWB-K2 SERIES	RWB-250K-2	RWB-320K-2	
FH 450S			
RWB-K SERIES	RWB-250K	RWB-320K	
RWB-K2 SERIES	RWB-250K-2	RWB-320K-2	
FH 550S			
RWB-K SERIES	RWB-250K	RWB-320K	RWB-400K
RWB-K2 SERIES	RWB-250K-2	RWB-320K-2	

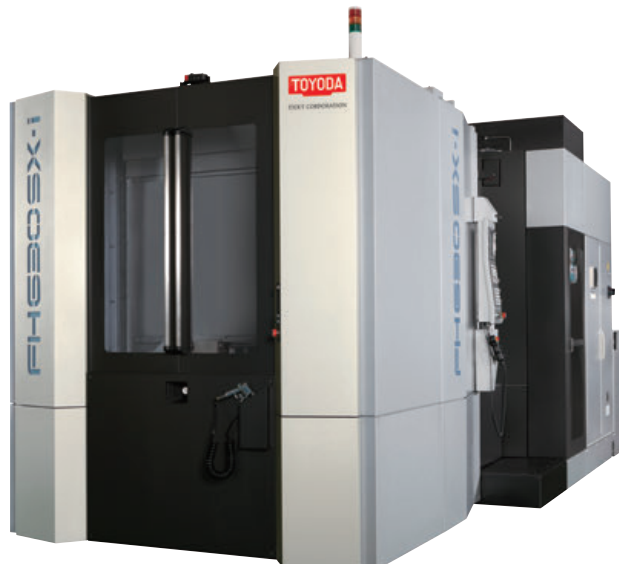


FH 450J

FH-SX/i SERIES

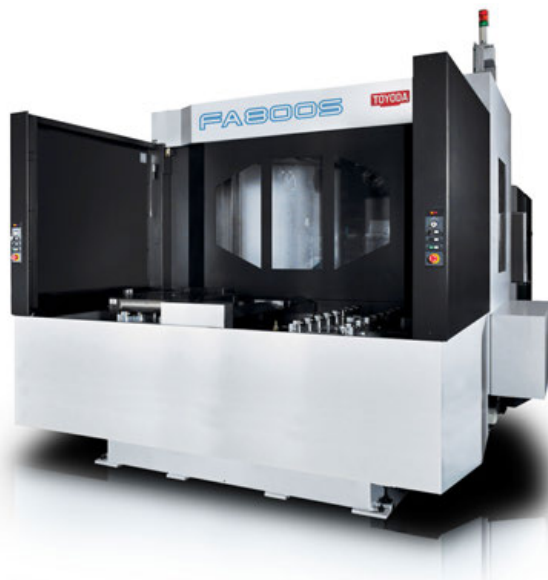
FH 550SX			
RWB-K SERIES	RWB-250K	RWB-320K	RWB-400K
RWB-K2 SERIES	RWB-250K-2	RWB-320K-2	
FH 630SX-i			
RWB-K SERIES	RWB-320K	RWB-400K	RWB-500K
RWB-K2 SERIES	RWB-320K-2	RWB-400K-2	
FH 800SX-i			
RWB-K SERIES	RWB-400K	RWB-500K	
RWB-K2 SERIES	RWB-400K-2		
RNCK SERIES	RNCK-631		
FH 1250SX			
RWB-K SERIES	RWB-500K		
RCV-K SERIES	RCV-800K	RCV-1000K	
RNCK SERIES	RNCK-631		

FH 630SX-i



FA/FH-SW SERIES

FA 800S		
RWB-K SERIES	RWB-400K	RWB-500K
RWB-K2 SERIES	RWB-400K-2	
RNCK SERIES	RNCK-631	
FA 1050S		
RWB-K SERIES	RWB-500K	
RNCK SERIES	RNCK-631	
RCV-K SERIES	RCV-800K	RCV-1000K
FH 1250SW		
RWB-K SERIES	RWB-500K	
RNCK SERIES	RNCK-631	
RCV-K SERIES	RCV-800K	RCV-1000K



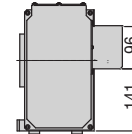
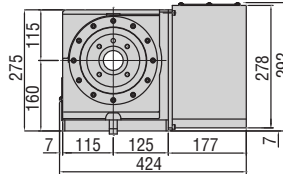
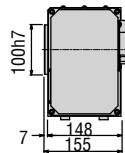
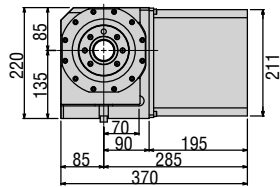
FA 800S

ROTARY TABLE DIMENSIONS

RWA, RWB, RWE & RBS-Series ROTARY TABLE DIMENSIONS

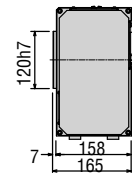
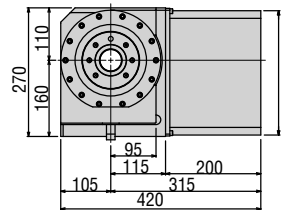
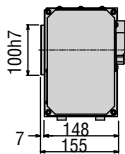
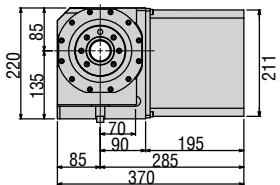
(Drawings Not To Scale)

RWE-160R



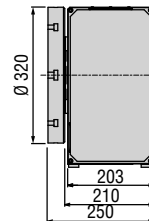
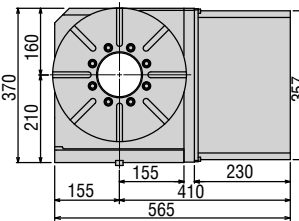
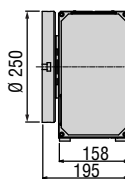
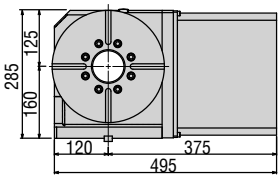
RWE-200R

RWA-160R



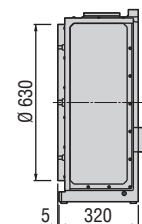
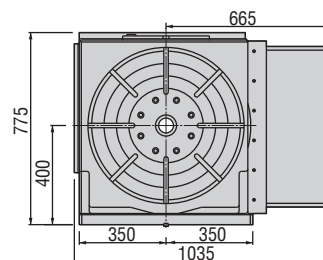
RWA-200R

RWA-250R

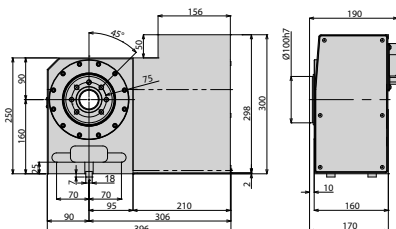


RWA-320R

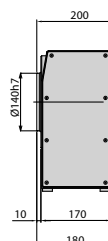
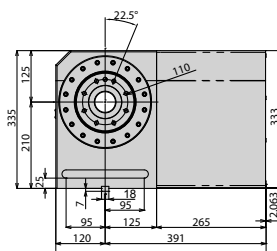
RNCM-631R



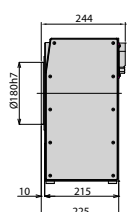
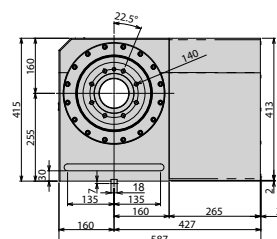
RBS-160



RBS-250



RBS-320

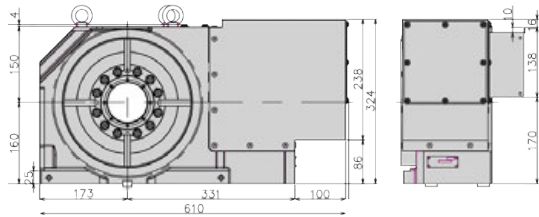


ROTARY TABLE DIMENSIONS

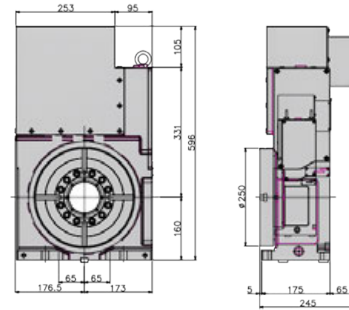
RWB & RWB,K-Series ROTARY TABLE DIMENSIONS

(Drawings Not To Scale)

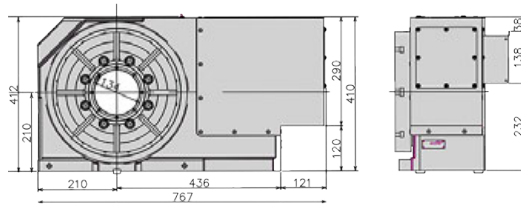
RWB-250



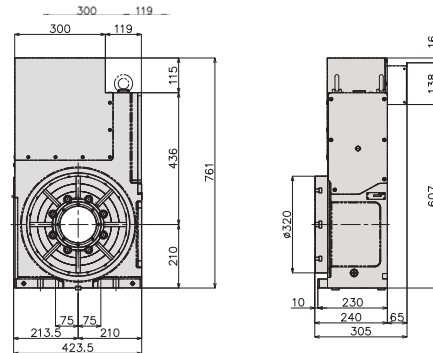
RWB-250K



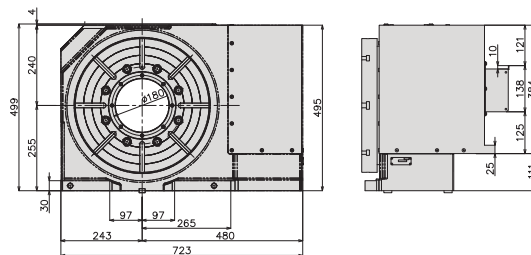
RWB-320



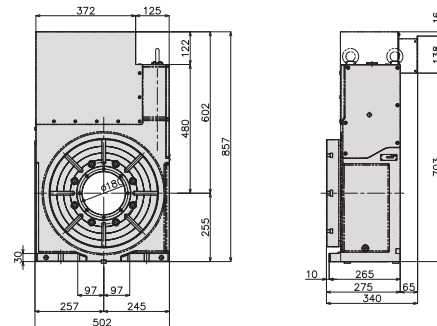
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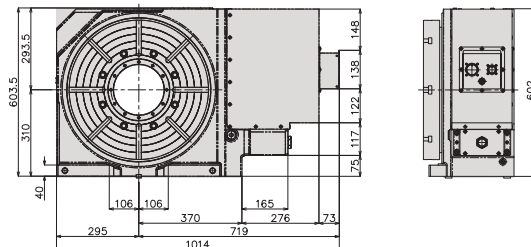
RWB-400



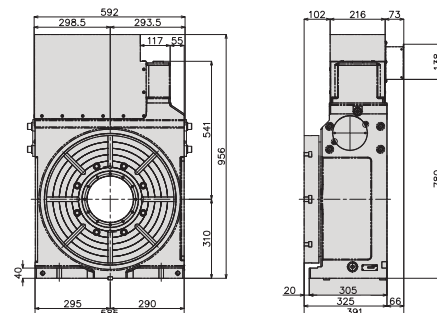
RWB-400K



RWB-500



RWB-500K



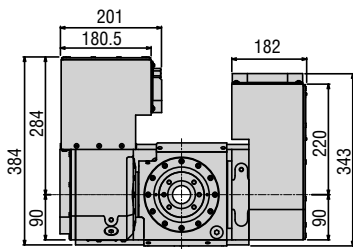
Please contact Koma Precision to confirm Toyoda / Tsudakoma Rotary Table working envelope.

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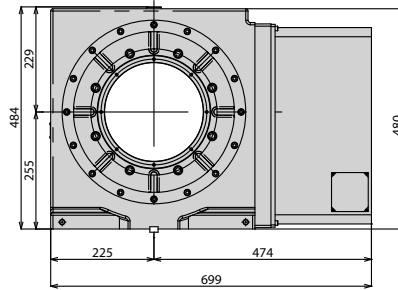
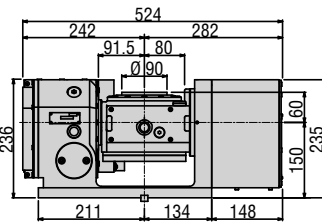
ROTARY TABLE DIMENSIONS

TWA, TBS & RCB-Series ROTARY TABLE DIMENSIONS

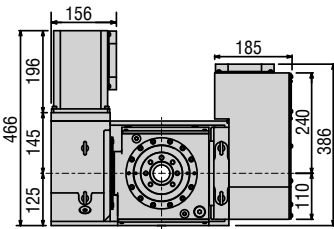
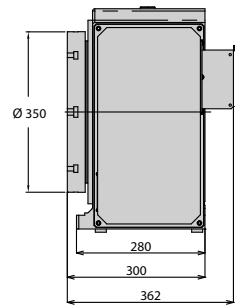
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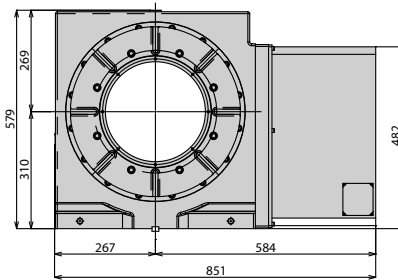
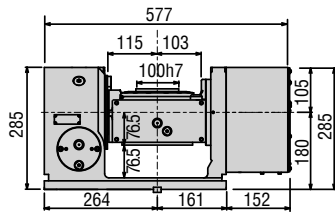
TWA-130



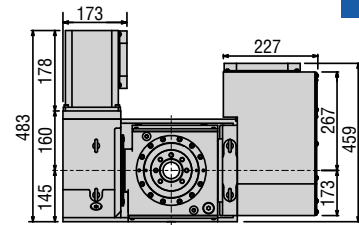
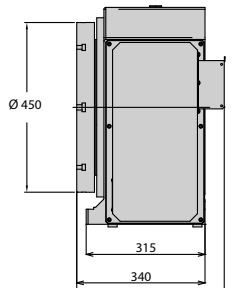
RCB-350



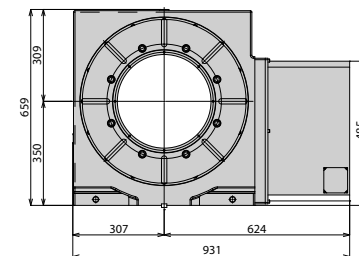
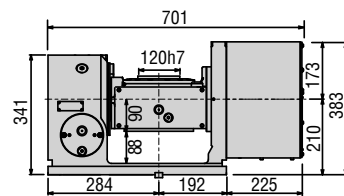
TWA-160



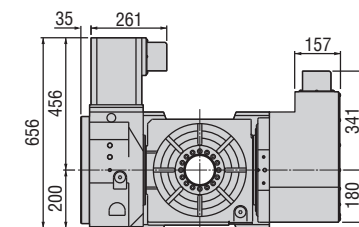
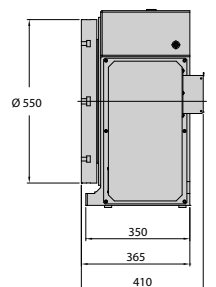
RCB-450



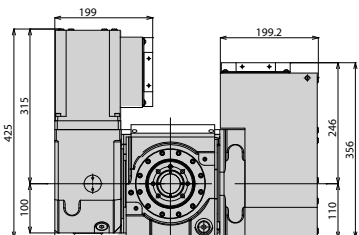
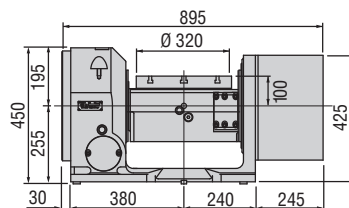
TWA-200



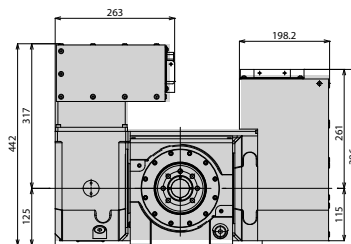
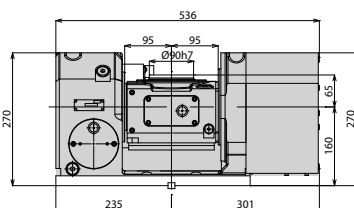
RCB-550



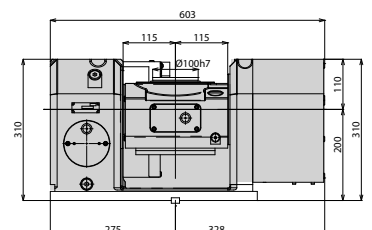
TN-320



TBS-130



TBS-160



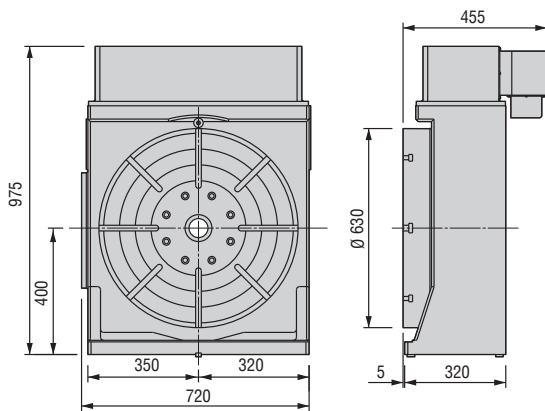
Please contact Koma Precision to confirm Toyoda / Tsudakoma rotary table working envelope.

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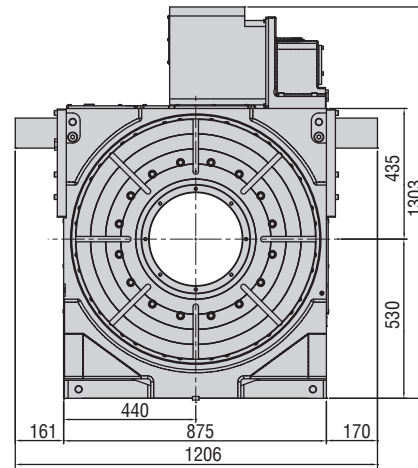
ROTARY TABLE DIMENSIONS

RNCK-Series ROTARY TABLE DIMENSIONS

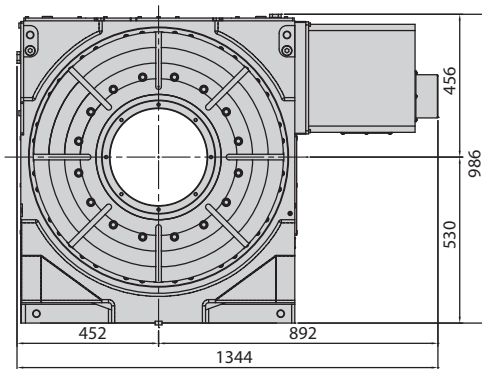
(Drawings Not To Scale)



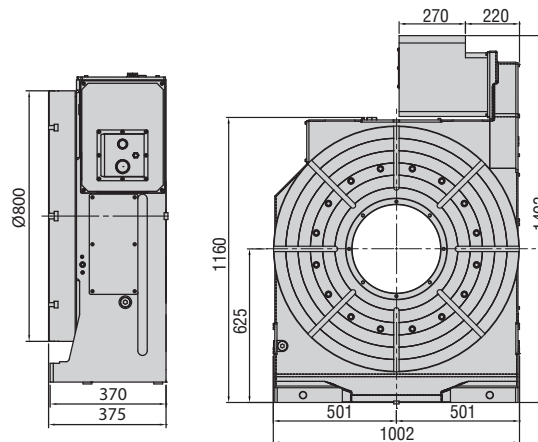
RNCK-631



RCV-800K



RCV-800,R



RCV-1000K

Please contact Koma Precision to confirm Toyoda / Tsudakoma rotary table working envelope.

ROTARY TABLE SPECIFICATIONS

RWE, RWA & RBS Series Rotary Tables

Model		RWE-160	RWE-200	RWA-160	RWA-200	RWA-250 (S)	RWA-320 (S)	RBS-160	RBS-250	RBS-320
Spindle outer diameter		100h7	120h7	100	120	140	180	R	R	R
Table diameter (optional)		(160, 200)	(200, 250)	(160, 200)	(200, 250)	250	320	(160, 200)	250	320
Center height		135	160	135	160	160	210	160	210	255
Center bore	Nose Diameter	55H7	65H7	55H7	65H7	80H7	115H7	55H7	80H7	115H7
	Thru Diameter	40	45	40	45	50	85	40	50	85
Table T-slot width (with face plate)		(12H8)	(12H8)	(12H8)	(12H8)	12H8	14H7	12H8	12H8	14H8
Guide block width		14h7	18h7	14h7	18h7	18h7	18h7	14h7	18h7	18h7
Servo motor (Fanuc)*		Alpha 2i	Alpha 4i	Alpha 2i	Alpha 4i	Alpha 8i (8is)	Alpha 8i (8is)	Alpha 4i	Alpha 8i	Alpha 12i
Maximum motor speed	rpm	5,000	5,000	5,000	5,000	4,000 (4,000)	4,000 (4,000)	5,000	4,000	4,000
Speed reduction ratio		1/72	1/72	1/72	1/72	1/90 (1/45)	1/120 (1/45)	1/36	1/36	1/36
Maximum table speed	rpm	69.4	69.4	69.4	69.4	44.4 (88.9)	33.3 (88.9)	138.9	111.1	111.1
Inertia converted into motor shaft	$\times 10^{-3} \text{kg} \cdot \text{m}^2$	.09	.17	.09	.17	.41 (.44)	.52 (1.66)	0.19	0.42	2.24
Clamp system		Pneumatic Disc Clamp			Pneumatic Dual Taper			Pneumatic		
Clamp torque @72psi [500psi]	Nm (ft. lbs.)	250 (180)	400 (295)	500 (369)	800 (590)	1,000 (737)	1,500 (1,106)	700 (516)	1480 (1076)	2580 (1901)
Indexing accuracy	arc sec.	±12.5	±10	±12.5	±10	±10	±10	±7.5	±7.5	±7.5
Net Weight	kg (lbs.)	40 (88)	61 (135)	38 (84)	61 (134)	80 (176)	145 (319)	55 (121.2)	100 (220)	200 (440)
Allowable wheel torque	Nm (ft. lbs.)	206 (152)	288 (212)	206 (152)	288 (212)	596 (439)	939 (692)	700 (516)	1480 (1076)	2580 (1901)
Allowable work inertia	$\text{kg} \cdot \text{m}^2$	.64	1.25	.64	1.25	1.95	4.48	0.48	1.95	4.48
Allowable work weight	 kg (lbs) [w/ tailstock]	100 (220) [200 (441)]	125 (275) [250 (551)]	100 (220) [175 (385)]	125 (275) [275 (605)]	125 (275) [275 (605)]	175 (385) [375 (825)]	100 (200) [200 (440)]	125 (275) [250 (550)]	175 (385) [350 (770)]
	 kg (lbs)	-	-	200 (440)	250 (550)	250 (550)	350 (770)	200 (440)	250 (550)	350 (770)
Allowable load when table clamped	 N (lbf)	10,800 (2,419)	14,400 (3,226)	10,800 (2,419)	14,400 (3,226)	14,400 (3,226)	24,800 (5,555)	10,800 (2,419)	14,400 (3,226)	24,800 (5,555)
	 Nm (ft. lbs.)	500 (369)	800 (590)	500 (369)	800 (590)	1,000 (737)	1,500 (1,106)	500 (369)	1,000 (737)	1,500 (1,106)
	 Nm (ft. lbs.)	780 (575)	1,900 (1,400)	780 (575)	1,900 (1,400)	1,900 (1,400)	4,700 (3,464)	780 (575)	1,900 (1,400)	4,700 (3,464)

* Other motors & RPM available

** Booster optional

Dimensions = mm

Specifications subject to change without notice

ROTARY TABLE SPECIFICATIONS

RCB, RNCM, RCV-K, RNCK & RCV-Series Rotary Tables

Model		RCB-350	RCB-450	RCB- 550	RNCM-631	RCV-800K	RCV-1000K	RNCK-631 (BB)	RCV-800R
Versions available		R,L	R,L	R,L	R, L	--	--	--	--
Table diameter		350	450	550	630	800 (1,000)	1,000 (1,200)	630	800 (1,000)
Center height		255	310	350	400	530	625	400	530
Center bore	Nose Diameter	245H7	295H7	345H7	60H6	360H7 x 45	410H7 x 65	60H6 (320H7)	360H7 x 45
	Thru Diameter	215	265	315	60	310	360	60 (320)	310
Table T-slot width		14H7	14H7	18H7	18H7	18H7	22H7	18H7	18H7
Guide block width		18h7				22h7			22h7
Servo motor (Fanuc)*		Alpha 12i	Alpha 22i	Alpha 22i	Alpha 12i	Alpha 12i	Alpha 22i	Alpha 12i	Alpha 12i
Maximum motor speed	rpm	4,000	3,000	3,000	4,000	4,000	3,000	4,000	4,000
Speed reduction ratio		1/90	1/90	1/120	1/180	1/360		1/180	1/360
Maximum table speed	rpm	44.4	33.3	33.3	22.2	11.11	8.33	22.2	11.11
Inertia converted into motor shaft	x 10 ⁻³ kg·m ²	3.48	6.14	6.01	5.55	4.89	12.2	5.55	4.89
Clamp system		Hydraulic**							
Clamp torque @500psi	Nm (ft. lbs.)	3,300 (2,432)	4,700 (3,464)	6,500 (4,790)	4,410 (3,250)	7,000 (5,159)	20,000 (14,740)	4,410 (3,250)	7,000 (5,159)
Indexing accuracy		arc sec.	±7.5						
Net Weight	kg (lbs.)	400 (880)	520 (1,144)	720 (1,584)	800 (1,760)	1,450 (3,190)	2,500 (5,500)	800 (1,760)	1,450 (3,190)
Allowable wheel torque	Nm (ft. lbs.)	1,942 (1,431)	3,276 (2,414)	4,716 (3,475)	4,116 (3,033)	7,840 (5,778)	13,230 (9,751)	4,116 (3,033)	7,840 (5,778)
Allowable work inertia	kg·m ²	6.1	17.7	37.8	39.7	320	874	39.7	320
Allowable work weight	 kg (lbs) [w/ tailstock]	400 (880)	700 (1,540)	1,000 (2200)	400 (880) [1000 (1,760)]	2,000 (4,400) [4,000 (8,000)]	3,500 (7,700) [7,000 (15,400)]	400 (880) [800 (1,760)]	2,000 (4,400) [4,000 (8,000)]
	 kg (lbs)	29,400 (6,586)	45,000 (10,080)	54,000 (12,096)	1,000 (2,200)	4,000 (8,800)	7,000 (15,400)	-	4,000 (8,800)
Allowable load when table clamped	 N (lbf)	3,300 (2,432)	4,700 (3,464)	6,500 (4,790)	49,000 (10,976)	100,000 (22,400)	185,000 (41,440)	49,000 (10,976)	100,000 (22,400)
	 Nm (ft. lbs.)	3,626 (2,672)	8,000 (5,896)	15,132 (11,152)	4,410 (3,250)	7,000 (5,159)	20,000 (14,740)	4,410 (3,250)	7,000 (5,159)
	 Nm (ft. lbs.)	3,626 (2,672)	8,000 (5,896)	15,132 (11,152)	7,840 (5,778)	11,600 (8,550)	22,900 (16,877)	7,840 (5,778)	11,600 (8,550)

* Other motors & RPM available

** Booster optional

Dimensions = mm

Specifications subject to change without notice

ROTARY TABLE SPECIFICATIONS

RWB/RWB,K-Series Rotary Tables

Model		RWB-250	RWB-320	RWB-400	RWB-500	RWB-250K	RWB-320K	RWB-400K	RWB-500K
Table diameter		250	320	400	500	250	320	400	500
Center height		160	210	255	310	160	210	255	310
Center bore	Nose Diameter	105	150	200	220	105	150	200	220H7
	Thru Diameter	80	120	160	182	80	120	160	182
Table T-slot width		12H7	14H7	14H7	18H7	12H7	14H7	14H7	18H7
Guide block width		18h7							
Servo motor (Fanuc)*		Alpha 8i	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	4,000
Speed reduction ratio		1/90	1/90	1/90	1/180	1/90	1/90	1/90	1/180
Maximum table speed	rpm	44.4	44.4	44.4	22.2	44.4	44.4	44.4	22.2
Inertia converted into motor shaft	x 10 ⁻³ kg·m ²	1.27	3.53	4.63	3.00	1.27	3.53	4.63	3.00
Clamp system		Hydraulic**							
Clamp torque @500psi	Nm (ft. lbs.)	1,300 (958)	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.)	125 (286)	250 (550)	360 (792)	620 (1,364)	125 (286)	250 (550)	360 (792)	620 (1,364)
Allowable wheel torque	Nm (ft. lbs.)	1,011 (745)	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)
Allowable work inertia	kg·m ²	7.0	19.2	36	112	7.0	19.2	36.0	112
Allowable work weight	 kg (lbs) [w/ tailstock]	175 (385) [250 (550)]	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)	350 (770)	1,100 (500)	1,320 (600)	2,640 (1,200)	-	-	-	-
Allowable load when table clamped	 N (lbf)	35,000 (7,700)	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.)	1,300 (958)	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.)	1,500 (1,105)	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

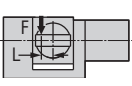
** Booster optional

Dimensions = mm

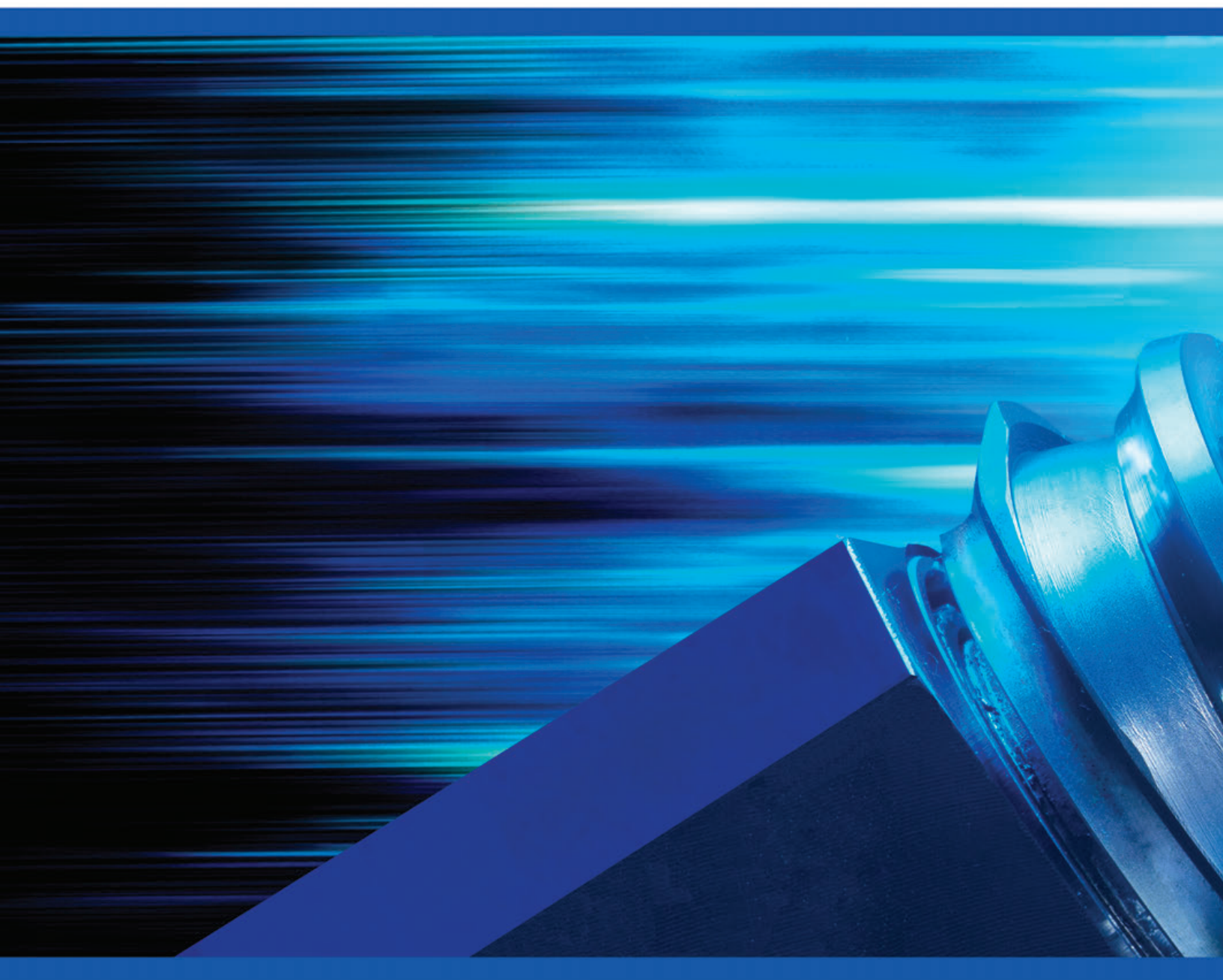
Specifications subject to change without notice

ROTARY TABLE SPECIFICATIONS

TWA-Series Rotary Tables

Model			TWA-130		TWA-160		TWA-200		TN-320		TBS-130		TBS-160	
Tilt Range			-17° ~ +107°		-30° ~ +110°		-30° ~ +110°		-30° ~ +110°		-30° ~ +110°		-30° ~ +110°	
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/faceplate)		235 (260 w/faceplate)		270 (300 w/faceplate)		355		225 (250 w/faceplate)		270 (300 w/faceplate)	
Center height at 90° position			150		180		210		255		160		200	
Center bore	Nose Diameter (w/face plate)		55H7 (40H7)		55H7 (50H7)		65H7 (60H7)		105H7		55H7 (40H7)		55H7 (50H7)	
	Thru Diameter		35		40		45		100		40		40	
Table T-slot width			12H8 (w/faceplate)		12H8 (w/faceplate)		12H8 (w/faceplate)		14H7		12H8		12H8	
Guide block width			14h7		18h7		18h7		18h7		14h7		18h7	
Servo motor (Fanuc)*			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
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
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
Maximum table speed		rpm	83.3	41.7	69.4	41.7	111.1	55.5	33.33	16.6	104.2	83.3	83.3	83.3
Inertia converted into motor shaft		x 10 ⁻³ kg·m ²	.074	.072	.17	.18	.38	.45	.82	.45	.074	.072	.17	.18
Clamp system			Pneumatic Dual Taper						Hydraulic @500 psi **		Pneumatic			
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)
Indexing accuracy		arc sec.	±20	-	±15	-	±15	-	±10	-	±10	-	±10	-
Tilting accuracy		arc sec.	-	±22.5	-	±22.5	-	±22.5	-	±22.5	-	±17.5	-	±17.5
Net Weight		kg (lbs.)	76 (167)		127 (279)		190 (418)		440 (968)		125 (276)		160 (353)	
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		.08		.19	
Allowable work weight	0° tilt angle	 kg (lbs)	35 (77)		60 (132)		120 (264)		150 (330)		35 (77)		60 (132)	
	0° ~ 90° tilt angle	 kg (lbs)	20 (44)		40 (88)		70 (154)		100 (220)		20 (44)		40 (88)	
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		
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		
	 Nm (ft. lbs.)	500 (369)		500 (369)		800 (590)		2,200 (1,621)		700 (516)		700 (516)		
	 Nm (ft. lbs.)	500 (369)		800 (590)		1,000 (737)		2,200 (1,621)		700 (516)		700 (516)		

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



Tsudakoma-Toyoda 19.0 1/15/19



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