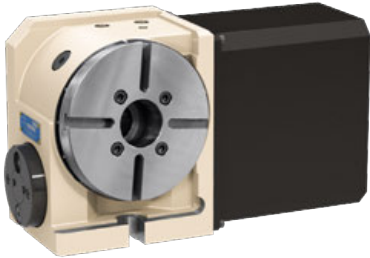




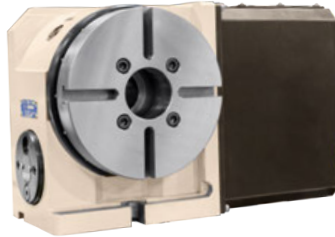
TSUDAKOMA
ROTARY TABLE
SELECTION GUIDE

FANUC
ROBODRILL

ROTARY TABLES



RWE-SERIES



RWA-SERIES



RBS-SERIES



RN-MULTI SERIES
(SHOWN WITH 5C COLLETS)



TWA-SERIES



TBS-SERIES



5TH AXIS TILTING SERIES
RTT-111, CA

ROTARY TABLES

α-D14SiA5 / α-D21SiA5				
RWE SERIES	RWE-160 R,L			
RWA SERIES	RWA-160 R,L			
RBS SERIES	RBS-160			
RN MULTI SERIES	RN-100 R,L	RN-100-2 R,L		
TWA SERIES	TWA-130			
TBS SERIES	TBS-130			
5TH AXIS TILTING	RTT-111, CA			
α-D14MiA5 / α-D21MiA5				
RWE SERIES	RWE-160 R,L	RWE-200 R,L		
RWA SERIES	RWA-160 R,L	RWA-200 R,L		
RBS SERIES	RBS-160			
RN MULTI SERIES	RN-100 R,L	RN-100-2 R,L	RN-100-3 R,L	
TWA SERIES	TWA-130			
TBS SERIES	TBS-130			
5TH AXIS TILTING	RTT-111, CA			
α-D14LiA5 / α-D21LiA5				
RWE SERIES	RWE-160 R,L	RWE-200 R,L		
RWA SERIES	RWA-160 R,L	RWA-200 R,L		
RBS SERIES	RBS-160			
RN MULTI SERIES	RN-100 R,L	RN-100-2 R,L	RN-100-3 R,L	RN-100-4 R,L
TWA SERIES	TWA-130	TWA-160		
TBS SERIES	TBS-130	TBS-160		
5TH AXIS TILTING	RTT-111, CA			



α -D14SiA5 / α -D21SiA5



α -D14MiA5 / α -D21MiA5



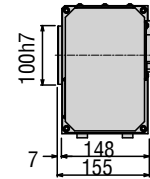
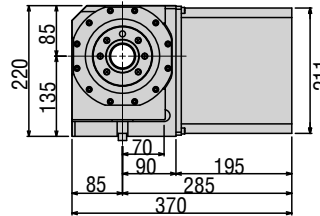
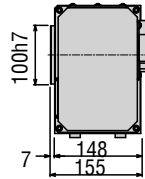
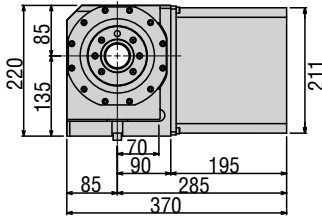
α -D14LiA5 / α -D21LiA5

ROTARY TABLE DIMENSIONS

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

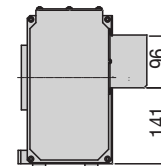
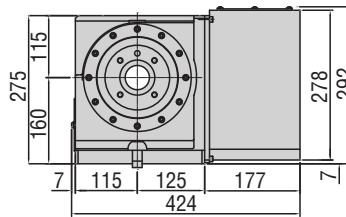
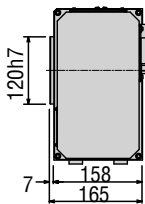
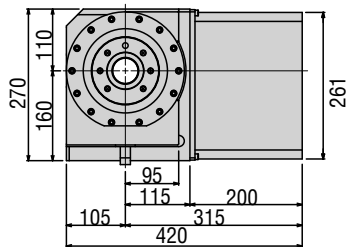
(Drawings Not To Scale)

RWA-160



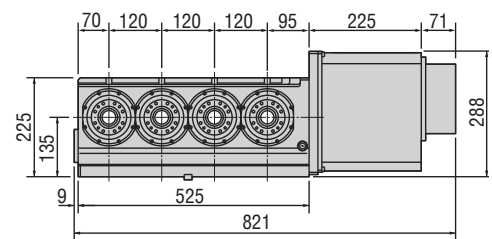
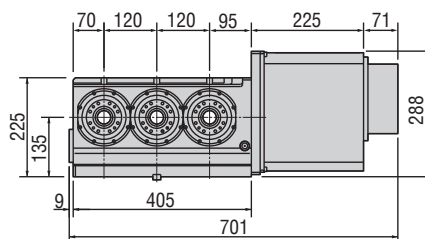
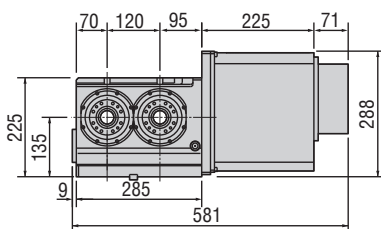
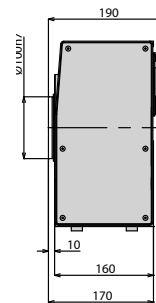
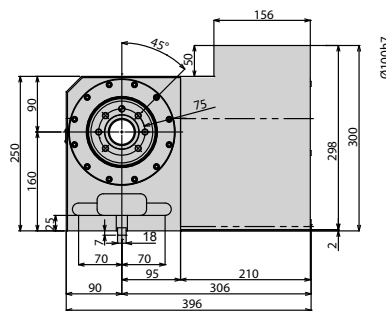
RWE-160

RWA-200



RWE-200

RBS-160



RN-100R-2,3,4

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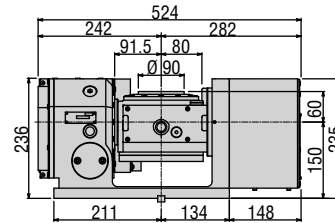
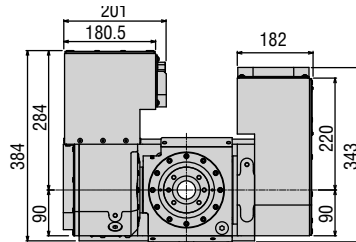
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ROTARY TABLE DIMENSIONS

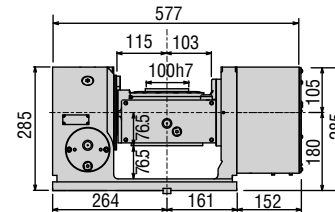
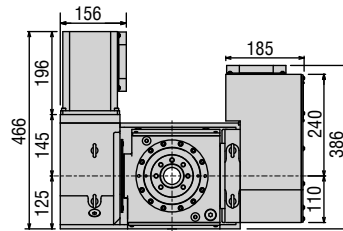
TWA, TBS-Series & RTT-111, CA ROTARY TABLES

(Drawings Not To Scale)

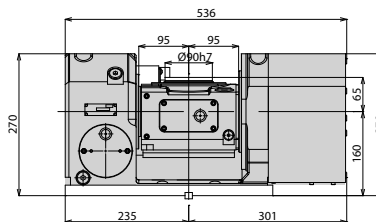
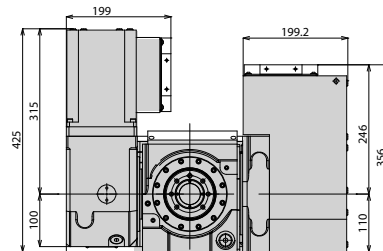
TWA-130



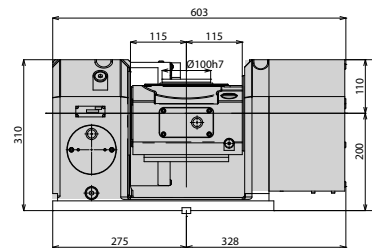
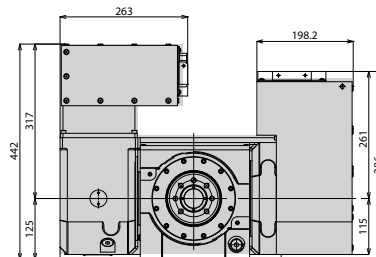
TWA-160



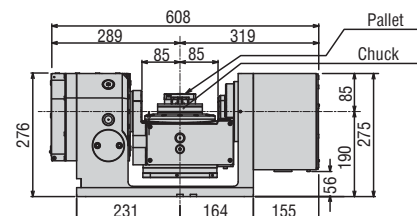
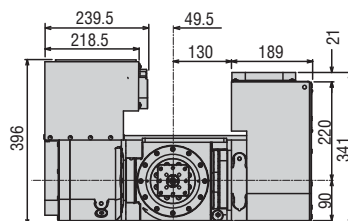
TBS-130



TBS-160



RTT-111 CA



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ROTARY TABLE SPECIFICATIONS

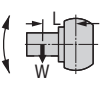
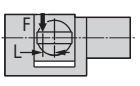
RN-Multi, RWA, RWE & RBS-Series Rotary Tables

Table Model		RN-100	RN-100-2,3,4			RWA-160	RWA-200	RWE-160	RWE-200	RBS-160
Versions available		R, L	R, L			R, L	R, L	R, L	R, L	R, L
Spindle outer diameter		80h7	80h7			100h7	120h7	100h7	120h7	100h7
Table diameter (optional)		(135)	(115)			(160, 200)	(200, 250)	(160, 200)	(200, 250)	(160, 200)
Center height		110	135			135	160	135	160	160
Center bore	Nose Diameter	50H7	50H7			55H7	65H7	55H7	65H7	55H7
	Thru Diameter	30	30			40	45	40	45	40
Table T-slot width (with face plate)		(10H8)	-			(12H8)	(12H8)	(12H8)	(12H8)	12H8
Minimum spindle center distance		-	120			-	-	-	-	-
Guide block width		14h7	18h7			14h7	18h7	14h7	18h7	14h7
Servo motor (Fanuc)*		Alpha 2i	Alpha 4i			Alpha 2i	Alpha 4i	Alpha 2i	Alpha 4i	Alpha 4i
Maximum motor speed	rpm	5,000	5,000			5,000	5,000	5,000	5,000	5,000
Speed reduction ratio		1/36	1/36			1/72	1/72	1/72	1/72	1/36
Number of spindles		-	2	3	4	-	-	-	-	--
Maximum table speed	rpm	83.3@ 3,000	138.8			69.4	69.4	69.4	69.4	138.9
Inertia converted into motor shaft	x 10 ⁻³ kg·m ²	.23	.64	.92	1.06	.09	.17	-	-	0.19
Clamp system		Pneumatic				Pneumatic Dual Taper		Pneumatic Disc Clamp	Pneumatic Disc Clamp	Pneumatic
Clamp torque @72psi	Nm (ft. lbs.)	80 (59)	80 (59)			500 (369)	800 (590)	250 (180)	400 (295)	700 (516)
Indexing accuracy	arc sec.	±22.5	±30			±12.5	±10	±12.5	±10	±7.5
Net Weight	kg (lbs.)	28 (62)	70-110(154-242)			38 (84)	61 (134)	40 (88)	61 (135)	55 (121.2)
Allowable wheel torque	Nm (ft. lbs.)	176 (130)	176 (130)			206 (152)	288 (212)	206 (152)	288 (212)	--
Allowable work inertia	kg·m ²	.10	.10			.64	1.25	.64	1.25	.48
Allowable work weight	 kg (lbs) [w/ tailstock]	25 (55) [50 (110)]	25 (55) [50 (110)]			100 (220) [175 (385)]	125 (275) [250 (550)]	100 (220) [200 (441)]	125 (275) [250 (551)]	100 (200) [200 (440)]
	 kg (lbs)	50 (110)	50 (110)			200 (440)	250 (550)	-	-	200 (440)
Allowable load when table clamped	 N (lbf)	5,880 (1,317)	5,880 (1,317)			10,800 (2,419)	14,400 (3,226)	10,800 (2,419)	14,400 (3,226)	10,800 (2,419)
	 Nm (ft. lbs.)	80 (59)	80 (59)			500 (369)	800 (590)	500 (369)	800 (590)	500 (369)
	 Nm (ft. lbs.)	156 (115)	156 (115)			780 (575)	1,900 (1,400)	780 (575)	1,900 (1,400)	780 (575)

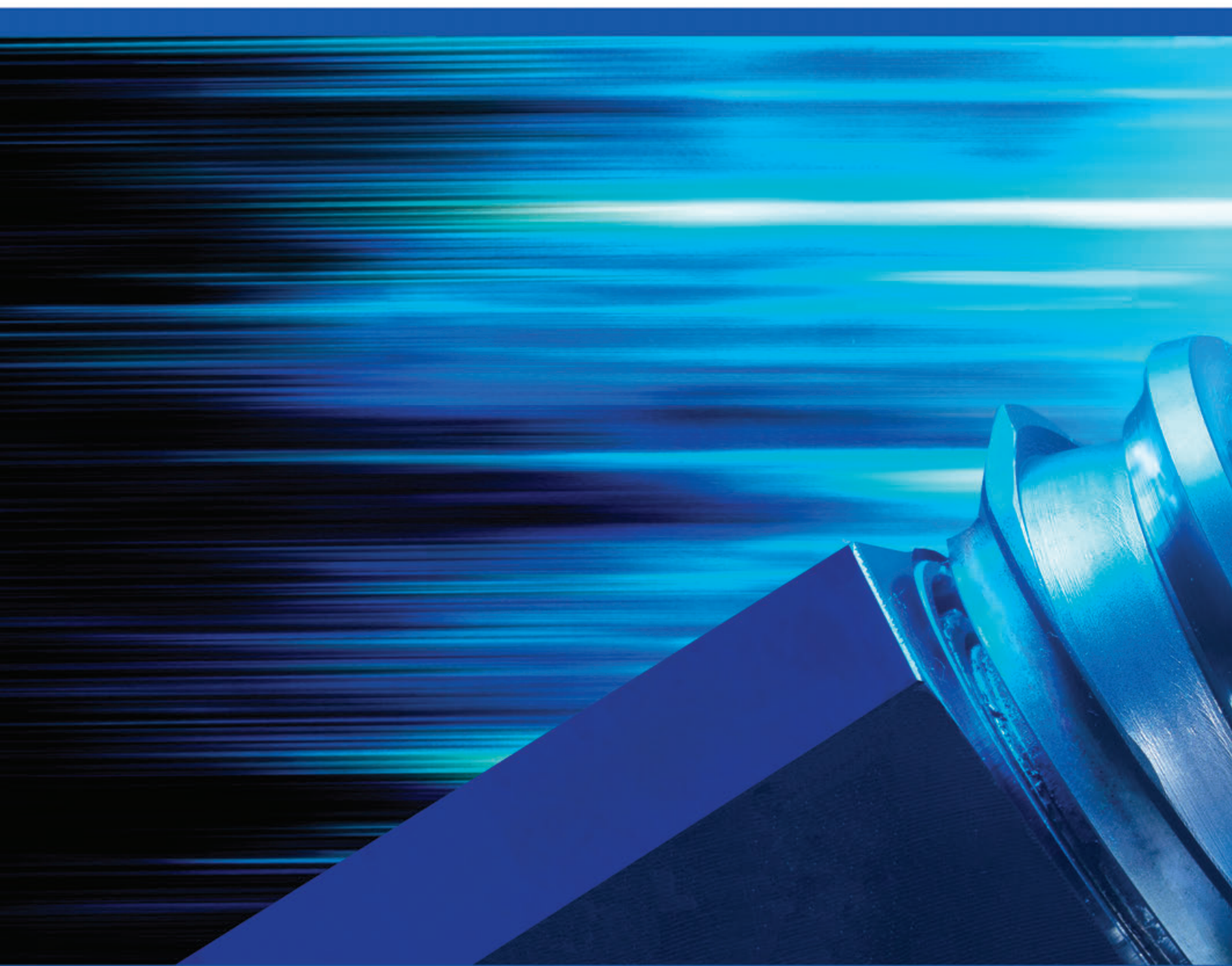
* Other motors & RPM available • Dimensions = mm • Specifications subject to change without notice

ROTARY TABLE SPECIFICATIONS

TWA, TBS-Series & RTT-111, CA Rotary Tables

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

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



Tsudakoma-Robodrill 19.0 1/14/19



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