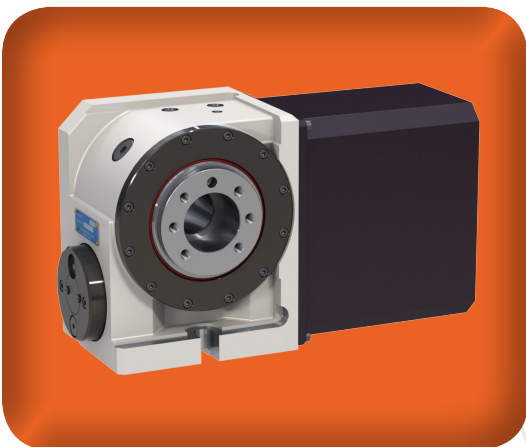




TSUDAKOMA

ROTARY TABLE SELECTION GUIDE

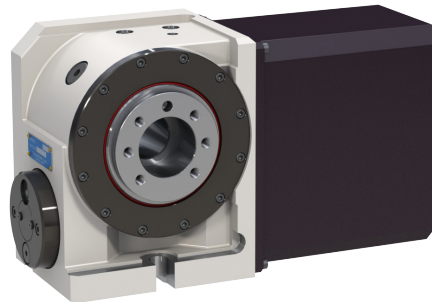
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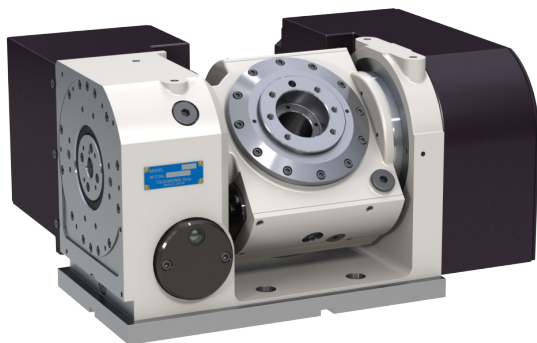
RNE SERIES



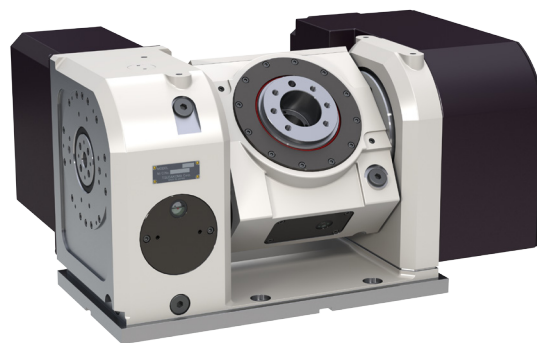
RWA SERIES



RBS SERIES



TWA SERIES



TBS SERIES

VC0852				
TSUDAKOMA ROTARY TABLES	RNE SERIES	RNE-160R	RNE-200R	
	RWA SERIES	RWA-160R	RWA-200R	RWA-250R
	RBS SERIES	RBS-160	RBS-250	RBS-320R
	TWA SERIES	TWA-130	TWA-160	TWA-200
	TBS SERIES	TBS-130	TBS-160	
VC1052				
	RNE SERIES	RNE-160R	RNE-200R	
	RWA SERIES	RWA-160R	RWA-200R	RWA-250R
	RBS SERIES	RBS-160R	RBS-250R	RBS-320R
	TWA SERIES	TWA-130	TWA-160	TWA-200
	TBS SERIES	TBS-130	TBS-160	



VC0852



VC1052

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TSUDAKOMA ROTARY TABLES

V10				
RNE SERIES	RNE-160R	RNE-200R		
RWA SERIES	RWA-160R	RWA-200R	RWA-250R	
RBS SERIES	RBS-160R	RBS-250R	RBS-320R	
TWA SERIES	TWA-130	TWA-160	TWA-200	TN-320
TBS SERIES	TBS-130	TBS-160		
V11				
RNE SERIES	RNE-160R	RNE-200R		
RWA SERIES	RWA-160R	RWA-200R	RWA-250R	
RBS SERIES	RBS-160R	RBS-250R	RBS-320R	
TWA SERIES	TWA-130	TWA-160	TWA-200	TN-320
TBS SERIES	TBS-130	TBS-160		
V15				
RNE SERIES	RNE-160R	RNE-200R		
RWA SERIES	RWA-160R	RWA-200R	RWA-250R	
RBS SERIES	RBS-160R	RBS-250R	RBS-320R	
TWA SERIES	TWA-130	TWA-160	TWA-200	TN-320
TBS SERIES	TBS-130	TBS-160		

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V10



V15

TSUDAKOMA ROTARY TABLES	H10				
	RNE SERIES	RNE-160R	RNE-200R		
	RWA SERIES	RWA-160R	RWA-200R	RWA-250R	
	RBS SERIES	RBS-160R	RBS-250R	RBS-320R	
	TWA SERIES	TWA-130	TWA-160	TWA-200	TN-320
	TBS SERIES	TBS-130	TBS-160		
	H12				
	RNE SERIES	RNE-160R	RNE-200R		
	RWA SERIES	RWA-160R	RWA-200R	RWA-250R	
	RBS SERIES	RBS-160R	RBS-250R	RBS-320R	
	TWA SERIES	TWA-130	TWA-160	TWA-200	TN-320
	TBS SERIES	TBS-130	TBS-160		
	H16				
	RNE SERIES	RNE-160R	RNE-200R		
	RWA SERIES	RWA-160R	RWA-200R	RWA-250R	
	RBS SERIES	RBS-160R	RBS-250R	RBS-320R	
	TWA SERIES	TWA-130	TWA-160	TWA-200	TN-320
	TBS SERIES	TBS-130	TBS-160		

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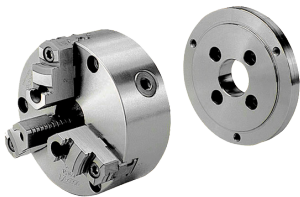


H10



H16

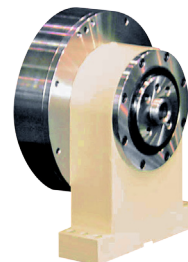
ACCESSORIES									
		CHUCKS	6 Port Rotary Joint	TAILSTOCKS		SUPPORT SPINDLES		FACEPLATES	CLOSERS
				Manual	Pneumatic (P)	Manual	Pneumatic (P)		
ROTARY TABLE MODEL	RNE-160R	✓ 6", 8"	✓	✓ TL-135M	--	✓ TS-135	✓ TS-135P	✓ 6", 8"	✓ 5C, 16C
	RNE-200R	✓ 8", 10"	✓	✓ TL-160M	--	✓ TS-160	✓ TS-160P	✓ 8", 10"	✓ 5C, 16C
	RWA-160R	✓ 6", 8"	✓	✓ TL-135M	--	✓ TS-135	✓ TS-135P	✓ 6", 8"	✓ 5C, 16C
	RWA-200R	✓ 8", 10"	✓	✓ TL-160M	--	✓ TS-160	✓ TS-160P	✓ 8", 10"	✓ 5C, 16C
	RWA-250R	✓ 10"	✓	✓ TL-160M	--	✓ TS-160	✓ TS-160P	--	✓ 5C, 16C
	RWA-320R	✓ 12"	✓	✓ TL-210M	--	✓ TS-210	✓ TS-210P	--	✓ 16C
	RBS-160R	✓ 6", 8"	✓	✓ TL-160M	--	✓ TS-160	✓ TS-160P	✓ 6", 8"	✓ 5C, 16C
	RBS-250R	✓ 10"	✓	✓ TL-210M	--	✓ TS-210	✓ TS-210P	--	✓ 16C
	RBS-320R	✓ 12"	✓	✓ TL-255M	--	✓ TS-255	✓ TS-255P	--	--
	TWA-130	✓ 5"	✓	✓ TL-150M	✓ TLP-150	--	--	✓ 5"	✓ 5C
	TWA-160	✓ 6"	✓	✓ TL-180M	✓ TLP-180	--	--	✓ 6", 8"	✓ 5C
	TWA-200	✓ 8"	✓	✓ TL-210M	✓ TLP-210	--	--	✓ 8", 10"	--
	TN-320	✓ 12"	✓	✓ TL-255M	✓ TLP-255	--	--	--	--



CHUCKS



TAILSTOCKS



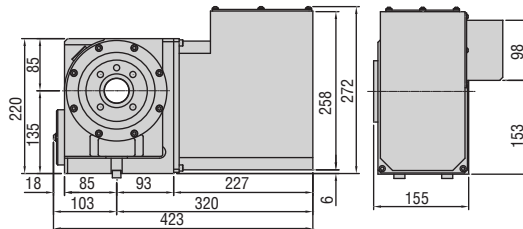
SUPPORT SPINDLES



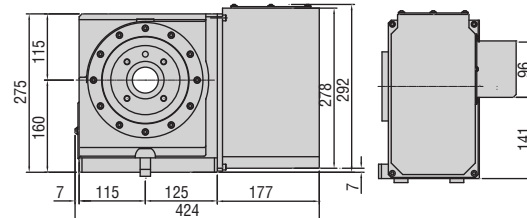
FACEPLATES

RNE, RWA, & RBS SERIES ROTARY TABLE DIMENSIONS (Drawings Not To Scale)

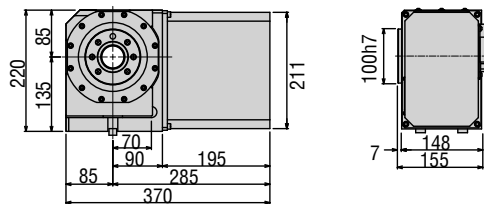
RNE-160



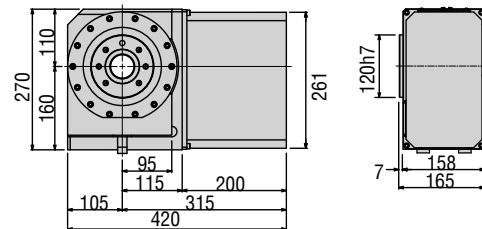
RNE-200



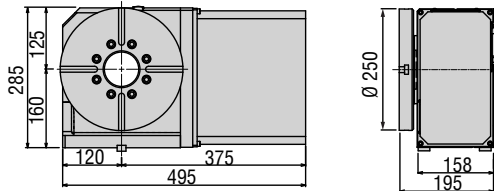
RWA-160



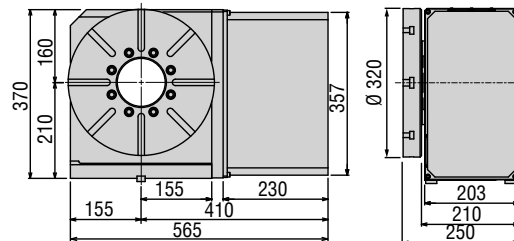
RWA-200



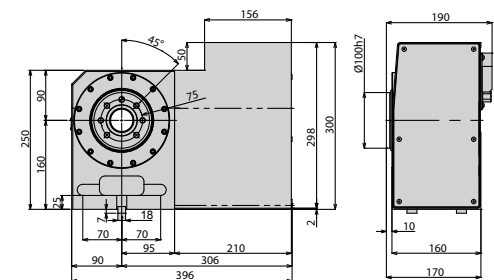
RWA-250



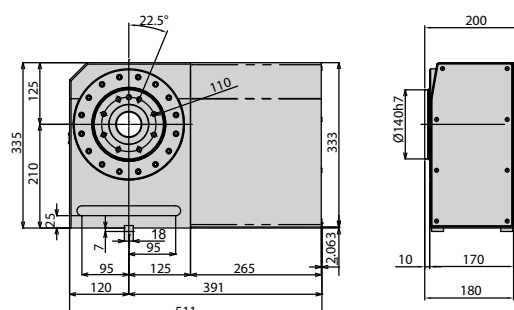
RWA-320



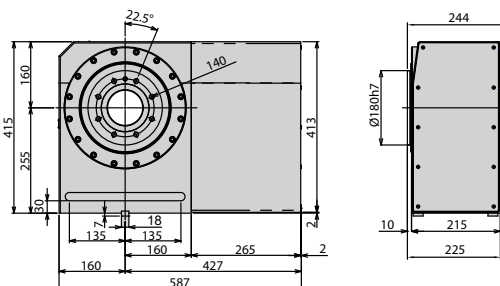
RBS-160



RBS-250

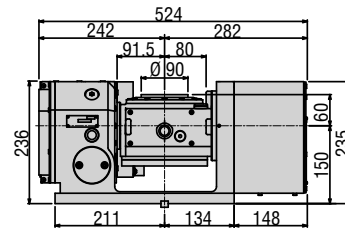
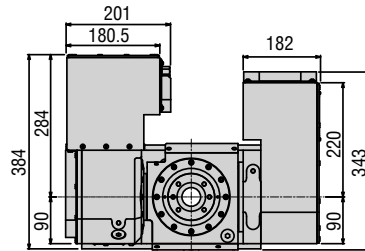


RBS-320

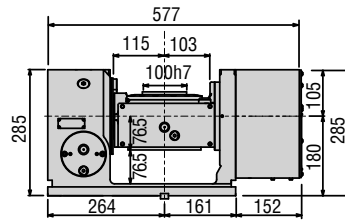
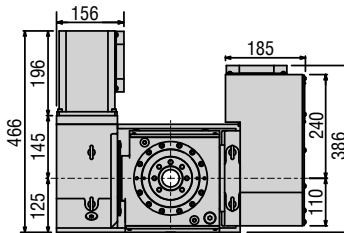


TWA & TBS Series ROTARY TABLE DIMENSIONS (Drawings Not To Scale)

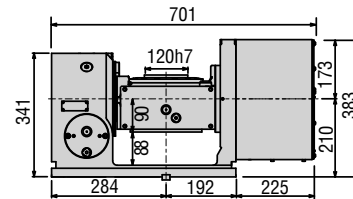
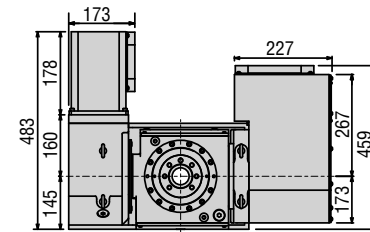
TWA-131



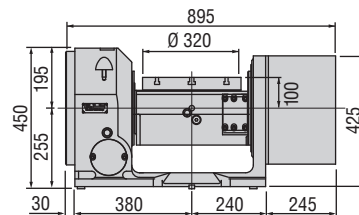
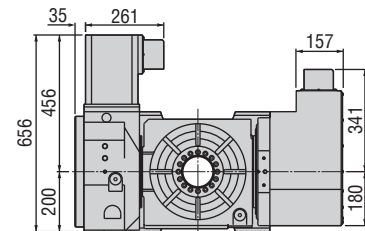
TWA-161



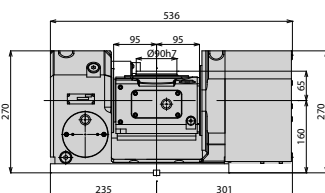
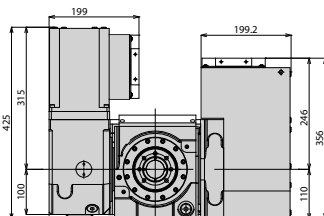
TWA-201



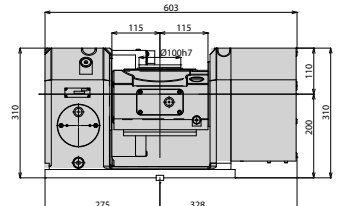
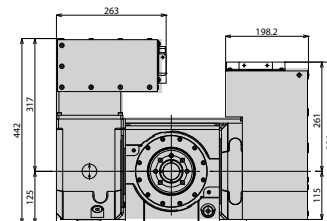
TN-320



TBS-130



TBS-160



RWA & RNE-Series Rotary Tables

Table Model		RWA-160	RWA-200	RWA-250 (S)	RWA-320 (S)	RNE-160	RNE-200
Versions available		R, L	R, L	R, L	R, L	R, L	R, L
Spindle outer diameter		100h7	120h7	140h7	180h7	100h7	120h7
Table diameter (optional)		(160, 200)	(200, 250)	250	320	(160, 200)	(200, 250)
Center height		135	160	160	210	135	160
Center bore	Nose Diameter	55H7	65H7	80H7	115H7	55H7	65H7
	Thru Diameter	40	45	50	85	40	45
Table T-slot width (with face plate)		(12H8)	(12H8)	12H8	14H7	(12H8)	(12H8)
Minimum spindle center distance		-	-	-	-	-	-
Guide block width		14h7	18h7	18h7	18h7	14h7	18h7
Servo motor (Fanuc) *		Alpha 2i	Alpha 4i	Alpha 8i (8is)	Alpha 8i (22is)	Alpha 4i	Alpha 4i
Maximum motor speed rpm		5,000	4,000	3,000 (4,000)	3,000 (4,000)	4,000	4,000
Speed reduction ratio		1/72	1/72	1/90 (1/45)	1/120 (1/45)	1/90	1/90
Number of spindles		-	-	-	-	-	-
Maximum table speed rpm		69.4	55.6	33.3 (88.9)	25 (88.9)	44.4	44.4
Inertia converted into motor shaft $\times 10^{-3} \text{kg} \cdot \text{m}^2$		.09	.17	.41 (.44)	.52 (1.66)	.09	.17
Clamp system		Pneumatic Dual Taper				Pneumatic Disc Clamp	
Clamp torque @72psi Nm (ft. lbs.)		500 (369)	800 (590)	1,000 (737)	1,500 (1,106)	250 (180)	400 (295)
Indexing accuracy arc sec.		± 12.5	± 10	± 10	± 10	± 12.5	± 10
Repeatability arc sec.		± 2				± 2	± 2
Net Weight kg (lbs.)		38 (84)	61 (134)	80 (176)	145 (319)	44 (97)	62 (136)
Allowable wheel torque Nm (ft. lbs.)		206 (152)	288 (212)	596 (439)	939 (692)	206 (152)	288 (212)
Allowable work inertia $\text{kg} \cdot \text{m}^2$		.64	1.25	1.95	4.48	.48	1.25
Allowable work weight	 kg (lbs) [w/ tailstock]	100 (220) [175 (385)]	125 (275) [250 (550)]	125 (275) [250 (550)]	175 (385) [375 (825)]	75 (165) [150 (330)]	100 (220) [250 (550)]
	 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)	7,840 (1,762)	13,720 (3,085)
	 Nm (ft. lbs.)	500 (369)	800 (590)	1,000 (737)	1,500 (1,106)	250 (180)	400 (295)
	 Nm (ft. lbs.)	780 (575)	1,900 (1,400)	1,900 (1,400)	4,700 (3,464)	392 (290)	980 (723)

* Other motors & RPM available

** Booster optional

Dimensions = mm

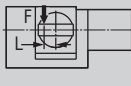
Specifications subject to change without notice

RBS Rotary Tables

Table Model			RBS-160	RBS-250	RBS-320
Versions available			R	R	R
Spindle outer diameter	mm		100h7	140h7	180h7
Table diameter	mm		(160, 200)	250	320
Center height	mm		160	210	255
Center bore	Nose Diameter	mm	55H7	80H7	115H7
	Thru Diameter	mm	40	50	85
Table T-slot width			12H8	12H8	14H8
Guide block width			14h7	18h7	18h7
Servo motor (Fanuc)*			Alpha 4i	Alpha 8i	Alpha 12i
Maximum motor speed	rpm		5,000	5,000	4,000
Speed reduction ratio			1/36	1/36	1/36
Maximum table speed	rpm		138.9	138.9	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		
Indexing accuracy	arc sec.		± 7.5	± 7.5	± 7.5
Repeatability	arc sec.		± 2	± 2	± 2
Net Weight	kg (lbs.)		55 (121.2)	100 (220)	200 (440)
Allowable wheel torque	Nm (ft. lbs.)		--		
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
Allowable work weight	 kg (lbs) [w/ tailstock]		100 (200) [200 (440)]	125 (275) [250 (550)]	175 (385) [350 (770)]
	 kg (lbs)		200 (440)	250 (550)	350 (770)
Allowable load when table clamped	 N (lbf)		10,800 (2,419)	14,400 (3,226)	24,800 (5,555)
	 Nm (ft. lbs.)		500 (369)	1,000 (737)	1,500 (1,106)
	 Nm (ft. lbs.)		780 (575)	1,900 (1,400)	4,700 (3,464)

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

TWA & TBS Series Rotary Tables

Model		TWA-131		TWA-161		TWA-201		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/face plate)		235 (260 w/face plate)		270 (300 w/face plate)		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		102		40		40			
Table T-slot width		12H8 (w/face plate)		12H8 (w/face plate)		12H8 (w/face plate)		14H7		-		-			
Guide block width		14h7		18h7		18h7		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	4,000	4,000	3,000	3,000	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	88.9	44.4	25	12.5	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	-		
Indexing repeatability arc sec.		±2	-	±2	-	±2	-	±2	-	±2	-	±2	-		
Tilting accuracy arc sec.		-	±22.5	-	±22.5	-	±22.5	-	±22.5	-	±17.5	-	±17.5		
Tilting repeatability arc sec.		-	±4	-	±2	-	±2	-	±2	-	±2	-	±2		
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 • Dimensions = mm • Specifications subject to change without notice



20 Thompson Rd | East Windsor | CT 06088
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ROTARY TABLES | ANGLE HEADS | LIVE TOOLS | SWISS TOOLS | TOOL PRESETTERS