



TSUDAKOMA
ROTARY TABLE
SELECTION GUIDE

ABOUT US

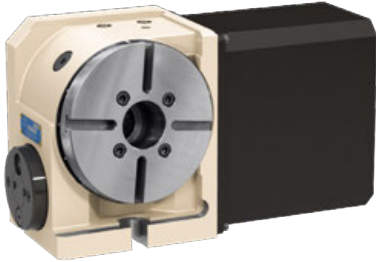
KOMA PRECISION

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



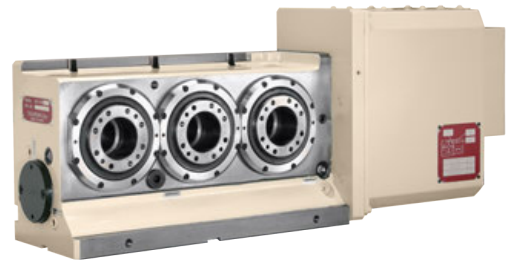
RWA SERIES



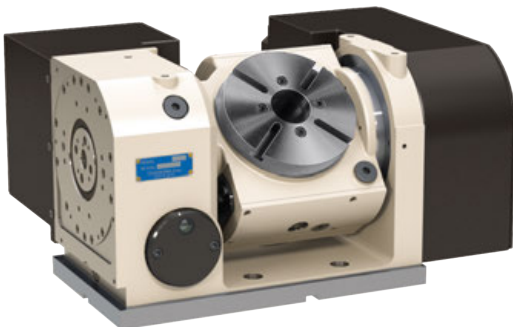
RBS SERIES



5TH AXIS TILTING
RTT-111, CA



RN-MULTI SERIES



TWA SERIES



TBS SERIES

MACHINE MODELS

VM20			
RWE SERIES	RWE-160R	RWE-200R	
RWA SERIES	RWA-160	RWA-200R	
RBS SERIES	RBS-160R		
RN-MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4
TWA SERIES	TWA-130		
TBS SERIES	TBS-130		
5 TH AXIS TILTING	RTT-111 CA		
VM30			
RWE SERIES	RWE-160R	RWE-200R	
RWA SERIES	RWA-160	RWA-200R	RWA-250R
RBS SERIES	RBS-160R	RBS-200R	
RN-MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4
TWA SERIES	TWA-160	TWA-200	
TBS SERIES	TBS-160		
VM2016			
RWE SERIES	RWE-160R	RWE-200R	
RWA SERIES	RWA-160R	RWA-200R	
RBS SERIES	RBS-160R		
RN-MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4
TWA SERIES	TWA-130		
TBS SERIES	TBS-130		
5 TH AXIS TILTING	RTT-111 CA		



VM20



VM30



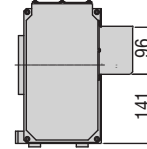
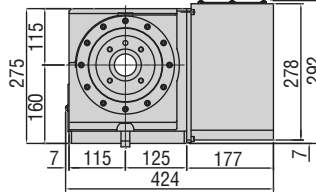
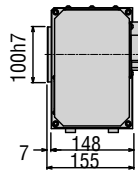
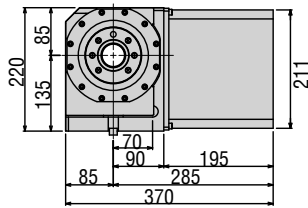
VM2016

ROTARY TABLE DIMENSIONS

RWE & RWA Series

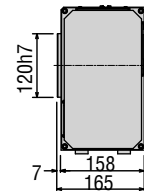
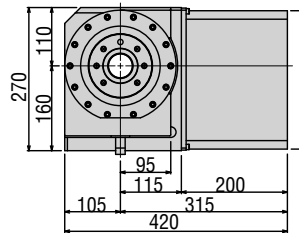
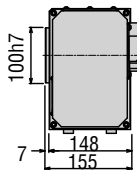
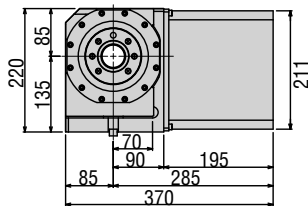
(Drawings Not To Scale)

RWE-160



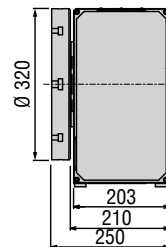
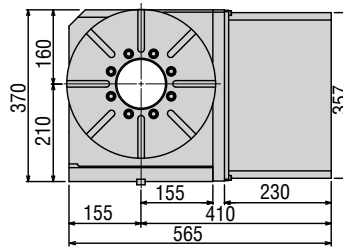
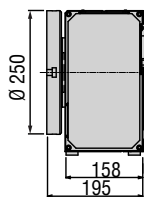
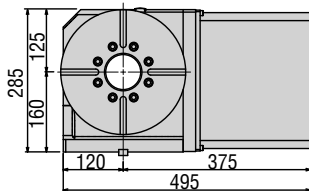
RWE-200

RWA-160



RWA-200

RWA-250



RWA-320

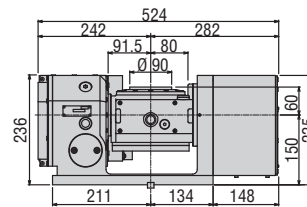
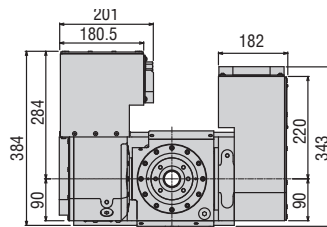
Please contact Koma Precision to confirm Milltronics / Tsudakoma Rotary Table working envelope.

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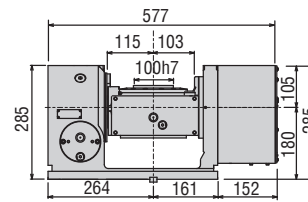
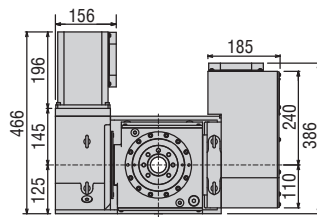
ROTARY TABLE DIMENSIONS

TWA Series (Drawings Not To Scale)

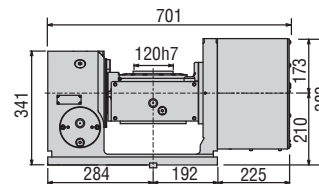
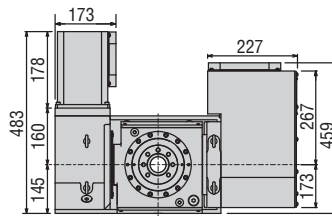
TWA-130



TWA-160



TWA-200

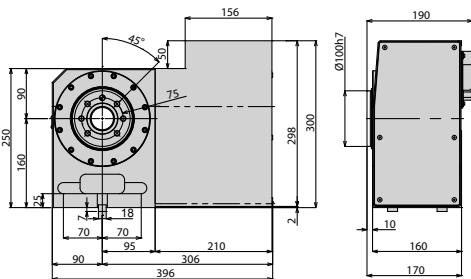


ROTARY TABLE DIMENSIONS

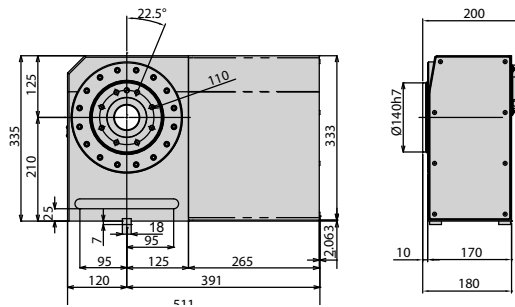
RBS & RN-Multi Series

(Drawings Not To Scale)

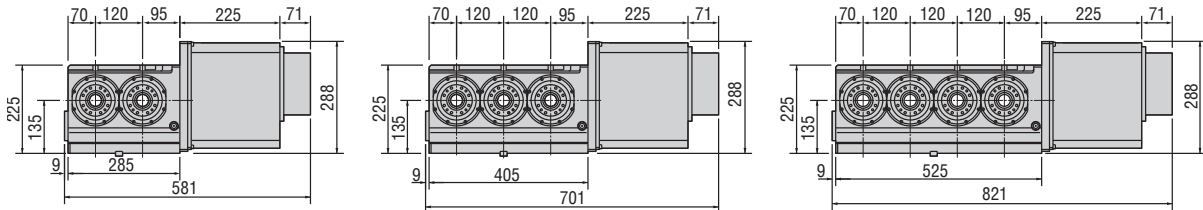
RBS-160



RBS-250



RN-100R-2,3,4



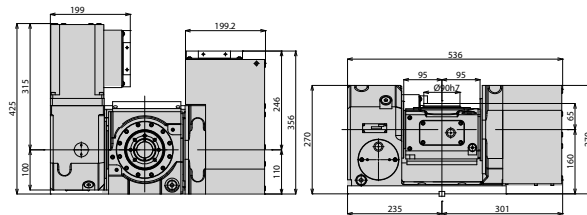
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ROTARY TABLE DIMENSIONS

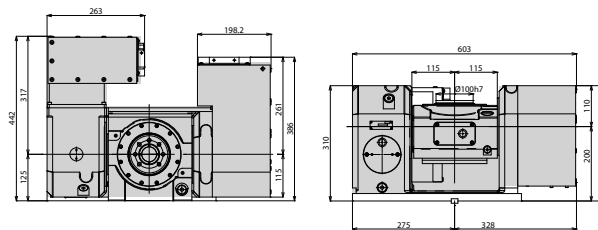
TBS-Series & RTT-111,CA

(Drawings Not To Scale)

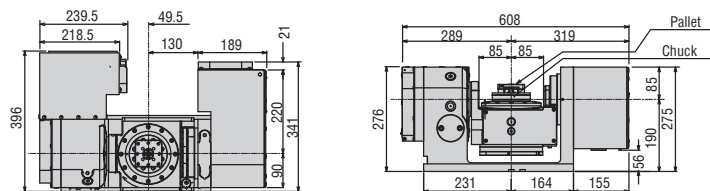
TBS-130



TBS-160



RTT-111 CA



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ROTARY TABLE SPECIFICATIONS

RN-Multi, RWA, RWE & RBS-Series

Table Model		RN-100-2,3,4	RWA-160	RWA-200	RWA-250 (S)	RWE-160	RWE-200	RBS-160	RBS-250
Versions available		R, L	R, L	R, L	R, L	R, L	R, L	R	R
Spindle outer diameter		80h7	100h7	120h7	140h7	100h7	120h7	100h7	140h7
Table diameter (optional)		(115)	(160, 200)	(200, 250)	250	(160, 200)	(200, 250)	(160, 200)	250
Center height		135	135	160	160	135	160	160	210
Center bore	Nose Diameter	50H7	55H7	65H7	80H7	55H7	65H7	55H7	80H7
	Thru Diameter	30	40	45	50	40	45	40	50
Table T-slot width (with face plate)		-	(12H8)	(12H8)	12H8	(12H8)	(12H8)	12H8	12H8
Minimum spindle center distance		120	-	-	-	-	-	-	-
Guide block width		18h7	14h7	18h7	18h7	14h7	18h7	14h7	18h7
Servo motor (Fanuc)*		Alpha 4i	Alpha 2i	Alpha 4i	Alpha 8i (8is)	Alpha 2i	Alpha 4i	Alpha 4i	Alpha 8i
Maximum motor speed	rpm	4,000	5,000	5,000	4,000 (4,000)	5,000	5,000	5,000	4,000
Speed reduction ratio		1/36	1/72	1/72	1/90 (1/45)	1/72	1/72	1/36	1/36
Number of spindles		2 3 4	-	-	-	-	-	-	-
Maximum table speed	rpm	111.1	69.4	69.4	44.4 (88.9)	69.4	69.4	138.9	111.1
Inertia converted into motor shaft	x 10 ⁻³ kg.m ²	.64 .92 1.06	.09	.17	.41 (.44)	.09	.17	.19	.42
Clamp system		Pneumatic		Pneumatic Dual Taper		Pneumatic Disc Clamp		Pneumatic Disc Clamp	
Clamp torque @72psi	Nm (ft. lbs.)	80 (59)	500 (369)	800 (590)	1,000 (737)	250 (180)	400 (295)	700 (516)	1480 (1076)
Indexing accuracy	arc sec.	±30	±12.5	±10	±10	±12.5	±10	±12.5	±10
Net Weight	kg (lbs.)	70-110(154-242)	38 (84)	61 (134)	80 (176)	40 (88)	61 (135)	44 (97)	62 (136)
Allowable wheel torque	Nm (ft. lbs.)	176 (130)	206 (152)	288 (212)	596 (439)	206 (152)	288 (212)	206 (152)	288 (212)
Allowable work inertia	kg.m ²	.10	.64	1.25	1.95	.64	1.25	.48	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)]	100 (220) [200 (441)]	125 (275) [250 (551)]	75 (165) [150 (330)]	100 (220) [250 (550)]
	 kg (lbs)	50 (110)	200 (440)	250 (550)	250 (550)	-	-	-	-
Allowable load when table clamped	 N (lbf)	5,880 (1,317)	10,800 (2,419)	14,400 (3,226)	14,400 (3,226)	10,800 (2,419)	14,400 (3,226)	7,840 (1,762)	13,720 (3,085)
	 Nm (ft. lbs.)	80 (59)	500 (369)	800 (590)	1,000 (737)	500 (369)	800 (590)	250 (180)	400 (295)
	 Nm (ft. lbs.)	156 (115)	780 (575)	1,900 (1,400)	1,900 (1,400)	780 (575)	1,900 (1,400)	392 (290)	980 (723)

* Other motors & RPM available

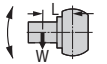
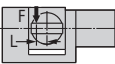
** Booster optional

Dimensions = mm

Specifications subject to change without notice

ROTARY TABLE SPECIFICATIONS

TWA, TBS-Series and RTT-11,CA

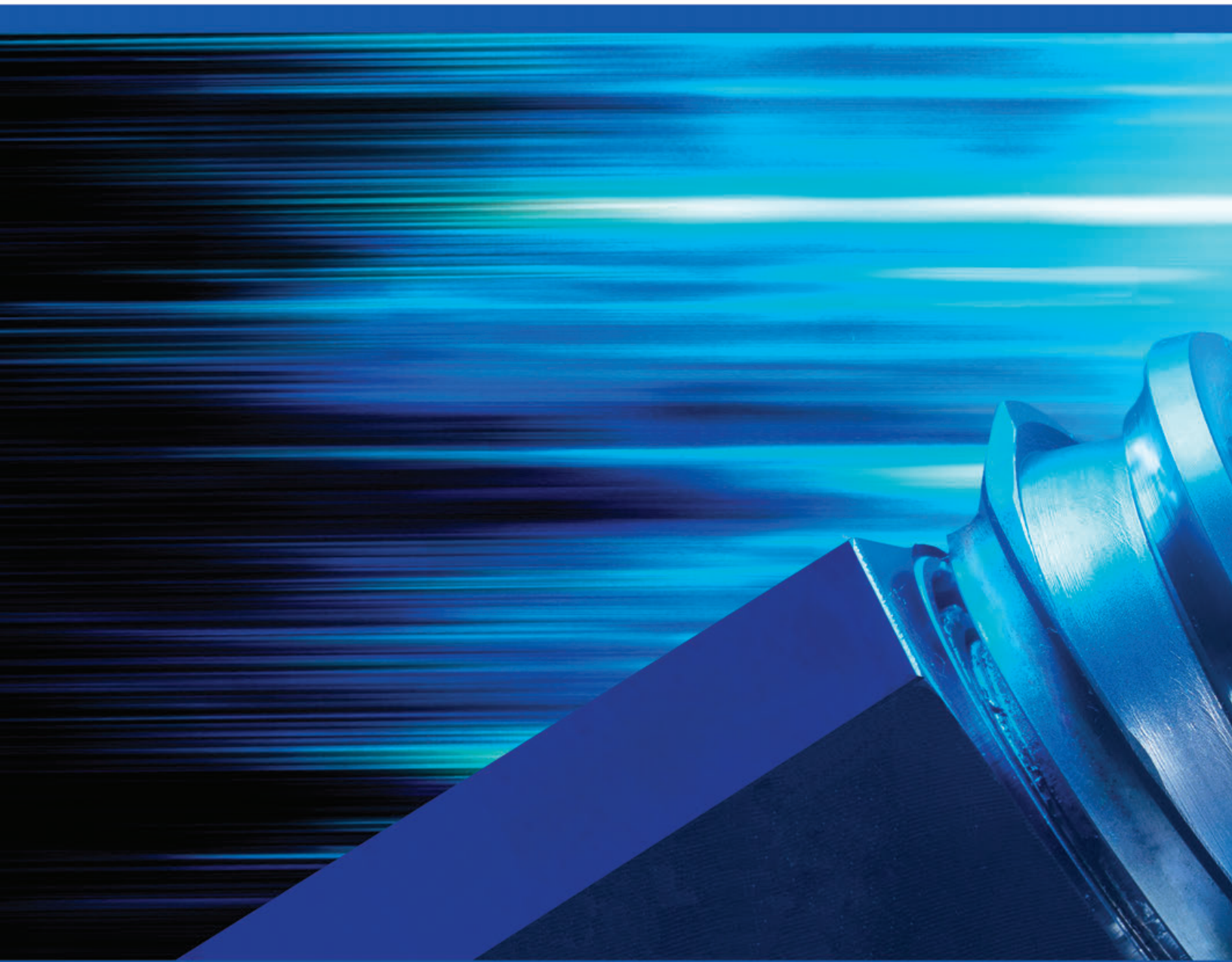
Model		TWA-130		TWA-160		TWA-200		RTT-111, CA		TBS-130		TBS-160	
Tilt Range		-17° ~ +107°		-30° ~ +110°		-30° ~ +110°		-17° ~ +107°		-30° ~ +110°		-30° ~ +110°	
Spindle outer diameter		90h7		100h7		120h7				90h7		100h7	
Table diameter (optional)		(135)		160 (200)		200 (250)				(135)		(160 or 200)	
Table height at 0° position		210 (235 w/face plate)		235 (260 w/face plate)		270 (300 w/face plate)		190		225 (250 w/faceplate)		270 (300 w/faceplate)	
Center height at 90° position		150		180		210		190		160		200	
Center bore	Nose Diameter (w/face plate)	55H7 (40H7)		55H7 (50H7)		65H7 (60H7)		-		55H7 (40H7)		55H7 (50H7)	
	Thru Diameter	35		40		45		-		40		40	
Table T-slot width		12H8 (w/face plate)		12H8 (w/face plate)		12H8 (w/face plate)		-		12H8		12H8	
Guide block width		14h7		18h7		18h7		14H7		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 2i	Alpha 2i	Alpha 2i	Alpha 2i	Alpha 2i	Alpha 4i
Maximum motor speed	rpm	5,000	5,000	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	1/45	1/90	1/60	1/120	1/48	1/60	1/60	1/60
Maximum table speed	rpm	83.3	41.7	69.4	41.7	111.1	55.5	83.3	41.7	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	.074	.072	.074	.072	.17	.18
Clamp system		Pneumatic Dual Taper						Hydraulic @500 psi **		Pneumatic			
Clamp torque @72psi [500 psi]	Nm (ft. lbs.)	500 (369)	500 (369)	500 (369)	800 (590)	800 (590)	1,000 (737)	500 (369)	500 (369)	700 (516)	700 (516)	700 (516)	700 (516)
Indexing accuracy	arc sec.	±20	-	±15	-	±15	-	±20	-	±10	-	±10	-
Tilting accuracy	arc sec.	-	±22.5	-	±22.5	-	±22.5	-	±30	-	±17.5	-	±17.5
Net Weight	kg (lbs.)	76 (167)		127 (279)		190 (418)		98 (216)		125 (276)		160 (353)	
Allowable wheel torque - rotary	Nm (ft. lbs.)	152 (112)		200 (147)		450 (332)		152 (112)		-		-	
Allowable work inertia	kg·m ²	.08		.19		.59		.08		.08		.19	
Allowable work weight	0° tilt angle		kg (lbs)	35 (77)	60 (132)	120 (264)		35 (77)		35 (77)		60 (132)	
	0° ~ 90° tilt angle		kg (lbs)	20 (44)	40 (88)	70 (154)		20 (44)		20 (44)		40 (88)	
Allowable work moment		Nm (ft. lbs.)	24 (17.7)	39.2 (28.9)	53.7 (39.6)		57 (42)		61.1		59.6		
Allowable load when table clamped		N (lbf)	3,920 (878)	7,840 (1,756)	13,720 (3,073)		3,920 (878)		3,920 (878)		10,800		
		Nm (ft. lbs.)	500 (369)	500 (369)	800 (590)		500 (369)		700 (516)		700 (516)		
		Nm (ft. lbs.)	500 (369)	800 (590)	1,000 (737)		500 (369)		700 (516)		700 (516)		

* Other motors & RPM available

** Booster optional

Dimensions = mm

Specifications subject to change without notice



Tsudakoma-Milltronics 19.0 1/15/19



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