



TSUDAKOMA
ROTARY TABLE
SELECTION GUIDE

HURCO

ABOUT US

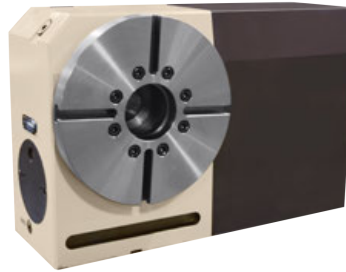
KOMA PRECISION

For over thirty years Koma Precision has been the foremost source for the finest the world has to offer in machine tool Productivity Innovation.

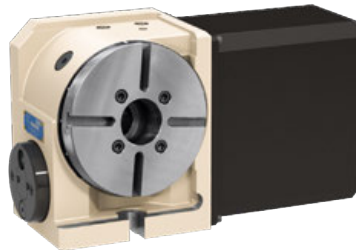
With over 30,000 rotary table installations, Koma is the largest distributor of Tsudakoma NC rotary tables and indexers in the world. With over 12,000 angle heads and live tools installed, Koma is the world's largest supplier for Alberti - the originator and the foremost innovator of productivity tooling.



ROTARY TABLES



RBS-Series



RWE Series



TWA-Series

VM SERIES

VM5i				
RWE SERIES	RWE-160	RWE-200		
RBS SERIES	RBS-160			
VM10i				
RWE SERIES	RWE-160	RWE-200		
RBS SERIES	RBS-160			
TWA SERIES	TWA-130			
VM20i				
RWE SERIES	RWE-160	RWE-200		
RBS SERIES	RBS-160	RBS-250		
TWA SERIES	TWA-130	TWA-160		
VM30i				
RWE SERIES	RWE-160	RWE-200		
RBS SERIES	RBS-160	RBS-250		
TWA SERIES	TWA-130	TWA-160	TWA-200	
VM10HSi				
RWE SERIES	RWE-160	RWE-200		
RBS SERIES	RBS-160			
TWA SERIES	TWA-130			



VM Series
General Purpose

VMX SERIES

VMX24i			
RWE SERIES	RWE-160	RWE-200	
RBS SERIES	RBS-160		
VMX30i			
RWE SERIES	RWE-160	RWE-200	
RBS SERIES	RBS-160	RBS-250	
TWA SERIES	TWA-130		
VMX42i			
RWE SERIES	RWE-160	RWE-200	
RBS SERIES	RBS-160	RBS-250	
TWA SERIES	TWA-130	TWA-160	
VMX50i			
RWE SERIES	RWE-160	RWE-200	
RBS SERIES	RBS-160	RBS-250	
TWA SERIES	TWA-130	TWA-160	TWA-200
VMX6030i			
RWE SERIES	RWE-160	RWE-200	
RBS SERIES	RBS-160	RBS-250	
TWA SERIES	TWA-160	TWA-200	TN-320
VMX64i			
RWE SERIES	RWE-160	RWE-200	
RBS SERIES	RBS-160	RBS-250	
TWA SERIES	TWA-160	TWA-200	TN-320
VMX84i			
RWE SERIES	RWE-160	RWE-200	
RBS SERIES	RBS-160	RBS-250	
TWA SERIES	TWA-160	TWA-200	TN-320



VMX Series
Performance

VMX-HSi SERIES

VMX24HSi			
RWE SERIES	RWE-160	RWE-200	
RBS SERIES	RBS-160	RBS-250	
TWA SERIES	TWA-130		
VMX42HSi			
RWE SERIES	RWE-160	RWE-200	
RBS SERIES	RBS-160	RBS-250	
TWA SERIES	TWA-130		

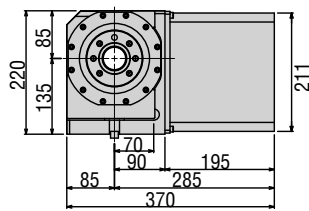


VMX-HSi Series
High Speed

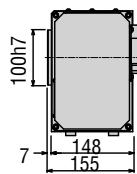
ROTARY TABLE DIMENSIONS

RWE Series

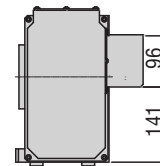
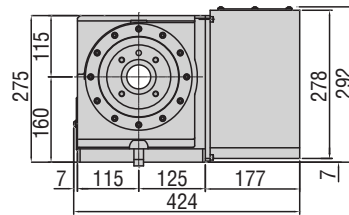
(Drawings Not To Scale)



RWE-160

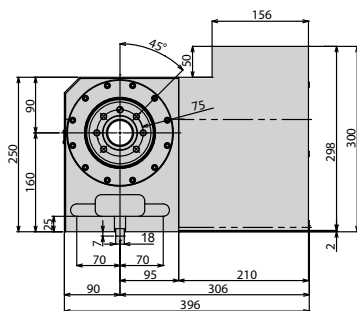


RWE-200

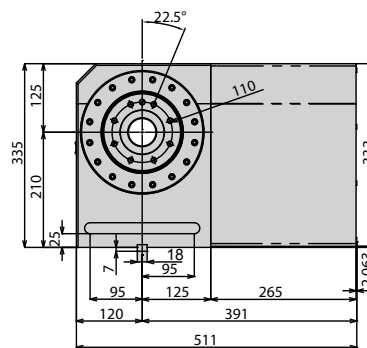
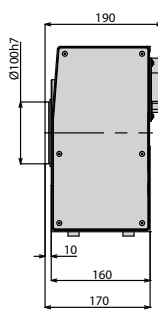


RBS-Series

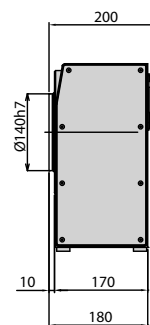
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RBS-160

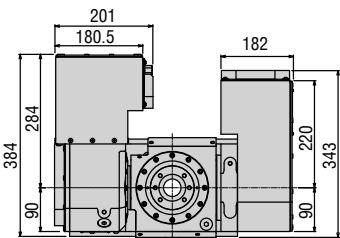


RBS-250

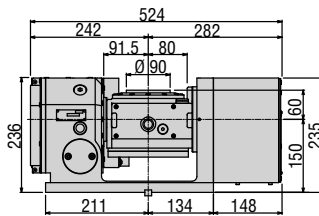


ROTARY TABLE DIMENSIONS

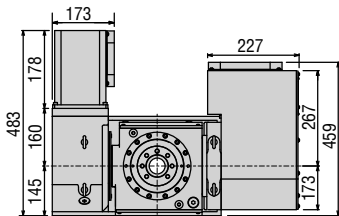
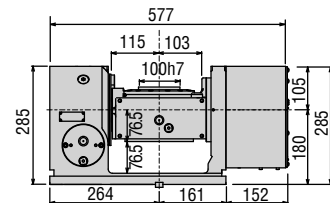
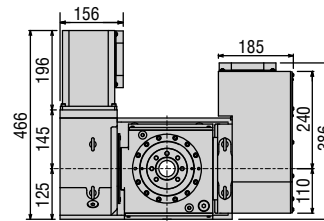
TWA-Series (Drawings Not To Scale)



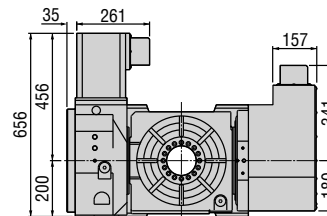
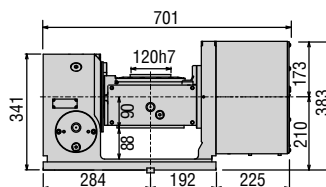
TWA-130



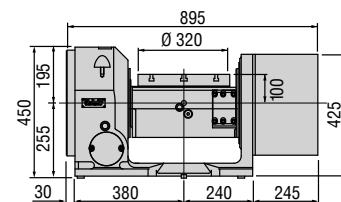
TWA-160



TWA-200



TN-320



ROTARY TABLE SPECIFICATIONS

RWE-Series

Table Model		RWE-160	RWE-200
Versions available		R, L	R, L
Spindle outer diameter		100h7	120h7
Table diameter (optional)		(160, 200)	(200, 250)
Center height		135	160
Center bore	Nose Diameter	55H7	65H7
	Thru Diameter	40	45
Table T-slot width (with face plate)		(12H8)	(12H8)
Minimum spindle center distance		-	-
Guide block width		14h7	18h7
Servo motor (Fanuc)*		Alpha 2i	Alpha 4i
Maximum motor speed	rpm	5,000	5,000
Speed reduction ratio		1/72	1/72
Maximum table speed	rpm	69.4	69.4
Inertia converted into motor shaft	$\times 10^{-3} \text{kg}\cdot\text{m}^2$	.09	.17
Clamp system		Pneumatic Disc Clamp	
Clamp torque @72psi	Nm (ft. lbs.)	250 (180)	400 (295)
Indexing accuracy	arc sec.	± 12.5	± 10
Net Weight	kg (lbs.)	40 (88)	61 (135)
Allowable wheel torque	Nm (ft. lbs.)	206 (152)	288 (212)
Allowable work inertia	$\text{kg}\cdot\text{m}^2$	.64	1.25
Allowable work weight	 kg (lbs) [w/ tailstock]	100 (220) [200 (441)]	125 (275) [250 (551)]
	 kg (lbs)	-	-
Allowable load when table clamped	 N (lbf)	10,800 (2,419)	14,400 (3,226)
	 Nm (ft. lbs.)	500 (369)	800 (590)
	 Nm (ft. lbs.)	780 (575)	1,900 (1,400)

* Other motors & RPM available

** Booster optional

Dimensions = mm

Specifications subject to change without notice

ROTARY TABLE SPECIFICATIONS

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 x 10 ⁻³ kg·m ²		.09	.17	.41
Clamp system		Pneumatic Disc Clamp		
Holding torque @72psi	Nm (ft. lbs.)	700 (516)	1480 (1076)	2580 (1901)
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)]
	 kg (lbs)	200 (440)	250 (550)	350 (770)

* Other motors & RPM available

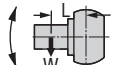
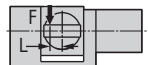
** Booster optional

Dimensions = mm

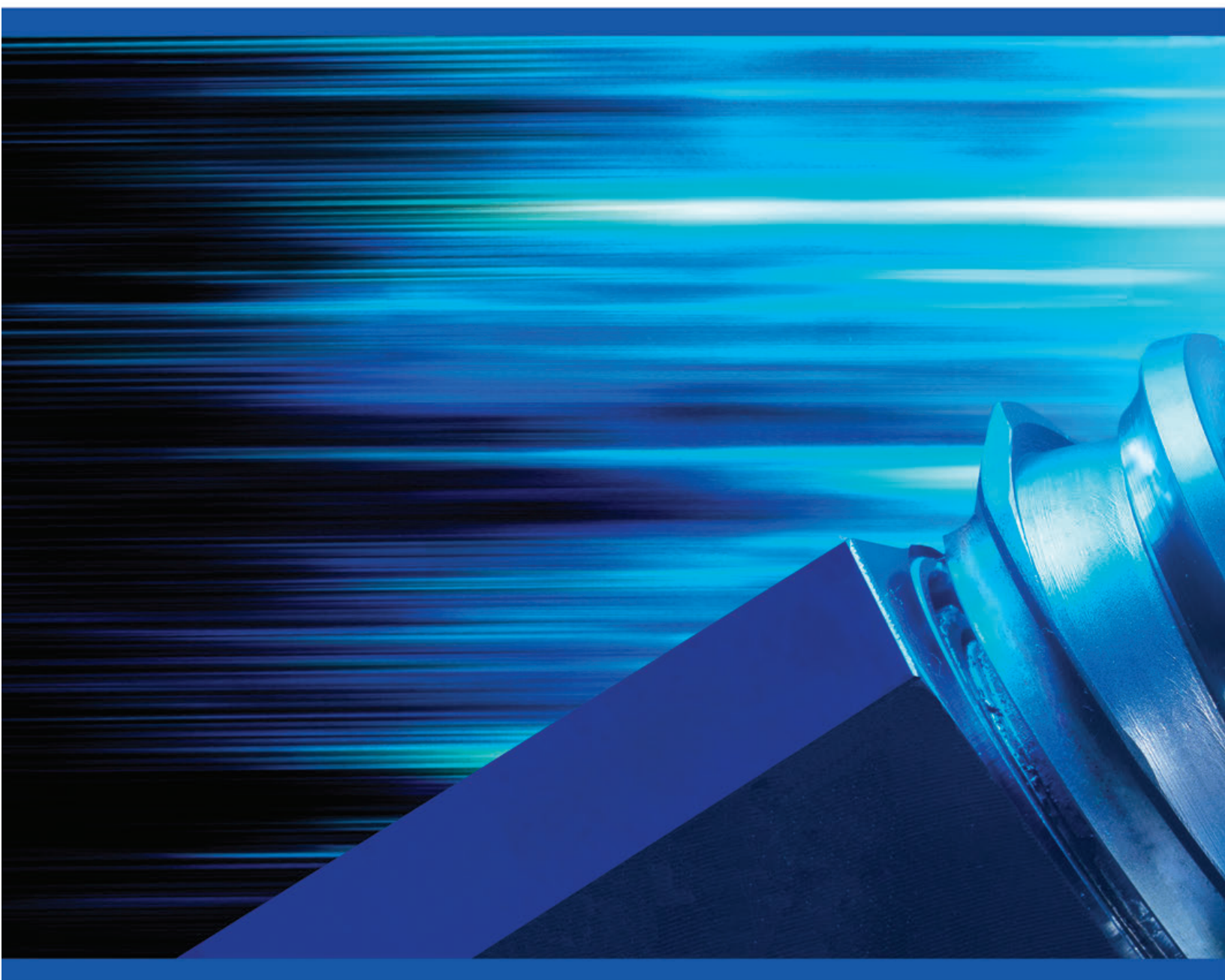
Specifications subject to change without notice

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/face plate)		235 (260 w/face plate)		270 (300 w/face plate)		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/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
		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 [500 psi]	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



Tsudakoma-Hurco 19.0 1/15/19



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