

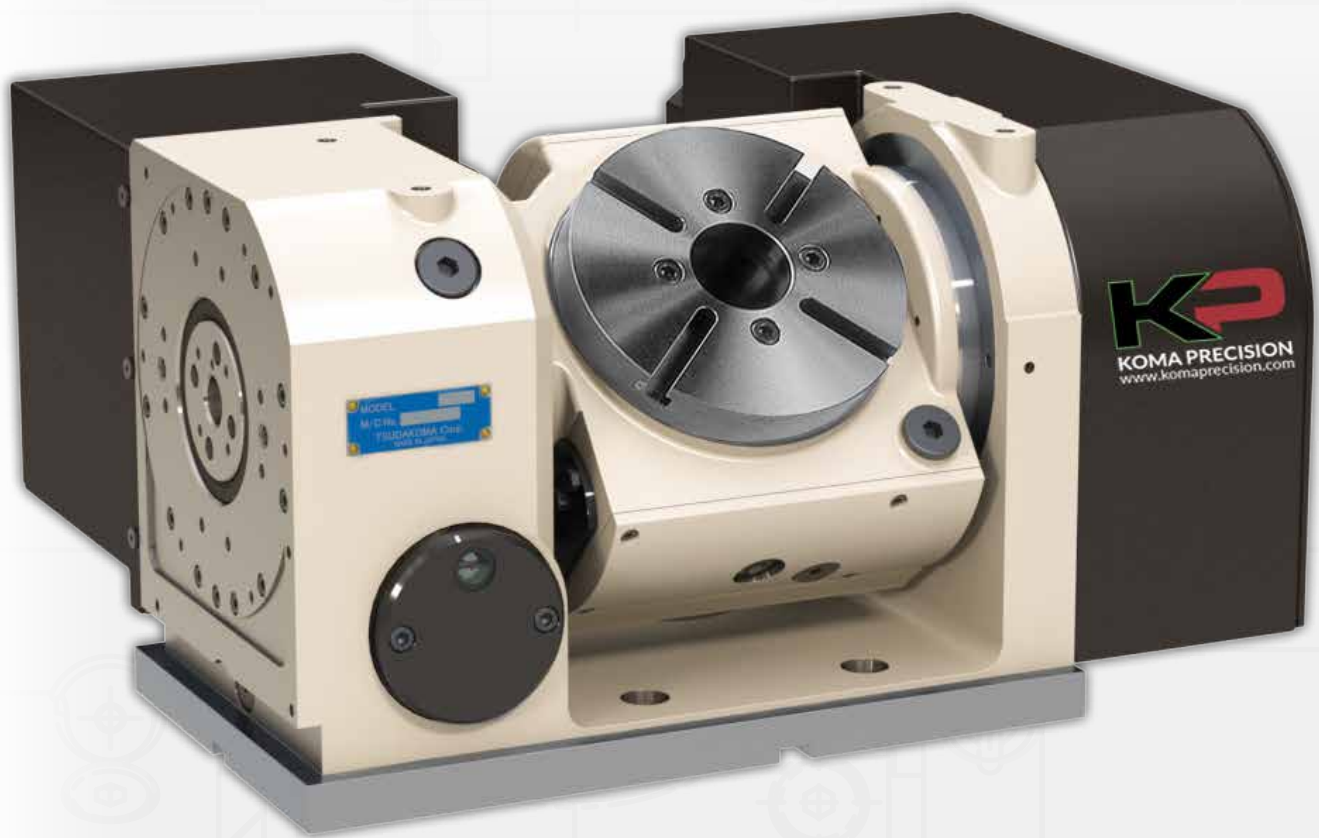


KOMA PRECISION
THE KEY TO PERFORMANCE
www.komaprecision.com

TSUDAKOMA

Rotary Table Selection Guide

2022



WE FOCUS ON BEING THE BEST—
that's why leading companies choose Koma.

WE ARE THE EXCLUSIVE NORTH AMERICAN
IMPORTER, NATIONAL DISTRIBUTOR, AND
SERVICE CENTER FOR TSUDAKOMA ROTARY TABLES.

Y. MA SEIKI.
THE ULTIMATE MACHINING POWER

KOMA PRECISION

ABOUT US

For over forty 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.





RWE SERIES



RWA SERIES

TSUDAKOMA WORM DRIVE SYSTEM

Tsudakoma utilizes full tooth depth engagement along with a larger gear module. The results are a larger surface contact area yielding a substantially stronger worm gear system. The Tsudakoma worm wheel uses an oversize diameter pitch circle resulting in reduced pressure on the contact surface compared to a conventional gearing system. These properties, as well as ultra precision cross over roller bearings, all work to enhance system rigidity and longevity.



TORQUE TRANSFER EFFICIENCY

The Tsudakoma dual lead gearing system features the largest tooth engagement of any rotary table manufacturer. This system generates up to 85% torque transfer efficiency. Tsudakoma's dual lead gearing system features exceptionally smooth cutting due to the inherent lubricating properties of the gear materials.



CROSS ROLLER BEARINGS

Ultra precision cross roller bearings support radial, axial, and moment loads providing four times the level of stiffness as angular contact bearings. Cross roller bearings are constructed with a sequence of cylindrical rollers arranged at right angles to each other within a sealed 90° V-groove. All Tsudakoma rotary tables and indexers use ultra precision cross roller bearings.

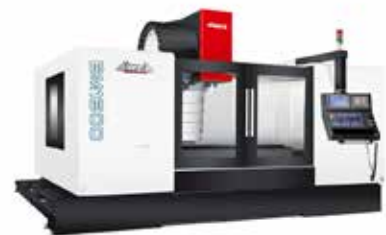
Series	Machine	Table Size (mm)	RWE-160R	RWE-200R	RWA-250R	RWA-320R
AF Series	AF-610	700 x 450	<input type="checkbox"/>	<input type="checkbox"/>		
	AF-650	750 x 510	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	AF-860	1000 x 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	AF-1000	1200 x 550	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	AF-1060	1200 x 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	AF-1250	1350 x 620	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	AF-1460	1500 x 620	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	AF-1400	1500 x 800	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	AF-1600	1700 x 800	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AV Series	AV-610	610 x 450	<input type="checkbox"/>	<input type="checkbox"/>		
	AV-650	610 x 510	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	AV-860	860 x 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	AV-1000	1020 x 550	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	AV-1060	1060 x 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	AV-1250	1250 x 620	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	AV-1460	1400 x 620	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BM Series	BM 850	1050 x 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	BM 1020	1200 x 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	BM 1200	1300 x 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	BM 1460	1500 x 650	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	BM 1400	1500 x 800	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	BM 1600	1700 x 800	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



AF Series
High Performance



AV Series
High Efficiency

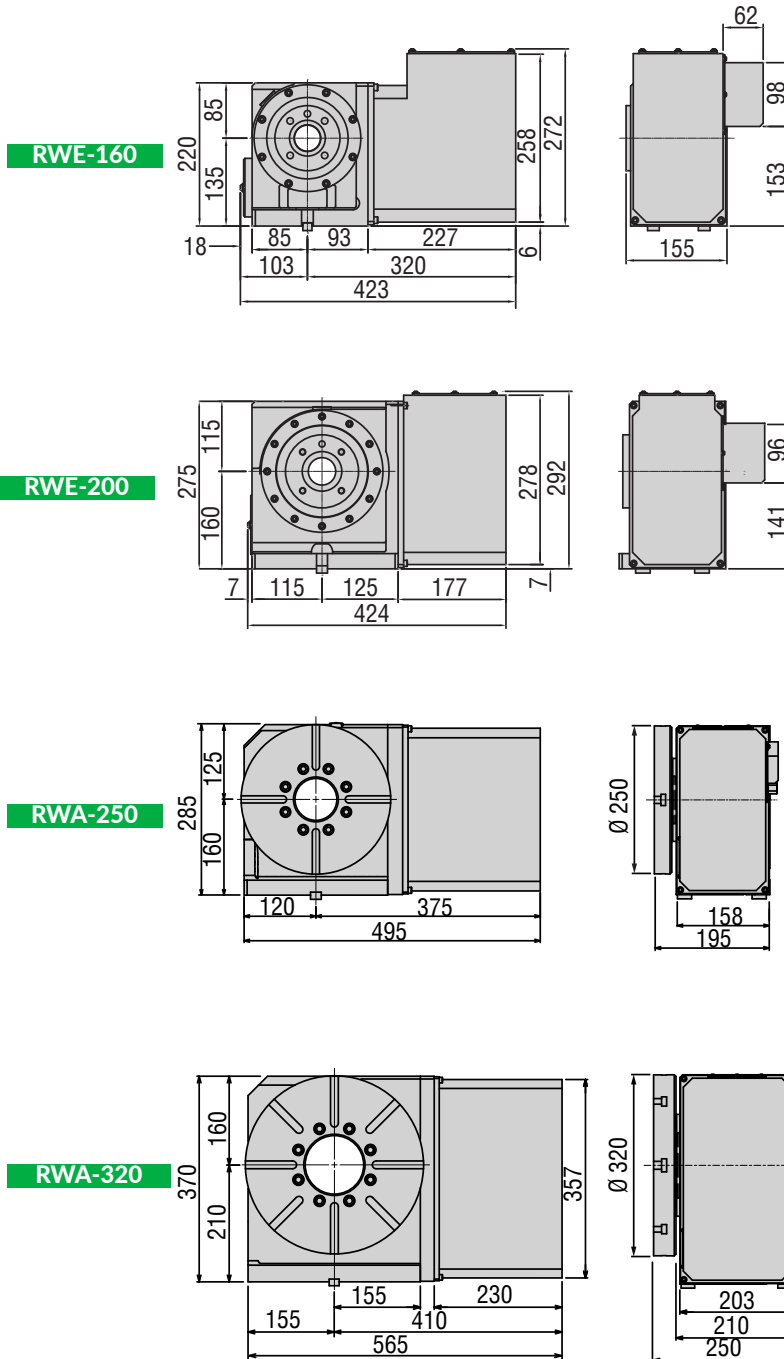


BM Series
Maximum Performance

ROTARY TABLE DIMENSIONS





RWE & RWA-Series ROTARY TABLES

(Drawings Not To Scale)



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

Specifications

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 faceplate)		(12H8)	(12H8)
Guide block width		14h7	18h7
Servo motor*		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	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 [with tailstock]	 kg (lbs)	100 (220) [200 (441)]	125 (275) [250 (551)]
Allowable load when table clamped	 Nm (ft. lbs.)	10,800 (7,960)	14,400 (10,613)
	 Nm (ft. lbs.)	500 (369)	800 (590)
	 Nm (ft. lbs.)	780 (575)	1,900 (1,400)

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

Options & Accessories

Additional Accessories Available



T-Slotted Faceplates



3-Jaw Scroll Chucks



Manual Tailstock w/ MT2 Center



Support Spindle



Support Spindle w/ Pneumatic Clamp








Pneumatic 5C Collet Chuck



RWA-SERIES SPECIFICATIONS

Specifications

Table Model		RWA-250 (S)	RWA-320 (S)
Versions available		R, L	R, L
Spindle outer diameter		140h7	180h7
Table diameter (optional)		250	320
Center height		160	210
Center bore	Nose Diameter	80H7	115H7
	Thru Diameter	50	85
Table T-slot width (with faceplate)		12H8	14H7
Guide block width		18h7	18h7
Servo motor*		Alpha 8i (8is)	Alpha 8i (22is)
Maximum motor speed	rpm	4,000 (4,000)	4,000 (3,000)
Speed reduction ratio		1/90 (1/45)	1/120 (1/45)
Maximum table speed	rpm	33.3 (88.9)	33.3 (66.6)
Inertia converted into motor shaft	$\times 10^{-3}\text{kg}\cdot\text{m}^2$.41 (.44)	.52 (1.66)
Clamp system		Pneumatic Dual Taper	
Clamp torque @72psi	Nm (ft. lbs.)	1,000 (737)	1,500 (1,106)
Indexing accuracy	arc sec.	± 10	± 10
Net Weight	kg (lbs.)	80 (176)	145 (319)
Allowable wheel torque	Nm (ft. lbs.)	596 (439)	939 (692)
Allowable work inertia	$\text{kg}\cdot\text{m}^2$	1.95	4.48
Allowable work weight [with tail-stock]	 kg (lbs) [w/ tailstock]	125 (275) [250 (550)]	175 (385) [375 (825)]
	 kg (lbs)	250 (550)	350 (770)
Allowable load when table clamped	 N (lbf)	14,400 (3,226)	24,800 (5,555)
	 Nm (ft. lbs.)	1,000 (737)	1,500 (1,106)
	 Nm (ft. lbs.)	1,900 (1,400)	4,700 (3,464)

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

Options & Accessories

Additional Accessories Available



Manual Tailstock w/ MT2 Center



3-Jaw Scroll Chucks



Support Spindle w/ Pneumatic Clamp



Support Spindle



UNLOCK YOUR POTENTIAL TODAY!

For Over 40 years Koma Precision Inc. has partnered with Tsudakoma and Alberti, to become the North American leader in machine tool accessories. Both Tsudakoma and Alberti machine tool accessories are built to the highest standards and set the bar for excellence, quality, and performance.

Koma Precision has an installation base of over 30,000 Tsudakoma rotary tables and 25,000 Alberti angle heads and live tools, leading the way with knowledge and experience.

Knowledge and Experience Matter.

Our three facilities totaling 40,000 sq/ft, feature a full machine shop, state-of-the-art inspection and test equipment, and product demonstration showroom. Our Connecticut based headquarters also houses our multi-million-dollar inventory of new products and spare parts.



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