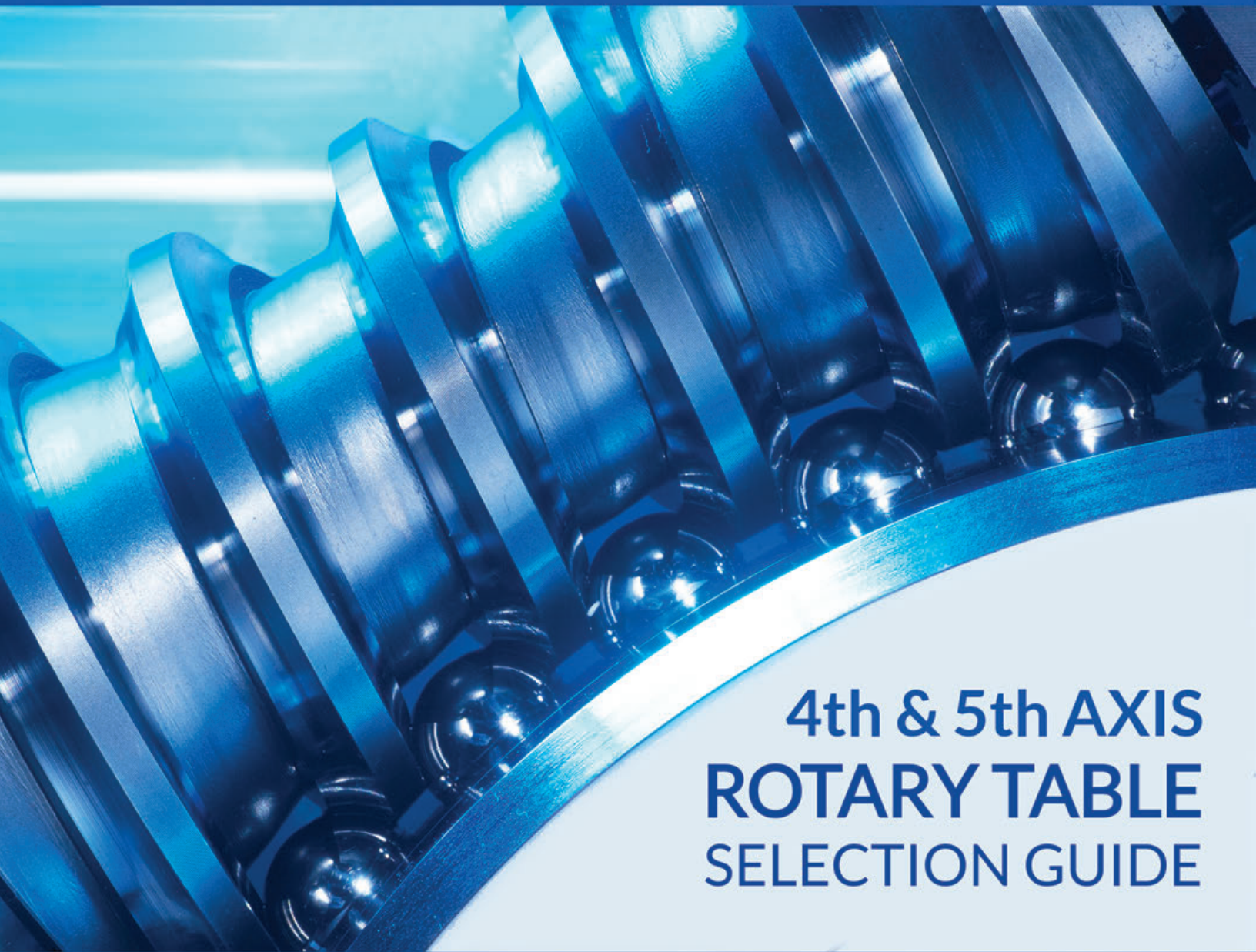




KOMMA



4th & 5th AXIS ROTARY TABLE SELECTION GUIDE



MAKINO

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.



4th AXIS ROTARY TABLE SPECIFICATIONS

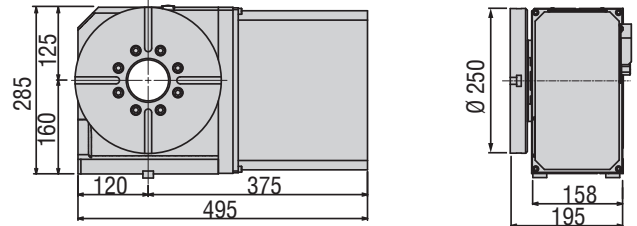
Table Model		RWA-250R,M
Spindle outer diameter		140h7
Table diameter (optional)		250
Center height		160
Center bore	Nose Diameter	80H7
	Thru Diameter	50
Table T-slot width (with faceplate)		12H8
Guide block width		18h7
Servo motor		Alpha 8i
Maximum motor speed	rpm	4,000
Speed reduction ratio		1/90
Maximum table speed	rpm	44.4
Inertia converted into motor shaft $\times 10^{-3} \text{kg}\cdot\text{m}^2$		.41
Clamp system		Pneumatic Dual Taper
Clamp torque @72psi	Nm (ft. lbs.)	1,000 (737)
Indexing accuracy	arc sec.	± 10
Net Weight	kg (lbs.)	80 (176)
Allowable wheel torque	Nm (ft. lbs.)	596 (439)
Allowable work inertia	kg·m ²	1.95
Allowable work weight	 kg (lbs)	125 (275) [250 (550)]
	 kg (lbs)	250 (550)
Allowable load when table clamped	 N (lbf)	14,400 (3,226)
	 Nm (ft. lbs.)	1,000 (737)
	 Nm (ft. lbs.)	1,900 (1,400)

Specifications subject to change without notice

• Dimensions = mm

Rotary Table Dimensions

Reference Only • Detailed drawings available upon request



Options & Accessories

Additional Accessories Available

Manual Tailstock w/ MT3 Center (TL-160M)



3-Jaw Scroll Chucks 10" (EZ-103)



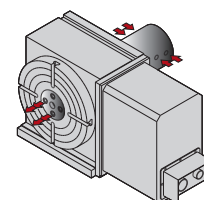
Support Spindle w/ Pneumatic Clamp (TS-160P)



Support Spindle (TS-160)



Rotary Joint 6-port | Hydraulic | 3,000 psi





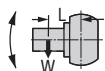
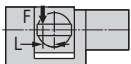
PS65 / PS105



RWA-250R,M

Compact. Massive clamp torque.

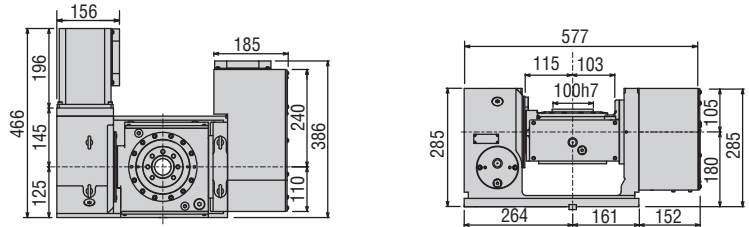
5th AXIS ROTARY TABLE SPECIFICATIONS

Model		TWA-160,M	
Tilt Range		-30° ~ +110°	
Spindle outer diameter		100h7	
Table diameter (optional)		(160 or 200)	
Table height at 0° position		235 (260 w/faceplate)	
Center height at 90° position		180	
Center bore	Nose Diameter (w/faceplate)	55H7 (50H7)	
	Thru Diameter	40	
Table T-slot width		12H8 (w/faceplate)	
Guide block width		18h7	
Servo motor*		Rotary	Tilt
		Alpha 2i	Alpha 2i
Maximum motor speed	rpm	5,000	5,000
Speed reduction ratio		1/72	1/120
Maximum table speed	rpm	69.4	41.7
Inertia converted into motor shaft	$\times 10^{-3} \text{kg} \cdot \text{m}^2$	.17	.18
Clamp system		Pneumatic Dual Taper	Pneumatic Dual Taper
Clamp torque @72psi	Nm (ft. lbs.)	500 (369)	800 (590)
Indexing accuracy	arc sec.	±15	-
Tilting accuracy	arc sec.	-	±22.5
Net Weight	kg (lbs.)	127 (279)	
Allowable wheel torque - rotary	Nm (ft. lbs.)	200 (147)	
Allowable work inertia	$\text{kg} \cdot \text{m}^2$	.19	
Allowable work weight kg (lbs)		0° tilt angle	60 (132)
		0° ~ 90° tilt angle	40 (88)
Allowable work moment		Nm (ft. lbs.)	39.2 (28.9)
Allowable load when table clamped		N (lbf)	7,840 (1,756)
		Nm (ft. lbs.)	500 (369)
		Nm (ft. lbs.)	800 (590)

Specifications subject to change without notice • Dimensions = mm

Rotary Table Dimensions

Reference Only • Detailed drawings available upon request



Options & Accessories

Additional Accessories Available

T-Slotted Faceplates

160mm
200mm



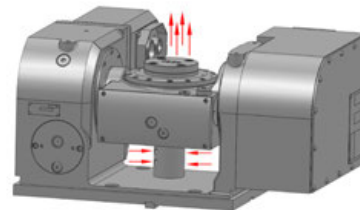
3-Jaw Scroll Chucks

6" - (EZ-63)



Rotary Joint

6-port | Hydraulic | 3,000 psi



TWA-Series Monoblock Construction

All new TWA-Series tilting rotary tables feature Tsudakoma's Monoblock one piece casting construction. Monoblock construction results in tilting tables with superior rigidity and damping characteristics, which translates into parts with smoother surface finishes. Tsudakoma is the only rotary table manufacturer with its own casting foundry.

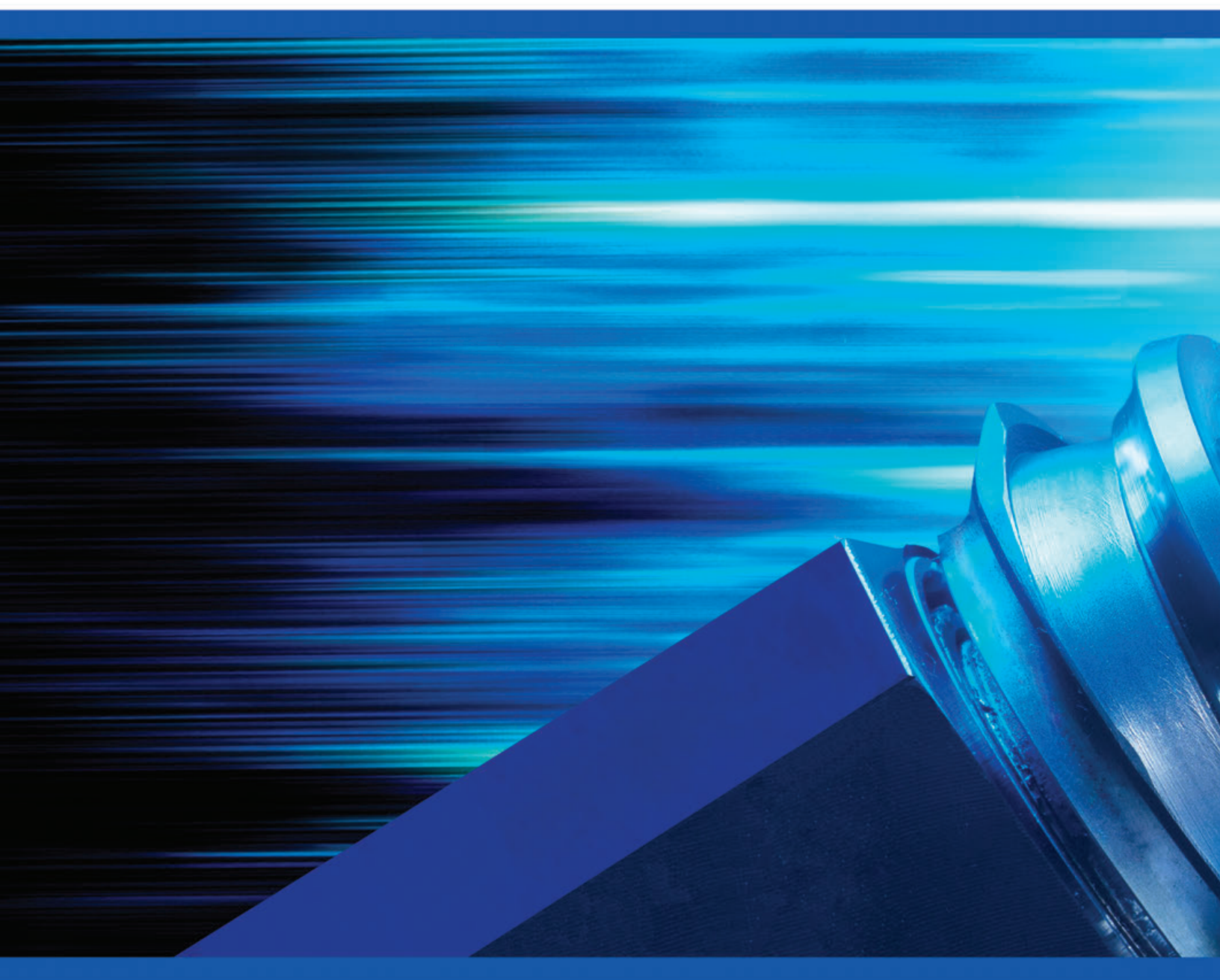


PS65 / PS105



TWA-160,M

Powerful, High Speed Tilting Tables.



Tsudakoma-Makino 19.0 1/30/19



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