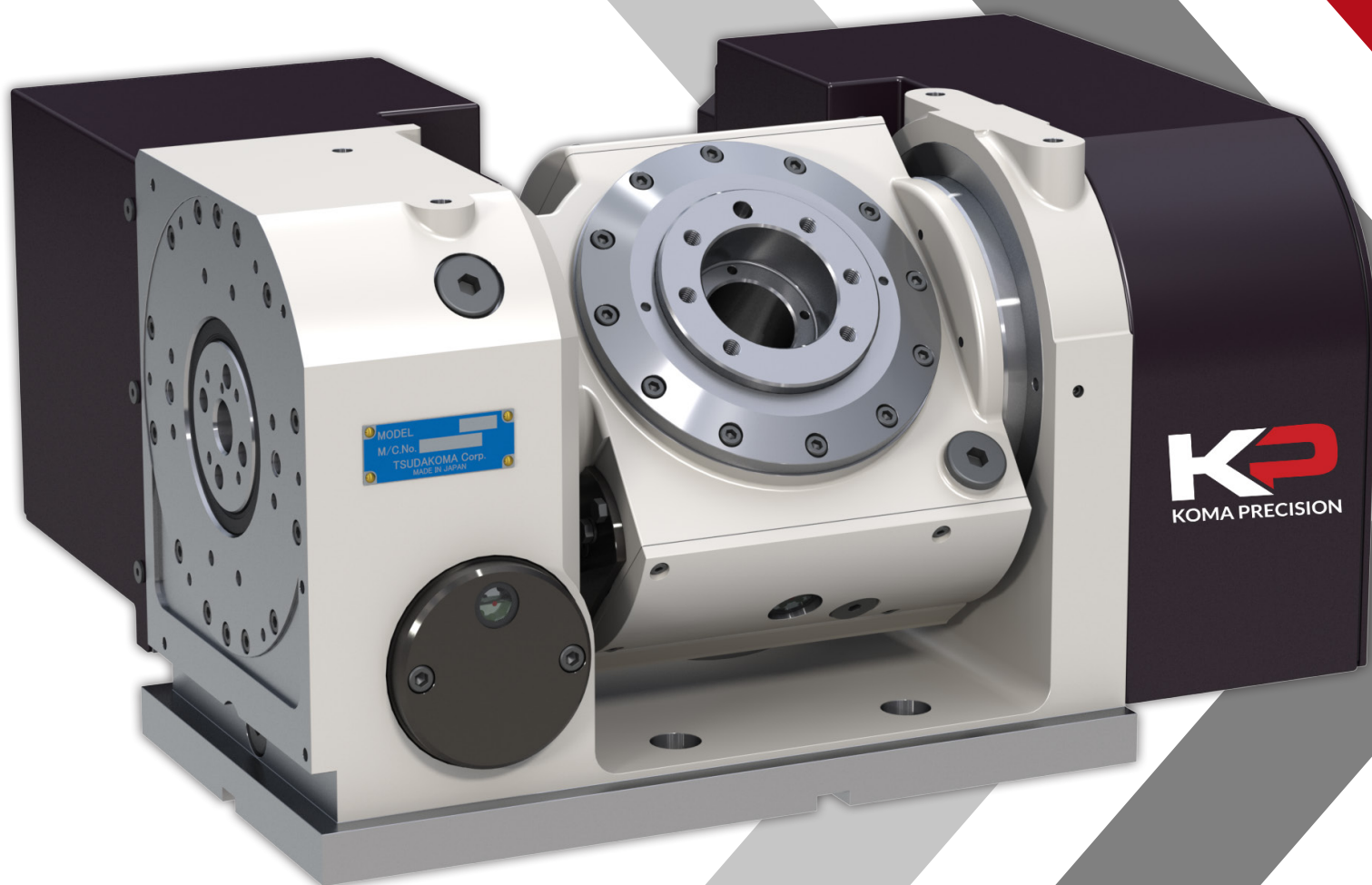




SHARP



TSUDAKOMA

Rotary Table

Selection Guide

KOMA PRECISION

For over thirty-five 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.



SVL-2414 SV-2416 SV-2517 SVL-2517				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200		
RWE INDEXERS	RWE-160 TPC	RWE-200 TPC		
SV-4023 SV-4323				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RWE INDEXERS	RWE-160 TPC	RWE-200 TPC		
TWA SERIES	TWA-130	TWA-160	TWA-200	
TBS SERIES	TBS-130	TBS-160		
SV-4328				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES				
RWE INDEXERS	RWE-160 TPC	RWE-200 TPC		
TWA SERIES	TWA-130	TWA-160	TWA-200	
TBS SERIES	TBS-130	TBS-160		



SV-2414

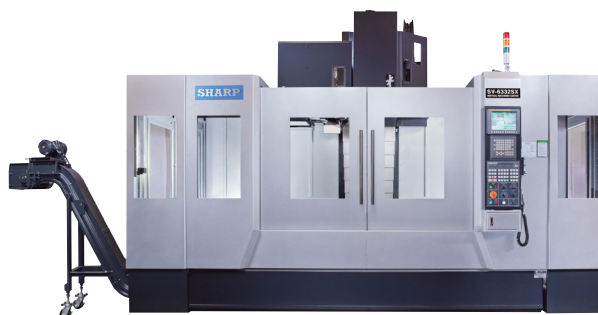


SV-4328

SV-5128				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES				
RWE INDEXERS	RWE-160 TPC	RWE-200 TPC		
TWA SERIES	TWA-130	TWA-160	TWA-200	
TBS SERIES	TBS-130	TBS-160		
SV-6336				
RWE SERIES	RWE-160R	RWE-200R		
RWA SERIES				
RWE INDEXERS	RWE-160 TPC	RWE-200 TPC		
TWA SERIES	TWA-130	TWA-160	TWA-200	TN-320
TBS SERIES	TBS-130	TBS-160		



SV-5128 ST



SV-6332 SX

SVL-2500				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RWE INDEXERS	RWE-160 TPC	RWE-200 TPC		
TWA SERIES	TWA-130	TWA-160		
TBS SERIES	TBS-130	TBS-160		
SVL-4023/4000				
RWE SERIES	RWE-160	RWE-200		
RWA SERIES	RWA-160	RWA-200	RWA-250	RWA-320
RWE INDEXERS	RWE-160 TPC	RWE-200 TPC		
TWA SERIES	TWA-130	TWA-160	TWA-200	
TBS SERIES	TBS-130	TBS-160		
SPL-8045				
Please Call				



SVL-3320

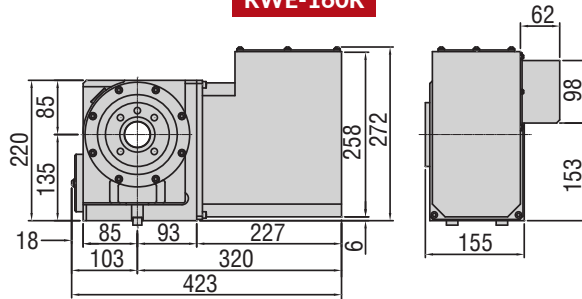


SVL-4525

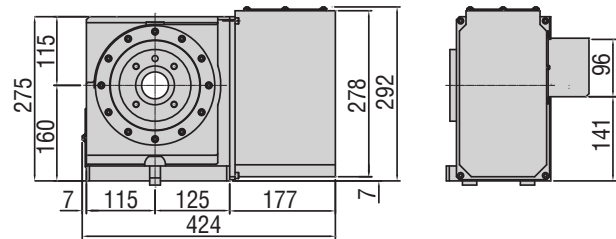
RWE & RWA-Series ROTARY TABLES

(Drawings Not To Scale)

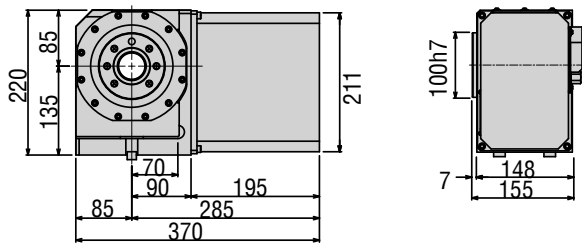
RWE-160R



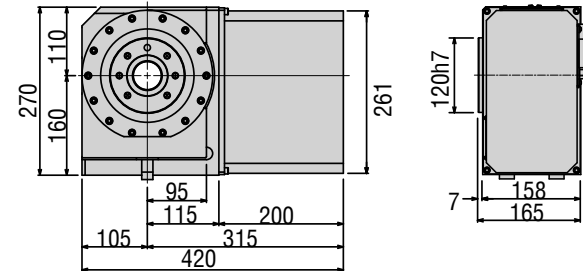
RWE-200R



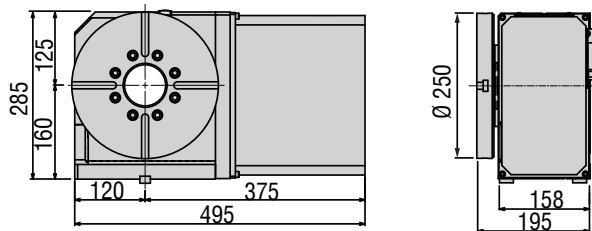
RWA-160R



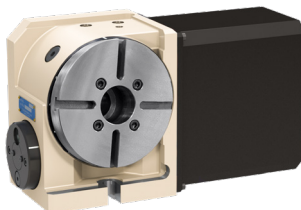
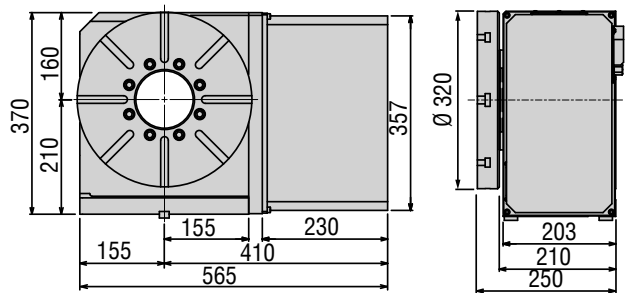
RWA-200R



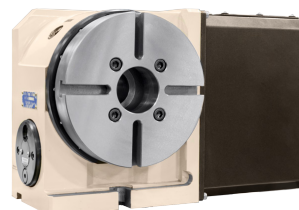
RWA-250R



RWA-320R



RWE SERIES



RWA SERIES

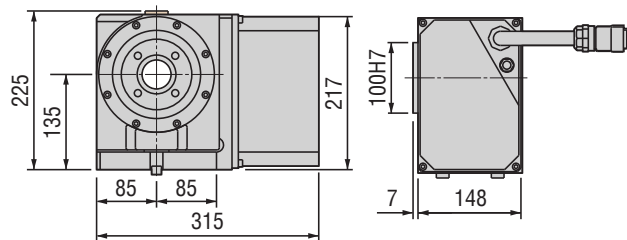
Please contact Koma Precision to confirm Sharp / Tsudakoma Rotary Table working envelope.

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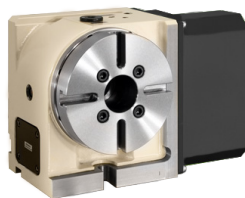
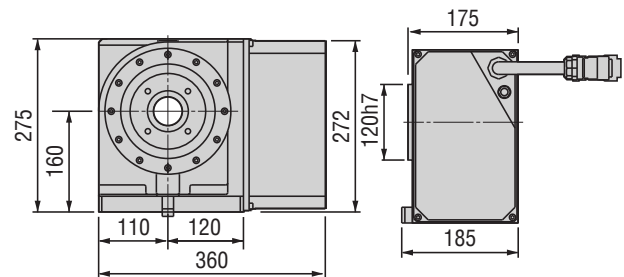
RWE TPC & TBS-Series ROTARY TABLES

(Drawings Not To Scale)

RWE-160 TPC



RWE-200 TPC

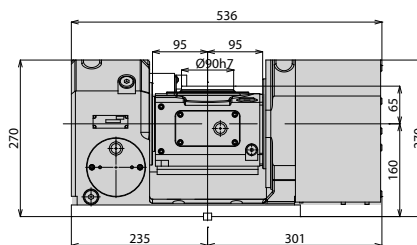
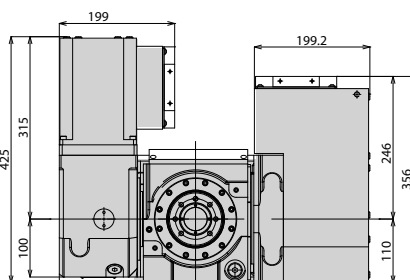


RWE INDEXERS

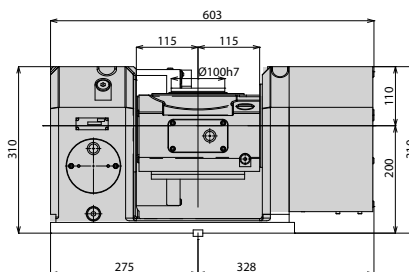
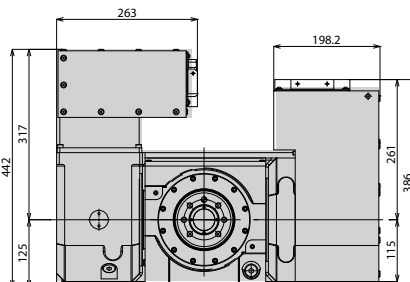


TBS SERIES

TBS-130



TBS-160

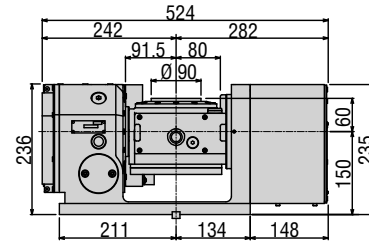
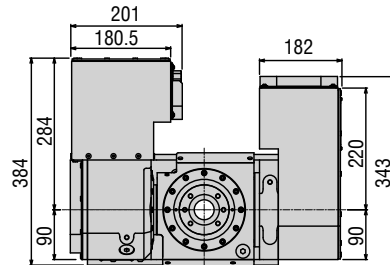


Please contact Koma Precision to confirm Sharp / Tsudakoma Rotary Table working envelope.

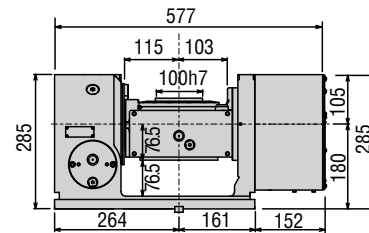
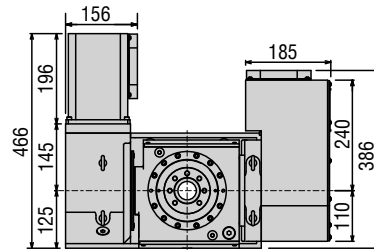
TWA-Series ROTARY TABLES

(Drawings Not To Scale)

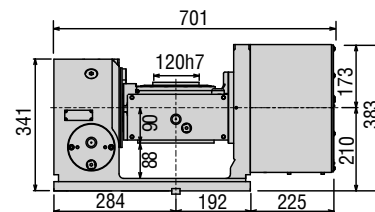
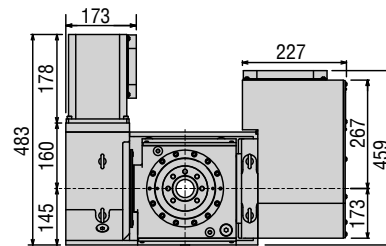
TWA-130



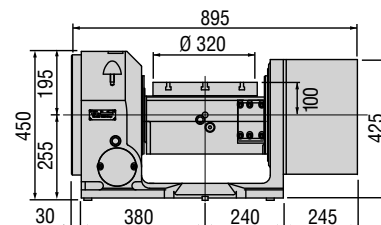
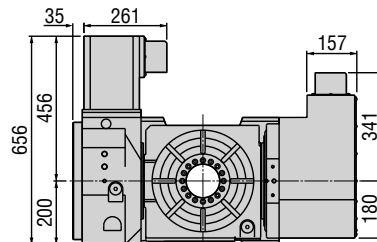
TWA-160



TWA-200



TN-320



TWA SERIES

ROTARY TABLE SPECIFICATIONS



RWE Series Indexers

Indexer Model		RWE-160 TPC	RWE-200 TPC
Spindle outer diameter		100h7	120h7
Table diameter (optional)		(160 or 200)	(200 or 250)
Center height		135	160
Center bore	Nose Diameter (w/ face plate)	55H7 (50H7)	65H7 (60H7)
	Thru Diameter	40	45
Table T-slot width w/ face plate		12H8	12H8
Guide block width		14h7	18h7
Controller (included with table)		TPC-Jr G2	TPC-Jr G3
Maximum motor speed	rpm	3,000	
Speed reduction ratio		1/60	1/72
Maximum table speed	rpm	50	41.7
Inertia converted into motor shaft	$\times 10^{-3} \text{kg}\cdot\text{m}^2$	.19	.19
Clamp system		Pneumatic	
Clamp torque @72psi	Nm (ft. lbs.)	156 (115)	294 (217)
Indexing accuracy	arc sec.	± 22.5	
Net Weight	kg (lbs.)	40 (88)	65 (143)
Allowable wheel torque	Nm (ft. lbs.)	147 (108)	264 (195)
Allowable work inertia	kg·m ²	.48	1.2
Allowable work weight	 kg (lbs) [w/ tailstock]	75 (165) [150 (330)]	100 (220) [250 (550)]
	 kg (lbs)	150 (330)	250 (550)
Allowable load when table clamped	 N (lbf)	7,840 (1,756)	13,720 (3,073)
	 Nm (ft. lbs.)	156 (115)	294 (217)
	 Nm (ft. lbs.)	392 (289)	980 (722)

Dimensions = mm

Specifications subject to change without notice

Controller		TPC-Jr
Control axis		1 axis
Servo motor		AC servo, ABS detector
Command unit		0.001°
Dividing number	Direct indexing	1 to 999999 even indexing
	Arc indexing	1 to 999 even indexing
Max. command angle		$\pm 999.999^\circ$
Command system		INC, ABS, Shortcut ABS, INC/ABS mixed system
Input system		Includes MDI & full RS-232 communication
Program control		Workpiece No. (W0000 to 9999)
Program capacity		1000 blocks in main & sub-program together
Cable supplied (Standard)	Between rotary table & TPC-Jr (1 pc.)	
	For motor : 5m	
	Power cable : 5m	
Power Requirements (less than 100 ohm ground resistance)	Interlocking cable : 5m	
	1 Ø 200/220V $\pm 10\%$ 50/60Hz (non-CE)	
	1 Ø 230V $\pm 10\%$ 50/60Hz (CE)	
	Model	Power capacity
	Jr H2	1.2KVA
	Jr H3	2.2KVA
		Fuse Rating
		8A
		15A

RWE & RWA Series Rotary Tables

Table Model		RWE-160	RWE-200	RWA-160	RWA-200	RWA-250	RWA-320
Versions available		R, L	R, L	R, L	R, L	R, L	R, L
Spindle outer diameter		100h7	120h7	100h7	120h7	140h7	180h7
Table diameter (optional)		(160, 200)	(200, 250)	(160, 200)	(200, 250)	250	320
Center height		135	160	135	160	160	210
Center bore	Nose Diameter	55H7	65H7	55H7	65H7	80H7	115H7
	Thru Diameter	40	45	40	45	50	85
Table T-slot width (with face plate)		(12H8)	(12H8)	(12H8)	(12H8)	12H8	14H7
Guide block width		14h7	18h7	14h7	18h7	18h7	18h7
Servo motor (Fanuc)*		Alpha 2i	Alpha 4i	Alpha 2i	Alpha 4i	Alpha 8i (8is)	Alpha 8i (22is)
Maximum motor speed	rpm	5,000	5,000	5,000	5,000	4,000 (4,000)	4,000 (3,000)
Speed reduction ratio		1/72	1/72	1/72	1/72	1/90 (1/45)	1/120 (1/45)
Maximum table speed	rpm	69.4	69.4	69.4	69.4	44.4 (88.9)	33.3 (66.6)
Inertia converted into motor shaft	$\times 10^{-3} \text{kg}\cdot\text{m}^2$	.09	.17	.09	.17	.41 (.44)	.52 (1.66)
Clamp system		Pneumatic Disc Clamp		Pneumatic Dual Taper			
Clamp torque @72psi	Nm (ft. lbs.)	250 (180)	400 (295)	500 (369)	800 (590)	1,000 (737)	1,500 (1,106)
Indexing accuracy	arc sec.	± 12.5	± 10	± 12.5	± 10	± 10	± 10
Net Weight	kg (lbs.)	40 (88)	61 (135)	38 (84)	61 (134)	80 (176)	145 (319)
Allowable wheel torque	Nm (ft. lbs.)	206 (152)	288 (212)	206 (152)	288 (212)	596 (439)	939 (692)
Allowable work inertia	$\text{kg}\cdot\text{m}^2$	.64	1.25	.64	1.25	1.95	4.48
Allowable work weight	 kg (lbs) [w/ tailstock]	100 (220) [200 (441)]	125 (275) [250 (551)]	100 (220) [175 (385)]	125 (275) [250 (550)]	125 (275) [250 (550)]	175 (385) [375 (825)]
	 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)	10,800 (2,419)	14,400 (3,226)	14,400 (3,226)	24,800 (5,555)
	 Nm (ft. lbs.)	500 (369)	800 (590)	500 (369)	800 (590)	1,000 (737)	1,500 (1,106)
	 Nm (ft. lbs.)	780 (575)	1,900 (1,400)	780 (575)	1,900 (1,400)	1,900 (1,400)	4,700 (3,464)

* Other motors & RPM available

** Booster optional

Dimensions = mm

Specifications subject to change without notice

ROTARY TABLE SPECIFICATIONS



TWA, TBS Series Rotary Tables

Table Model		TWA-130		TWA-160		TWA-200		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/faceplate)		235 (260 w/faceplate)		270 (300 w/faceplate)		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		100		40		40	
Table T-slot width		12H8 (w/faceplate)		12H8 (w/faceplate)		12H8 (w/faceplate)		14H7		12H8		12H8	
Guide block width		14h7		18h7		18h7		18h7		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 8i	Alpha 8i	Alpha 2i	Alpha 2i	Alpha 2i	Alpha 4i
Maximum motor speed	rpm	5,000	5,000	5,000	5,000	5,000	5,000	4,000	4,000	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	111.1	55.5	33.3	16.6	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	-
Tilting accuracy	arc sec.	-	±22.5	-	±22.5	-	±22.5	-	±22.5	-	±17.5	-	±17.5
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 ** Booster optional Dimensions = mm Specifications subject to change without notice



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