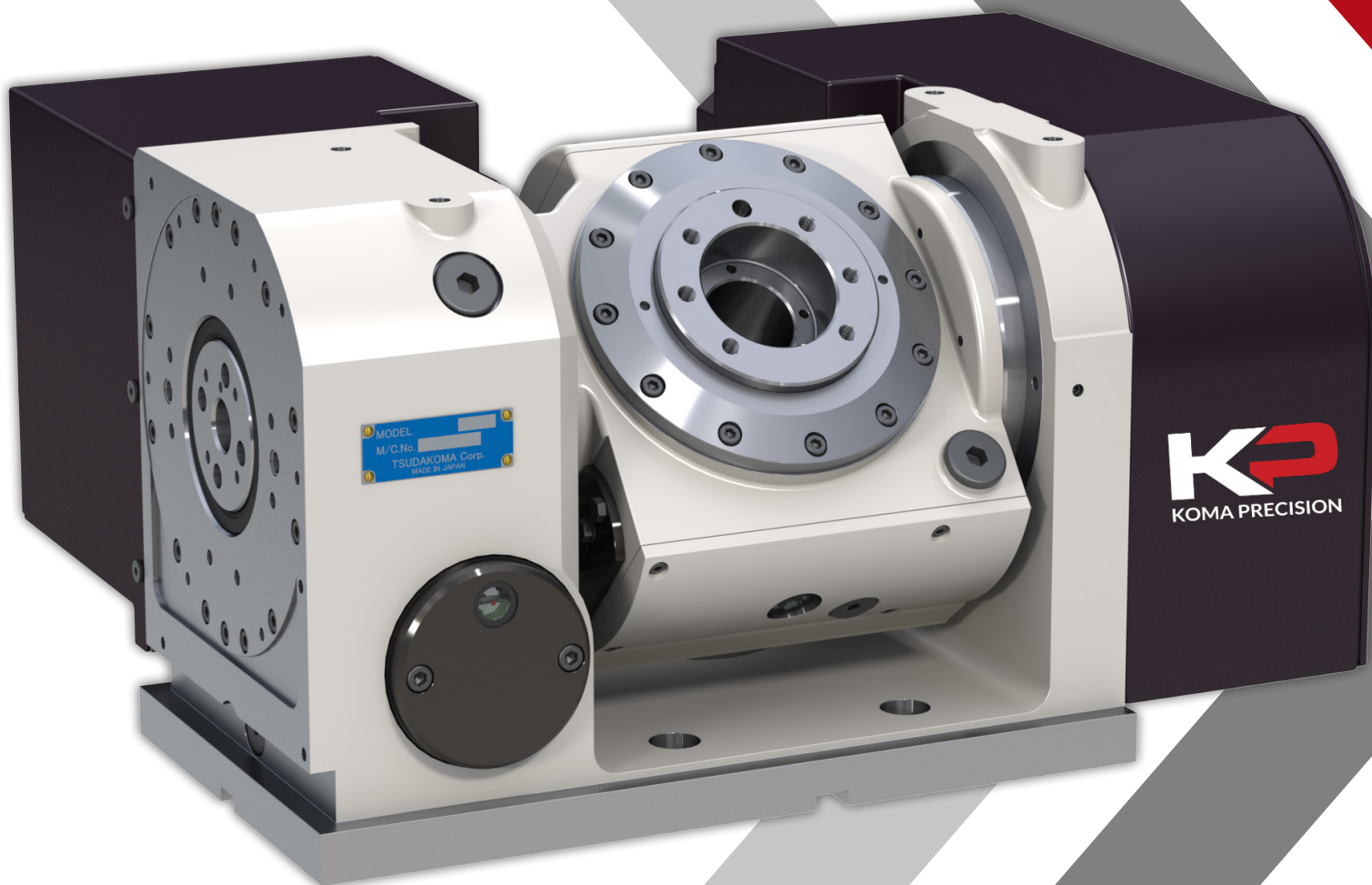




brother®



TSUDAKOMA

Rotary Table

Selection Guide

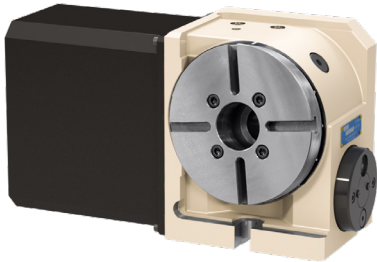
KOMA PRECISION

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.

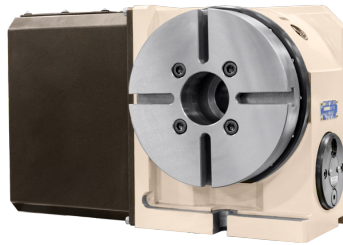
With over 30,000 rotary table installations, Koma is the largest distributor of Tsudakoma NC rotary tables and indexers in the world. With over 12,000 angle heads and live tools installed, Koma is the world's largest supplier for Alberti - the originator and the foremost innovator of productivity tooling.



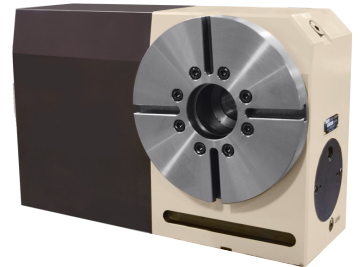
ROTARY TABLES



RWE SERIES



RWA SERIES



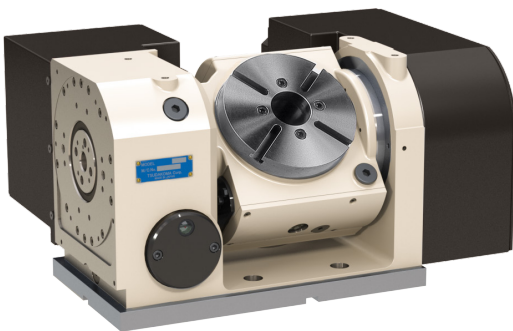
RBS SERIES



TTNC SERIES



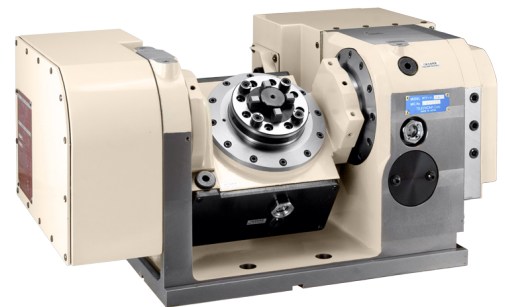
RN-MULTI SERIES



TWA SERIES



TBS SERIES



**5TH AXIS TILTING
RTT-111, CA**



S500X1			
RWE SERIES	RWE-160 L	RWE-200 L	
RWA SERIES	RWA-160 L	RWA-200 L	
RBS SERIES	RBS-160		
RN MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4
TWA SERIES	TWA-130	TWA-160	
TBS SERIES	TBS-130	TBS-160	
5TH AXIS TILTING	RTT-111, CA		
TTNC SERIES	TTNC-102-2		



S700X1			
RWE SERIES	RWE-160 L	RWE-200 L	
RWA SERIES	RWA-160 L	RWA-200 L	
RBS SERIES	RBS-160		
RN MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4
TWA SERIES	TWA-130	TWA-160	
TBS SERIES	TBS-130	TBS-160	
5TH AXIS TILTING	RTT-111, CA		
TTNC SERIES	TTNC-102-2		



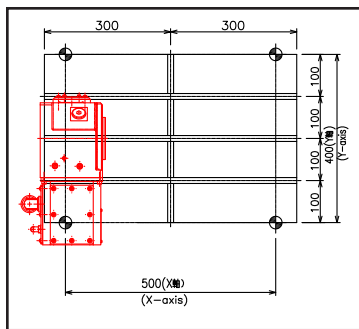
S1000X1			
RWE SERIES	RWE-160 L	RWE-200 L	
RWA SERIES	RWA-160 L	RWA-200 L	
RBS SERIES	RBS-160		
RN MULTI SERIES	RN-100R-2	RN-100R-3	RN-100R-4
TWA SERIES	TWA-130	TWA-160	
TBS SERIES	TBS-130	TBS-160	
5TH AXIS TILTING	RTT-111, CA		
TTNC SERIES	TTNC-102-2		



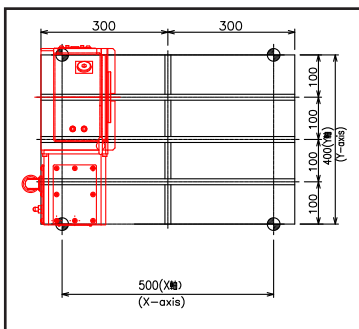
R450X1			
RWE SERIES	RWE-160 L	RWE-200 L	
RWA SERIES	RWA-160 L	RWA-200 L	
RBS SERIES	RBS-160		
TWA SERIES	TWA-130		
TBS SERIES	TBS-130		
5TH AXIS TILTING	RTT-111, CA		



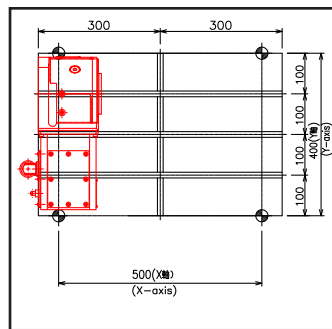
R650X1			
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RWA SERIES	RWA-160 L	RWA-200 L	
RBS SERIES	RBS-160		
TWA SERIES	TWA-130		
TBS SERIES	TBS-130		
5TH AXIS TILTING	RTT-111, CA		



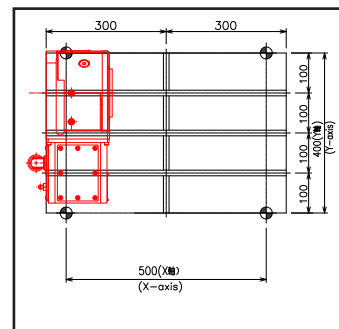
RWE-160L



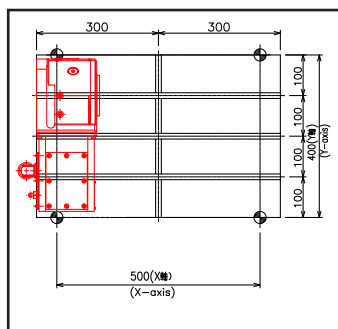
RWE-200L



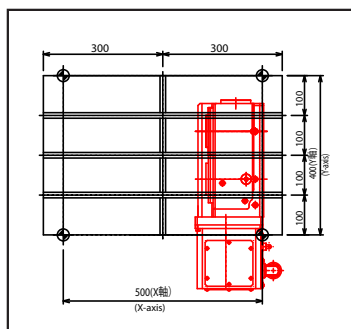
RWA-160L



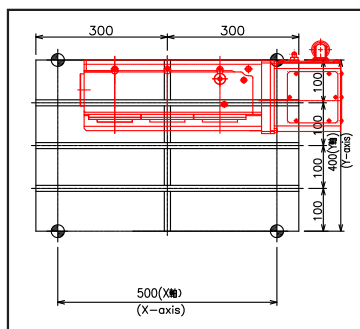
RWA-200L



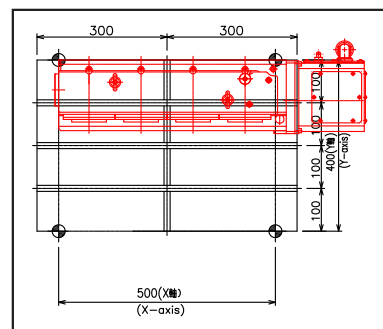
RBS-160



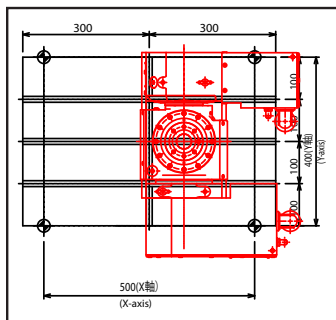
RN-100R-2



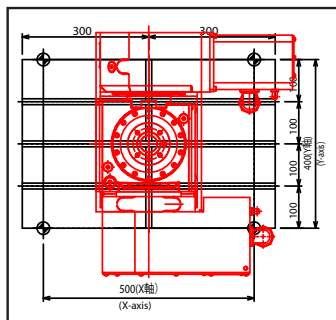
RN-100R-3



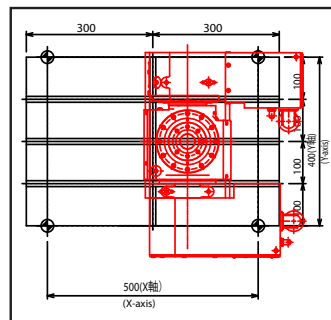
RN-100R-4



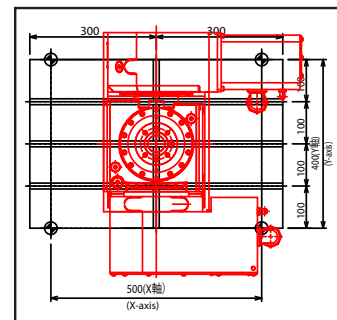
TBS-130



TBS-160

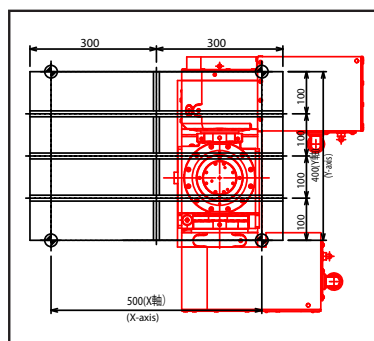


TWA-130

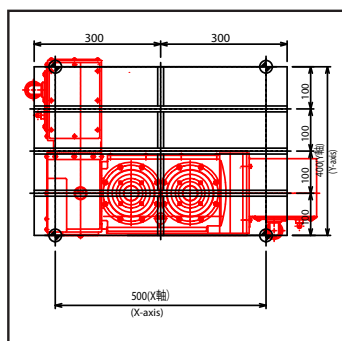


TWA-160

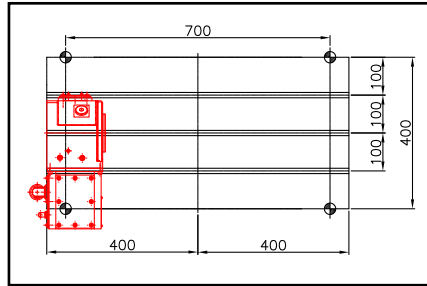
RTT-111, CA



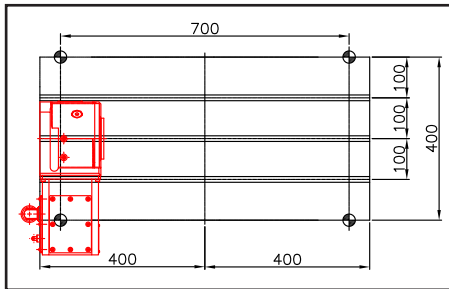
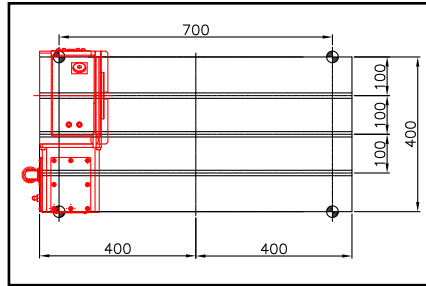
TTNC-102-2



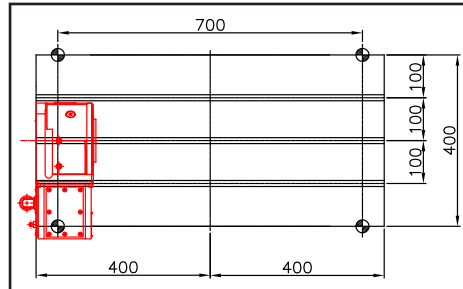
RWE-160L



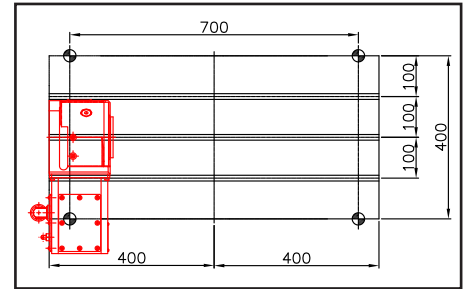
RWE-200L



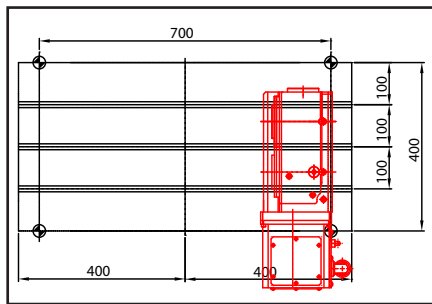
RWA-160L



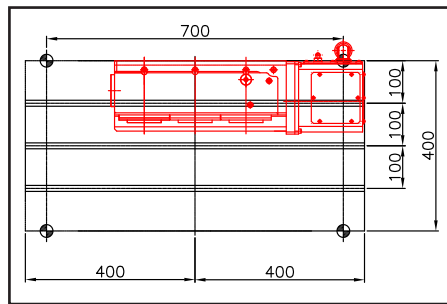
RWA-200L



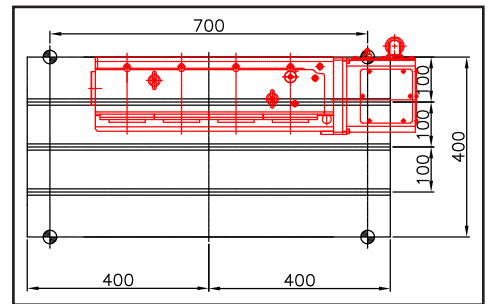
RBS-160



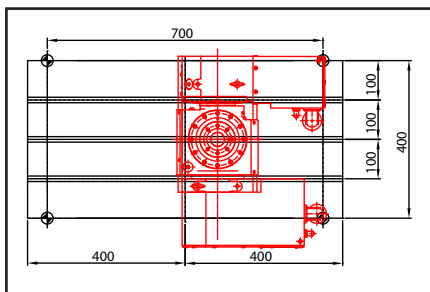
RN-100R-2



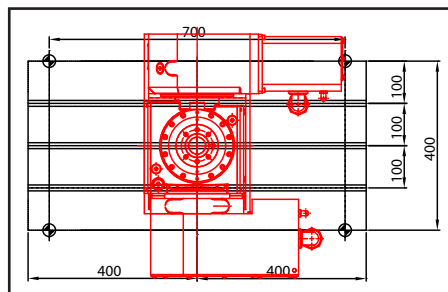
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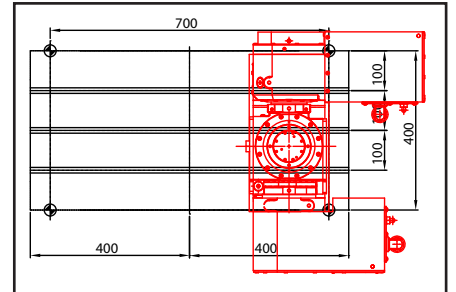
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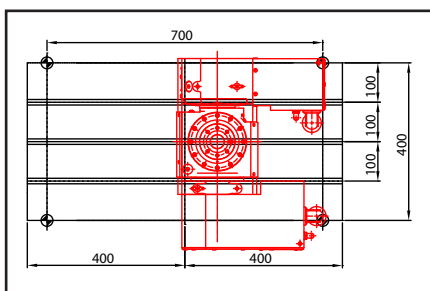
TWA-130



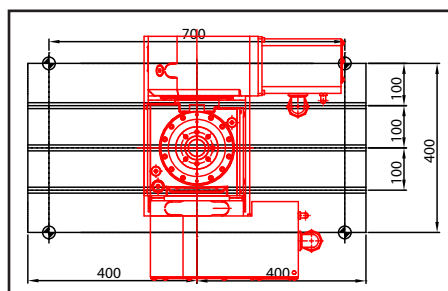
TWA-160



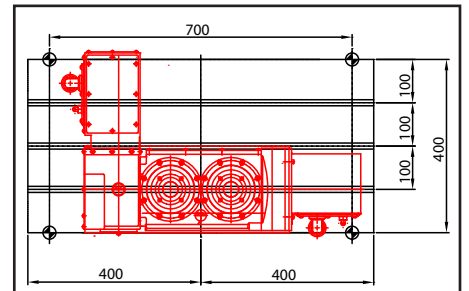
RTT-111, CA



TBS-130

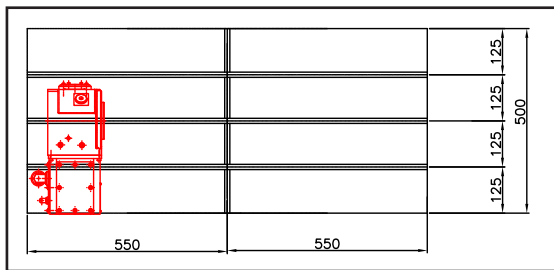


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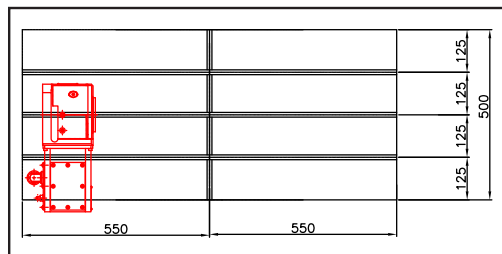
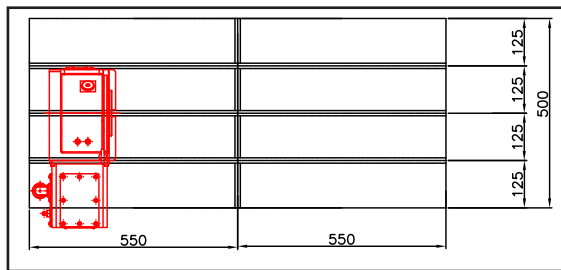


TTNC-102-2

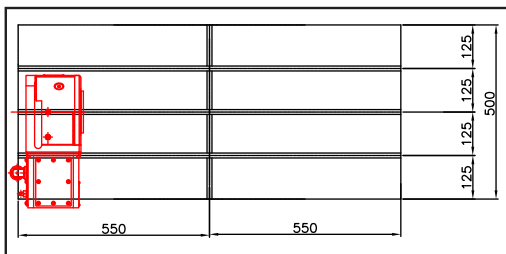
RWE-160L



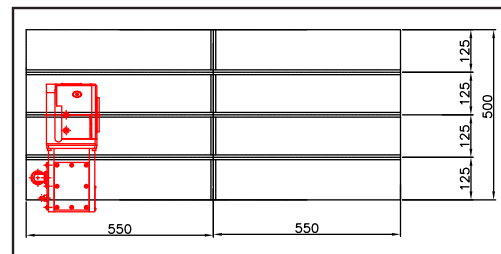
RWE-200L



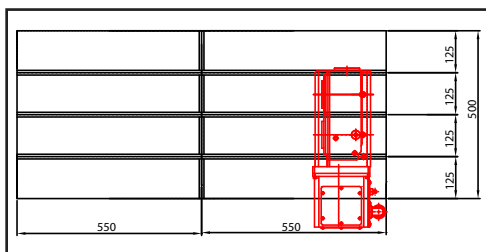
RWA-160L



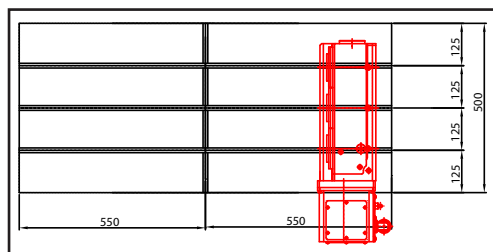
RWA-200L



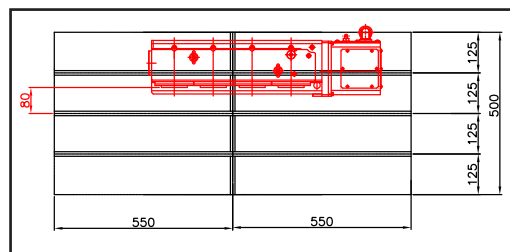
RBS-160



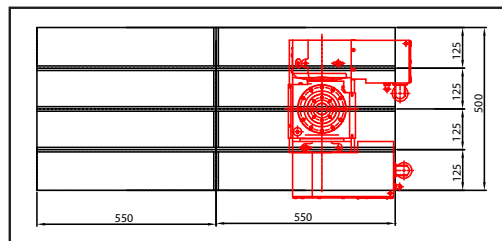
RN-100R-2



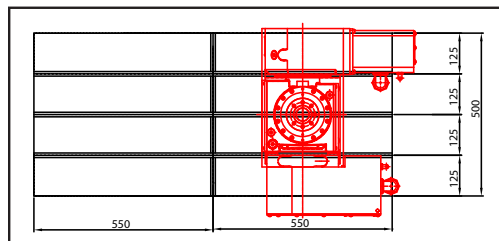
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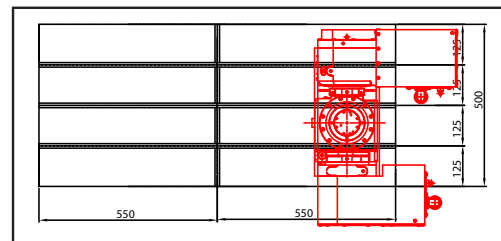
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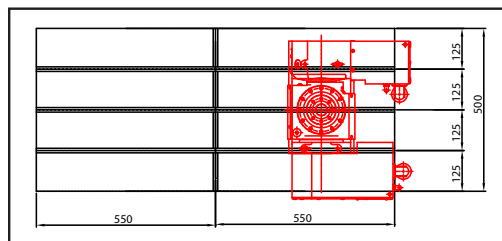
TWA-130



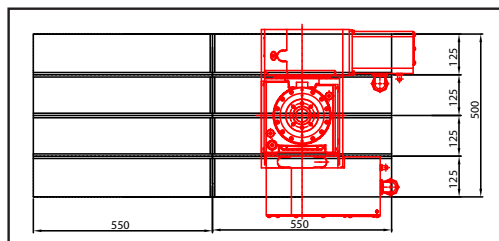
TWA-160



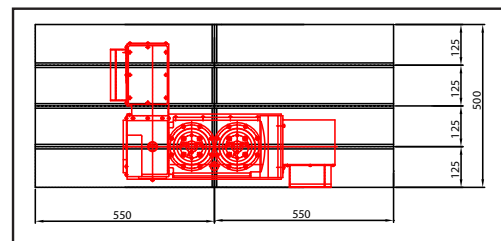
RTT-111, CA



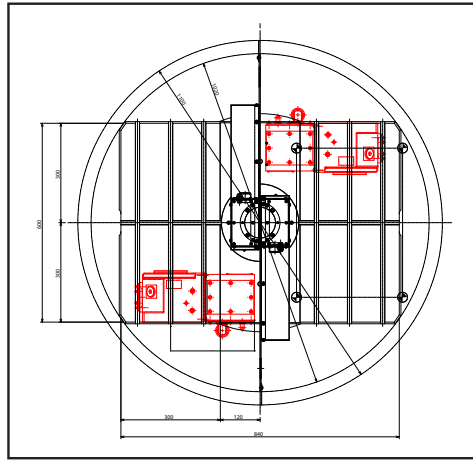
TBS-130



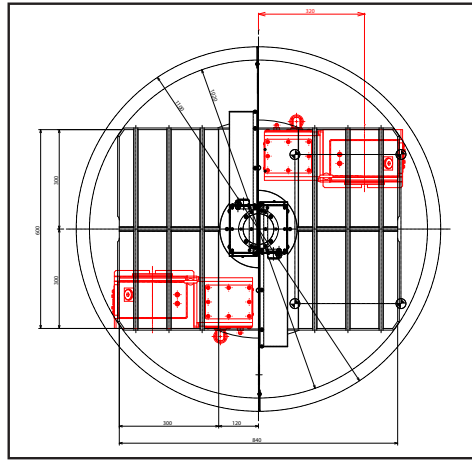
TBS-160



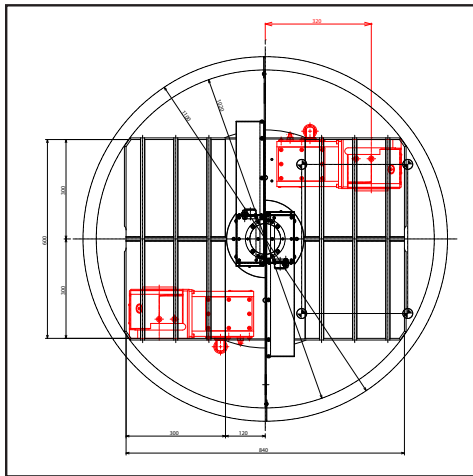
TTNC-102-2



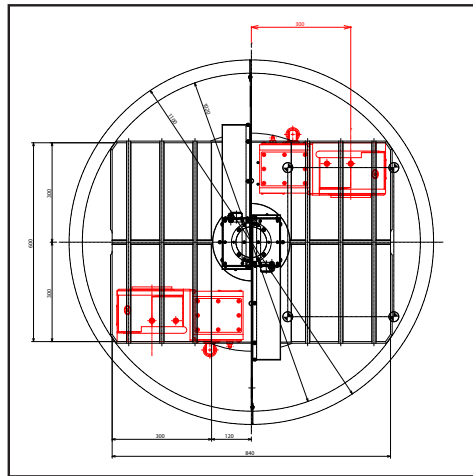
RWE-160L



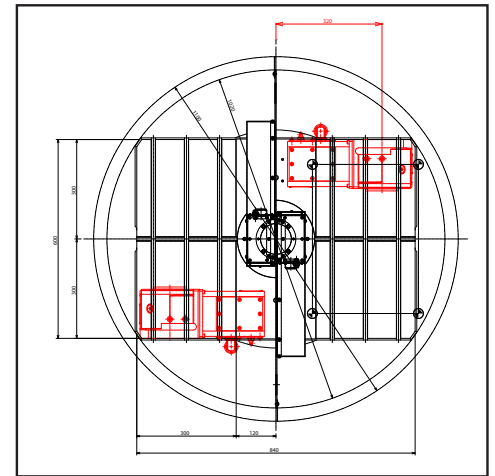
RWE-200L



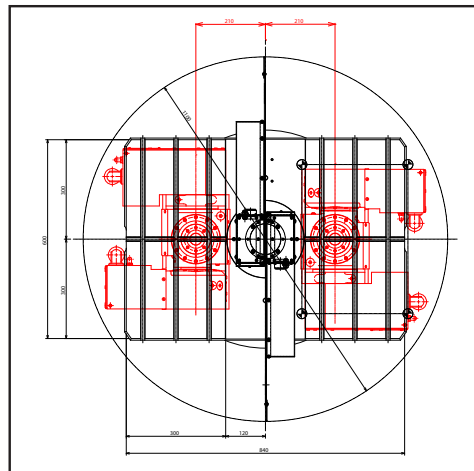
RWA-160L



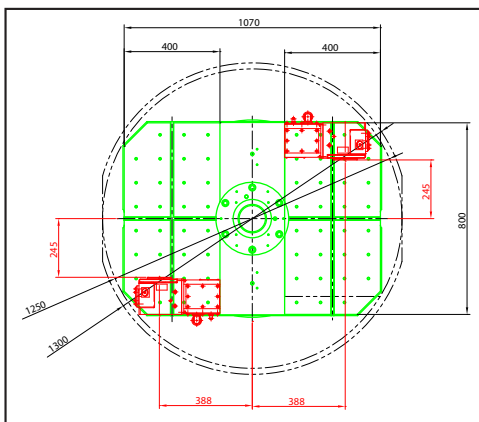
RWA-200L



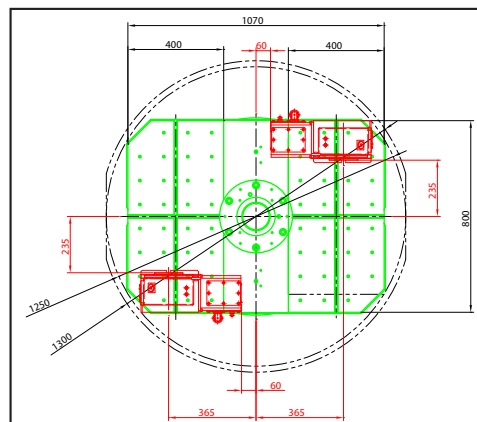
RBS-160



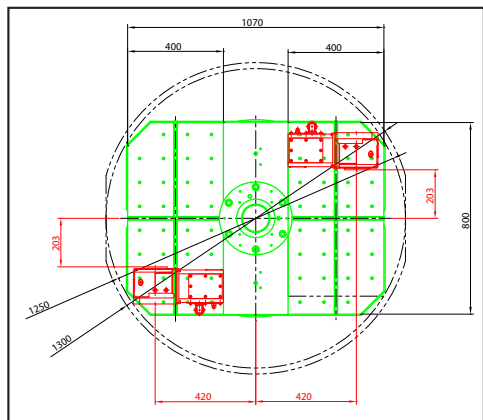
TWA-130



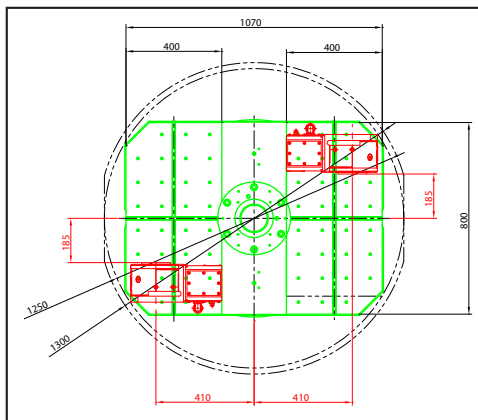
RWE-160L



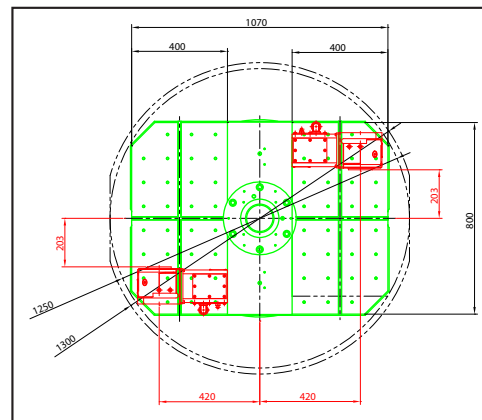
RWE-200L



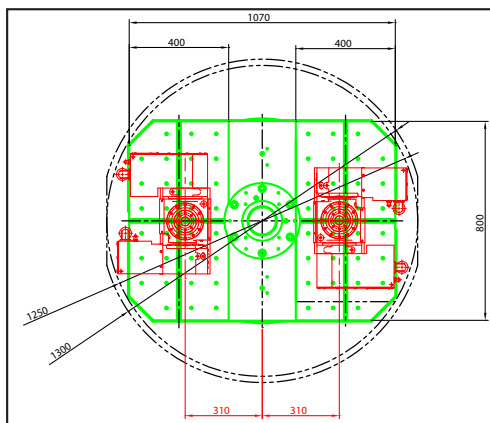
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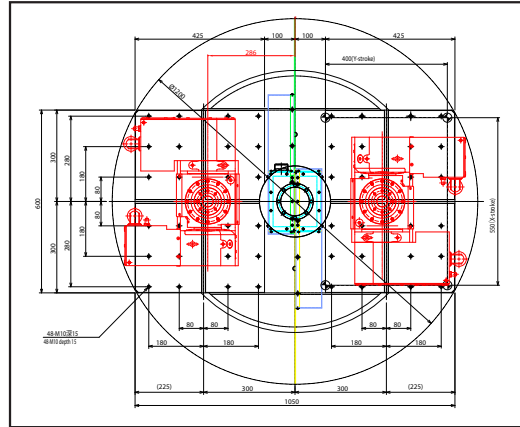
RWA-200L



RBS-160



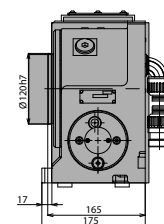
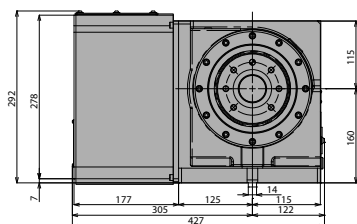
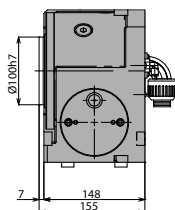
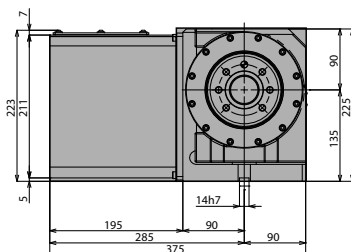
TWA-130



TWA-130

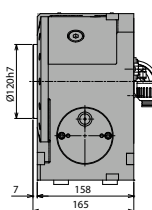
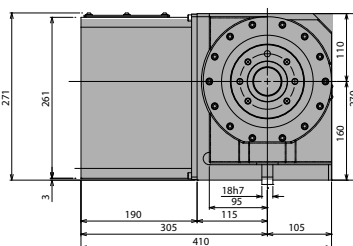
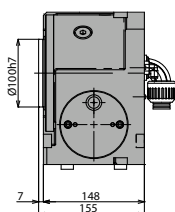
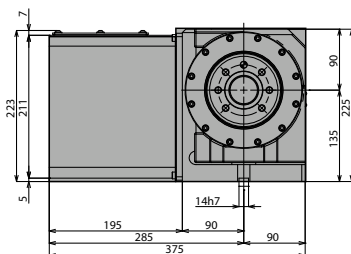
RWE, RWA, RBS-Series, RN-MULTI & RTT-111 CA (Drawings Not To Scale)

RWE-160L



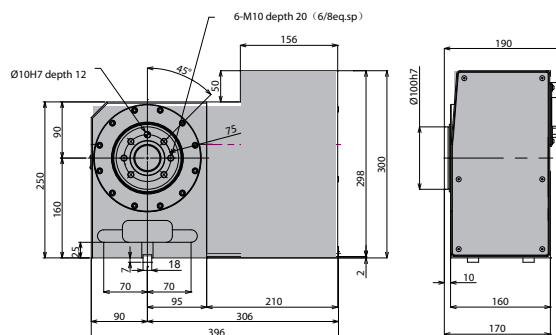
RWE-200L

RWA-160L

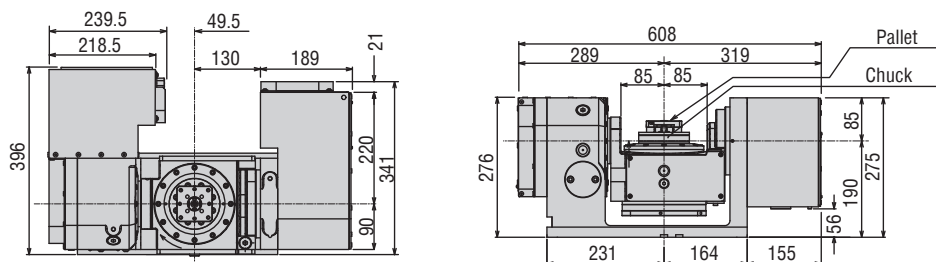


RWA-200L

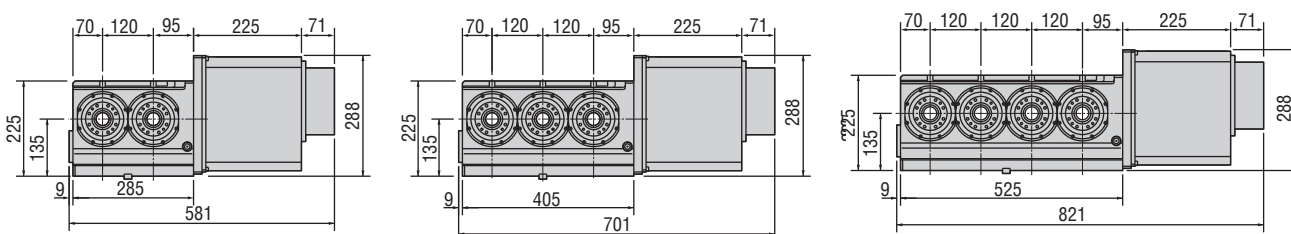
RBS-160



RTT-111, CA



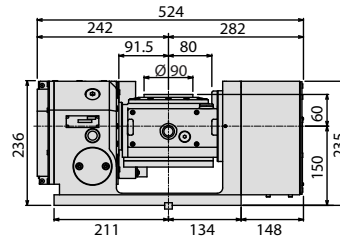
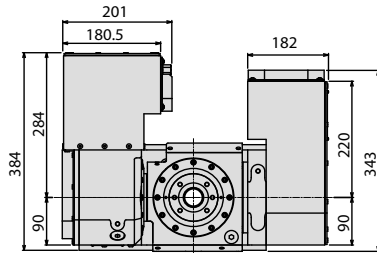
RN-100R-2/3/4



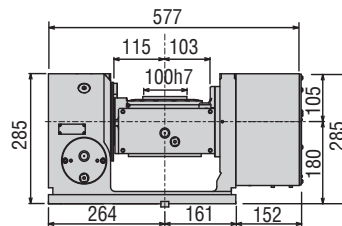
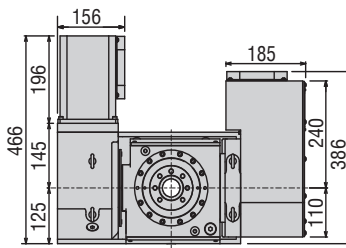
ROTARY TABLE DIMENSIONS



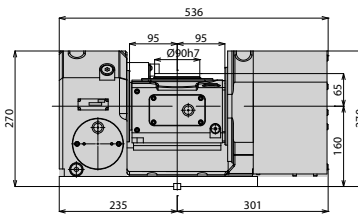
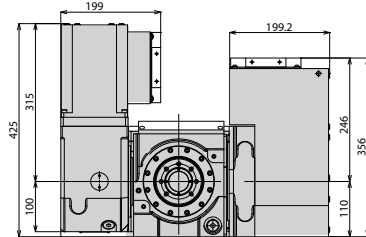
TWA, TBS & TTNC-Series (Drawings Not To Scale)



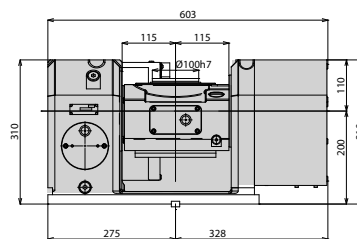
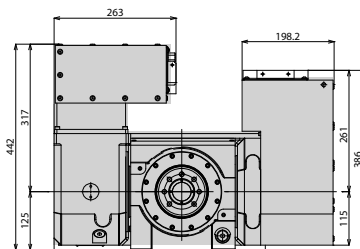
TWA-130



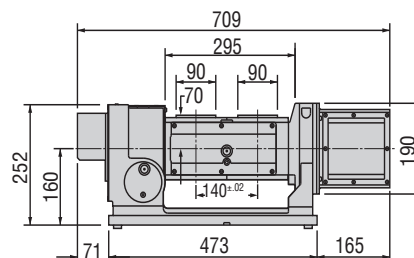
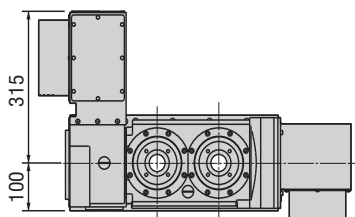
TWA-160



TBS-130



TBS-160



TTNC-102-2



ROTARY TABLE SPECIFICATIONS

RWE-Series

Table Model		RWE-160	RWE-200
Versions available		L	L
Spindle outer diameter	mm	100h7	120h7
Table diameter (optional)	mm	(160, 200)	(200, 250)
Center height	mm	135	160
Center bore Nose Diameter	mm	55H7	65H7
Center bore Thru Diameter	mm	40	45
Servo motor*		Brother	Brother
Maximum motor speed	rpm	5,000	5,000
Maximum table speed	rpm	69.4	69.4
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)

RWA-SERIES

Table Model		RWA-160	RWA-200
Versions available		L	L
Spindle outer diameter	mm	100h7	120h7
Table diameter (optional)	mm	(160, 200)	(200, 250)
Center height	mm	135	160
Center bore Nose Diameter	mm	55H7	65H7
Center bore Thru Diameter	mm	40	45
Servo motor*		Brother	Brother
Maximum motor speed	rpm	5,000	5,000
Maximum table speed	rpm	69.4	69.4
Clamp torque @72psi	Nm (ft. lbs.)	500 (369)	800 (590)
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)

RBS-SERIES

Table Model		RBS-160
Versions available		L
Spindle outer diameter	mm	100h7
Table diameter (optional)	mm	(160, 200)
Center height	mm	160
Center bore Nose Diameter	mm	55H7
Center bore Thru Diameter	mm	40
Servo motor*		Brother
Maximum motor speed	rpm	5,000
Maximum table speed	rpm	138.9
Clamp torque @72psi	Nm (ft. lbs.)	700 (516)
Indexing accuracy	arc sec.	±7.5
Net Weight	kg (lbs.)	55 (121.2)
Allowable wheel torque	Nm (ft. lbs.)	--

* Other motors & RPM are machine specific

RN-SERIES

Table Model		RN-100-2,3,4		
Versions available		R		
Spindle outer diameter	mm	80h7		
Table diameter (optional)	mm	(115)		
Center height	mm	135		
Center bore Nose Diameter	mm	50H7		
Center bore Thru Diameter	mm	30		
Servo motor*		Brother		
Maximum motor speed	rpm	4,000		
Number of spindles		2	3	4
Maximum table speed	rpm	111.1		
Clamp torque @72psi	Nm (ft. lbs.)	80 (59)		
Indexing accuracy	arc sec.	±30		
Net Weight [dual spindle]	kg (lbs.)	70-110 (154-242)		
Allowable wheel torque	Nm (ft. lbs.)	178 (131)		

ROTARY TABLE SPECIFICATIONS



TWA-SERIES

Table Model		TWA-130		TWA-160	
Tilt Range		-17° ~ +107°		-30° ~ +110°	
Spindle outer diameter	mm	90h7		100h7	
Table diameter (optional)	mm	(135)		(160 or 200)	
Center height at 90° position	mm	150		180	
Center bore Nose Diameter (w/ face plate)	mm	55H7 (40H7)		55H7 (50H7)	
Center bore Thru Diameter	mm	35		40	
Servo motor*		Rotary	Tilt	Rotary	Tilt
		Brother	Brother	Brother	Brother
Maximum motor speed	rpm	5,000	5,000	5,000	5,000
Maximum table speed	rpm	83.3	41.7	69.4	41.7
Clamp system		Pneumatic Dual Taper			
Clamp torque @72psi [500 psi]	Nm (ft. lbs.)	500 (369)	500 (369)	500 (369)	800 (590)
Indexing accuracy	arc sec.	±20	-	±15	-
Tilting accuracy	arc sec.	-	±22.5	-	±22.5
Net Weight	kg (lbs.)	76 (167)		127 (279)	
Allowable wheel torque - rotary	Nm (ft. lbs.)	152 (112)		200 (147)	

TBS-SERIES

Model		TBS-130,H		TBS-160,H	
Tilt Range		-30° ~ +110°			
Table diameter	mm	135		(160 or 200)	
Table height at 0° position	mm	225 (250 w/faceplate)		270 (300 w/faceplate)	
Center height at 90° position	mm	160		200	
Center bore Nose Diameter	mm	55H7 (40H7)		55H7 (50H7)	
Center bore Thru Diameter	mm	40		40	
Servo motor (Brother)*		Rotary	Tilt	Rotary	Tilt
		Alpha 2i	Alpha 2i	Alpha 2i	Alpha 4i
Maximum motor speed	rpm	5,000	5,000	5,000	5,000
Speed reduction ratio		1/48	1/60	1/60	1/60
Maximum table speed	rpm	104.2	83.3	83.3	83.3
Inertia converted into motor shaft	x 10 ⁻³ kg·m ²	.074	.072	.17	.18
Clamp system		Pneumatic			
Holding torque @ 72psi	Nm (ft. lbs.)	700 (516)	700 (516)	700 (516)	700 (516)
Indexing accuracy	arc sec.	±10	-	±10	-
Net Weight	kg (lbs.)	125 (276)		160 (353)	
Allowable work inertia	kg·m ²	.08		.19	

* Other motors & RPM are machine specific

RTT-111, CA

Model		RTT-111,CA	
Tilt Range		-17° ~ +107°	
Spindle Output		See Options & Accessories	
Center height at 90° position	mm	190	
Servo motor (Fanuc)*		Rotary	Tilt
		Brother	Brother
Maximum motor speed	rpm	5,000	5,000
Speed reduction ratio		1/60	1/120
Maximum table speed	rpm	83.3	41.7
Inertia converted into motor shaft	x 10 ⁻³ kg.m ²	.074	.072
Clamp system		Pneumatic Dual Taper	
Clamp torque @72psi	Nm (ft. lbs.)	500 (369)	500 (369)
Indexing accuracy	arc sec.	±20	-
Tilting accuracy	arc sec.	-	±30
Net Weight	kg (lbs.)	98 (216)	
Allowable wheel torque - rotary	Nm (ft. lbs.)	152 (112)	

TTNC-102-2

Model		TTNC-102-2	
Tilt Range		-17° ~ +107°	
Spindle outer diameter	mm	90h7	
Table diameter (optional)	mm	(135)	
Table height at 0° position (w/ face plate)	mm	230 (255)	
Center height at 90° position	mm	160	
Center bore Nose Diameter (w/ face plate)	mm	55H7 (40H7)	
Center bore Thru Diameter	mm	35	
Servo motor*		Rotary	Tilt
		Brother	Brother
Maximum motor speed	rpm	5,000	5,000
Maximum table speed	rpm	55.6	27.8
Clamp system		Pneumatic	Pneumatic
Clamp torque @72psi [500 psi]	Nm (ft. lbs.)	127 (94)	284 (209)
Indexing accuracy	arc sec.	±20	-
Tilting accuracy	arc sec.	-	±22.5
Net Weight	kg (lbs.)	100 (220)	
Allowable wheel torque - rotary	Nm (ft. lbs.)	93 (69)	



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