



TSUDAKOMA
ROTARY TABLE
SELECTION GUIDE

ABOUT US

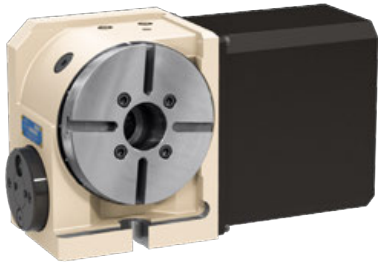
KOMA PRECISION

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.



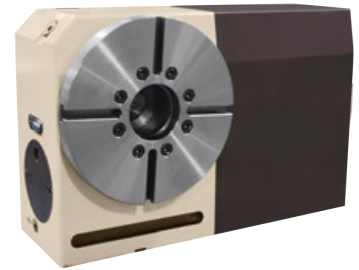
ROTARY TABLES



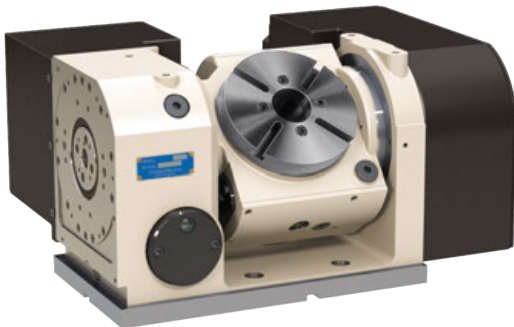
RWE SERIES



RWA SERIES



RBS SERIES



TWA SERIES

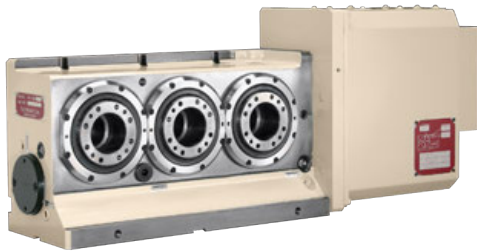


TBS SERIES



5TH AXIS TILTING
RTT-111, CA

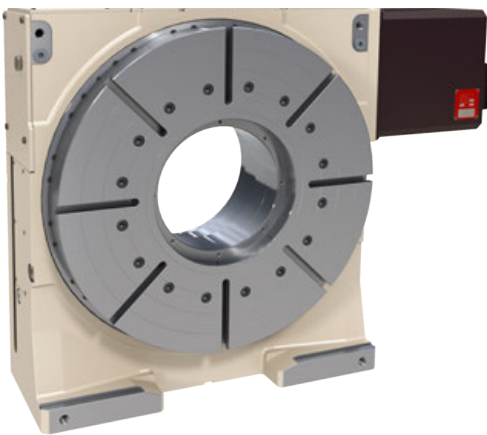
ROTARY TABLES



RN MULTI SERIES



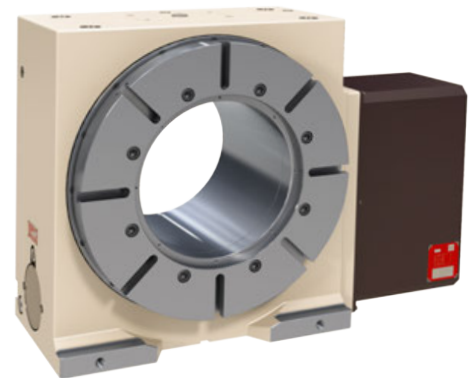
RWB SERIES



RCV SERIES



RNCM SERIES



RCB SERIES



RWB K SERIES



RT SERIES



RWB-K2 SERIES

MYCENTER XG, X, XD SERIES VMC'S



Mycenter-2XDSP



Mycenter-3XG / 3XD



Mycenter-4XiD

Mycenter-2XDSP "SparkChanger"

RWE SERIES	RWE-160R	RWE-200R	
RWA SERIES	RWA-160R	RWA-200R	
RBS SERIES	RBS-160R		
RN MULTI SERIES	RN-100R-2	RN-100R-3	
TWA SERIES	TWA-130	TWA-160	
TBS SERIES	TBS-130	TBS-160	
5 TH AXIS TILTING	RTT-111 CA		

Mycenter-3XG/3XD/3XiG

RWE SERIES	RWE-160R	RWE-200R	
RWA SERIES	RWA-160R	RWA-200R	RWA-250R
RBS SERIES	RBS-160R	RBS-250R	
RN MULTI SERIES	RN-100R-2	RN-100R-3	
TWA SERIES	TWA-130	TWA-160	
TBS SERIES	TBS-130	TBS-160	
5 TH AXIS TILTING	RTT-111 CA		

Mycenter-4XiD

RWE SERIES	RWE-160R	RWE-200R		
RWA SERIES	RWA-160R	RWA-200R	RWA-250R	RWA-320R
RBS SERIES	RBS-160R	RBS-250R	RBS-320R	
RWB SERIES	RWB-320R with Short Style Cover			
TWA SERIES	TWA-130	TWA-160		
TBS SERIES	TBS-130	TBS-160		
5 TH AXIS TILTING	RTT-111 CA			

BRIDGECENTER SERIES VMC'S



**BRIDGEcenter-6G
#40/#50**

BRIDGEcenter-6G #40/#50				
RWA SERIES	RWA-160R	RWA-200R	RWA-250R	RWA-320R
RBS SERIES	RBS-160R	RBS-250R	RBS-320R	
RWB SERIES	RWB-250R	RWB-400R	RWB-500R	
RCB SERIES	RCB-350	RBC-450R		
RNCN SERIES	RNCM-501R			
TWA SERIES	TWA-130	TWA-160	TWA-200	TN-320
TBS SERIES	TBS-130	TBS-160		
5 TH AXIS TILTING	RTT-111 CA			



**BRIDGEcenter-8G
#40/#50**

BRIDGEcenter-8G #40/#50				
RWE SERIES	RWE-160R	RWE-200R		
RWA SERIES	RWA-160R	RWA-200R	RWA-250R	RWA-320R
RBS SERIES	RBS-160R	RBS-250R	RBS-320R	
RWB SERIES	RWB-250R	RWB-320R	RWB-400R	RWB-500R
RCB SERIES	RCB-350	RCB-450R		
RNCM SERIES	RNCM-501R			
TWA SERIES	TWA-130	TWA-160	TWA-200	TN-320
TBS SERIES	TBS-130	TBS-160		
5 TH AXIS TILTING	RTT-111 CA			

BRIDGECENTER SERIES VMC'S



BRIDGEcenter-10G

BRIDGEcenter-10G				
RWB SERIES	RWB-250R	RWB-320R	RWB-400R	RWB-500R
RCB SERIES	RCB-350	RCB-400R	RCB-550	
RCV SERIES	RCV-800R			
RNCM SERIES	RNCM-631R			



BRIDGEcenter-12G

BRIDGEcenter-12G				
RWB SERIES	RWB-250R	RWB-320R	RWB-400R	RWB-500R
RCB SERIES	RCB-350	RCB-400R	RCB-550	
RCV SERIES	RCV-800R			
RNCM SERIES	RNCM-631R			

MYCENTER G - SERIES HMC'S

Mycenter-HX250G / 300iG			
RBS SERIES	RBS-160K		
Mycenter-HX400iG / iFTGA			
RWB SERIES	RWB-250K	RWB-320K	
RT SERIES	RT-147		
RWB-2 SERIES	RWB-250K-2		
Mycenter-HX500iG			
RWB SERIES	RWB-320K	RWB-400K	
RT SERIES	RT-147		
RWB-2 SERIES	RWB-400K-2		
Mycenter - HX630G			
RWB SERIES	RWB-400K	RWB-500K	
RT SERIES	RT-147		
RWB-2 SERIES	RWB-400K-2		



Mycenter-HX250G



Mycenter-HX400G



Mycenter-HX500G#40/#50

MYCENTER G - SERIES HMC'S

Mycenter-HX630iTGA			
RWB SERIES	RWB-400K	RWB-500K	
RT SERIES	RT-147		
RWB-2 SERIES	RWB-250K-2		
Mycenter-HX800iLTGA			
RWB SERIES	RWB-400K	RWB-500K	
RT SERIES	RT-147		
RWB-2 SERIES	RWB-400K-2		
RNCK SERIES	RNCK-501	RNCK-631	
Mycenter-HX1000i/HX1250i			
RCV SERIES	RCV-800K	RCV-1000K	
RNCK SERIES	RNCK-631		



Mycenter-HX630G



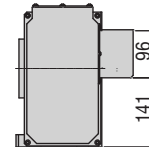
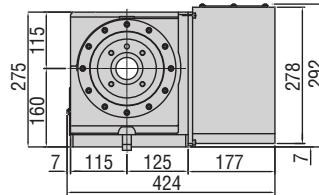
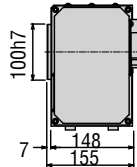
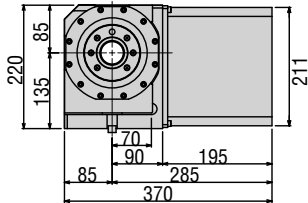
Mycenter-HX800G

ROTARY TABLE DIMENSIONS

RWE & RWA-Series

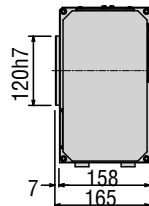
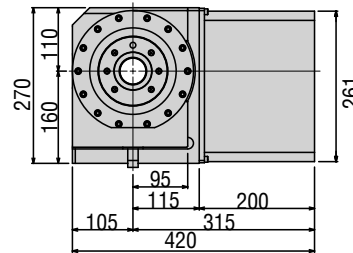
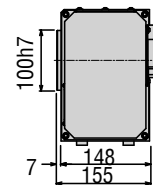
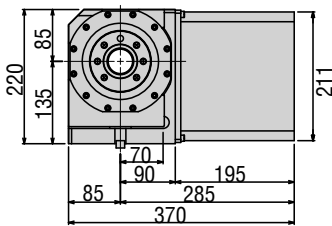
(Drawings Not To Scale)

RWE-160



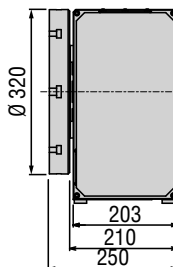
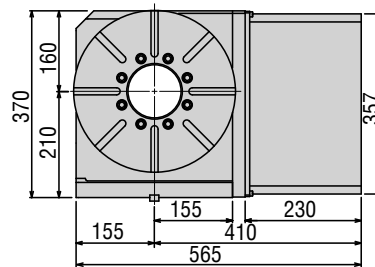
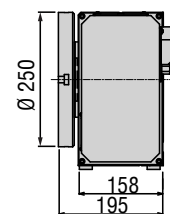
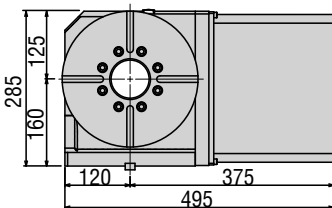
RWE-200

RWA-160



RWA-200

RWA-250

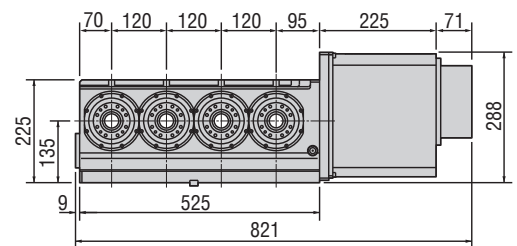
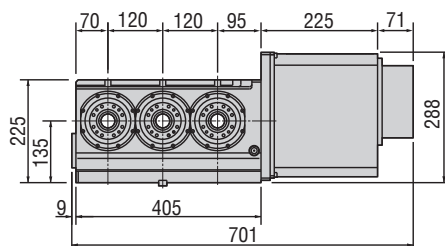
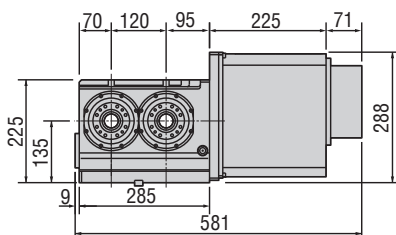


RWA-320

RN-Multi

(Drawings Not To Scale)

RN-100,R-2,3,4



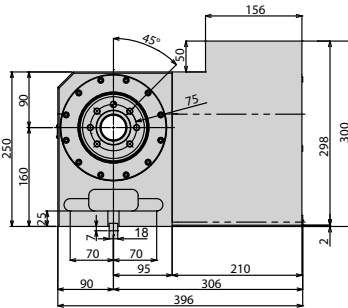
Please contact Koma Precision to confirm Kitamura / Tsudakoma Rotary Table working envelope.

ROTARY TABLE DIMENSIONS

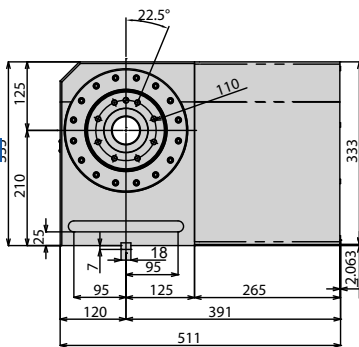
RBS, RT & RNCK-Series

(Drawings Not To Scale)

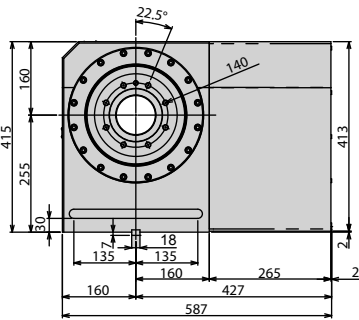
RBS-160



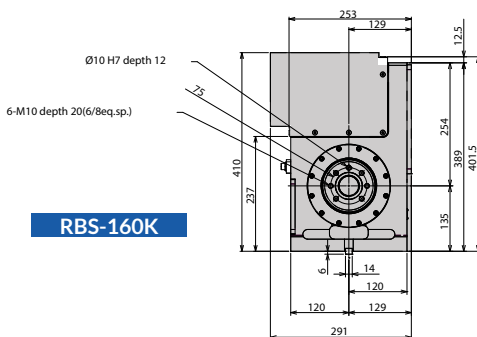
RBS-250



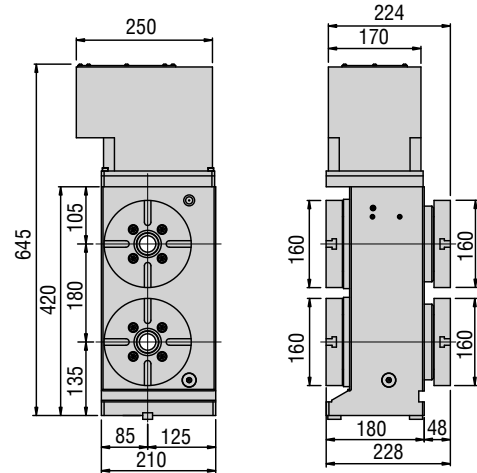
RBS-320



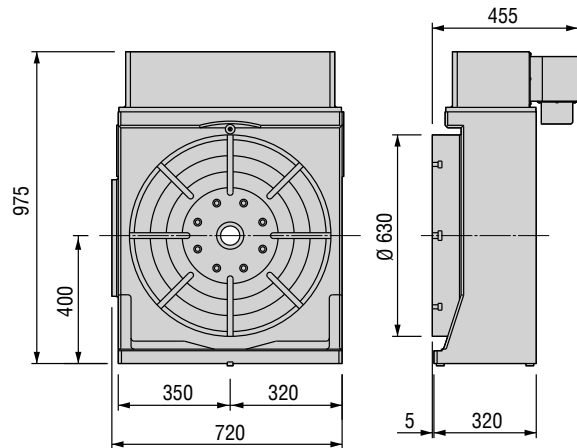
RBS-160K



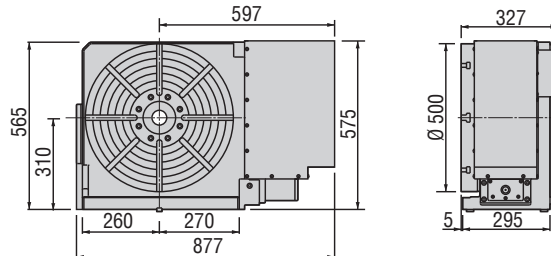
RT-147



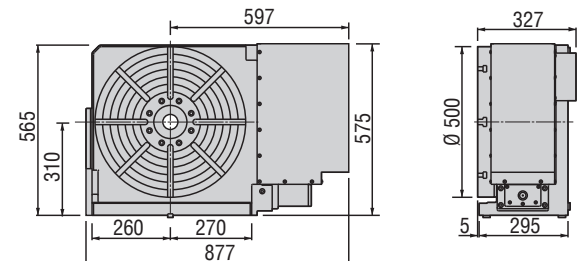
RNCK-631



RNCK-501



RNCM-501



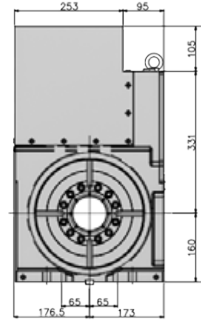
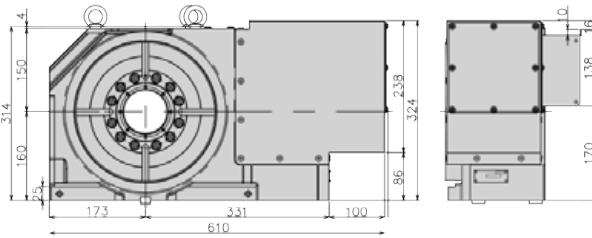
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ROTARY TABLE DIMENSIONS

RWB & RWB,K-Series

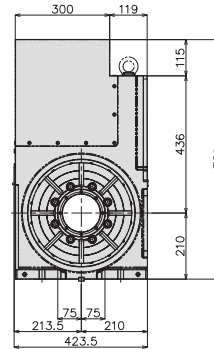
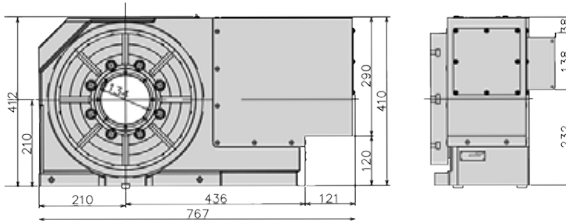
(Drawings Not To Scale)

RWB-250



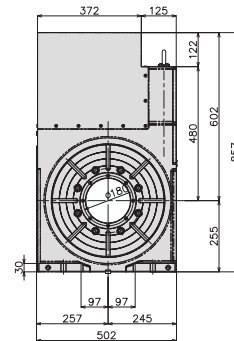
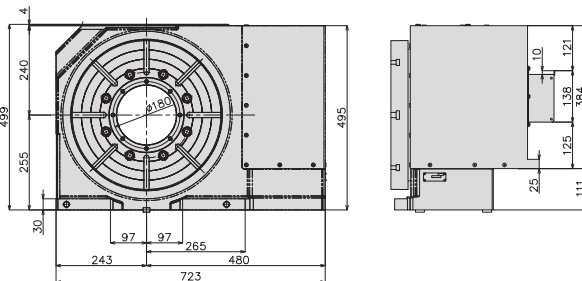
RWB-250K

RWB-320



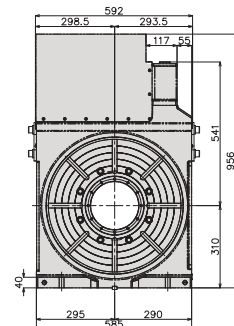
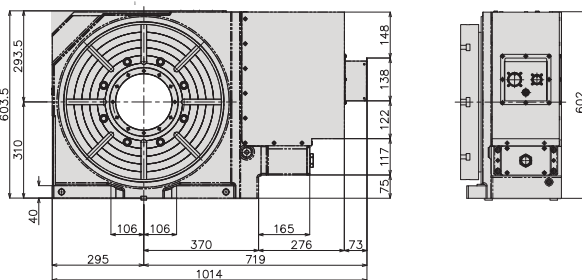
RWB-320K

RWB-400



RWB-400K

RWB-500



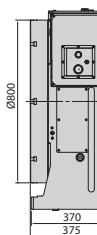
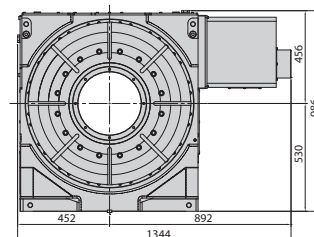
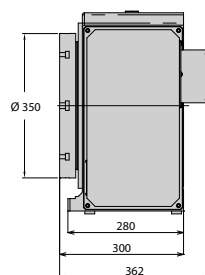
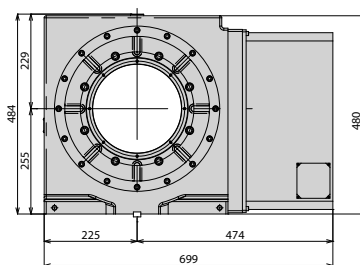
RWB-500K

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

ROTARY TABLE DIMENSIONS

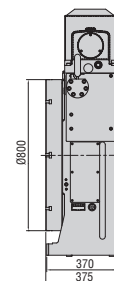
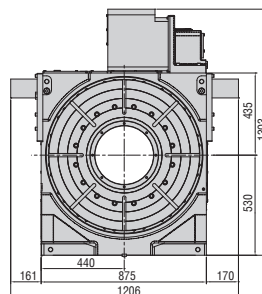
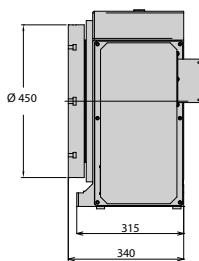
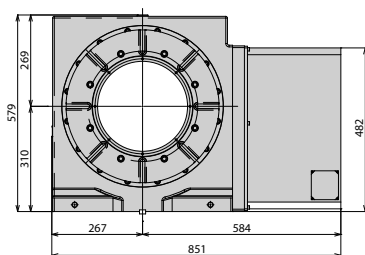
RCB-Series & RCV-Series (Drawings Not To Scale)

RCB-250



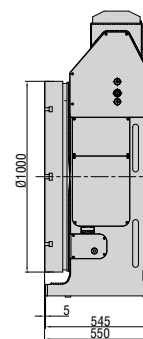
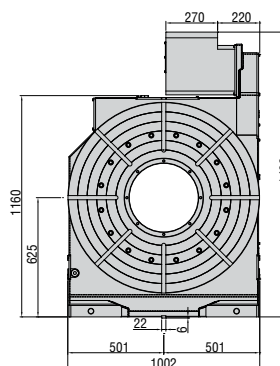
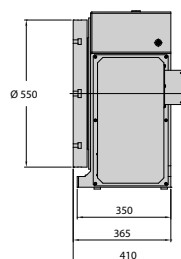
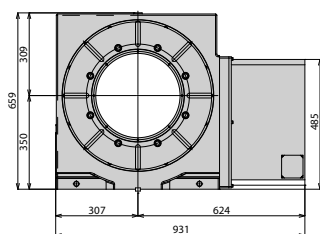
RCV-800R

RCB-350



RCV-800K

RCB-450



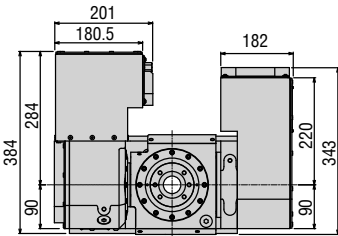
RCV-1000K

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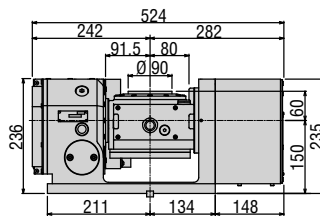
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ROTARY TABLE DIMENSIONS

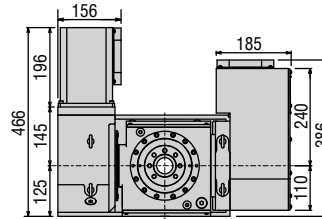
TWA-Series, TBS-Series & RTT-111,CA (Drawings Not To Scale)



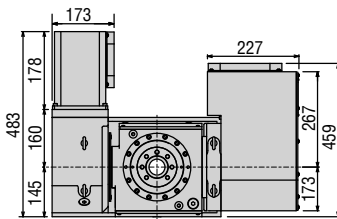
TWA-130



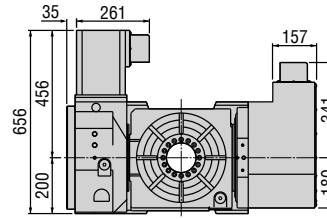
TWA-160



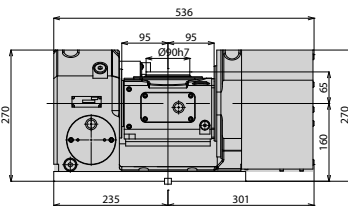
TWA-200



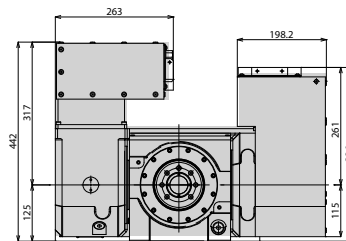
TN-320



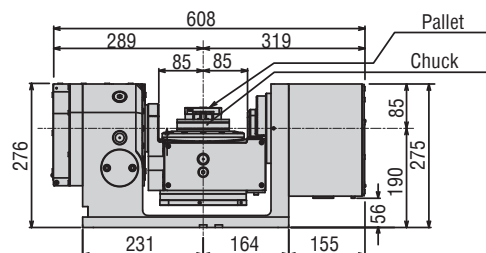
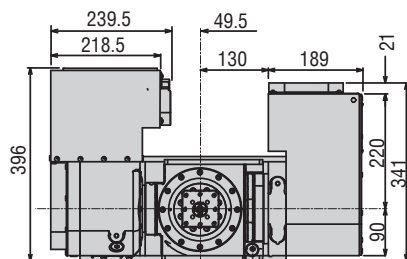
TBS-130



TBS-160



RTT-111 CA



ROTARY TABLE SPECIFICATIONS

RWE-Series Rotary Tables

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	kg·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

RBS,K-Series Rotary Tables

Table Model		RBS-160K
Spindle outer diameter	mm	100h7
Table diameter (optional)	mm	(160, 200)
Center height	mm	135
Center bore	Nose Diameter	55H7
	Thru Diameter	40
Guide block width		14h7
Servo motor (For Fanuc)*		Alpha 4i
Speed reduction ratio		1/36
Maximum table speed	rpm	138.9
Clamp system		Pneumatic
Holding torque @72psi	Nm (ft. lbs.)	500 (368)
Indexing accuracy	arc sec.	±7.5
Net Weight	kg (lbs.)	75 (165)
Allowable work weight [with tailstock]	 kg (lbs)	100 (200) [200 (440)]

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

ROTARY TABLE SPECIFICATIONS

RWA & RBS-Series Rotary Tables

Table Model		RWA-160	RWA-200	RWA-250 (S)	RWA-320 (S)	RBS-160	RBS-250	RBS-320
Versions available		R, L	R, L	R, L	R, L	R	R	R
Spindle outer diameter		100h7	120h7	140h7	180h7	100h7	140h7	180h7
Table diameter (optional)		(160, 200)	(200, 250)	250	320	(160, 200)	250	320
Center height		135	160	160	210	160	210	255
Center bore	Nose Diameter	55H7	65H7	80H7	115H7	55H7	80H7	115H7
	Thru Diameter	40	45	50	85	40	50	85
Table T-slot width (with face plate)		(12H8)	(12H8)	12H8	14H7	12H8	12H8	14H8
Guide block width		14h7	18h7	18h7	18h7	14h7	18h7	18h7
Servo motor (Fanuc)*		Alpha 2i	Alpha 4i	Alpha 8i (8is)	Alpha 8i (22is)	Alpha 4i	Alpha 8i	Alpha 12i
Maximum motor speed	rpm	5,000	5,000	4,000 (4,000)	4,000 (4,000)	5,000	4,000	4,000
Speed reduction ratio		1/72	1/72	1/90 (1/45)	1/120 (1/45)	1/36	1/36	1/36
Maximum table speed	rpm	69.4	69.4	44.4 (88.9)	33.3 (88.9)	138.9	111.1	111.1
Inertia converted into motor shaft $\times 10^{-3} \text{kg}\cdot\text{m}^2$		.09	.17	.41 (.44)	.52 (1.66)	.09	.17	.41
Clamp system		Pneumatic Dual Taper				Pneumatic Disc Clamp		
Clamp torque @72psi	Nm (ft. lbs.)	500 (369)	800 (590)	1,000 (737)	1,500 (1,106)	700 (516)	1480 (1076)	2580 (1901)
Indexing accuracy	arc sec.	± 12.5	± 10	± 10	± 10	± 12.5	± 10	± 10
Net Weight	kg (lbs.)	38 (84)	61 (134)	80 (176)	145 (319)	44 (97)	62 (136)	107 (235)
Allowable wheel torque	Nm (ft. lbs.)	206 (152)	288 (212)	596 (439)	939 (692)	206 (152)	288 (212)	565 (416)
Allowable work inertia	$\text{kg}\cdot\text{m}^2$	.64	1.25	1.95	4.48	.48	1.25	1.95
Allowable work weight	 kg (lbs) [w/ tailstock]	100 (220) [175 (385)]	125 (275) [250 (550)]	125 (275) [250 (550)]	175 (385) [375 (825)]	75 (165) [150 (330)]	100 (220) [250 (550)]	100 (220) [250 (550)]
	 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)	14,400 (3,226)	24,800 (5,555)	7,840 (1,762)	13,720 (3,085)	250 (550)
	 Nm (ft. lbs.)	500 (369)	800 (590)	1,000 (737)	1,500 (1,106)	250 (180)	400 (295)	13,720 (3,073)
	 Nm (ft. lbs.)	780 (575)	1,900 (1,400)	1,900 (1,400)	4,700 (3,464)	392 (290)	980 (723)	600 (442)

* Other motors & RPM available

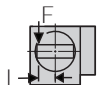
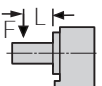
** Booster optional

Dimensions = mm

Specifications subject to change without notice

ROTARY TABLE SPECIFICATIONS

RWB-Series Rotary Tables

Table Model		RWB-250	RWB-320	RWB-400	RWB-500
Versions available		R, L	R, L	R, L	R, L
Table diameter		250	320	400	500
Center height		160	210	255	310
Center bore	Nose Diameter	105	150	200	220
	Thru Diameter	80	120	160	182
Table T-slot width		12H7	14H7	14H7	18H7
Guide block width		18h7			
Servo motor (Fanuc)*		Alpha 8i	Alpha 12i	Alpha 12i	Alpha 12i
Maximum motor speed	rpm	4,000	4,000	4,000	4,000
Speed reduction ratio		1/90	1/90	1/90	1/180
Maximum table speed	rpm	44.4	44.4	44.4	22.2
Inertia converted into motor shaft	$\times 10^{-3} \text{kg-m}^2$	1.27	3.53	4.63	3.00
Clamp system**		Hydraulic			
Clamp torque @500psi	Nm (ft. lbs.)	1,300 (958)	3,100 (2,284)	5,500 (4,053)	6,100 (4,496)
Indexing accuracy	arc sec.	± 7			
Net Weight	kg (lbs.)	125 (286)	250 (550)	360 (792)	620 (1,364)
Allowable wheel torque	Nm (ft. lbs.)	1,011 (745)	2,127 (1,567)	3,958 (2,917)	3,276 (2,414)
Allowable work inertia	kg-m^2	7.0	19.2	36	112
Allowable work weight	 kg (lbs) [w/ tailstock]	175 (385) [250 (550)]	250 (550) [500 (1,100)]	300 (660) [600 (1,320)]	600 (1,320) [1,200 (2,460)]
	 kg (lbs)	350 (770)	1,100 (500)	1,320 (600)	2,640 (1,200)
Allowable load when table clamped	 N (lbf)	35,000 (7,700)	89,000 (19,580)	109,000 (23,980)	240,000 (52,800)
	 Nm (ft. lbs.)	1,300 (958)	3,100 (2,284)	5,500 (4,053)	7,600 (5,601)
	 Nm (ft. lbs.)	1,500 (1,105)	5,300 (3,906)	7,800 (5,748)	17,000 (12,529)

* Other motors & RPM available

** Booster optional

Dimensions = mm

Specifications subject to change without notice

ROTARY TABLE SPECIFICATIONS

RWB,K, RNCK & RT-Series

Table Model		RWB-250K	RWB-320K	RWB-400K	RWB-500K	RNCK-501	RNCK-631	RT-147
Table diameter		250	320	400	500	500	630	160 x (2,4)
Center height		160	210	255	310	310	400	135 & 315
Center bore	Nose Diameter	105	150	200	220H7	50H7	60H6	55H7
	Thru Diameter	80	120	160	182	50	60	40
Table T-slot width		12H7	14H7	14H7	18H7	18H7	18H7	12H8
Guide block width		18h7						14h7
Servo motor (Fanuc)*		Alpha 8i	Alpha 12i	Alpha 12i	Alpha 12i	Alpha 12i		Alpha 4i
Maximum motor speed	rpm	4,000	4,000	4,000	4,000	4,000		5,000
Speed reduction ratio		1/90	1/90	1/90	1/180	1/180		1/90
Maximum table speed	rpm	44.4	44.4	44.4	22.2	22.2		55.5
Inertia converted into motor shaft	x 10 ⁻³ kg.m ²	1.27	3.53	4.63	3.00	3.09	5.55	.25
Clamp system		Hydraulic**						Pneumatic
Clamp torque @500psi [@72psi]	Nm (ft. lbs.)	1,300 (958)	3,100 (2,284)	5,500 (4,053)	7,600 (5,601)	2,450 (1,806)	4,410 (3,250)	[156 (115)]
Indexing accuracy		±7				±7.5	±7.5	±12.5
Net Weight	kg (lbs.)	125 (286)	250 (550)	360 (792)	620 (1,364)	450 (990)	800 (1,760)	100 (220) quad
Allowable wheel torque	Nm (ft. lbs.)	1,011 (745)	2,127 (1,567)	3,958 (2,917)	3,276 (2,414)	2,450 (1,806)	4,116 (3,033)	147 (108)
Allowable work inertia		7.0	19.2	36.0	112	18.2	39.7	.48
Allowable work weight	 kg (lbs) [w/ tailstock]	175 (385) [250 (550)]	250 (550) [500 (1,100)]	300 (660) [600 (1,320)]	600 (1,320)	250 (550) [600 (1,320)]	400 (880) [800 (1,760)]	75/face plate (165/face plate)
Allowable load when table clamped	 N (lbf)	35,000 (7,700)	89,000 (19,580)	109,000 (23,980)	240,000 (52,800)	49,000 (10,976)	49,000 (10,976)	-
	 Nm (ft. lbs.)	1,300 (958)	3,100 (2,284)	5,500 (4,053)	7,600 (5,601)	2,450 (1,806)	4,410 (3,250)	156 (115)
	 Nm (ft. lbs.)	1,500 (1,105)	5,300 (3,906)	7,800 (5,748)	17,000 (12,529)	3,430 (2,528)	7,840 (5,778)	392 (289)

* Other motors & RPM available

** Booster optional

Dimensions = mm

Specifications subject to change without notice

ROTARY TABLE SPECIFICATIONS

RCV-Series

Table Model		RCV-800R	RCV-800K	RCV-1000K
Table diameter (optional)		800 (1,000)	800 (1,000)	1,000 (1,200)
Center height		530	530	625
Center bore	Nose Diameter	360H7 x 45	360H7 x 45	410H7 x 65
	Thru Diameter	310	310	360
Table T-slot width		18H7	18H7	22H7
Guide block width		22h7	22h7	
Servo motor (Fanuc)*		Alpha 12i	Alpha 12i	Alpha 22i
Maximum motor speed	rpm	4,000	4,000	3,000
Speed reduction ratio		1/360	1/360	
Maximum table speed	rpm	11.1	11.1	8.33
Inertia converted into motor shaft	$\times 10^{-3}\text{kg}\cdot\text{m}^2$	4.89	4.89	12.2
Clamp system**		Hydraulic	Hydraulic	
Clamp torque @500psi	Nm (ft. lbs.)	7,000 (5,159)	7,000 (5,159)	20,000 (14,740)
Indexing accuracy	arc sec.	± 7.5	± 7.5	
Net Weight	kg (lbs.)	1,450 (3,190)	1,450 (3,190)	2,500 (5,500)
Allowable wheel torque	Nm (ft. lbs.)	7,840 (5,778)	7,840 (5,778)	13,230 (9,751)
Allowable work inertia	$\text{kg}\cdot\text{m}^2$	320	320	874
Allowable work weight	 kg (lbs.) [w/ tailstock]	2,000 (4,400) [4,000 (8,000)]	2,000 (4,400) [4,000 (8,000)]	3,500 (7,700) [7,000 (15,400)]
	 kg (lbs.)	4,000 (8,800)	4,000 (8,800)	7,000 (15,400)
Allowable load when table clamped	 N (lbf)	100,000 (22,400)	100,000 (22,400)	185,000 (41,440)
	 Nm (ft. lbs.)	7,000 (5,159)	7,000 (5,159)	20,000 (14,740)
	 Nm (ft. lbs.)	11,600 (8,550)	11,600 (8,550)	22,900 (16,877)

* Other motors & RPM available

** Booster optional

Specifications subject to change without notice

ROTARY TABLE SPECIFICATIONS

RCB-Series Rotary Tables

Table Model		RCB-350	RCB-450	RCB- 550
Versions available		R,L	R,L	R,L
Table diameter		350	450	550
Center height		255	310	350
Center bore	Nose Diameter	245H7	295H7	345H7
	Thru Diameter	215	265	315
Table T-slot width		14H7	14H7	18H7
Guide block width		18h7	18h7	18h7
Servo motor*		Alpha 12i	Alpha 22i	Alpha 22i
Maximum motor speed	rpm	4,000	3,000	3,000
Speed reduction ratio		1/90	1/90	1/120
Maximum table speed	rpm	44.4	33.3	33.3
Inertia converted into motor shaft	$\times 10^{-3}\text{kg}\cdot\text{m}^2$	3.48	6.14	6.01
Clamp system**		Hydraulic		
Clamp torque @500psi	Nm (ft. lbs.)	3,300 (2,432)	4,700 (3,464)	6,500 (4,790)
Indexing accuracy	arc sec.	± 7.5		
Net Weight	kg (lbs.)	400 (880)	520 (1,144)	720 (1,584)
Allowable wheel torque	Nm (ft. lbs.)	1,942 (1,431)	3,276 (2,414)	4,716 (3,475)
Allowable work inertia	$\text{kg}\cdot\text{m}^2$	6.1	17.7	37.8
Allowable work weight [with tailstock]	 kg (lbs.)	400 (880)	700 (1,540)	1,000 (2,200)
Allowable load when table clamped	 N (lbf)	29,400 (6,586)	45,000 (10,080)	54,000 (12,096)
	 Nm (ft. lbs.)	3,300 (2,432)	4,700 (3,464)	6,500 (4,790)
	 Nm (ft. lbs.)	3,626 (2,672)	8,000 (5,896)	15,132 (11,152)

* Other motors & RPM available

** Booster optional

Specifications subject to change without notice

ROTARY TABLE SPECIFICATIONS

RN-Multi Series Rotary Tables

Table Model		RN-100-2,3,4		
Versions available		R, L		
Spindle outer diameter		80h7		
Table diameter (optional)		(115)		
Center height		135		
Center bore	Nose Diameter	50H7		
	Thru Diameter	30		
Table T-slot width (with face plate)		(10H8)		
Minimum spindle center distance		120		
Guide block width		18h7		
Servo motor (Fanuc)*		Alpha 4i		
Maximum motor speed	rpm	5,000		
Speed reduction ratio		1/36		
Number of spindles		2	3	4
Maximum table speed	rpm	138.9		
Inertia converted into motor shaft	$\times 10^{-3} \text{kg} \cdot \text{m}^2$	.64	.92	1.06
Clamp system		Pneumatic		
Clamp torque @72psi	Nm (ft. lbs.)	80 (59)		
Indexing accuracy		arc sec.		
Net Weight [dual spindle]		kg (lbs.)		
Allowable wheel torque		Nm (ft. lbs.)		
Allowable work inertia		kg·m ²		
Allowable work weight		kg (lbs) [w/ tailstock]	25 (55) [50 (110)]	
		kg (lbs)	50 (110)	
Allowable load when table clamped		N (lbf)	5,880 (1,317)	
		Nm (ft. lbs.)	80 (59)	
		Nm (ft. lbs.)	156 (115)	

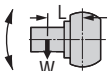
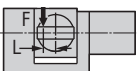
* Other motors & RPM available

** Booster optional

Specifications subject to change without notice

ROTARY TABLE SPECIFICATIONS

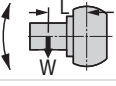
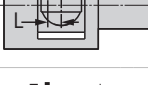
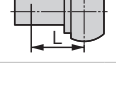
TWA-Series Rotary Tables

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)			

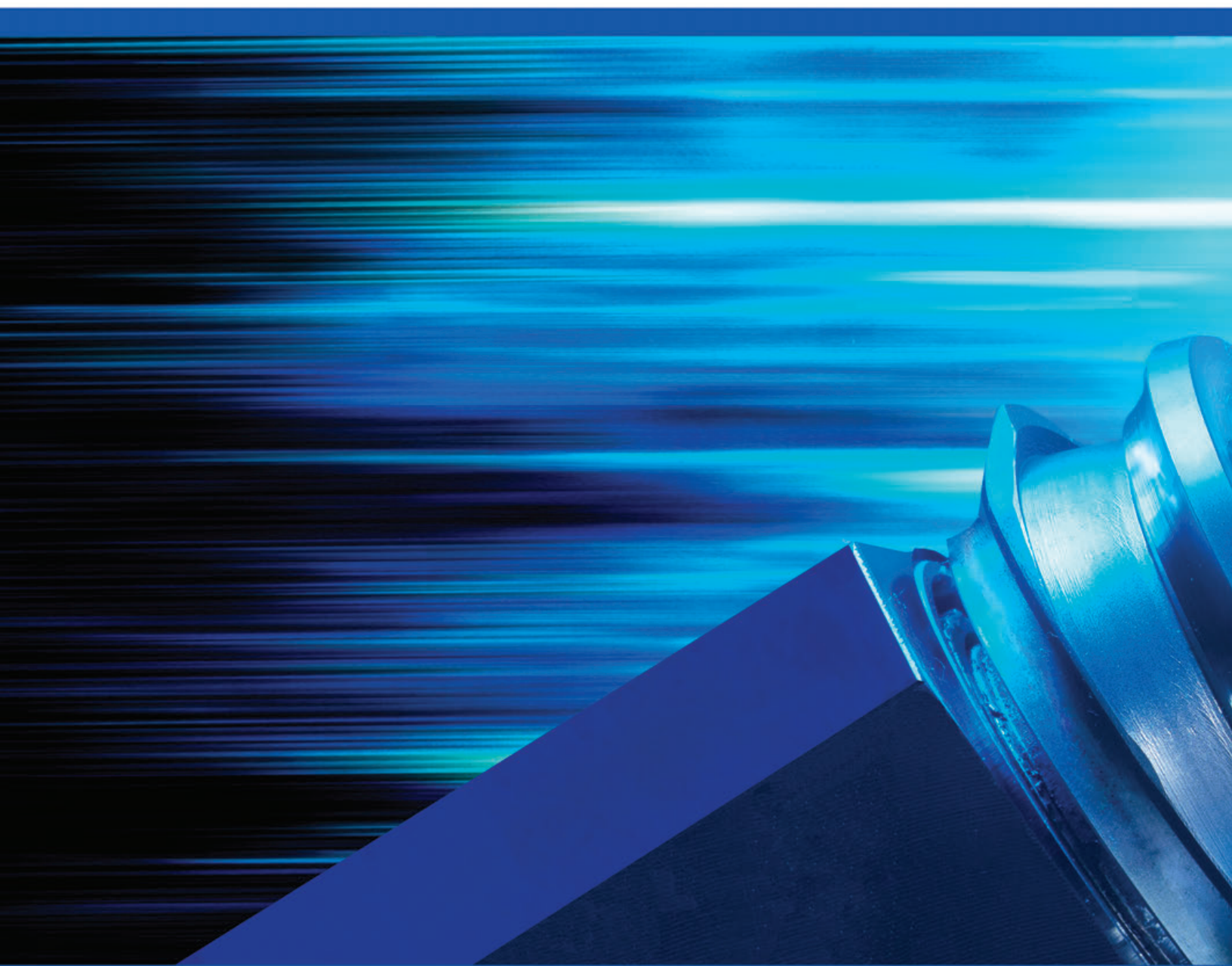
* Other motors & RPM available • ** Booster optional • Dimensions = mm • Specifications subject to change without notice

ROTARY TABLE SPECIFICATIONS

TBS-Series & RTT-111,CA Rotary Tables

Model		TBS-130		TBS-160		RTT-111,CA	
Tilt Range		-30° ~ +110°		-30° ~ +110°		-17° ~ +107°	
Spindle outer diameter		90h7		100h7			
Table diameter (optional)		(135)		(160 or 200)			
Table height at 0° position		225 (250 w/faceplate)		270 (300 w/faceplate)		190	
Center height at 90° position		160		200		190	
Center bore	Nose Diameter (w/face plate)	55H7 (40H7)		55H7 (50H7)		-	
	Thru Diameter	40		40		-	
Table T-slot width		12H8		12H8		14H7	
Guide block width		14h7		18h7		14H7	
Servo motor (Fanuc)*		<i>Rotary</i>	<i>Tilt</i>	<i>Rotary</i>	<i>Tilt</i>	<i>Rotary</i>	<i>Tilt</i>
		Alpha 2i	Alpha 2i	Alpha 2i	Alpha 4i	Alpha 2i	Alpha 2i
Maximum motor speed	rpm	5,000	5,000	5,000	5,000	5,000	5,000
Speed reduction ratio		1/48	1/60	1/60	1/60	1/60	1/120
Maximum table speed	rpm	104.2	83.3	83.3	83.3	83.3	41.7
Inertia converted into motor shaft	x 10 ⁻³ kg.m ²	.074	.072	.17	.18	.074	.72
Clamp system		Pneumatic				Hydraulic @500 psi **	
Clamp torque @72psi	Nm (ft. lbs.)	700 (516)	700 (516)	700 (516)	700 (516)	[2,200] [(1,621)]	[2,200] [(1,621)]
Indexing accuracy	arc sec.	±10	-	±10	-	±20	-
Tilting accuracy	arc sec.	-	±17.5	-	±17.5	-	±30
Net Weight	kg (lbs.)	125 (276)		160 (353)		98 (216)	
Allowable wheel torque - rotary	Nm (ft. lbs.)	-		-		152 (112)	
Allowable work inertia	kg.m ²	.08		.19		.08	
Allowable work weight	0° tilt angle  kg (lbs.)	35 (77)		60 (132)		35 (77)	
	0° ~ 90° tilt angle  kg (lbs.)	20 (44)		40 (88)		20 (44)	
Allowable work moment	 Nm (ft. lbs.)	61.1		59.6		57 (42)	
Allowable load when table clamped	 N (lbf)	3,920 (878)		10,800		3,920 (878)	
	 Nm (ft. lbs.)	700 (516)		700 (516)		500 (369)	
	 Nm (ft. lbs.)	700 (516)		700 (516)		500 (369)	

* Other motors & RPM available • ** Booster optional • Dimensions = mm • Specifications subject to change without notice



Tsudakoma-Kitamura 19.0 1/15/19



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