



TOOL HOLDER SHOP INC
PRODUCT CATALOG
(c) 2023

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CNC ROTARY TABLE 4TH AXIS 250 mm 0.001 DEG. PNEUMATIC BRAKE WORM GEAR MOTOR BACK



Item / Model		Unit	THS013636 AR(s)-125B	THS013637 AR(s)-170B	THS013638 AR(s)-210B	THS013557 AR(s)-250B
Table Diameter		mm	Ø 125	Ø 170	Ø 210	Ø 250
Diameter of Table Central Hole		mm	Ø 35H7	Ø 67	Ø 67	Ø 67
Inner Diameter of Mandrel Sleeve		mm	-	Ø 40H7	Ø 40H7	Ø 40H7
Diameter of Center Through Hole		mm	Ø 25	Ø 40	Ø 40	Ø 40
Center Height (Vertical)		mm	110	135	160	160
Table Height (Horizontal)		mm	-	-	-	-
Table T-slot Width		mm	12H7	12H7	12H7	12H7
Guide Block Width		mm	14h7	18h7	18h7	18h7
Minimal Increment		deg.	0.001°	0.001°	0.001°	0.001°
Indexing Precision		sec.	40	20	20	20
Repeatability		sec.	6	6	6	6
Clamping System (Pneumatic)		kg/cm ²	6	6	6	6
Clamping Torque		kg-m	13	31	31	31
Servo Motor Model	FANUC	Taper shaft	αiS4 / βiS4	αiF4 / αiF8 / βiS8	αiF4 / αiF8 / βiS8	αiF4 / αiF8 / βiS8
	MITSUBISHI	Taper shaft	HG/HF-75 / 105	HG/HF-54 / 104	HG/HF-54 / 104	HG/HF-54 / 104
Speed Reduction Ratio		-	1:60	1:90	1:90	1:90
Max. Rotation Rate of Table(Calculate with Fanuc α Motor)		R.P.M.	83.3(33.3)	44.4(33.3)	44.4(33.3)	44.4(33.3)
Allowable Inertia Load Capacity(Horizontal)		kg.cm.sec ²	2	2.7	4.1	5.9

<u>Allowable Workpiece Load</u>	Vertical 	kg	50	75	75	75
	<u>with Tailstock</u>	kg	100	150	150	150
	<u>Horizontal</u>	kg	N/A	N/A	N/A	N/A
<u>Allowable Load(with Rotary Table Clamping)</u>	F 	kgf	1000	1450	1450	1450
	<u>FxL</u>	kgf.m	45	100	100	100
	<u>FxL</u>	kgf.m	13	31	31	31
<u>Strength of worm gears</u>		kg.m	9(3.7)	18(14.6)	18(14.6)	18(14.6)

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
<u>THS013557</u>	CNC ROTARY TABLE 4TH AXIS 250 mm 0.001 DEG. PNEUMATIC BRAKE WORM GEAR MOTOR BACK							
<u>THS013636</u>	CNC ROTARY TABLE 4TH AXIS 125 mm 0.001 DEG. PNEUMATIC BRAKE WORM GEAR MOTOR BACK							
<u>THS013637</u>	CNC ROTARY TABLE 4TH AXIS 170 mm 0.001 DEG. PNEUMATIC BRAKE WORM GEAR MOTOR BACK							
<u>THS013638</u>	CNC ROTARY TABLE 4TH AXIS 210 mm 0.001 DEG. PNEUMATIC BRAKE WORM GEAR MOTOR BACK							

Updated 202302

CNC ROTARY TABLE 4TH AXIS 125 mm 0.001 DEG. PNEUMATIC BRAKE WORM GEAR MOTOR RIGHT



Item / Model		Unit	THS013620 AR(s)-125R	THS013648 AR(s)-170R	THS013649 AR(s)-210R	THS013650 AR(s)-250R	THS013651 AR(s)-255H
Table Diameter		mm	Ø 125	Ø 170	Ø 210	Ø 250	Ø 255
Diameter of Table Central Hole		mm	Ø 35H7	Ø 67	Ø 67	Ø 67	Ø 110
Inner Diameter of Mandrel Sleeve		mm	-	Ø 40H7	Ø 40H7	Ø 40H7	Ø 80H7
Diameter of Center Through Hole		mm	Ø 25	Ø 40	Ø 40	Ø 40	Ø 80
Center Height (Vertical)		mm	110	135	160	160	160
Table Height (Horizontal)		mm	152	152	152	160	200
Table T-slot Width		mm	12H7	12H7	12H7	12H7	12H7
Guide Block Width		mm	14h7	18h7	18h7	18h7	18h7
Minimal Increment		deg.	0.001°	0.001°	0.001°	0.001°	0.001°
Indexing Precision		sec.	40	20	20	20	15
Repeatability		sec.	6	6	6	6	4
Clamping System (Pneumatic)		kg/cm ²	6	6	6	6	5
Clamping Torque		kg-m	13	31	31	31	70
Servo Motor Model	FANUC	Taper shaft	αiS4 / βiS4	αiF4 / αiF8 / βiS8	αiF4 / αiF8 / βiS8	αiF4 / αiF8 / βiS8	αiF4 / αiF8 / βiS8
	MITSUBISHI	Taper shaft	HG/HF-75/105	HG/HF-54/104	HG/HF-54/104	HG/HF-54/104	HG/HF-104/154
Speed Reduction Ratio		-	1:60	1:90	1:90	1:90	1:120
Max. Rotation Rate of Table(Calculate with Fanuc α Motor)		R.P.M.	83.3(33.3)	44.4(33.3)	44.4(33.3)	44.4(33.3)	33.3(25)
Allowable Inertia Load Capacity(Horizontal)		kg.cm.sec ²	2	5.4	8.3	11.7	20.3

<u>Allowable Workpiece Load</u>	Vertical 	kg	50	75	75	75	100
	<u>with Tailstock</u>	kg	100	150	150	150	250
	<u>Horizontal</u>	kg	100	150	150	150	250
<u>Allowable Load(with Rotary Table Clamping)</u>	F 	kgf	1000	1450	1450	1450	2000
	<u>FxL</u>	kgf.m	45	100	100	100	112
	<u>FxL</u>	kgf.m	13	31	31	31	70
<u>Strength of worm gears</u>		kg.m	9(3.7)	18(14.6)	18(14.6)	18(14.6)	55(19.6)

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
<u>THS013620</u>	CNC ROTARY TABLE 4TH AXIS 125 mm 0.001 DEG. PNEUMATIC BRAKE WORM GEAR MOTOR RIGHT							
<u>THS013648</u>	CNC ROTARY TABLE 4TH AXIS 170 mm 0.001 DEG. PNEUMATIC BRAKE WORM GEAR MOTOR RIGHT							
<u>THS013649</u>	CNC ROTARY TABLE 4TH AXIS 210 mm 0.001 DEG. PNEUMATIC BRAKE WORM GEAR MOTOR RIGHT							
<u>THS013650</u>	CNC ROTARY TABLE 4TH AXIS 250 mm 0.001 DEG. PNEUMATIC BRAKE WORM GEAR MOTOR RIGHT							
<u>THS013651</u>	CNC ROTARY TABLE 4TH AXIS 255 mm 0.001 DEG. PNEUMATIC BRAKE WORM GEAR MOTOR RIGHT							

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CNC ROTARY TABLE 4TH AXIS 125 mm 0.001 DEG. PNEUMATIC BRAKE WORM GEAR MOTOR LEFT



Item / Model		Unit	THS013652 AR(s)-125L	THS013653 AR(s)-170L	THS013654 AR(s)-210L	THS013655 AR(s)-250L
Table Diameter		mm	Ø 125	Ø 170	Ø 210	Ø 250
Diameter of Table Central Hole		mm	Ø 35H7	Ø 67	Ø 67	Ø 67
Inner Diameter of Mandrel Sleeve		mm	-	Ø 40H7	Ø 40H7	Ø 40H7
Diameter of Center Through Hole		mm	Ø 25	Ø 40	Ø 40	Ø 40
Center Height (Vertical)		mm	110	135	160	160
Table Height (Horizontal)		mm	152	152	152	160
Table T-slot Width		mm	12H7	12H7	12H7	12H7
Guide Block Width		mm	14h7	18h7	18h7	18h7
Minimal Increment		deg.	0.001°	0.001°	0.001°	0.001°
Indexing Precision		sec.	40	20	20	20
Repeatability		sec.	6	6	6	6
Clamping System (Pneumatic)		kg/cm ²	6	6	6	6
Clamping Torque		kg-m	13	31	31	31
Servo Motor Model	FANUC	Taper shaft	αiS4 / βiS4	αiF4 / αiF8 / βiS8	αiF4 / αiF8 / βiS8	αiF4 / αiF8 / βiS8
	MITSUBISHI	Taper shaft	HG/HF-75/105	HG/HF-54/104	HG/HF-54/104	HG/HF-54/104
Speed Reduction Ratio		-	1:60	1:90	1:90	1:90
Max. Rotation Rate of Table(Calculate with Fanuc α Motor)		R.P.M.	83.3(33.3)	44.4(33.3)	44.4(33.3)	44.4(33.3)
Allowable Inertia Load Capacity(Horizontal)		kg.cm.sec ²	2	5.4	8.3	11.7

<u>Allowable Workpiece Load</u>	Vertical 	kg	50	75	75	75
	<u>with Tailstock</u>	kg	100	150	150	150
	<u>Horizontal</u>	kg	100	150	150	150
<u>Allowable Load(with Rotary Table Clamping)</u>	F 	kgf	1000	1450	1450	1450
	<u>FxL</u>	kgf.m	45	100	100	100
	<u>FxL</u>	kgf.m	13	31	31	31
<u>Strength of worm gears</u>		kg.m	9(3.7)	18(14.6)	18(14.6)	18(14.6)

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
<u>THS013652</u>	CNC ROTARY TABLE 4TH AXIS 125 mm 0.001 DEG. PNEUMATIC BRAKE WORM GEAR MOTOR LEFT							
<u>THS013653</u>	CNC ROTARY TABLE 4TH AXIS 170 mm 0.001 DEG. PNEUMATIC BRAKE WORM GEAR MOTOR LEFT							
<u>THS013654</u>	CNC ROTARY TABLE 4TH AXIS 210 mm 0.001 DEG. PNEUMATIC BRAKE WORM GEAR MOTOR LEFT							
<u>THS013655</u>	CNC ROTARY TABLE 4TH AXIS 250 mm 0.001 DEG. PNEUMATIC BRAKE WORM GEAR MOTOR LEFT							

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ROTARY TAILSTOCK D=250 mm PNEUMATIC BRAKE

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS013564	ROTARY TAILSTOCK D=250 mm PNEUMATIC BRAKE							

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MITSUBISHI SERVO DRIVER (model TBA)



SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS013807	MITSUBISHI SERVO DRIVER (model TBA)							

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MITSUBISHI MOTOR HG54T-D48 for M70 M80



SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS013808	MITSUBISHI MOTOR HG54T-D48 for M70 M80							

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CABLES EXTERNAL POWER AND FEEDBACK WITH CONNECTOR 2.7 m



SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS013806	CABLES EXTERNAL POWER AND FEEDBACK WITH CONNECTOR 2.7 m							

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TAILSTOCK MANUAL MT4 170 mm



SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS013803	TAILSTOCK MANUAL MT4 170 mm							

Updated 202302

CABLES INTERNAL WITH CONNECTOR POWER AND FEEDBACK 3.5 m



SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS013805	CABLES INTERNAL WITH CONNECTOR POWER AND FEEDBACK 3.5 m							

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TAILSTOCK ROTARY PNEUMATIC BRAKE 170 mm



SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS013804	TAILSTOCK ROTARY PNEUMATIC BRAKE 170 mm							

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CNC ROTARY TAILSTOCK 125 mm PNEUMATIC BRAKE

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS013621	CNC ROTARY TAILSTOCK 125 mm PNEUMATIC BRAKE							

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HYDRAULIC UNIT (GANRO)

SKU	Interface	Direction	Capacity	Projection	Rotation	Hand	Coolant	Offset
THS015622	HYDRAULIC UNIT (GANRO)							
THS015629	HYDRAYLIC UNIT 3 LOOPS 4 PIPES							
THS015630	HYDRAULIC UNIT 2 LOOPS 2 PIPES							

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