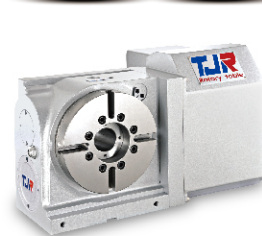


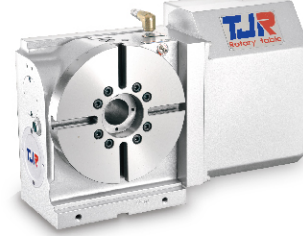
CNC Rotary Tables (Min indexing angle – 0.001°)

AR Series (Powerful Pneumatic Brake)- Right Side Motor

AR(s)-125R/170R/210R/250R/255H



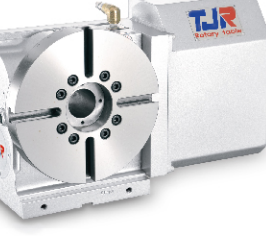
▲ AR(s)-170R



▲ AR(s)-210R



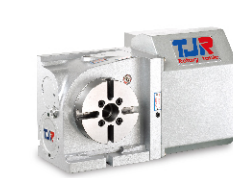
◀ Alloy steel worm gear (Optional)



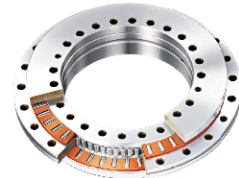
▲ AR(s)-250R



▲ AR(s)-255HR



▲ AR(s)-125R Use radial & axial bearings



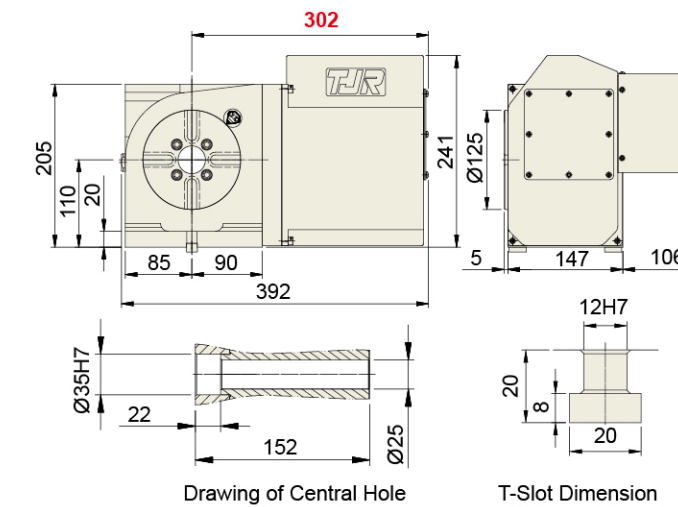
Hydraulic AR(s)-170HR/210HR/250HR are alternatives.

Item / Model	Unit	AR(s)-125R	AR(s)-170R	AR(s)-210R / AR(s)-250R	AR(s)-255HR
Table Diameter	mm	Ø 125	Ø 170	Ø 210 / Ø 250	Ø255
Inner Diameter of Mandrel Sleeve	mm	Ø 35H7 (Diameter of table central hole)	Ø 40H7	Ø 40H7	Ø80H7
Diameter of Center Through Hole	mm	Ø 25	Ø 40	Ø 40	Ø80
Center Height (Vertical)	mm	110	135	160	160
Table Height (Horizontal)	mm	152	152	152 / 160	200
Table T-slot Width	mm	12H7	12H7	12H7	12H7
Guide Block Width	mm	14h7	18h7	18h7	18h7
Min. Increment	deg.	0.001	0.001	0.001	0.001
Indexing Precision	sec.	40	20	20	15
Repeatability	sec.	6	6	6	6
Clamping System (Pneumatic)	kgf/cm ²	6	6	6	5
Clamping Torque	kgf-m	13	31	31	70
Servo Motor Model	FANUC	Taper shaft	αis4 / βis4	αiF4 / αiF8 / βis8	αiF4 / αiF8 / βis8
	MITSUBISHI	Taper / Straight shaft	HG/HF-75 / 105	HG/HF-54 / 104	HG/HF-54 / 104
Speed Reduction Ratio	-	1 : 60	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)	33.3 *(25)
Allowable Inertia Load Capacity (Horizontal)	kg.cm.sec ²	2	5.4	8.3 / 11.7	20.3
Allowable Workpiece Load	Vertical	kg	50	75	100
	with Support Table	kg	100	150	250
	Horizontal	kg	100	150	250
Allowable Thrust Load (with Rotary Table Clamping)	F	kgf	1000	1450	2000
	FxL	kgf-m	45	110	150
	FxL	kgf-m	13	31	70
Driving Torque	kgf-m	9 *(3.7)	18 *(14.6)	18 *(14.6)	55 *(19.6)
Net Weight (servo motor excluded)	kg	34	50	55 / 58	116

*() Alloy Steel worm & gear series

NEW Powerful Brake System

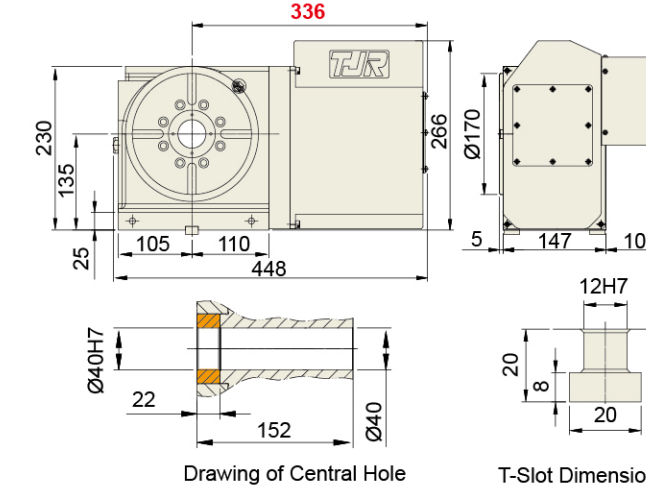
AR(s)-125R



NEW Powerful Brake System

AR(s)-170R

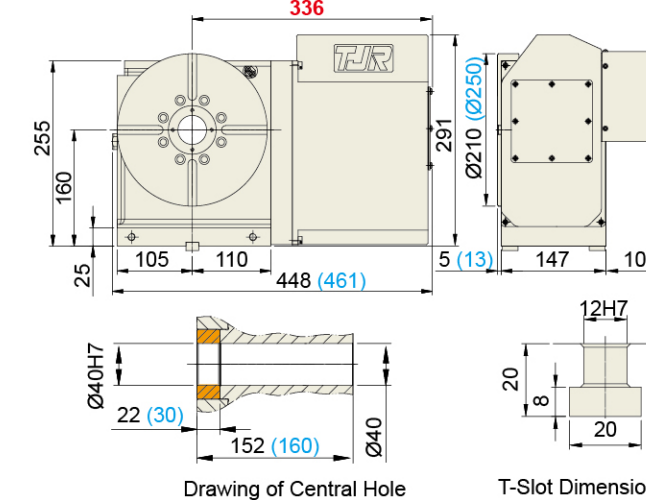
AR(s)-170HR
(Hydraulic Brake)



NEW Powerful Brake System

AR(s)-210R/250R

AR(s)-210HR/250HR
(Hydraulic Brake)

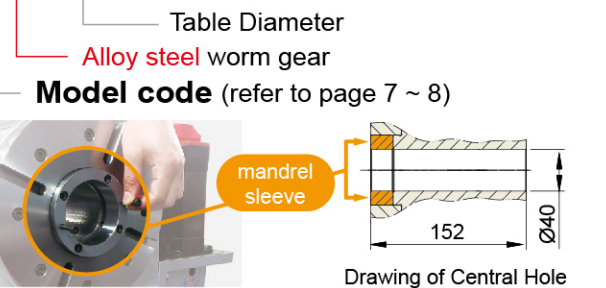


*() : the dimension of Model AR(s)-250R

ARs-210H-R-J-A

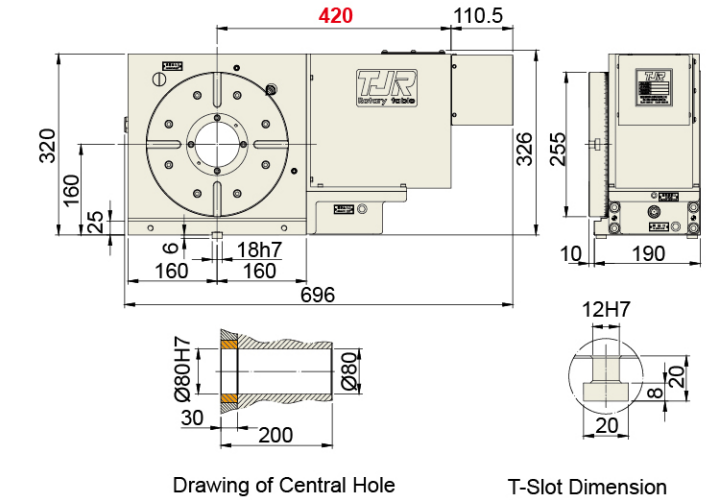
Diagram of Model Encoding Rules

- Special Version (A, B, C...) Specified by Customers
- J: Worm and Worm Gear
Made in Japan
(Recommend for any table which sizes up to over Ø255mm)
- T: Worm and Worm Gear
Made in Taiwan
- R: Right Side Motor
(for Both Vertical and Horizontal Applications)
- L: Left side motor, while applying to 4th axis. (for Both Vertical and Horizontal Applications)
- L: Extended type, while applying to 4th & 5th axis
- L: Integrated linear guideway bottom type, while applying to auto pallet changer.
- B: Back Side Motor
(Only for Vertical Application
;not able to equip with angle encoder)
- N: Right Side Motor with Sheet Metal Cover Reduction
(Only for Vertical Application)
- C: Dual-axis Cradle Type
- S: Dual-axis Single-arm Type
- A: 2nd generation
- H: Hydraulic Brake



NEW Powerful Brake System

AR(s)-255HR



CNC Rotary Tables (Min indexing angle – 0.001°)

AR Series (Powerful Pneumatic Brake)- Left Side Motor

AR(s)-125L/170L/210L/250L



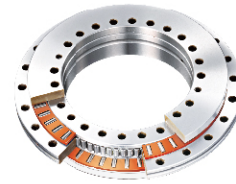
AR(s)-170L ▲



▲ AR(s)-125L



Use radial & axial bearings



Alloy steel worm gear (Optional)



AR(s)-210L ▲



AR(s)-250L ▲

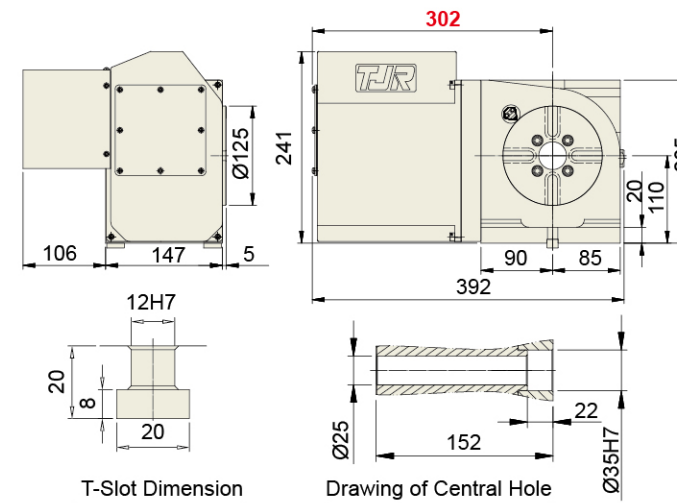
Hydraulic AR(s)-170HL/210HL/250HL are alternatives.

Item / Model	Unit	AR(s)-125L	AR(s)-170L	AR(s)-210L	AR(s)-250L
Table Diameter	mm	Ø 125	Ø 170	Ø 210	Ø 250
Inner Diameter of Mandrel Sleeve	mm	Ø 35H7 (Diameter of table central hole)	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
Min. 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)	kgf/cm ²	6	6	6	6
Clamping Torque	kgf·m	13	31	31	31
Servo Motor Model	FANUC	Taper shaft	aiF4 / aiF8 / βis8	aiF4 / aiF8 / βis8	aiF4 / aiF8 / βis8
	MITSUBISHI	Taper / Straight shaft	HG/HF-75 / 105	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
Allowable Workpiece Load	Vertical	kg	50	75	75
	with Support Table	kg	100	150	150
	Horizontal	kg	100	150	150
Allowable Thrust Load (with Rotary Table Clamping)	F	kgf	1000	1450	1450
	FxL	kgf·m	45	110	110
	FxL	kgf·m	13	31	31
Driving Torque	kgf·m	9 *(3.7)	29 *(14.6)	29 *(14.6)	29 *(14.6)
Net Weight (servo motor excluded)	kg	34	50	55	58

*() Alloy Steel worm & gear series

NEW Powerful Brake System

AR(s)-125L



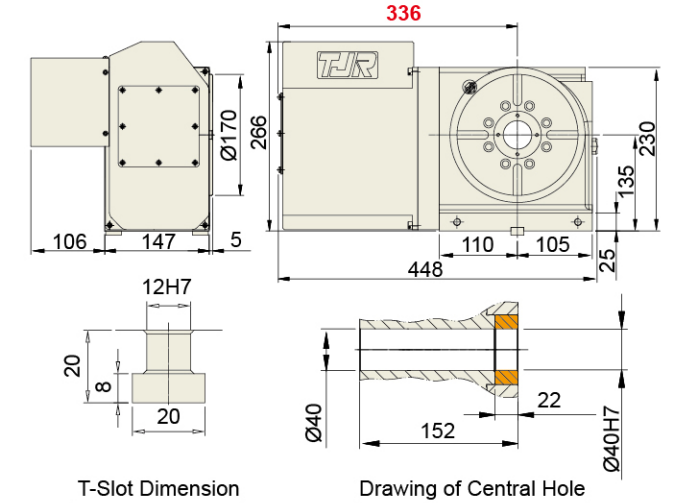
T-Slot Dimension

Drawing of Central Hole

NEW Powerful Brake System

AR(s)-170L

AR(s)-170HL
(Hydraulic Brake)



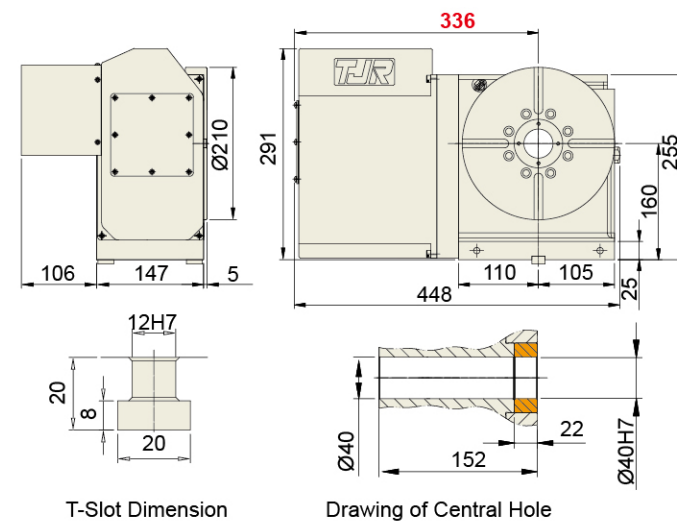
T-Slot Dimension

Drawing of Central Hole

NEW Powerful Brake System

AR(s)-210L

AR(s)-210HL
(Hydraulic Brake)



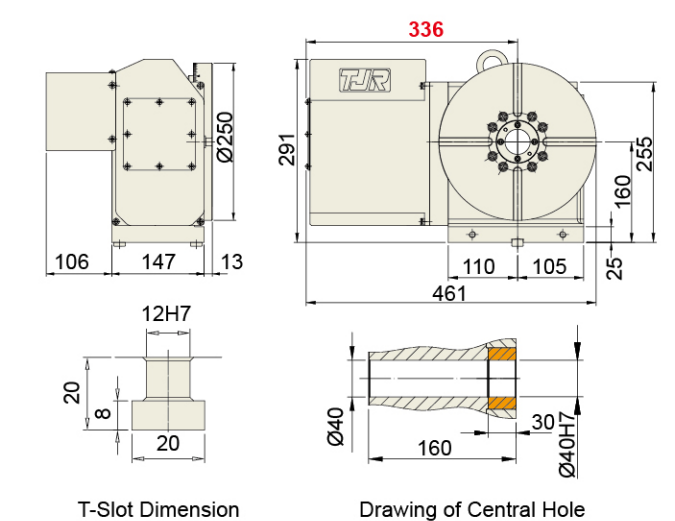
T-Slot Dimension

Drawing of Central Hole

NEW Powerful Brake System

AR(s)-250L

AR(s)-250HL
(Hydraulic Brake)



T-Slot Dimension

Drawing of Central Hole

※ While using AR series rotary table (pneumatic brake), please note the following matters :



Air pressure required



Solenoid valve (inside of rotary table)

scenario 1



Solenoid valve (inside of rotary table)

scenario 2



Simultaneously brake for rotary table and tailstock

Note:
Please mount cooling dryer or F.R.L unit to avoid any rustiness which seizes up the shaft of solenoid valve and damages the coils.