

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

▲ AR(s)-250R

▲ AR(s)-255HR

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 | |
| Diameter of Table Central Hole | mm | Ø 35H7 | Ø 67 | Ø 67 | Ø110 | |
| Inner Diameter of Mandrel Sleeve | mm | - | 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 | ais4 / βis4 | 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 | HG/HF-104 / 154 |
| 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 | 75 | 100 |
| | with Tailstock | kg | 100 | 150 | 150 | 250 |
| | Horizontal | kg | 100 | 150 | 150 | 250 |
| Allowable Thrust Load (with Rotary Table Clamping) | F | kgf | 1000 | 1450 | 1450 | 2000 |
| | FxL | kgf·m | 45 | 110 | 110 | 110 |
| | FxL | kgf·m | 13 | 31 | 31 | 70 |
| Driving Torque | kgf·m | 9 *(3.7) | 29 *(14.6) | 29 *(14.6) | 61 *(19.5) | |
| Net Weight (servo motor excluded) | kg | 34 | 50 | 55 / 58 | 116 | |

★ *() Alloy Steel worm & gear series



FEATURE

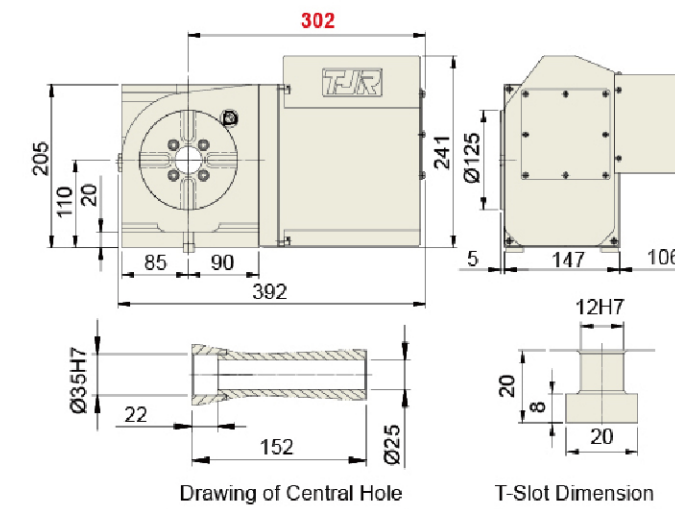


▲ AR(s)-125R Use radial & axial bearings

Dual-lead Alloy steel worm gear (Optional)

NEW Powerful Brake System

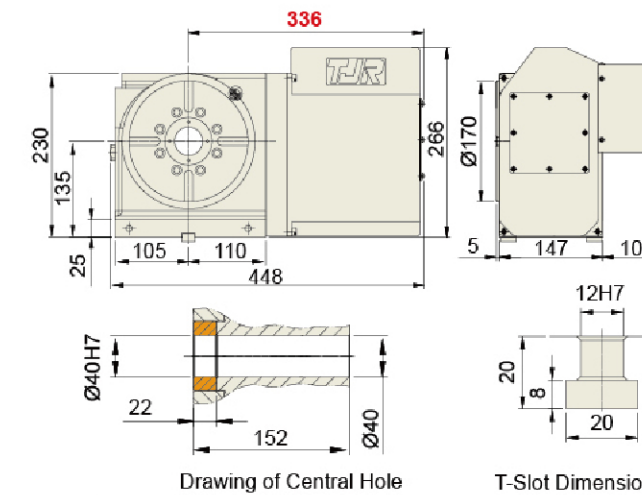
AR(s)-125R



NEW Powerful Brake System

AR(s)-170R

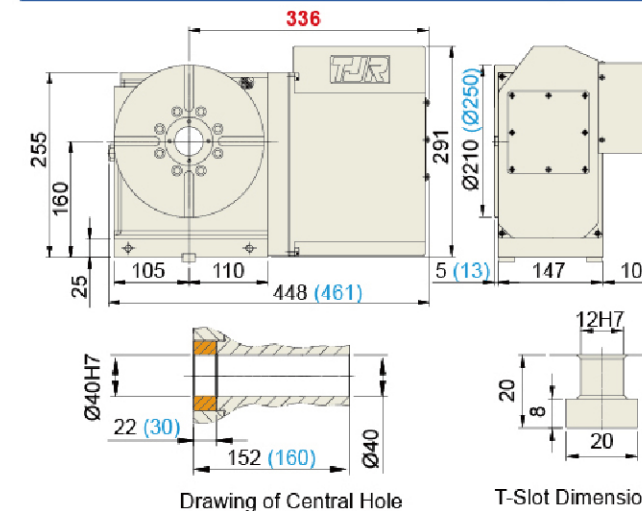
AR(s)-170HR (Hydraulic Brake)



NEW Powerful Brake System

AR(s)-210R/250R

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



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

AR(s)-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

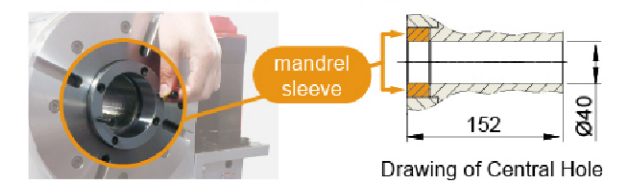
A: 2nd generation

H: Hydraulic Brake

Table Diameter

Alloy steel worm gear

Model code (refer to page 7 ~ 8)



NEW Powerful Brake System

AR(s)-255HR

