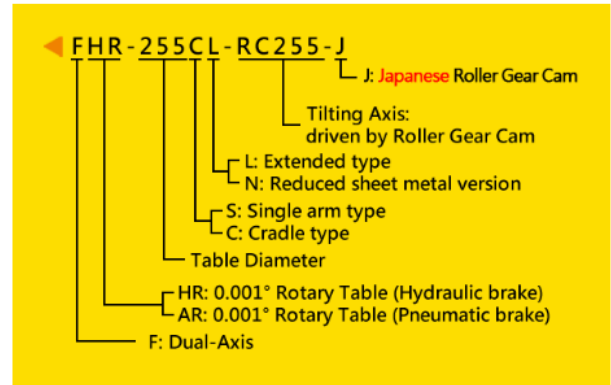


## FHR Series( Hydraulic Brake )

### The 4th & 5th Axis Direct Drive Motor Series

FHR-255C-RC255-J / FHR-255CL-RC255-J



| Item   |            | Unit               | FHR-255C-RC255   | FHR-255CL-RC255                               |
|--|------------|--------------------|------------------|---|
| Table Diameter   |            | mm                 | Ø 255            |   |
| Diameter of Table Central Hole                             |            | mm                 | Ø 110            |   |
| Inner Diameter of Mandrel Sleeve                           |            | mm                 | Ø 80H7           |   |
| Diameter of Center Through Hole                            |            | mm                 | Ø 80             |   |
| Table Height (Horizontal)                                  |            | mm                 | 290              |   |
| Table T-slot Width   |            | mm                 | 12H7             |   |
| Guide Block Width  |            | mm                 | 18h7             |   |
| Axis   |            | -                  | Rotary axis      | Tilt axis ±110°                               |
| Transmission Mechanism                                     |            | -                  | Worm & Worm Gear | Roller Gear Cam                               |
| Min. Increment   |            | deg.               | 0.001            | 0.001   |
| Indexing Precision   |            | sec.               | 15               | 50 (30, if ECN-225 angle encoder is employed) |
| Repeatability  |            | sec.               | 4                | 8   |
| Clamping System  |            | kg/cm <sup>2</sup> | 35               | 35  |
| Clamping Torque  |            | kg-m               | 70               | 140   |
| Servo Motor Model  | FANUC      | Taper / Straight   | α12is/β8is       | α12is /β12is                                  |
|  | MITSUBISHI | Straight           | HF-104           | HF-154  |
|  | SIEMENS    | Straight           | 1FK7063          | 1FK7063                                       |
|  | DELTA      | Straight           | ECMA-E11315RS    | ECMA-E11320RS                                 |
|  | YASKAWA    | Straight           | SGM7G-13A        | SGM7G-20A                                     |
| Speed Reduction Ratio                                      |            | -                  | 1 : 120          | 1 : 60  |
| Max. Rotation Rate of Table (Calculate with FANUC α Motor) |            | r.p.m              | 33.3             | 33.3  |

|  |               |            |      |     |
|--|---------------|------------|------|-----|
| Allowable Inertia Load Capacity (Horizontal) |               | kg.cm.sec. | 8.13 |     |
| Allowable Workpiece Load (dynamic)           | 0° Horizontal | kg         | 100  |     |
|  | 0°~90° Tilt   | kg         | 75   |     |
| Allowable Load (with clamping)               | F             | kgf        | 1500 |     |
|  | FxL           | kgf.m      | 140  |     |
|  | FxL           | kgf.m      | 70   |     |
| Strength of Roller Gear Cam                  |               | kg.m       | 45   |     |
| Net Weight                                   |               | kg         | 297  | 350 |