

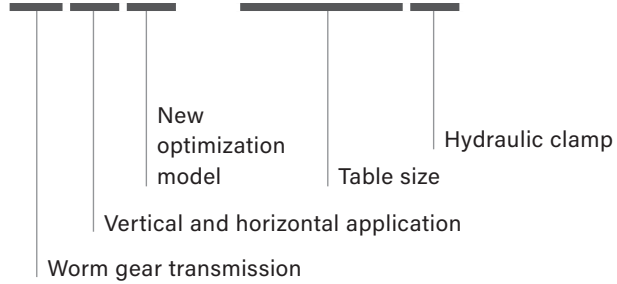
GXA-H series

CNC Rotary Table

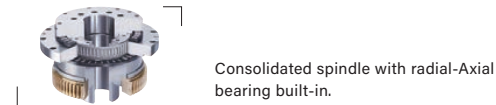
Ultra Big Spindle Bore, Hydraulic Clamp



G X A - 2 5 5 H



- Worktable diameter Ø255, Ø320, Ø400.
- Big spindle bore** allow the more complex parts clamping and fixture.
- Ultra high clamping force by **drum brake system.(P.19)**
- Consolidated spindle with radial-Axial bearing built-in. (P.18)**
- Full gear depth transmitted by dual lead worm drive, resulting in higher efficiency and lower backlash.(P.20)



SPECIFICATIONS

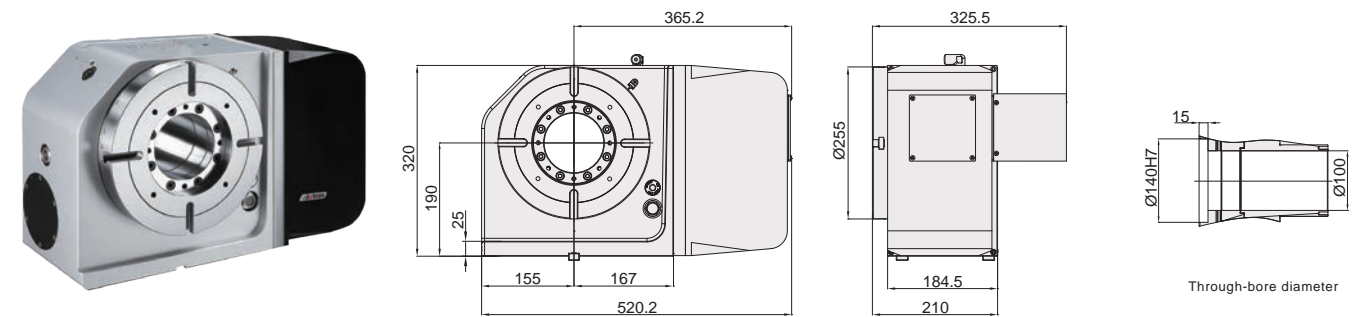
| MODEL | Unit | GXA-255H | GXA-320H | GXA-400H | |
|--|-------------------|----------------------|----------------------|----------------------|-----------------|
| Worktable diameter | mm / inch | Ø255 / Ø 10.04 | Ø320 / Ø 12.6 | Ø400 / Ø 15.75 | |
| Center bore diameter | mm / inch | Ø140H7 / Ø 5.51H7 | Ø180H7 / Ø 7.08H7 | Ø220H7 / Ø 8.66H7 | |
| Through-bore diameter | mm / inch | Ø100 / Ø 3.94 | Ø140 / Ø 5.51 | Ø180 / Ø 7.09 | |
| Height of table (horizontal) | mm / inch | 210 / 8.27 | 235 / 9.25 | 255 / 10.04 | |
| Height of center (vertical) | mm / inch | 190 / 7.48 | 210 / 8.27 | 255 / 10.04 | |
| Width of T-slot | mm / inch | 12H7 / 0.47H7 | 14H7 / 0.55H7 | 14H7 / 0.55H7 | |
| Width of guide block | mm / inch | 18 / 0.71 | 18 / 0.71 | 18 / 0.71 | |
| Clamping method /pressure | MPa / psi | Hydraulic 5 / 725 | Hydraulic 5 / 725 | Hydraulic 5 / 725 | |
| Clamping torque | Nm /ft. lbs. | 900 / 663.3 | 1600 / 1179.2 | 3000 / 2211 | |
| Servo motor spec | | refer to page 69 | | | |
| Transmission ratio | | 1 / 120 | 1 / 120 | 1 / 144 | |
| Max. table speed | min ⁻¹ | 22.2 | 22.2 | 11.1 | |
| Standard loading inertia * $(\frac{W \cdot D^2}{8})$ | Kg.m ² | 2.43 | 5.12 | 10.2 | |
| Maximum loading inertia * $(\frac{W \cdot D^2}{8})$ | Kg.m ² | 12 | 20 | 40 | |
| Resolution | deg. | 0.001 | 0.001 | 0.001 | |
| Indexing accuracy | sec. | 15 | 15 | 15 | |
| Repeatability | sec. | 6 | 6 | 6 | |
| Net weight (servo motor excluded) | kg / lb | 114 / 251 | 147 / 323.4 | 253 / 556.6 | |
| Allowable loading capacity | Vertical | kg / lb | 150 / 330 | 200 / 440 | 250 / 550 |
| | Horizontal | kg / lb | 300 / 660 | 400 / 880 | 500 / 1100 |
| | Tailstock applied | kg / lb | 300 / 660 | 400 / 880 | 500 / 1100 |
| Allowable load (when table clamped) | F | N / lbs | 20000 / 4488 | 28000 / 6283.2 | 38000 / 8527.20 |
| | FXL | Nm /ft. lbs. | 1700 / 1252.9 | 3000 / 2211 | 5400 / 3979.8 |
| | FXL | Nm /ft. lbs. | 900 / 663.3 | 1600 / 1179.2 | 3000 / 2211 |
| Allowable cutting torque | Nm /ft. lbs. | 550 / 405.35 | 780 / 574.86 | 1700 / 1252.9 | |
| Allowable Max. rotary joint quantity | | 6 | 6 | 6 | |

Note: 1. Allowable cutting torque at table speed of 1 min⁻¹.
2. Standard loading inertia * is allowed in max table speed. Contact detron for the necessary adjustment of speed and others when maximum loading inertia * is required.

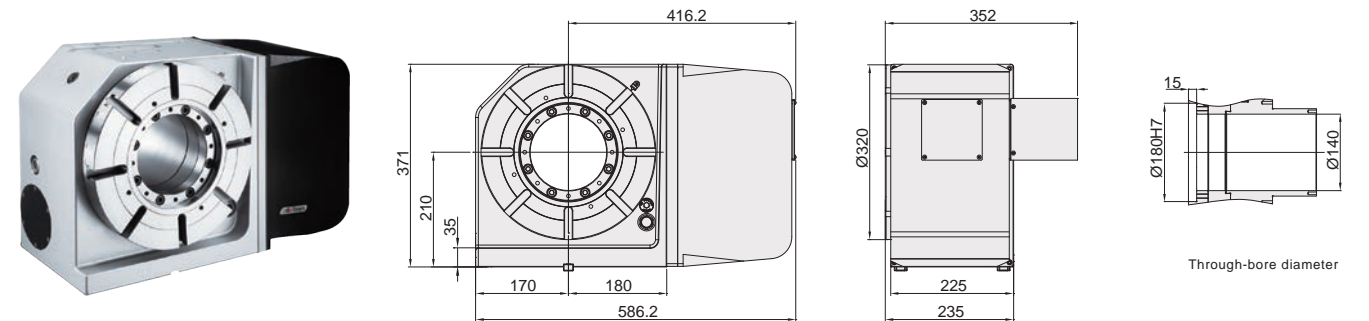
DIMENSIONAL DRAWINGS

Unit : mm

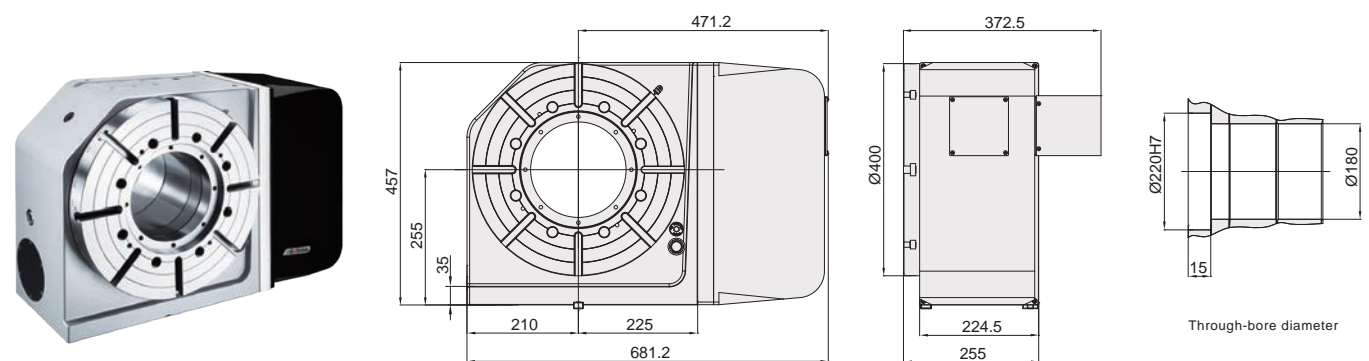
GXA-255H



GXA-320H



GXA-400H



Note: The length of servo guard may vary with servo motor type.
(metal sheet dimensions shown above are based on Fanuc motor)