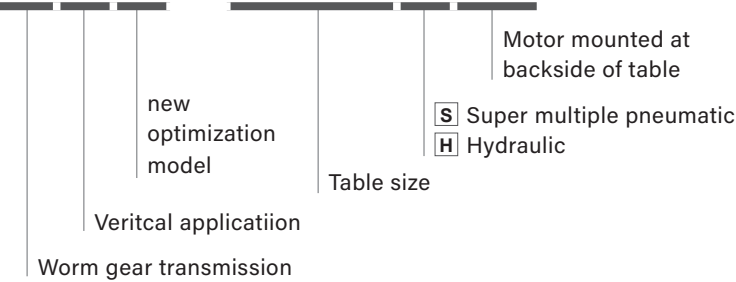


GVA-B series

CNC Rotary Table

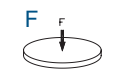
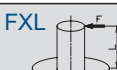
High - Power Clamp, Motor at Back

GVA - 210SB



Worktable diameter Ø170, Ø210, Ø255.  
GVA-SB series is new "super multiple brake" mechanism for pneumatic clamp.(P.19)  
Full gear depth transmitted by dual lead worm drive, resulting in higher efficiency and lower backlash.(P.20)

SPECIFICATIONS

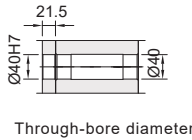
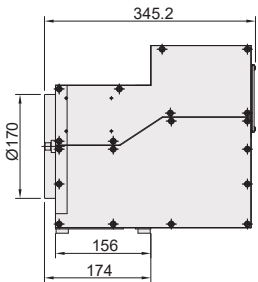
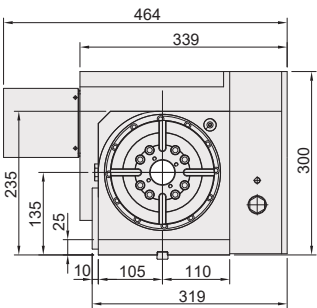
| MODEL                                             | Unit                                                                                               | GV-170SB                                            | GVA-210SB                                           | GVA-255HBII          |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|----------------------|
| Worktable diameter                                | mm / inch                                                                                          | Ø170 / Ø6.69                                        | Ø210 / Ø 8.27                                       | Ø255 / Ø10.04        |
| Center bore diameter                              | mm / inch                                                                                          | Ø40H7 / Ø1.57H7                                     | Ø65H7 / Ø2.6H7                                      | Ø140H7 / Ø 5.51H7    |
| Height of center (vertical)                       | mm / inch                                                                                          | 135 / 5.31                                          | 160 / 6.30                                          | 190 / 7.48           |
| Width of T-slot                                   | mm / inch                                                                                          | 12H7 / 0.47H7                                       | 12H7 / 0.47H7                                       | 12H7 / 0.47H7        |
| Width of guide block                              | mm / inch                                                                                          | 18 / 0.71                                           | 18 / 0.71                                           | 18 / 0.71            |
| Clamping method / pressure                        | Mpa / psi                                                                                          | Super Multi- Pneumatic<br>0.55 ~ 0.7 / 79.8 ~ 101.5 | Super Multi- Pneumatic<br>0.55 ~ 0.7 / 79.8 ~ 101.5 | Hydraulic<br>5 / 725 |
| Clamping torque                                   | N.m / ft. lbs.                                                                                     | 250 / 184.25                                        | 400 / 294.8                                         | 900 / 663.3          |
| Servo motor spec                                  |                                                                                                    | refer to page 73                                    |                                                     |                      |
| Transmission ratio                                |                                                                                                    | 1 / 90                                              | 1 / 90                                              | 1 / 120              |
| Max. table speed / at specified servo motor speed | min <sup>-1</sup>                                                                                  | 44.4 / 4000                                         | 44.4 / 4000                                         | 22.2 / 2664          |
| Allowable loading inertia                         | $\frac{W.D^2}{8}$ kg.m <sup>2</sup>                                                                | 0.28                                                | 0.68                                                | 1.21                 |
| Resolution                                        | deg.                                                                                               | 0.001                                               | 0.001                                               | 0.001                |
| Indexing accuracy                                 | sec.                                                                                               | 20                                                  | 20                                                  | 15                   |
| Repeatability                                     | sec.                                                                                               | 6                                                   | 6                                                   | 6                    |
| Net weight (servo motor excluded)                 | kg / lb                                                                                            | 90 / 198                                            | 84 / 184.8                                          | 149 / 328            |
| Allowable loading capacity                        | Vertical                                                                                           | kg / lb                                             | 75 / 165                                            | 125 / 275            |
|                                                   | Rotary Tailstock applied                                                                           | kg / lb                                             | 150 / 330                                           | 250 / 550            |
| FxL<br>When table clamped                         |  N / lbs        | 14000 / 3141.60                                     | 17000 / 3814.8                                      | 20000 / 4488         |
|                                                   |  N.m / ft. lbs. | 1020 / 751.74                                       | 1265 / 932.3                                        | 1700 / 1253.0        |
|                                                   |  N.m / ft. lbs. | 250 / 184.25                                        | 400 / 294.80                                        | 900 / 663.3          |
| Allowable cutting torque                          |  N.m / ft. lbs. | 170 / 125.29                                        | 260 / 191.62                                        | 550 / 405.35         |

Note: 1. Allowable cutting torque at table speed of 1 min<sup>-1</sup>.  
2. FxL When table clamped is a reference data, the users should consider proper safety factor or contact detron for details.

DIMENSIONAL DRAWINGS

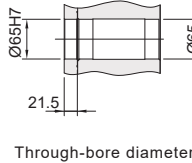
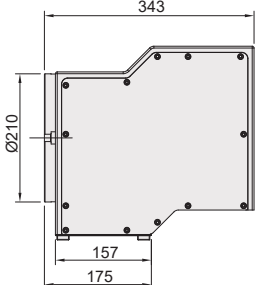
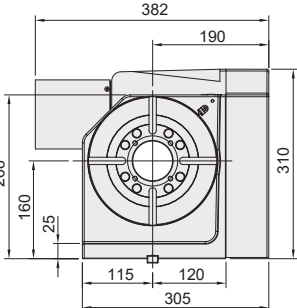
Unit : mm

GV-170SB



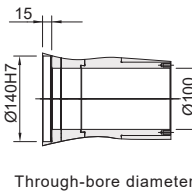
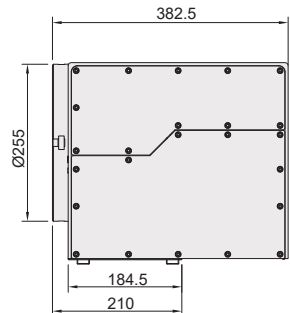
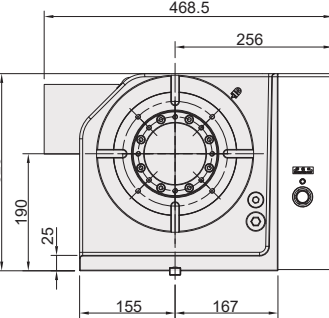
Equipped with upgraded high precision cross roller bearing.

GVA-210SB



Equipped with upgraded high precision cross roller bearing.

GVA-255HBII



Consolidated spindle with YRT bearing built-in.

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