

# GSA+

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# CNC Rotary Table



CNC

CNCB

CNCT / CNCMT

NCF

Tailstock

Large Size Table

GCT

PT

APCR / APCI

Controller

Coupling

Accessories



⊙ A combination of high precision bronze / nickel worm wheel and case hardened steel worm screw ensures long term indexing accuracy.

⊙ Dual lead worm wheel/worm shaft which allowable easy backlash adjustmen.

⊙ Double bearing design suitable for heavy cutting.

⊙ One piece of faceplate and spindle design which offer rigid construction.

⊙ Low Gear ratio design (90:1) which offer high speed feed rate.

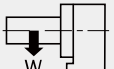
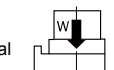
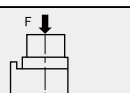
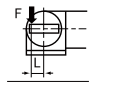
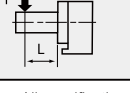
⊙ **Large thru hole design** which allowable large work piece going thru spindle.

MODEL NO : **CNC-320 R/L**

● Motor position at right-side or left-side

● Table Dia

● Type of CNC Rotary Table

| ITEM / MODEL                                                |                                                                                                | CNC-120R                                        | CNC-170R                              | CNC-200R                              | CNC-250R                              | CNC-320R                               |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|----------------------------------------|
| Table Dia (mm/inch)                                         |                                                                                                | 120 / 4.72                                      | 170 / 6.69                            | 200 / 7.87                            | 250 / 9.84                            | 320 / 12.60                            |
| Center Height in Vertical (mm / inch)                       |                                                                                                | 115 / 4.53                                      | 135 / 5.31                            | 160 / 6.3                             | 185 / 7.28                            | 210 / 8.27                             |
| Table Height in Horizontal (mm / inch)                      |                                                                                                | 170 / 6.69                                      | 165 / 6.5                             | 165 / 6.5                             | 200 / 7.87                            | 240 / 9.45                             |
| Over all Height in Vertical Without Motor Cover (mm / inch) |                                                                                                | 193 / 7.60                                      | 240 / 9.45                            | 265 / 10.63                           | 315 / 12.4                            | 380 / 14.96                            |
| Thru-Hole Dia (mm / inch)                                   |                                                                                                | 30 <sup>H7</sup> / 1.18 <sup>H7</sup>           | 35 <sup>H7</sup> / 1.37 <sup>H7</sup> | 35 <sup>H7</sup> / 1.37 <sup>H7</sup> | 70 <sup>H7</sup> / 2.75 <sup>H7</sup> | 110 <sup>H7</sup> / 4.33 <sup>H7</sup> |
| Width of T-slot (mm / inch)                                 |                                                                                                | 10 <sup>H7</sup> / 0.39 <sup>H7</sup>           | 12 <sup>H7</sup> / 0.47 <sup>H7</sup> | 12 <sup>H7</sup> / 0.47 <sup>H7</sup> | 12 <sup>H7</sup> / 0.47 <sup>H7</sup> | 14 <sup>H7</sup> / 0.55 <sup>H7</sup>  |
| Width of Guide Block (mm / inch)                            |                                                                                                | 14 <sup>H7</sup> / 0.55 <sup>H7</sup>           | 18 <sup>H7</sup> / 0.71 <sup>H7</sup> | 18 <sup>H7</sup> / 0.71 <sup>H7</sup> | 18 <sup>H7</sup> / 0.71 <sup>H7</sup> | 18 <sup>H7</sup> / 0.71 <sup>H7</sup>  |
| Servo motor type                                            | MELDAS                                                                                         | HF-75T                                          | HF-104T                               | HF-104T                               | HF-104T / HF-154T                     | HF-204S                                |
|                                                             | FANUC                                                                                          | α2 i                                            | α4 i                                  | α4 i                                  | α4 i / α8 i                           | α12 i                                  |
|                                                             | SIEMENS                                                                                        | 1FK7042                                         | 1FK7060                               | 1FK7060                               | 1FK7060 / 1FK7063                     | 1FK7083                                |
|                                                             | HEIDENHAIN                                                                                     | QSY96G                                          | QSY116C                               | QSY116C                               | QSY116C / QSY116E                     | QSY155B / QSY155C                      |
| Gear Ratio                                                  |                                                                                                | 1:60                                            | 1:90                                  | 1:90                                  | 1:180/1:90                            | 1:180/1:90                             |
| Min. Indexing Unit degree (degree)                          |                                                                                                | 0.001°                                          | 0.001°                                | 0.001°                                | 0.001°                                | 0.001°                                 |
| Max. R.P.M. (rpm) (motor : 2000 / rpm)                      |                                                                                                | 33.3                                            | 22.2                                  | 22.2                                  | 11.1/22.2                             | 11.1/22.2                              |
| Pneu. clamp force (kg•m) (P:5kg / cm <sup>2</sup> )         |                                                                                                | 12                                              | 25                                    | 25                                    | 47                                    | 71                                     |
| Hydro. clamp force (kg•m) (P:20kg / cm <sup>2</sup> )       |                                                                                                | 24                                              | 50                                    | 50                                    | 94                                    | 142                                    |
| Indexing Accuracy Class (sec.)                              |                                                                                                | 30"                                             | 20"                                   | 20"                                   | 15"                                   | 15"                                    |
|                                                             |                                                                                                | High Accuracy Rotary Table Refer to P59 chart 2 |                                       |                                       |                                       |                                        |
| Repeatability (sec.)                                        | Unidirectional                                                                                 | 4"                                              | 4"                                    | 4"                                    | 4"                                    | 4"                                     |
|                                                             | Bidirectional                                                                                  | 8"                                              | 8"                                    | 8"                                    | 8"                                    | 8"                                     |
| Max. Machining Force (kg•m)                                 |                                                                                                | 12                                              | 23                                    | 23                                    | 45                                    | 78                                     |
| N.W. (kgs)                                                  |                                                                                                | 28                                              | 70                                    | 84                                    | 124                                   | 210                                    |
| Max. Load                                                   | Vertical    | W=35 kg                                         | W=100 kg                              | W=125 kg                              | W=150 kg                              | W=175 kg                               |
|                                                             | Horizontal  | W=75 kg                                         | W=200 kg                              | W=250 kg                              | W=300 kg                              | W=350 kg                               |
| Max. Radial Load                                            |             | F=800 kg                                        | F=1000 kg                             | F=1100 kg                             | F=1450 kg                             | F=2500 kg                              |
|                                                             |             | FxL=8 kg•m                                      | FxL=50 kg•m                           | FxL=50 kg•m                           | FxL=94 kg•m                           | FxL=142 kg•m                           |
|                                                             |             | FxL=18 kg•m                                     | FxL=78 kg•m                           | FxL=100 kg•m                          | FxL=180 kg•m                          | FxL=200 kg•m                           |

※ GSA remains the right of modification. All specifications can be modified according to customers' requirement.

● Up & backside cable outlet is available, slant motor cover also available

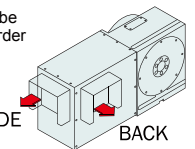
● Standard accessory : eye bolts, clamping blocks

⊙ Adapting Tailstock → Refer to P : 34-36

⊙ To match AC-/DC-/Stepping-Controller→ Refer to P : 53-55

⊙ Optional accessories→ Refer to P : 58

● Outlet of wire box could be decided by customers order



CNC-120R, 170R, 200R, 250R, 320R CNC Rotary Table

CNC-120R

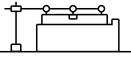
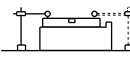
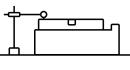
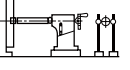
CNC-170R

CNC-200R

CNC-250R

CNC-320R

NOTE : Difference motor becomes difference length of motor cover

| Accuracy Standards |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       | Unit:mm                                                                               |
|--------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| ITEM               | Table top flatness                                                                    | Parallelism of table top and frame bottom                                             | Runout of table spindle center                                                        | Perpendicularity of table top to frame bottom                                         | Table top runout                                                                      | Perpendicularity of table top to frame bottom guide block                             | Parallelism of center line between headstock & tailstock to frame bottom guide block  |
|                    |  |  |  |  |  |  |  |
| MODEL              |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
| CNC-120R           | 0.01                                                                                  | 0.01                                                                                  | 0.015                                                                                 | 0.012                                                                                 | 0.01                                                                                  | 0.02                                                                                  | 0.02                                                                                  |
| CNC-170R           | 0.01                                                                                  | 0.01                                                                                  | 0.01                                                                                  | 0.02                                                                                  | 0.015                                                                                 | 0.02                                                                                  | 0.02                                                                                  |
| CNC-200R           | 0.01                                                                                  | 0.01                                                                                  | 0.01                                                                                  | 0.02                                                                                  | 0.015                                                                                 | 0.02                                                                                  | 0.02                                                                                  |
| CNC-250R           | 0.01                                                                                  | 0.01                                                                                  | 0.01                                                                                  | 0.02                                                                                  | 0.015                                                                                 | 0.02                                                                                  | 0.02                                                                                  |
| CNC-320R           | 0.01                                                                                  | 0.01                                                                                  | 0.01                                                                                  | 0.02                                                                                  | 0.015                                                                                 | 0.02                                                                                  | 0.02                                                                                  |

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