

# Turn Master GF 165



## Technical Specifications

### Capacity

|                       |        |
|-----------------------|--------|
| Swing over bed        | ø400mm |
| Std. Turning Diameter | ø165mm |
| Max. Turning Diameter | ø200mm |
| Dist. Between Centre  | 550mm  |
| Max. Turning length   | 300mm  |

### Main Spindle

|                    |            |
|--------------------|------------|
| Spindle Motor      | 5 HP       |
| Spindle Bore       | ø38mm      |
| Spindle Nose       | A 2 - 5    |
| Chuck Size         | ø165mm     |
| Spindle rpm (Max.) | 50-3000rpm |

### Slides

|                              |          |
|------------------------------|----------|
| Cross (X axis) Travel        | 140mm    |
| Longitudinal (Z axis) Travel | 400 mm   |
| Rapid Feed (X & Z axis)      | 24 M/min |

### Tail Stock

|                |        |
|----------------|--------|
| Quill Diameter | 80mm   |
| Quill Stroke   | 120 mm |

### Ball Screw

|                       |           |
|-----------------------|-----------|
| Z axis                | ø32 x 10P |
| Motor Torque (Z axis) | 6 Nm      |
| X axis                | ø25 x 5P  |
| Motor Torque (X axis) | 4 Nm      |

### Turret

|                          |            |
|--------------------------|------------|
| No. of Stations          | 8          |
| Tool Size                | 20 x 20 mm |
| Max. Boring Bar Capacity | ø32mm      |

### Accuracy

|                      |         |
|----------------------|---------|
| Positioning Accuracy | ± 0.008 |
| Repeatability        | ± 0.008 |

### Coolant

|                |                     |
|----------------|---------------------|
| Motor Power    | 0.18 KW             |
| Capacity       | 63 LPM              |
| Control System | <b>Siemens 808D</b> |

### Other Data

|                    |                                     |
|--------------------|-------------------------------------|
| Weight (Approx.)   | 2800 kg                             |
| Machine Dimensions | 2425 x 1458 x 1548                  |
| Power Requirement  | 415Vac +/-10%,<br>3Phase,50Hz,9.9kw |

### Standard Features:

- AC spindle drive and AC servo drive.
- Linear motion guide ways.
- Hydraulic chuck with actuating solid cylinder.
- 8 stations bi-directional turret.
- Hydraulic unit, Foot switch, coolant system.
- Boring tool holder, axial tool holder
- Centralized Automatic lubrication system
- Electrical quality devices and panel.
- Hydraulic tailstock with MT 4 taper.
- Alarm Light Indicator
- Anti-Vibration pad
- Tool Kit

### Optional Features

- Chuck Size 200mm 3jaw with back plate
- Chuck Size 200mm 4jaw with back plate
- Panel AC