

## Air-Bearing Rotary Stage



### Features

- High-load and precision air-bearing design
- High repeatability and positioning accuracy
- High level of machining technology
- Customized requirements accepted

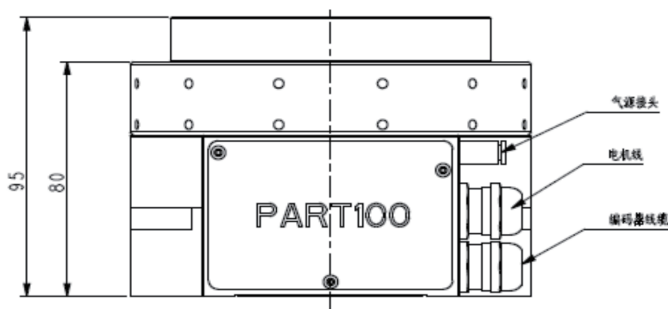
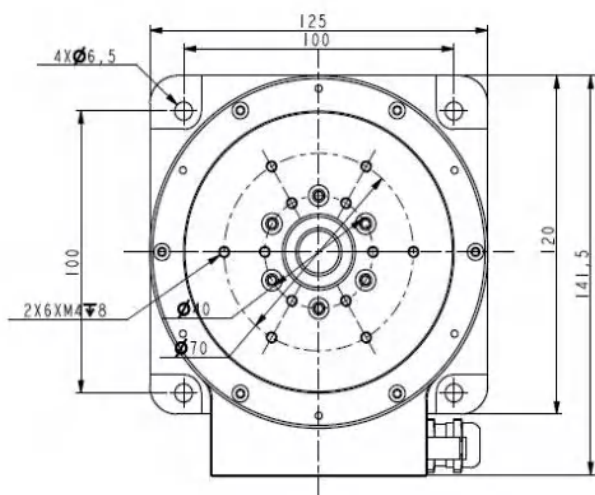
### Description

The stage provides ultra-smooth motion, arc-second accuracy and repeatability; the lightweight design makes the product lighter for easier integration.

### Applications

- Semiconductor equipment and laser field

### Interface Definition



\*Interface dimensions from PART100

## Technical Specifications

| PART100                          |                        |
|----------------------------------|------------------------|
| Tabletop diameter                | 100 mm                 |
| Height                           | 95 mm                  |
| Hollow aperture                  | 25 mm                  |
| Max. velocity                    | 600 rpm@48V            |
| Peak torque                      | 3.9 N·m                |
| Continuous torque                | 3.2 N·m                |
| Accuracy                         | ±1.5 arcsec            |
| Bidirectional repeatability      | ±1 arcsec              |
| Max. load_Axial                  | 53 Kg                  |
| Max. load_Radial                 | 17 Kg                  |
| Axial error motion (Synchronous) | <100 nm                |
| Radial error motion(Synchronous) | <200 nm                |
| Tilt error motion (Synchronous)  | <2.5 μrad (0.5 arcsec) |
| Operating pressure               | 0.5 Mpa                |
| Air consumption                  | <25 L/min              |
| Total mass                       | 4 Kg                   |

\*Rotation velocity 60rpm based on the standard GBT+17421.7-2016(ISO230-7-2006)and GB/T17421.22000 as well as the temperature (22°±0.5°C).