# 3D Intelligent Measuring Work Station

## Description

- Velocity-5-10 times faster than CMM, robot arm and scanner
- User friendly - No professional robot programmers are required, the Smart 3D software with universal interface is available
- Shock absorption design: fast and movable deployment in workshops
- High precision- up to 0.03mm
- Value- highest productivity and lowest cost achieved against other automated measuring systems
- Standardization - easy to use and replaceable module
- Security - Co-bots to avoid accidents
- Mixed measurement-Smart3D supports the combination of 2D visual, 3D scan and measuring devices
- Bilateral control - logical Input and output in compliance with industry standard, applicable for PLC,SCADA,HMI, Interlock and other systems



| 3D Intelligent Measuring Work Station | |
|---|---|
| Art. No. | 110-0001 |
| Model | Smart3D Measurement Station |
| 3D Scanner functionality | 3D line laser/ 3D structured light/ hand-held scanner |
| Robot | T |
| Robot working radius | 0.88m(customizable) |
| Robot workload | 5Kg(customizable) |
| additional shaft support ( e.g. rotator, guide) | Yes |
| Cooperative option | Yes |
| Typical component dimension | Medium |

# 3D Scanner



## Description

| Art.No. | 112-TE5002 | 112-TE5004 | 112-TE5006 | 112-TE5008 | 112-TE50-DZ |
|---|---|---|---|---|---|
| Scan speed | 265,000 times/second | 350,000 times/second | 480,000 times/second | 1,360,000 times/second | 350,000 times/second ~ 1,360,000 times/second |
| Scanning area | 320x250 mm | 320x250 mm | 320x250 mm | 320x250 mm | 600x550 mm |
| Light source | Red/blue (6 beam crossed laser lines + 1 laser line beam) | Red/blue (10 beam crossed laser lines + 1 laser line beam) | Red/blue (14 beam crossed laser lines + 1 laser line beam) | Red/blue (22 beam crossed laser lines + 1 laser line beam) | Red/blue (Multiple crossed laser lines can be customized) |
| Laser class | Class II | | | | |
| Resolution | 0.1 mm | 0.05mm | 0.05mm | 0.05mm | 0.05mm |
| Wireless computing unit | Support | | | | |
| Photogrammetry | Built-in | | | | |
| Circular hole quick measurement | Support | | | | |
| Accuracy | Max 0.02 mm | | | | |
| Volumertric accuracy | 0.02 mm+0.05mm/m | 0.02 mm+0.05mm/m | 0.02 mm+0.03mm/m | 0.02 mm+0.025mm/m | 0.02 mm+0.03mm/m |
| Coordmeasis | 0.02 mm+0.025mm/m | 0.02 mm+0.025mm/m | 0.02 mm+0.015mm/m | 0.02 mm+0.015mm/m | 0.02 mm+0.02mm/m |
| Stand off | 350 mm | | | | 550 mm |
| Depth of field | 250 mm | | | | 350 mm |
| Compatible software | Geomagic solutions, Polyworks, CATIA V5, Solidworks, PRO/E, Inventor, Alias, 3ds Max, Maya, NX, Solid Edge | | | | |
| Connection standard | USB3.0/ Wifi | | | | |
| Operation temperature | -20 ~ 40°C | | | | |
| Operation humidity | 10% ~ 90%RH | | | | |