Universal
Metrology Automation

Non-Contact 3D Inspection

3D Infotech’s Metrology Automation Systems allow you to easily teach measurement and inspection routines. Once a program is created, an operator can simply place a part in the measuring area and run the program. The robot or motion control system scans the part and compares it to CAD to generate dimensional analysis reports.

The analysis can include:

- Deviation color maps
- Geometric dimensioning and tolerance (GD&T)
- Statistical process control.

High-end mathematical algorithms are used to process large amounts of data generated by our automated 3D scanning system. The quality reports can be utilized across the enterprise with suppliers, customers and internal departments.

Powered by Steamline

Hardware independent software platform for metrology automation by 3D Infotech. Fully integrated with PolyWorks®.

Automated Inspection Workbench

- Self contained
- Small footprint
- Easy to move around the factory
- Touchscreen interface
- E-Stop for emergency
- Rotary table
- Universal motion control system
- High precision encoders

Inspection Templates

Create inspection templates and measurement programs at your desk while your automated metrology system inspects parts.
Motion Control

High Level Workflows

3D Infotech configures inspection routines for the required parts. The operator will control the system using an on/off switch, an emergency stop mechanism is available for safety.

When powered on, the system waits for a part to be positioned on the rotary table. The operator selects the part to be measured and enters a serial number. Simply pressing the green scan button will initiate the inspection routine. Once the system has completed its tasks, the software will perform the necessary calculations, archive part quality data, and display the appropriate quality report.

Any operator or manager is able to drill down into a detailed metrology report as needed.

Enterprise Database Integration

Monitor your factory production processes by visualizing key statistical data on your desktop. Realtime dashboard can be created to integrate shop floor data into existing PLM and ERP systems.

Dedicated Controller

Our systems are controlled using 3D Infotech’s proprietary controller, custom motherboard and software. Universally adaptable to the latest sensing technologies, our solutions are perfectly paired with the FARO Cobalt Imager for high-speed, high accuracy and high resolution data capture of complex parts.

No Photogrammetric Targets Required

Photogrammetric targets can help when manually scanning, but for full automation, we have integrated the kinematic chain of the robot, turn-table and FARO Imager to allow all the system to function without the need for photogrammetric targets. Eliminating the time and effort needed to place targets will allow your operators to focus on manufacturing throughput and addressing challenges, through SPC analysis, on the production floor before they occur.

3D Infotech, Inc.

1 Corporate Park, Suite 101, Irvine, CA 92606, USA

Ph. (949) 988-0200   Fax. (949) 417-2657

info@3dinfotech.com

www.3dinfotech.com