

Requirements for one (1) ATOS Q 12M scanner, including shipping, rigging, installation, and training

one (1) GOM ATOS Q 12M measurement systems with a 7820 workstation or Equal. The sensor shall have one measuring volume of 500mm x 320mm and include the following features:

A. System: Feature blue light equalizers and triple scan principles operating with two 12-mega pixel measuring cameras providing 12-million PPS (points per scan) packed in a durable travel case. Each high-quality optical camera shall work independently capturing accurate 3D scans from left, right, and both cameras with high-resolution feature detail. Each scan shall be automatically aligned within the software.

B. Workstation: Complete Industrial Dell 7820 Workstation Controller with 24" TFT monitor: 64 Bit Intel Xeon 2 x 3.0 GHz 12-Core CPU, 128 GB RAM, NVIDIA Quadro P4000 8GB OpenGL, 1 TB SSD hard disk HDD, External USB system backup hard disk for incremental backups, keyboard, mouse, Windows 10 (64 bit) operating system.

C. Software: ATOS Q sensor driver with GOM Inspect Pro line. The software offers complete rapid 3D scanning, mesh editing, and parametric inspection. Other features include industry specific inspection features, creating measurement plans, templates, teaching by doing, trend analysis, GD&T, online tracking, reverse projection, and more.

D. Accessories: 10M cable, set of tools, uncoded targets, ATOS user manual, and certification of accuracy according to VDI/VDE 2634 Part 3. One-year all-inclusive hardware and software support. Installation with 3 days of onsite training by an Engineer.

Calibration Panels: The system shall come with a 270 mm x 200mm measuring volume calibration panel and a 170mm x 130mm measuring volume calibration panel.

ScanBox: The system shall come with a ScanBox 4105, an automated solution for small parts that combines accuracy and repeatability for increased throughput. It shall have the following:

- A. Industrial robotic solution that integrates with an ATOS Core or Capsule or Q.
- B. Engineered to scan parts with a max diameter of 500mm and max height of 500mm
- C. Combined Robot/Rotation table module with robot and controller, additional driver with motor for 7th axis
- D. Sensor adapter, D300 rotation table
- E. Encapsulated housing with integrated workstation
- F. Hardware and software for robot safety and communication
- G. Documentation of the mechanical and electrical components, operating manual, and maintenance manual
- H. VMR (Virtual Measurement Room) Software license
- I. Delivery, installation, and two (2) days of start up support and initial operation of ATOS ScanBox 4105 by a technician.
- J. One year of hardware and software support
- K. ScanBox dimensions: 1.6M width x 1.2M depth x 2.1M height.
- L. The holding device for the ScanBox shall be removed.

Software: The system shall include a single seat of GOM Inspect Professional VMR software with one year of software support with updates. It shall have the following features:

- A. Creation and processing of polygon meshes
- B. Element construction
- C. Alignment
- D. Inspection
- E. Stage management with timeline
- F. Digital assembly
- G. Report module
- H. Workflow automation with GOM's parametric concept
- I. Software module VMR - Virtual Measuring Room for automation

Power Kiosk Package: Shall be a Human Machine Interface (HMI) which provides graphicsbased visualization for simplified interaction with Automated ATOS Inspection Systems. Kiosk shall automatically handle the complete measurement and inspection workflow providing easyto-use shop floor operation eliminating the need for users to access Windows. Kiosk shall be easily job-task programmable for different departmental roles and can be configured for touchscreen operation. Shall include a touch panel and Power KIOSK Mode Consulting with the following features:

- A. Consulting and programming with a Capture 3D Automation Specialist
- B. Provides programming for basic customization including custom project keywords for report pages and additional export formats, standard menu option exports (PDF and .ginspect are standard).
- C. Bar Code Scanner - project templates automatically open
- D. Provides comprehensive customization and automation of an entire measurement process, including mimicking a legacy workflow.
- E. Topics included are:
 - 1. Custom export options. Previously created scripts integrated into Kiosk Interface.
 - 2. Communication with peripheral Ethernet based devices (printers, scales, network drives)
 - 3. RFID system integration (RFID device is not included)
 - 4. Approved user login IDs
 - 5. Instructions for loading parts
 - 6. Part images
 - 7. Web page for measured parts (results from post processed parts)
 - 8. Setup script (ensures a project template is ready to run in the Kiosk environment)

Location: WATERVLIET , NY 12189-4000