

## FaroArm

The world's most innovative portable measurement solution

The FARO ScanArm combines all of the advantages of the FaroArm with a hand held laser scanner and is the perfect contact/non-contact measurement system. Unlike other scanning systems, the ScanArm's hard probe and the Laser Line Probe can digitize interchangeably without having to remove either component. Users can accurately measure prismatic features with the hard probe, then laser scan sections requiring larger volumes of data — all in one simple tool.

Non-contact measurement devices are becoming more and more popular. Handheld laser scanners provide a quick and effective way to inspect and reverse engineer complex parts and surfaces. They turn everyday objects into digital computer models. Soft, deformable, and complex shapes can be easily inspected – all without ever coming in contact with the part.

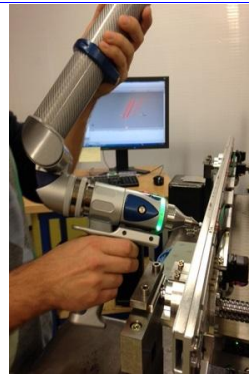
The FARO ScanArm is the ideal tool for inspection, point cloud-to-CAD comparison, rapid prototyping, reverse engineering, and 3D modeling

The FARO Edge ScanArm ES features Enhanced Scanning Technology. Now, materials with challenging optical qualities can be scanned with less effort, allowing the user to scan jobs in less time. Moreover improved software algorithms allow the scanning of materials with high contrasting colors at the same time. The Edge ScanArm ES is the world's smallest, lightest, and most affordable solution that combines the convenience of a FaroArm® with the power of a Laser Line Probe to form the perfect contact/non-contact portable measurement system.

The ScanArm is the ideal tool for product development, inspection, and quality control and offers capabilities such as point cloud comparison with CAD, rapid prototyping, reverse engineering, and 3D modeling of free-from surfaces.

Accuracy  $\pm 35\mu$  ( $\pm .0014$  in.)

Scan rate up to 45,120 points/sec



## FARO CAM2 Measure 10 Software

Engineered for maximum efficiency in computer-aided measurement and 3D inspection, FARO's CAM2 Measure 10 offers you the flexibility to measure the way your process or job requires. The software is ideal for CAD and non-CAD inspection and Geometric Dimensioning and Tolerancing (GD&T). CAM2 Measure 10 features image-guided measurement, automatic nominal association to various features, QuickTools and an elegant and intuitive user interface. Moreover, the software is delivered with a reliable CAD import tool which increases the ability to load a large amount of CAD data.

## ROMER Absolute Arms from Hexagon Metrology

The ROMER measuring arms provide maximum mobility in industrial metrology. Mobility, stability, low weight and high performance make these measuring arms an all-purpose 3D measuring system for increasing productivity and minimalisation of rejection by early inspection.

7 Basis models are available, with measuring range from 1.5 until 4.5 meter and with an accuracy from  $\pm 0.023$  mm. Measurements can be performed by probe, probe scanning and/or non-contact with an integrated laserscanner.

The measuring arms are constructed with a stable, double-walled carbonfiber tube construction and have a fully absolute measuring system, which makes initialisation unnecessary.

Automatic probe recognition during exchange of the probe, without the necessity of probe re-calibration. The mobility of the ROMER portable measuring arms enables excellent measuring on location for example measuring in a machining center. Applications are for example measuring of machine-constructions, general alignment and frame, sheet and tube parts and assemblies.

- Measuring range: 0 - 4.5 m.
- Volumetric accuracy:  
Probe measurements: from  $\pm 0.023$  mm (including probe accuracy).  
Laser measurements: from  $\pm 0.053$  mm (including laser accuracy).
- Weight: from 7.1 kg.
- Absolute measuring system with infinite arm rotation.

- Integrated Zero-G counterbalance for effortless control.
- 6-Axes measuring system (7-axes in combination with probe- or laserscanning measuring).
- Stable positioning with the mounting plate (optional with magnet foot; standard supplied with the high accuracy models) and double-walled carbonfiber tube construction.
- SmartLock to fix the arm in any intermediate position.
- Automatic probe recognition (also the laser).
- Available or expandable with integrated or external laser scanner.
- Expandable with Feature Packs (standard supplied with the high accuracy models).  
Mobility Pack: battery and WiFi communication for wireless control, measuring and data processing.  
Scanning Pack for laser scanning.
- Various software packages available for several applications.
- CAD im- and export and CAD comparison.
- Both probing and scanning systems are certified according to B89, VDI/VDE certification available.



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