

NEW

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CREAFORM

AMETEK[®]
ULTRA PRECISION TECHNOLOGIES



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Portable optical CMM



reddot award 2016
best of the best

Optical CMM 3D scanner



The **HandyPROBE Next™ portable optical CMM** provides measurement accuracy that is insensitive to the instabilities of any environment. Free of any rigid measurement setup, the part, optical tracker and wireless probe can all be moved at any time during the measurement sequence. Specifically designed for use on the shop floor, the system offers unmatched flexibility and a wider measurement volume than other portable CMMs.

Free of any rigid measurement setup, the **MetraSCAN 3D™ optical CMM scanner** provides shop floor measurement accuracy that is insensitive to the instabilities of the environment. With its extendable measurement volume, incredible speed and impressive data acquisition proficiency with challenging materials, it represents the most complete metrology-grade 3D scanner on the market and a practical alternative to traditional portable CMMs.



Multi-function buttons for easier interaction with the software

Sturdy design for shop floor hardware reliability

2X more accurate

Smart probe adapter

Instant measurement



25% lighter

Sturdy design for shop floor hardware reliability



12X faster with 7 laser crosses

Tackles black, multicolored and shiny surfaces

1.5X more accurate



Multi-function buttons for easier interaction with the software

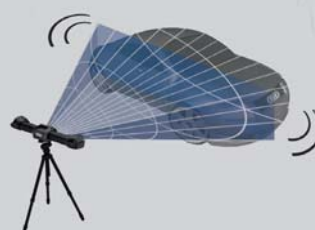
Included with both systems, the **C-Track™ optical tracker** is at the core of the Creaform optical CMM's ability to perform real-time dynamic referencing of its scanning and probing devices as well as targets on a part. Built with high-end optical components, the C-Track drives the metrology-grade measurements of the whole system.

COMBINATION OF SCANNING AND PROBING



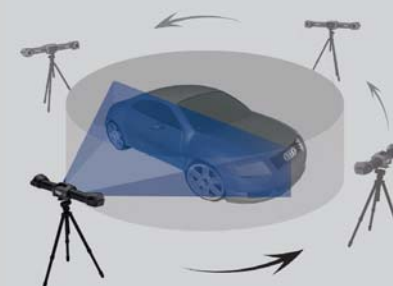
Versatility of the measurement system: probing for geometrical entities and scanning for complete surface inspection.

DYNAMIC REFERENCING



Same level of accuracy regardless of the environmental instabilities, user experience level, and setup rigidity.

EXTENDABLE MEASUREMENT VOLUME



Flexible measurement volume that can be easily and dynamically extended without loss in accuracy or conventional leapfrogs.

TECHNICAL SPECIFICATIONS

HANDY PROBE		HandyPROBE Next™	HandyPROBE Next™ Elite
WEIGHT		0.5 kg (1.1 lbs.)	
ACCURACY ⁽¹⁾		Up to 0.025 mm (0.0010 in.)	Up to 0.020 mm (0.0008 in.)
SINGLE POINT REPEATABILITY ⁽²⁾	9.1 m ³ (320 ft ³) ⁽⁴⁾	0.060 mm (0.0024 in.)	0.044 mm (0.0017 in.)
VOLUMETRIC ACCURACY ⁽³⁾		0.086 mm (0.0034 in.)	0.064 mm (0.0025 in.)
SINGLE POINT REPEATABILITY ⁽²⁾	16.6 m ³ (586 ft ³) ⁽⁴⁾	0.088 mm (0.0035 in.)	0.058 mm (0.0023 in.)
VOLUMETRIC ACCURACY ⁽³⁾		0.122 mm (0.0048 in.)	0.078 mm (0.0031 in.)

METRA SCAN 3D		MetraSCAN 350™	MetraSCAN 350™ Elite	MetraSCAN 750™	MetraSCAN 750™ Elite
WEIGHT		1.38 kg (3.0 lbs.)			
ACCURACY ⁽¹⁾		Up to 0.040 mm (0.0016 in.)		Up to 0.030 mm (0.0012 in.)	
VOLUMETRIC ACCURACY ⁽³⁾	9.1 m ³ (320 ft ³) ⁽⁴⁾	0.086 mm (0.0034 in.)	0.064 mm (0.0025 in.)	0.086 mm (0.0034 in.)	0.064 mm (0.0025 in.)
	16.6 m ³ (586 ft ³) ⁽⁴⁾	0.122 mm (0.0048 in.)	0.078 mm (0.0031 in.)	0.122 mm (0.0048 in.)	0.078 mm (0.0031 in.)
RESOLUTION		0.050 mm (0.0020 in.)			
MEASUREMENT RATE		205,000 measurements/s		480,000 measurements/s	
SCANNING AREA		225 x 250 mm (8.8 x 9.8 in.)		275 x 250 mm (10.8 x 9.8 in.)	

(1) Typical value for diameter measurement on a calibrated sphere artefact.

(2) Based on the ASME B89.4.22 standard. The probe of the HandyPROBE Next is located within a conical socket. Individual points are measured from multiple approach directions. Each individual point measurement is analyzed as a range of deviations in X, Y, Z (value = range/2).

(3) Based on the ASME B89.4.22 standard. Performance is assessed with traceable length artefacts by measuring these at different locations and orientations within the working volume of the C-Track (value = maximum deviation).

(4) The volumetric accuracy performance of the HandyPROBE Next/MetraSCAN 3D is dependent on the working volume in which the measurement is made: 9.1 m³ (320 ft³) or 16.6 m³ (586 ft³).



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