

NEW

# DISCOVER THE BEST MEASURING ARM. YOURS.



**CREAFORM**

**AMETEK**<sup>®</sup>  
ULTRA PRECISION TECHNOLOGIES



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# Portable optical CMM



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.



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# Optical CMM 3D scanner



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.



Sturdy design for shop floor hardware reliability



Multi-function buttons for easier interaction with the software



25% lighter

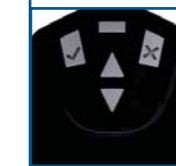
Sturdy design for shop floor hardware reliability



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

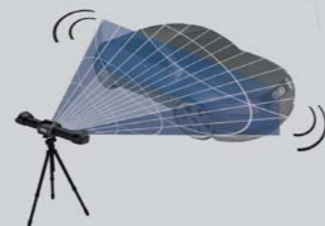
Included with both systems, the **C-Track™ optical tracker** is at the core of the Creaform optical CMM's ability to perform real-time dynamic referencing of its scanning and probing devices as well as targets on a part. Built with high-end optical components, the C-Track drives the metrology-grade measurements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

## COMBINATION OF SCANNING AND PROBING



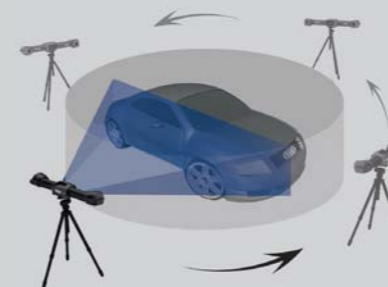
Versatility of the measurement system: probing for geometrical entities and scanning for complete surface inspection.

## 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	
ACCURACY <sup>(1)</sup>		Up to 0.025 mm	Up to 0.020 mm
SINGLE POINT REPEATABILITY <sup>(2)</sup>	9.1 m <sup>3</sup> <sup>(4)</sup>	0.060 mm	0.044 mm
VOLUMETRIC ACCURACY <sup>(3)</sup>		0.086 mm	0.064 mm
SINGLE POINT REPEATABILITY <sup>(2)</sup>	16.6 m <sup>3</sup> <sup>(4)</sup>	0.088 mm	0.058 mm
VOLUMETRIC ACCURACY <sup>(3)</sup>		0.122 mm	0.078 mm

METRA SCAN 3D		MetraSCAN 350™	MetraSCAN 350™ Elite	MetraSCAN 750™	MetraSCAN 750™ Elite
WEIGHT		1.38 kg			
ACCURACY <sup>(1)</sup>		Up to 0.040 mm		Up to 0.030 mm	
VOLUMETRIC ACCURACY <sup>(3)</sup>	9.1 m <sup>3</sup> <sup>(4)</sup>	0.086 mm	0.064 mm	0.086 mm	0.064 mm
	16.6 m <sup>3</sup> <sup>(4)</sup>	0.122 mm	0.078 mm	0.122 mm	0.078 mm
RESOLUTION		0.050 mm			
MEASUREMENT RATE		205,000 measurements/s		480,000 measurements/s	
SCANNING AREA		225 x 250 mm		275 x 250 mm	

(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 m<sup>3</sup> or 16.6 m<sup>3</sup>.



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