



# HandyPROBE ™

## THE PORTABLE CMM FOR THE SHOP FLOOR

The HandyPROBE™ line-up is a portable optical CMM specifically designed for use on the shop floor.

Due to its metrology-grade accuracy and dynamic referencing capability, the HandyPROBE delivers precise results, regardless of the measurement setup quality, the instabilities of the environment, and the user's experience level.

Since it does not require any rigid measurement setup, the part, optical tracker, or wireless probe can be moved freely at any time during the measurement sequence, adding simplicity to the process.

Because its measurement volume is flexible, it can be extended easily and dynamically without significant loss in accuracy, which comes with conventional leapfrog. In addition, the HandyPROBE can measure geometrical entities on parts of any size directly on the production floor.

### ACCURACY

**Dynamic referencing:** Optical reflectors are used to create a reference system that is "locked" to the part itself, so accuracy is optimized for shop floor conditions.

**Reliable acceptance test:** Because the acceptance test follows the ISO 10360-12 standard and is ISO 17025 accredited, the HandyPROBE delivers accurate results, regardless of the measurement setup quality.

### PORTABILITY

**Arm-free system:** Because there is no physical link between the probe and the system, the HandyPROBE can be easily brought to wherever the part is. The portable system can also measure objects of any size for maximum versatility.

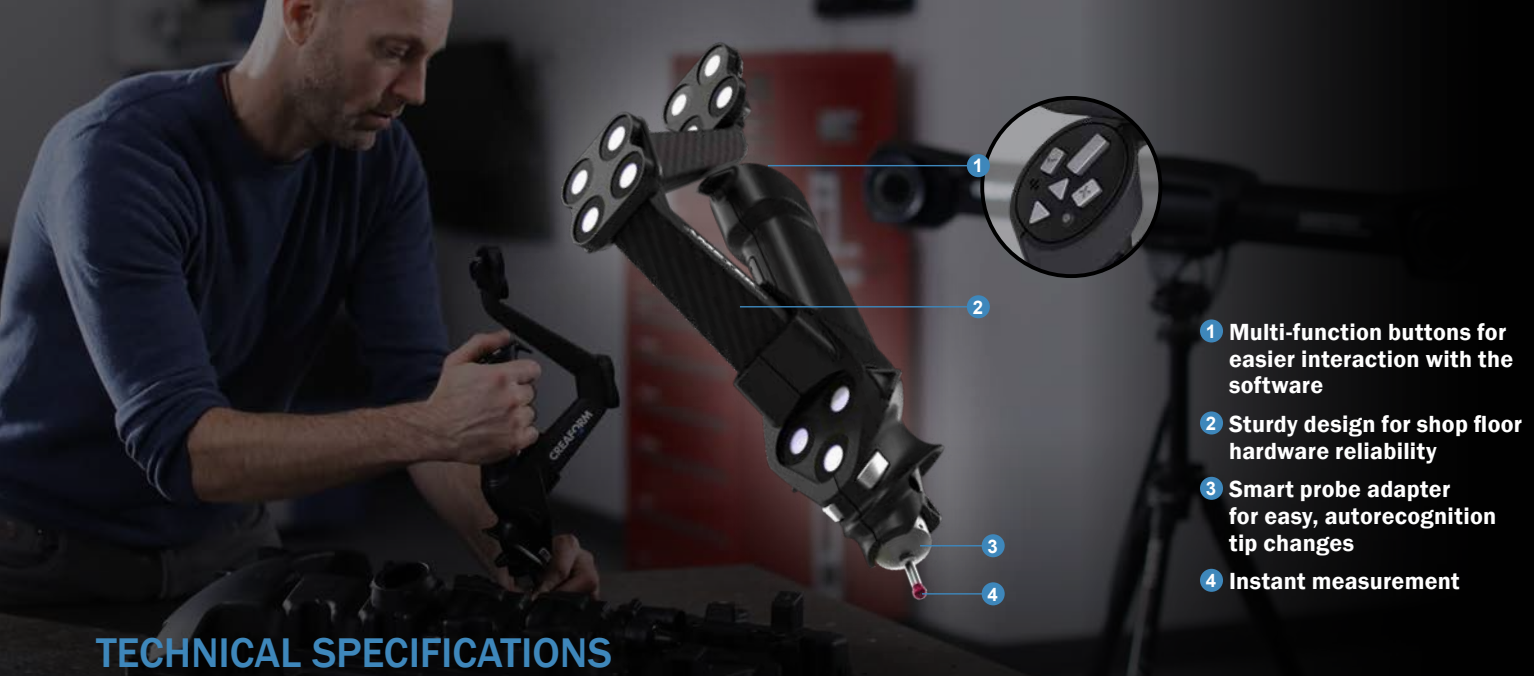
### SIMPLICITY

**No rigid setup required:** The part, optical tracker, and wireless probe can all be moved freely at any time during measurement in a wide and easily extendable measurement volume for maximum simplicity.

# CREAFORM

# AMETEK®

ULTRA PRECISION TECHNOLOGIES



- 1 Multi-function buttons for easier interaction with the software
- 2 Sturdy design for shop floor hardware reliability
- 3 Smart probe adapter for easy, autorecognition tip changes
- 4 Instant measurement

## TECHNICAL SPECIFICATIONS

Innovating technology that provides accuracy, simplicity, portability as well as real speed to your metrology-grade applications.

		HandyPROBE Next™	HandyPROBE Next™ Elite
<b>ACCURACY</b> <sup>(1)</sup>		0.030 mm (0.0012 in)	0.025 mm (0.0009 in)
<b>VOLUMETRIC ACCURACY</b> <sup>(1)</sup>	9.1 m <sup>3</sup> (320 ft <sup>3</sup> )	0.086 mm (0.0034 in)	0.064 mm (0.0025 in)
	16.6 m <sup>3</sup> (586 ft <sup>3</sup> )	0.122 mm (0.0048 in)	0.078 mm (0.0031 in)
<b>VOLUMETRIC ACCURACY</b> (with MaxSHOT 3D or C-Link) <sup>(2)</sup>	MaxSHOT Next™	0.060 mm + 0.025 mm/m (0.0024 in + 0.0003 in/ft)	0.044 mm + 0.025 mm/m (0.0017 in + 0.0003 in/ft)
	MaxSHOT Next™ Elite	0.060 mm + 0.015 mm/m (0.0024 in + 0.00018 in/ft)	0.044 mm + 0.015 mm/m (0.0017 in + 0.00018 in/ft)
<b>MEASUREMENT RATE</b>		80 measurements/s	
<b>PART SIZE RANGE</b> (recommended)		0.2–6 m (0.7–20 ft)	
<b>SOFTWARE</b>		VXelements	
<b>WEIGHT</b>		Probe: 0.5 kg (1.1 lb) C-Track: 5.7 kg (12.5 lb)	
<b>DIMENSIONS</b> (LxWxH)		Probe: 68 x 157 x 340 mm (2.7 x 6.2 x 13.4 in) C-Track: 1031 x 181 x 148 mm (40.6 x 7.1 x 5.8 in)	
<b>OPERATING TEMPERATURE RANGE</b>		5–40°C (41–104°F)	
<b>OPERATING HUMIDITY RANGE</b> (non-condensing)		10–90%	
<b>CERTIFICATIONS</b>		EC Compliance (Electromagnetic Compatibility Directive, Low Voltage Directive), compatible with rechargeable batteries (when applicable), IP50, WEEE	
<b>PATENTS</b>		FR 2,838,198, EP (FR, UK, DE, IT) 1,492,995	

(1) HandyPROBE Next and HandyPROBE Next|Elite performance assessment (ISO 17025 accredited) is based on partial procedure per ISO 10360-12 standard: *Probing size error* (6.2) and *Length error* (6.4). Performance is assessed on traceable sphere and length artefacts.

(2) The volumetric accuracy of the system when using a MaxSHOT 3D cannot be superior to the default accuracy for a given model.



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