

Fast and accurate 3D scanner and portable CMM for the shop floor

MetraSCAN 3D



The MetraSCAN 3D™ optical CMM scanner line-up is designed for manufacturing and metrology professionals who want to deliver approved quality parts quickly and efficiently.

Insensitive to shop floor vibrations, part movement, and environmental instability, the MetraSCAN 3D significantly increases the efficiency, reliability, and versatility of measurement processes. The MetraSCAN 3D is optimized to perform metrology-grade measurements and 3D surface inspections on a large variety of parts regardless of size, material, finish, or complexity.

When paired with the HandyPROBE™, which offers optional probing capability, users can harness the power of both 3D scanning and probing for a complete, streamlined inspection process.



Reliable acceptance test
ISO 17025
accredited laboratory

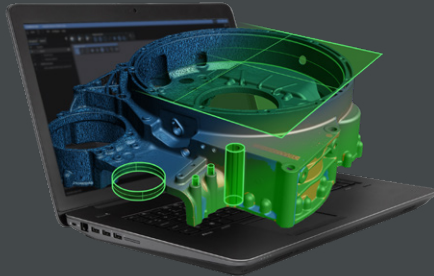
Made in North America
Most trusted & widely
used handheld 3D
scanners

**Worldwide repairs and
customer support**

Powerful, Intuitive Software for Optimal User Experience

Creaform.OS™ is a powerful, integrated operating software that provides the best 3D measurement experience across all Creaform systems.

Featuring an intuitive interface, user-friendly tools, embedded content, and learning tutorials, the platform is designed to streamline onboarding for new users and overcome a lack of experience, ensuring they can fully leverage the capabilities of their 3D scanners and optical CMMs.



Live meshing

Automatic Volume Extension





Dynamic environment compensation

Creaform Metrology Suite™ provides a comprehensive portfolio of application software modules designed for any metrology task.

- Scan-to-CAD**
 The most intuitive reverse engineering toolkit for transferring data extracted from 3D scans to any CAD platform.
- Inspection**
 Comprehensive and powerful software designed for efficient and accurate dimensional inspections.
- Automation**
 The most user-friendly and integrated programming platform for deploying automated quality control solutions.
- Dynamic Tracking**
 Enables simultaneous position and orientation of multiple objects in space and time.



Technical Specifications

	MetraSCAN BLACK+™	MetraSCAN BLACK+™ Elite
ACCURACY	0.035 mm (0.0014 in)	0.025 mm (0.0009 in)
VOLUMETRIC ACCURACY	9.1 m ³ (320 ft ³)	0.064 mm (0.0025 in)
	16.6 m ³ (586 ft ³)	0.078 mm (0.0031 in)
AUTOMATIC VOLUME EXTENSION ACCURACY ⁽¹⁾	0.035 mm + 0.020 mm/m (0.0014 in + 0.00024 in/ft)	0.025 mm + 0.015 mm/m (0.0009 in + 0.00018 in/ft)
PROBING ACCURACY WITH HandyPROBE Next+	0.030 mm (0.0012 in)	0.025 mm (0.0009 in)
ACCEPTANCE TEST	Based on VDI/VDE 2634 part 3 and ISO 10360	
SETUP ASSISTANCE TOOLS ⁽²⁾	N/A	Included
MEASUREMENT CAPABILITIES (at a working distance of 0.3 m (1 ft))	 Pin	0.750 mm (0.0295 in)
	 Hole	1.250 mm (0.0394 in)
	 Step	0.025 mm (0.009 in)
	 Wall	0.500 mm (0.0197 in)
LIGHT SOURCE ⁽³⁾	30 blue laser lines (+ 1 extra line)	
SCANNING AREA	310 x 350 mm (12.2 x 13.8 in)	
PART SIZE RANGE (recommended)	0.2–6 m (0.7–20 ft)	
WEIGHT	Scanner: 1.49 kg (3.28 lb) Probe: 0.5 kg (1.1 lb) C-Track: 5.7 kg (12.5 lb)	

(1) The volumetric accuracy performance of the system when using the Automatic Volumetric Extension cannot be superior to the default volumetric accuracy performance for a given model.

(2) The Setup Assistance tools enable visual guidances and advanced diagnostics for part and jig setups.

(3) Laser class: 2M (eye safe).



For an unparalleled experience, connect with us at the nearest office located in Canada.

creaform3d.com



Authorized Distributor



Metrology-Grade 3D Scanner Optimized for Efficiency

HandySCAN 3D

EVO Series



Part of the HandySCAN 3D™ line-up, the industry standard in portable metrology-grade 3D scanners, the HandySCAN 3D|EVO Series™ features a powerful embedded graphical user interface (GUI) that enhances user experience and efficiency while delivering Creafom's flagship metrology-grade qualities: proven reliability, renowned portability, and unmatched accredited accuracy.

By integrating augmented reality (AR) capability and a photo camera, the EVO Series further streamlines and enhances the inspection process—enabling QA and QC professionals to document part assessments better and faster, and execute workflows with greater efficiency.

The HandySCAN 3D|EVO Series also offers wireless capability and a robust 3D metrology software platform—providing a fully integrated solution, redefining ease of use, and empowering new users to quickly master the technology, all while also meeting the needs of the most advanced users.



Wireless capability & live 3D visualization

Optimized use in hard-to-reach environments

Future-ready technology

Ongoing evolution via Creafom.OS updates

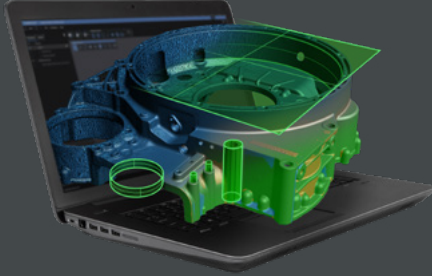
Made in North America

Worldwide customer support

Powerful, Intuitive Software for Optimal User Experience

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Featuring an intuitive interface, user-friendly tools, embedded content, and learning tutorials, the platform is designed to streamline onboarding for new users and overcome a lack of experience, ensuring they can fully leverage the capabilities of their 3D scanners and optical CMMs.



Live meshing

Integrated photogrammetry

Smart Resolution





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- **Scan-to-CAD**
The most intuitive reverse engineering toolkit for transferring data extracted from 3D scans to any CAD platform.
- **Inspection**
Comprehensive and powerful software designed for efficient and accurate dimensional inspections.
- **Automation**
The most user-friendly and integrated programming platform for deploying automated quality control solutions.
- **Dynamic Tracking**
Enables simultaneous position and orientation of multiple objects in space and time.



Technical Specifications

HandySCAN EVO|Elite™

ACCURACY		0.020 mm (0.0008 in) 0.015 mm (0.0006 in) ⁽¹⁾
VOLUMETRIC ACCURACY (based on part size)		0.020 mm + 0.020 mm/m (0.0008 in + 0.00024 in/ft) 0.020 mm + 0.015 mm/m (0.0008 in + 0.00018 in/ft) ⁽²⁾ 0.015 mm + 0.015 mm/m (0.0006 in + 0.00018 in/ft) ⁽¹⁾⁽²⁾
ACCEPTANCE TEST ⁽³⁾		Based on ISO 10360
MEASUREMENT CAPABILITIES (at a working distance of 0.3 m (1 ft))	 Pin	0.750 mm (0.0295 in)
	 Hole	1.250 mm (0.0492 in)
	 Step	0.025 mm (0.0010 in)
	 Wall	0.500 mm (0.0197 in)
LIGHT SOURCE ⁽⁴⁾		46 blue laser lines (+1 extra line) + laser pointer
SCANNER CONTROLS		4.3" touchscreen display and physical buttons
PHOTO CAMERA		12 MP, AR-enabled
REAL-TIME CALIBRATION		Included
AUTOMATIC ALIGNMENT & CLEAN-UP		Included
WORKING DISTANCE		200 to 750 mm (7.9 to 29.5 in)
WEIGHT		1.04 kg (2.3 lb)

(1) Performance obtained with Limited Edition. Limited Edition is able to deliver improved accuracy through optimized manufacturing and calibration processes.

(2) Performance obtained with scale bars included in the Accu+ Kit.

(3) Performance tests done in Creaform's ISO/IEC 17025 accredited calibration laboratories.

(4) Laser class: 2M (eye safe)



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CREAFORM / AMETEK®

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