

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

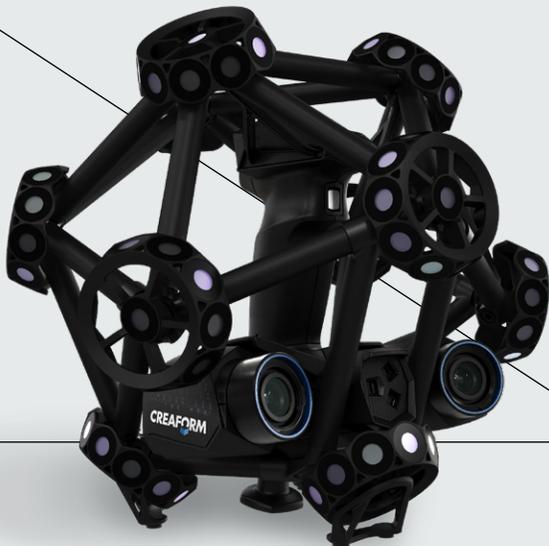
# MetraSCAN 3D



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 and Intuitive Software for Optimal User Experience

VXelements is a powerful integrated 3D software platform that works in complete synergy with the entire fleet of Creaform's 3D measuring devices. With VXelements, both 3D data acquisition as well as post-treatment and analyses occur in the same intuitive interface to guarantee an optimal user experience, seamless interaction with the device, and the shortest time to a usable mesh, 3D model, or inspection report.

Acquisition modules are included with every measurement device from Creaform. They provide real-time visualization and produce better data quality from 3D measurements, making the results user-independent and maximizing device performance. Application modules are available as add-ons to process and optimize 3D scan data for diverse applications, including creating digital twins, product development, reverse engineering, inspections, and dynamic tracking.



Live meshing	Automatic Volume Extension	Dynamic environment compensation
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## 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 <sup>3</sup> (320 ft <sup>3</sup> )	0.086 mm (0.0034 in)
	16.6 m <sup>3</sup> (586 ft <sup>3</sup> )	0.122 mm (0.0048 in)
AUTOMATIC VOLUME EXTENSION ACCURACY <sup>(1)</sup>	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 <sup>(2)</sup>	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 <sup>(3)</sup>	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



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