METROLOGY
SOLUTIONS

HandySCAN3D™

MAX Series

THE TRULY PORTABLE METROLOGY-GRADE 3D SCANNER FOR LARGE PARTS

WATCH PRODUCT VIDEO

proto3000
ISO 9001:2015

CREAFORM
AMETEK®

ASK AN EXPERT

HandySCAN3D™

WHEN ACCURACY MEETS VERSATILITY AND PORTABILITY

The HandySCAN 3D™ line-up is known as the industry standard in portable metrology-grade 3D scanners and a recognized, proven and trusted technology.

Combining the inherent benefits of the HandySCAN 3D, the MAX Series is optimized to acquire highly accurate 3D measurements on large and complex parts with no surface preparation required.

Engineered to capture fine details and scan large volumes equally well, the HandySCAN 3D|MAX Series enables professionals working in a wide variety of industries to measure large parts from all angles, resulting in high-quality 3D scans in just a matter of minutes.

ACCURACY
0.075 mm (0.0030 in)

SCAN-TO-MESH IN SECONDS

LARGE SCANNING AREA

WORLDWIDE SUPPORT

FLEX VOLUME
MAKES ANY SCAN EASY

Total volume: 4.4 m^3 (47.4 ft^3)

Near volume: high resolution

Far volume: high speed

	Working distance	Scanning area
Minimum	**0.3 m (1.0 ft)**	**0.2 x 0.3 m (0.7 x 1.0 ft)**
Nominal	**1.0 m (3.3 ft)**	**1.0 x 1.0 m (3.3 x 3.3 ft))**
Maximum	**2.5 m (8.2 ft)**	**2.0 x 2.4 m (6.6 x 7.9 ft)**

LARGE PART SIZE & SPEED

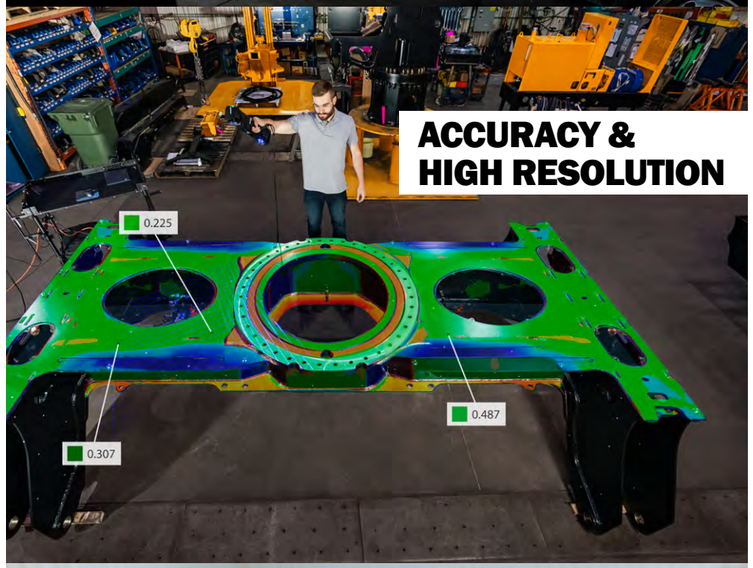
Due to its 38 laser lines and large scanning area, the HandySCAN 3D|MAX Series is the 3D scanner for measuring large part sizes—up to 15 m (49.2 ft)—quickly and easily, providing metrology-grade results in mere minutes.

With its Flex Volume feature, this handheld 3D scanner enables the user to measure large parts at very high speed from a longer distance. It also offers the flexibility to measure small parts of 1 m (3 ft) at a short distance with an increased scan quality.

Quick setup and scanning process

Large and extendable measuring volume

Instant mesh and ready-to-use files



ACCURACY & HIGH RESOLUTION

Featuring dynamic referencing and volumetric accuracy optimization, this 3D measurement solution is engineered to work in harsh environments and deliver high accuracy on large measurements, regardless of the user's experience level.

Its Flex Volume feature also provides high precision and a fine level of detail on parts captured at a short distance. With its Real-Time Calibration capability, the MAX Series integrates the calibration step directly into the scanning workflow, performing it automatically and seamlessly for the user.

Measurement accuracy insensitive to environmental instabilities

ISO 17025 accredited and compliant with the VDI/VDE 2634 part 3 standard

Integrated photogrammetry

Fine detail capacity

VERSATILITY & SIMPLICITY

The HandySCAN 3D|MAX Series can master any surface type, including shiny, oily, and even reflective finishes, and it does so without the need for surface treatment or part preparation.

With its sophisticated algorithms and image processing operation, the Smart Surface Algorithm feature optimizes surface measurement, thus offering better performance and better readings of difficult, contrasted finishes.

It also features artificial intelligence for unparalleled tracking, providing users with a flawless and simple scanning process.

Blue laser technology

Real-time mesh visualization

Plug and play

ASK AN EXPERT

TECHNICAL SPECIFICATIONS

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

		HandySCAN MAX™	HandySCAN MAX™|Elite
ACCURACY (1)		0.150 mm (0.0059 in)	0.075 mm (0.0030 in)
VOLUMETRIC ACCURACY (2)		0.200 mm + 0.030 mm/m (0.0079 in + 0.00032 in/ft)	0.100 mm + 0.015 mm/m (0.0039 in + 0.00018 in/ft)
MEASUREMENT CAPABILITIES (at a working distance of 0.5 m (1.65 ft))	Pin	2.50 mm (0.0984 in)	
	Hole	3.50 mm (0.1378 in)	
	Step	0.04 mm (0.0016 in)	
	Wall	2.00 mm (0.0787 in)	
WORKING DISTANCES		0.45–1.60 m (1.5–5.2 ft)	0.30–2.50 m (1.0–8.2 ft)
LIGHT SOURCE (3)		38 blue laser lines	
PART SIZE RANGE (recommended)		1–10 m (3.3–32.8 ft)	1–15 m (3.3–49.2 ft)
WEIGHT		1.22 kg (2.7 lb)	

(1) HandySCAN MAX and HandySCAN MAX|Elite (ISO 17025 accredited): Based on VDI/VDE 2634 part 3 standard. Probing error performance is assessed with diameter measurements on traceable sphere artefacts. Results are obtained at stand-off distance of 0.6 m and 1.2 m (1.98 ft and 3.96 ft).

(2) HandySCAN MAX and HandySCAN MAX|Elite (ISO 17025 accredited): Based on VDI/VDE 2634 part 3 standard. Sphere-spacing error is assessed with traceable length artefacts by measuring these at different locations and orientations within the working volume. Results are obtained at stand-off distance of 0.6 m and 1.2 m (1.98 ft and 3.96 ft) and using integrated photogrammetry with volumetric accuracy optimization.

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

DESIGN | ADDITIVE MANUFACTURING | METROLOGY

proto3000
ISO 9001:2015

Toronto, ON
Montreal, QC
Atlanta, GA

proto3000.com
info@proto3000.com
1-888-887-7686

EXPLORE 3D SCANNERS

3D SCANNING SERVICES