

MaxSHOT3D ™

UNMATCHED ACCURACY
ON LARGE-SCALE
METROLOGY PROJECTS



CREAFORM 

AMETEK®

MaxSHOT3D™

ELEVATE YOUR MEASUREMENT SPEED AND ACCURACY ON LARGE PARTS

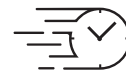
Creaform's MaxSHOT 3D™, a photogrammetry optical coordinate system, is a game changer for product development, manufacturing, quality control and inspection teams. It is the ideal solution to achieve the highest measurement accuracy and efficiency for large-scale projects and parts from 2 to 10 m. Imagine obtaining accuracy levels better than 0.015 mm/m. Gain peace of mind knowing that your measurements are always right on the dot.

What's more, thanks to sophisticated, proven user guidance technology and easy-to-use software, technicians of all levels—even non-metrology experts—can use the MaxSHOT 3D. Contrary to traditional photogrammetry, the MaxSHOT 3D features automatic feedback before final measurements captured. Never take a bad image again!

If you consistently work on large-scale projects, the MaxSHOT 3D is your go-to solution to slash budget-busting measurement mistakes, improve product quality, increase process efficiency, and minimize overall operating costs.



**ACCURACY OF
0.015 mm/m
(0.00018 in/ft)**



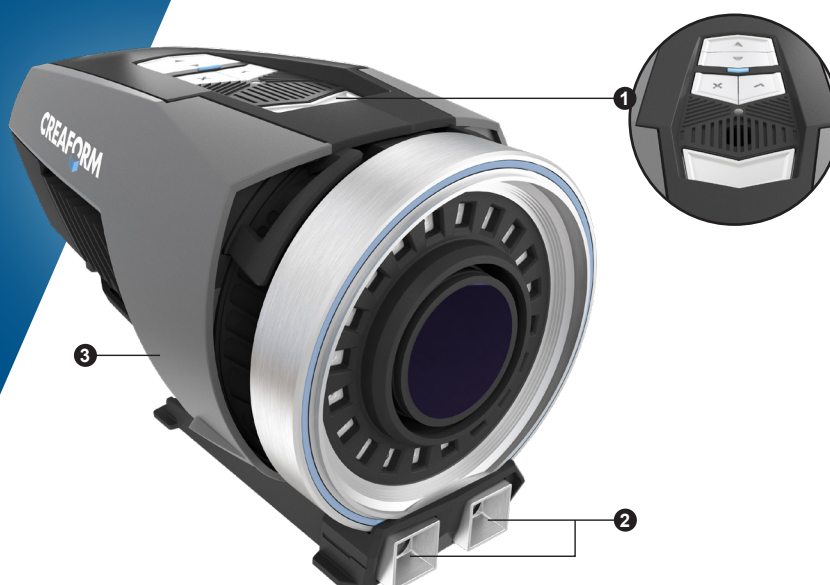
**INTEGRATED AND
STREAMLINED
PROCESS**



**VDI/VDE 2634
PART 1**



**WORLDWIDE
SUPPORT**



- ❶ Multi-function buttons for easier interaction with the software
- ❷ Laser projected frame with live GO/NO-GO feedback on measurement pictures
- ❸ Highly comfortable, ergonomic design developed specifically for photogrammetric applications



ACCURACY

The MaxSHOT 3D enables unprecedented accurate, repeatable and reliable 3D measurements on large-sized parts in a wide range of sectors, including aerospace, heavy industry, power generation and transportation.

Volumetric accuracy

0.015 mm/m (0.00018 in/ft)

Average deviation

0.005 mm/m (0.00006 in/ft)

Reliable acceptance tests

Based on the VDI/VDE 2634 part 1 standard



SIMPLICITY

To facilitate inspections and reverse engineering workflows, the MaxSHOT 3D is easy to use in any data acquisition environment regardless of a part's size, complexity, geometry, or assembly.

Intuitive software diagnostic tools

Laser projected frame with GO/NO-GO real-time feedback on measurement pictures

Multi-function buttons for easy interaction with VXElements software

Intuitive controls and operations

Experience ultra-short training and learning curves



PORTABILITY

Acquiring 3D measurements of large parts is no longer a challenge thanks to the MaxSHOT 3D. No matter where a large-sized component is located or how it is integrated in a sub-assembly, the MaxSHOT 3D's performance is not compromised. Rugged and robust, it can handle any large-scale project.

Lightweight and small

0.79 kg (1.75 lb)

Everything in one case

Quick set-up

Up and running in less than 2 minutes

Rugged and robust

SEAMLESS INTEGRATION
WITH OTHER CREAFORM
TECHNOLOGIES

The MaxSHOT 3D streamlines the measurement process and improves the accuracy of the following Creaform technologies for large-scale projects



HandySCAN3D™

The truly portable metrology-grade 3D scanner that delivers accurate results within seconds

MetraSCAN3D™

Fast and accurate optical CMM 3D scanner engineered for shop floor conditions



HandyPROBE™

The arm-free portable probing system designed for use on the shop floor



Go!SCAN3D™

The fastest and easiest 3D scanning experience, generating fast and reliable measurements

TECHNICAL SPECIFICATIONS

		MaxSHOT Next™	MaxSHOT Next™ Elite
VOLUMETRIC ACCURACY ⁽¹⁾		0.025 mm/m (0.0003 in/ft)	0.015 mm/m (0.00018 in/ft)
AVERAGE DEVIATION ⁽²⁾		0.008 mm/m (0.0001 in/ft)	0.005 mm/m (0.00006 in/ft)
VOLUMETRIC ACCURACY (when combined with these technologies)	HandySCAN 3D BLACK Series ⁽³⁾ HandySCAN 3D SILVER Series ⁽³⁾	0.020 mm + 0.025 mm/m (0.0008 in + 0.0003 in/ft)	0.020 mm + 0.015 mm/m (0.0008 in + 0.00018 in/ft)
	Go!SCAN SPARK™ ⁽⁴⁾	0.050 mm + 0.025 mm/m (0.0020 in + 0.0003 in/ft)	0.050 mm + 0.015 mm/m (0.0020 in + 0.00018 in/ft)
	HandyPROBE Next™ ⁽⁵⁾ MetraSCAN 357™ ⁽⁵⁾ MetraSCAN BLACK™ ⁽⁵⁾	0.060 mm + 0.025 mm/m (0.0024 in + 0.0003 in/ft)	0.060 mm + 0.015 mm/m (0.0024 in + 0.00018 in/ft)
	HandyPROBE Next™ Elite ⁽⁵⁾ MetraSCAN BLACK™ Elite ⁽⁵⁾	0.044 mm + 0.025 mm/m (0.0017 in + 0.0003 in/ft)	0.044 mm + 0.015 mm/m (0.0017 in + 0.00018 in/ft)
WEIGHT		0.79 kg (1.75 lb)	
DIMENSIONS		104 x 180 x 115 mm (4.1 x 7.1 x 4.5 in)	
OPERATING TEMPERATURE RANGE		5-40°C (41-104°F)	
OPERATING HUMIDITY RANGE (non-condensing)		10-90%	
CERTIFICATIONS		EC Compliance (Electromagnetic Compatibility Directive, Low Voltage Directive), IP50, WEEE, Laser class (2M)	

(1) Based on the VDI/VDE 2634 part 1 standard. Performance is assessed with 35 lengths measurements taken on traceable artefacts (value = maximum deviation).
(2) Based on the VDI/VDE 2634 part 1 standard. Performance is assessed with 35 lengths measurements taken on traceable artefacts (value = average deviation).
(3) The volumetric accuracy of the system when using a MaxSHOT 3D cannot be superior to the default accuracy for a given model.
(4) The volumetric accuracy of the system when using a MaxSHOT 3D cannot be superior to the default accuracy.
(5) The volumetric accuracy performance of the system when using a MaxSHOT 3D cannot be superior to the default volumetric accuracy performance for a given model.



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MaxSHOT 3D, MaxSHOT Next, MaxSHOT Next|Elite, HandySCAN 3D, HandySCAN 3D|BLACK Series, HandySCAN 3D|SILVER Series, Go!SCAN 3D, Go!SCAN SPARK, HandyPROBE, HandyPROBE Next, HandyPROBE Next|Elite, MetraSCAN 3D, MetraSCAN 357, MetraSCAN BLACK, MetraSCAN BLACK|Elite and their respective logos are trademarks of Creaform Inc.
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