METROLOGY
SOLUTIONS

MaxSHOT3D™

UNMATCHED ACCURACY ON LARGE-SCALE METROLOGY PROJECTS

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CREAFORM

AMETEK®
ULTRA PRECISION TECHNOLOGIES

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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

INTEGRATED AND STREAMLINED PROCESS

VDI/VDE 2634 PART 1

WORLDWIDE SUPPORT

1. Multi-function buttons for easier interaction with the software
2. Laser projected frame with live GO/NO-GO feedback on measurement pictures
3. 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

Average deviation
0.005 mm/m

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

Everything in one case

Quick set-up
Up and running in less than 2 minutes

Rugged and robust

ASK AN EXPERT

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

HandyPROBE™

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

MetraSCAN3D™

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

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	0.015 mm/m
AVERAGE DEVIATION (2)		0.008 mm/m	0.005 mm/m
VOLUMETRIC ACCURACY (when combined with these technologies)	HandySCAN 307™ (3) HandySCAN BLACK™ (3) HandySCAN BLACK™|Elite (3)	0.020 mm + 0.025 mm/m	0.020 mm + 0.015 mm/m
	Go!SCAN SPARK™ (4)	0.050 mm + 0.025 mm/m	0.050 mm + 0.015 mm/m
	HandyPROBE Next™ (5) MetraSCAN 357™ (5) MetraSCAN BLACK™ (5)	0.060 mm + 0.025 mm/m	0.060 mm + 0.015 mm/m
	HandyPROBE Next™|Elite (5) MetraSCAN BLACK™|Elite (5)	0.044 mm + 0.025 mm/m	0.044 mm + 0.015 mm/m
WEIGHT		0.79 kg	
DIMENSIONS		104 x 180 x 115 mm	
OPERATING TEMPERATURE RANGE		5-40°C	
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.

CREAFORM

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