METROLOGY
SOLUTIONS

MaxSHOT3D™

UNMATCHED ACCURACY ON LARGE-SCALE METROLOGY PROJECTS

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CREAFORM

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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!

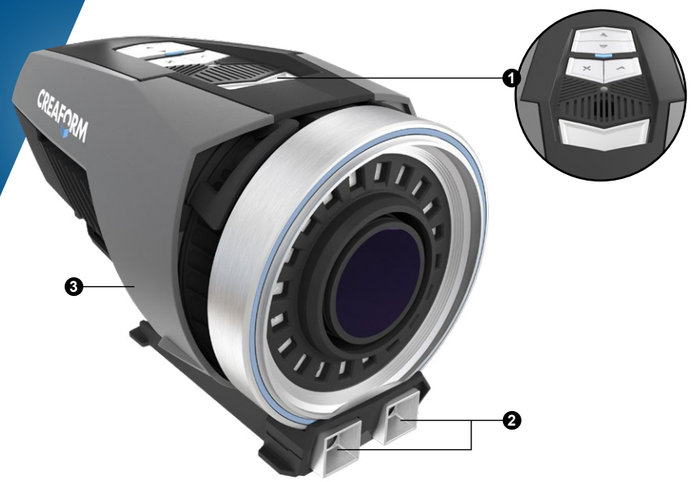
If you consistently work on large-scale projects, the MaxSHOT 3D is your go-to solution to slash budget-busting measurement mistakes, improve product quality, increase process efficiency, and minimize overall operating costs.

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

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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 3D|BLACK Series (3) HandySCAN 3D|SILVER Series (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.

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