

METROLOGY
SOLUTIONS

MAX SHOT 3D™

YOUR BEST SHOT
AT LARGE-SCALE
METROLOGY
PROJECTS



reddot design award
winner 2017

CREAFORM

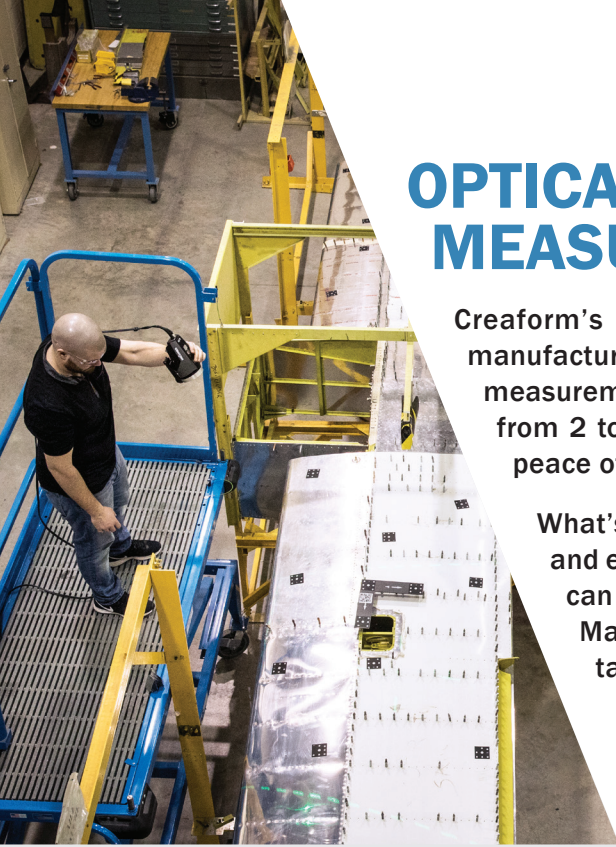
AMETEK®
ULTRA PRECISION TECHNOLOGIES

OPTICAL COORDINATE MEASURING SYSTEM

Creaform's MaxSHOT 3D™ is a game changer for product development, manufacturing, quality control and inspection teams that need the highest measurement accuracy and repeatability for large-scale projects and parts from 2 to 10 m. Imagine achieving accuracy better than 0.015mm/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, users of all levels—even non-metrology experts—can use the MaxSHOT 3D. Contrary to traditional photogrammetry, the MaxSHOT 3D features automatic feedback before measurement. Never take a bad image again!

If you consistently work on large-scale projects, the MaxSHOT Next™ and Next™|Elite are your go-to solutions to slash budget-busting measurement mistakes, improve product quality, increase process efficiency, and minimize overall operating costs.



Intuitive controls and operations for ultra-short training and learning curves

Multi-function buttons for easy interaction with VXelements software



40% more accurate

Metrology-grade volumetric accuracy of **0.015 mm/m**

Highly comfortable, ergonomic design developed specifically for photogrammetric applications

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

SEAMLESS INTEGRATION WITH OTHER CREAFORM TECHNOLOGIES

The MaxSHOT 3D integrates all of the following Creaform technologies for large-scale projects:



HandySCAN 3D™

The truly portable metrology-grade 3D scanner that delivers highly accurate measurements.



HandyPROBE™

The only truly accurate portable CMM with greater, extendable measurement volume.



MetraSCAN 3D™

The most accurate manual or automated 3D scanning solution, whether in a lab or on the shop floor.



WITH THE MAXSHOT 3D, ENSURE FIRST-TIME-RIGHT DATA ACQUISITION AND MEASUREMENTS

NEVER TAKE A BAD PICTURE AGAIN

The MaxSHOT 3D's laser-projected frame uses simple GO/NO-GO visual feedback to let users know if the image will be good or bad. If the image is good, a green frame will appear, indicating that it can be saved for further treatment and analysis. If it's bad, a red frame will appear, prompting users to take corrective action.

INTUITIVE SOFTWARE DIAGNOSTIC TOOLS

VXelements provides users with easy-to-understand diagnostics to guide them in carrying out the appropriate corrective actions before taking pictures.



OPTICAL PROBING ACCESSORIES

Use your MaxSHOT 3D as an optical probing device and get direct 3D measurements for various types of features: hole location, edge location, surface points, etc.



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 <small>(when combined with)</small>	HandySCAN 300™ HandySCAN 700™	0.020 mm + 0.025 mm/m	0.020 mm + 0.015 mm/m
	HandyPROBE Next™ ⁽³⁾	0.060 mm + 0.025 mm/m	0.060 mm + 0.015 mm/m
	HandyPROBE Next™ Elite ⁽³⁾	0.044 mm + 0.025 mm/m	0.044 mm + 0.015 mm/m
	MetraSCAN 350™ ⁽³⁾ MetraSCAN 750™ ⁽³⁾	0.060 mm + 0.025 mm/m	0.060 mm + 0.015 mm/m
	MetraSCAN 350™ Elite ⁽³⁾ MetraSCAN 750™ Elite ⁽³⁾	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 <small>(non-condensing)</small>		10-90%	
CERTIFICATIONS		EC Compliance (Electromagnetic Compatibility Directive, Low Voltage Directive), IP50, WEEE	

(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 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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