THE COMPLETE SOLUTION FOR
DIMENSIONAL INSPECTION
IN QUALITY CONTROL
APPLICATIONS
ARE QUALITY CONTROL ISSUES IMPACTING YOUR BOTTOM LINE?

Creaform’s comprehensive range of portable and automated 3D optical measurement technologies is specifically dedicated to dimensional inspection for quality control in production environments. It combines the power of optical portable CMMs, 3D scanners, photogrammetry and fully integrated dimensional inspection software.

It is highly efficient at measuring parts of any type of material ranging from 0.05 to 1.0 m (0.15 to 3 ft) in size and with an accuracy of up to 0.015 mm (0.0006 in). It is the ideal solution to validate the dimensional conformity and/or quality of production tools, jigs, parts, assemblies, sub-assemblies or final products. Thanks to Creaform’s solutions, you can rely on the precision of your measurements regardless of production environment instabilities—all while avoiding bottlenecks at the CMM.

THE PERFECT QUALITY CONTROL SOLUTION FOR EVERY PART SIZE

HandySCAN3D™
The truly portable metrology grade 3D scanner that delivers highly accurate measurements

HandyPROBE™
The only truly accurate handheld CMM with greater, extendable measurement volume

MaxSHOT3D™
The easiest way to integrate photogrammetry’s accuracy within your inspection projects

HandySCAN3D™
Volumetric accuracy of 0.020 mm + 0.040 mm/m (0.0008 in + 0.0005 in/ft)

MaxSHOT3D™
Accuracy of 0.015 mm/m (0.00018 in/ft)

THE PERFECT QUALITY CONTROL SOLUTION FOR EVERY PART SIZE

VXinspect: Quality control software that takes it to the next level

VXinspect™ is an intuitive and powerful 3D inspection software designed for manufacturing companies conducting first article inspection (FAI) or quality control. Directly integrated into VXelements™, Creaform’s 3D software platform and application suite, VXinspect provides the simplest integration of probing, 3D scanning and photogrammetry measurements.
MetraSCAN 3D

**ACCURACY:**
Impressive metrology-grade accuracy regardless of the measurement environment (instability, vibrations, etc.) or operator skills.

**Speed:**
7 laser crosses, high measurement rate and automatic mesh output for unmatched scanning speed.

**Difficult Surfaces:**
Scan any type of material, even black, multicolored and shiny surfaces.

C-Track

**Optical Tracker**

**Dynamic Referencing:**
The system features dynamic referencing capabilities using optical reflectors placed on the part allowing the users to move the object and the system at the same time, maintaining measurement accuracy.

**Greater, Extensible Measurement Volume:**
Can be easily and dynamically extended without any loss of accuracy or any conventional leapfrogging.

**Automatic Alignment:**
The use of optical reflectors allows for the measurement of identical parts in multi-references, without the need for realignment.

**C-Link Functionality**

**Virtual Metrology Lab:**
Create a virtual metrology lab by networking 2 to 4 C-Tracks™ for complete coverage of the measurement area.

HandySCAN 3D

**Portability:**
Light stand-alone device for on-the-go scanning.

**Speed:**
11 blue laser crosses, high measurement rate and automatic mesh output for unmatched scanning speed.

**Accuracy:**
Impressive accuracy regardless of the measurement environment (instability, vibrations, etc.) or operator skills.

MaxSHOT 3D

**Photogrammetry Accuracy:**
Deliver unmatched accuracy over large part measurements.

**Go/No-Go Visual Feedback:**
Laser-projected frame with instant feedback will let users, of any level, know if the image is good or bad.

**Software Diagnostics:**
Easy-to-understand image diagnostics to help users carry out corrective actions before taking measurements.

C-Track Stand

**Maximum Flexibility:**
Increases the stability of the C-track and facilitates mobility around the part while still in operation.

Virtual Software Module

**Dimensional, Repeatability, and Producibility:**
Automatic software for complete quality assurance.

**Multiple Measurement Modes:**
Seamless integration of both single and point touch probe and non-contact measurements.

CUBE-R

**3D Scanning EMI:**
High productivity industrial controller cell designed for easy floor installation.

**Complete Turnkey Solution:**
No automation required, fully equipped and shop-floor ready.

HandyPROBE Next

**Accuracy:**
Impressive accuracy regardless of the measurement environment (instability, vibrations, etc.) or operator skills.

**Multi-Function Buttons:**
Allow easier interaction with the software without having to go back to the computer.

**Smart Probe Adapter:**
Quick connect probe adapter for easy, automatic tip changes.

VXinspect Software Module

**Dimensional, Repeatability, and Producibility:**
Automatic software for complete quality assurance.

**Multiple Measurement Modes:**
Seamless integration of both single and point touch probe and non-contact measurements.

Creaf orm Shop-Floor Workstation

**Maximum Mobility:**
Incorporates all the tools you need in one easy to move unit designed for real-life shop-floor conditions.

C-Track 3D

**Photogrammetry Accuracy:**
Deliver unmatched accuracy over large part measurements.

**Go/No-Go Visual Feedback:**
Laser-projected frame with instant feedback will let users, of any level, know if the image is good or bad.

**Software Diagnostics:**
Easy-to-understand image diagnostics to help users carry out corrective actions before taking measurements.

Modular 3D

**Photogrammetry Accuracy:**
Deliver unmatched accuracy over large part measurements.

**Go/No-Go Visual Feedback:**
Laser-projected frame with instant feedback will let users, of any level, know if the image is good or bad.

**Software Diagnostics:**
Easy-to-understand image diagnostics to help users carry out corrective actions before taking measurements.

C-Track Optical Tracker

**Dynamic Referencing:**
The system features dynamic referencing capabilities using optical reflectors placed on the part allowing the users to move the object and the system at the same time, maintaining measurement accuracy.

**Greater, Extensible Measurement Volume:**
Can be easily and dynamically extended without any loss of accuracy or any conventional leapfrogging.

**Automatic Alignment:**
The use of optical reflectors allows for the measurement of identical parts in multi-references, without the need for realignment.

Productivity Station

**Multifunction:**
Magnet base for fast and flexible setup. (for use on bending)

**Complete Turnkey Solution:**
No automation required, fully equipped and shop-floor ready.

C-Link Functionality

**Virtual Metrology Lab:**
Create a virtual metrology lab by networking 2 to 4 C-Tracks™ for complete coverage of the measurement area.

C-Lab Functionality

**Virtual Metrology Lab:**
Create a virtual metrology lab by networking 2 to 4 C-Tracks™ for complete coverage of the measurement area.

CUBE-R

**3D Scanning EMI:**
High productivity industrial controller cell designed for easy floor installation.

**Complete Turnkey Solution:**
No automation required, fully equipped and shop-floor ready.

HandySCAN 3D

**Portability:**
Light stand-alone device for on-the-go scanning.

**Speed:**
11 blue laser crosses, high measurement rate and automatic mesh output for unmatched scanning speed.

**Accuracy:**
Impressive accuracy regardless of the measurement environment (instability, vibrations, etc.) or operator skills.

MaxSHOT 3D

**Photogrammetry Accuracy:**
Deliver unmatched accuracy over large part measurements.

**Go/No-Go Visual Feedback:**
Laser-projected frame with instant feedback will let users, of any level, know if the image is good or bad.

**Software Diagnostics:**
Easy-to-understand image diagnostics to help users carry out corrective actions before taking measurements.

C-Track Stand

**Maximum Flexibility:**
Increases the stability of the C-track and facilitates mobility around the part while still in operation.

Virtual Software Module

**Dimensional, Repeatability, and Producibility:**
Automatic software for complete quality assurance.

**Multiple Measurement Modes:**
Seamless integration of both single and point touch probe and non-contact measurements.

CUBE-R

**3D Scanning EMI:**
High productivity industrial controller cell designed for easy floor installation.

**Complete Turnkey Solution:**
No automation required, fully equipped and shop-floor ready.

HandyPROBE Next

**Accuracy:**
Impressive accuracy regardless of the measurement environment (instability, vibrations, etc.) or operator skills.

**Multi-Function Buttons:**
Allow easier interaction with the software without having to go back to the computer.

**Smart Probe Adapter:**
Quick connect probe adapter for easy, automatic tip changes.

VXinspect Software Module

**Dimensional, Repeatability, and Producibility:**
Automatic software for complete quality assurance.

**Multiple Measurement Modes:**
Seamless integration of both single and point touch probe and non-contact measurements.

Creaf orm Shop-Floor Workstation

**Maximum Mobility:**
Incorporates all the tools you need in one easy to move unit designed for real-life shop-floor conditions.

C-Track 3D

**Photogrammetry Accuracy:**
Deliver unmatched accuracy over large part measurements.

**Go/No-Go Visual Feedback:**
Laser-projected frame with instant feedback will let users, of any level, know if the image is good or bad.

**Software Diagnostics:**
Easy-to-understand image diagnostics to help users carry out corrective actions before taking measurements.

C-Track Optical Tracker

**Dynamic Referencing:**
The system features dynamic referencing capabilities using optical reflectors placed on the part allowing the users to move the object and the system at the same time, maintaining measurement accuracy.

**Greater, Extensible Measurement Volume:**
Can be easily and dynamically extended without any loss of accuracy or any conventional leapfrogging.

**Automatic Alignment:**
The use of optical reflectors allows for the measurement of identical parts in multi-references, without the need for realignment.

Productivity Station

**Multifunction:**
Magnet base for fast and flexible setup. (for use on bending)

**Complete Turnkey Solution:**
No automation required, fully equipped and shop-floor ready.

C-Link Functionality

**Virtual Metrology Lab:**
Create a virtual metrology lab by networking 2 to 4 C-Tracks™ for complete coverage of the measurement area.

C-Lab Functionality

**Virtual Metrology Lab:**
Create a virtual metrology lab by networking 2 to 4 C-Tracks™ for complete coverage of the measurement area.

CUBE-R

**3D Scanning EMI:**
High productivity industrial controller cell designed for easy floor installation.

**Complete Turnkey Solution:**
No automation required, fully equipped and shop-floor ready.

HandySCAN 3D

**Portability:**
Light stand-alone device for on-the-go scanning.

**Speed:**
11 blue laser crosses, high measurement rate and automatic mesh output for unmatched scanning speed.

**Accuracy:**
Impressive accuracy regardless of the measurement environment (instability, vibrations, etc.) or operator skills.

MaxSHOT 3D

**Photogrammetry Accuracy:**
Deliver unmatched accuracy over large part measurements.

**Go/No-Go Visual Feedback:**
Laser-projected frame with instant feedback will let users, of any level, know if the image is good or bad.

**Software Diagnostics:**
Easy-to-understand image diagnostics to help users carry out corrective actions before taking measurements.

C-Track Stand

**Maximum Flexibility:**
Increases the stability of the C-track and facilitates mobility around the part while still in operation.

Virtual Software Module

**Dimensional, Repeatability, and Producibility:**
Automatic software for complete quality assurance.

**Multiple Measurement Modes:**
Seamless integration of both single and point touch probe and non-contact measurements.
All of Creaform’s quality control solutions feature innovative and exclusive technologies.

HandyPROBE

**THE ONLY TRULY ACCURATE PORTABLE CMM**

The HandyPROBE arm-free probing system outperforms traditional portable CMMs on the shop floor. Because it is truly portable and insensitive to instabilities found in many production environments (e.g., part displacement, setup or CMM instability), it is highly efficient at measuring parts that can’t be moved to a granite or cast iron table. It is also ideal for geometric and surface inspections. HandyPROBE’s Next Gen can accurately measure parts ranging from 0.2 to 50 m (0.7 to 164 ft) in size and made of any type of material. HandyPROBE comes with a C-Track optical tracker providing dynamic referencing capabilities for the highest accuracy and greatest extendable measurement volume—ideal for dimensional inspection on the shop floor or assembly line. The probing system can also be paired with a MetraSCAN 3D scanner to offer high performance scanning capabilities.

**HandyPROBE Capabilities:**
- **TRUsimplicity™**
  - Easy setup adjustments, flexible working volume
  - Handheld and ergonomic design
  - No rigid setup required: part can be moved freely
  - No accuracy drift over time with the easy alignment
  - Continuous monitoring of accuracy parameters
- **TRUportability™**
  - Lightweight, wireless and arm-free probe for total freedom of movement
  - Designed for use on the shop floor
  - Handheld and ergonomic design
  - Easy setup adjustments, flexible working volume
- **TRUaccuracy™**
  - Metrology-grade accuracy, high repeatability and traceable certificate
  - Dynamic referencing: accuracy insensitive to instabilities
  - No accuracy drift over time with the easy alignment
  - Continuous monitoring of accuracy parameters

**Sentinel Cube R™**

A powerful robot-mounted optical scanning measuring machine that can be integrated into any manufacturing process. Paired with the R-Series Productivity Station and Autocalibration Kit, it optimizes line productivity and throughput, allowing for better product quality and faster production cycles. Paired with the C-Track optical tracker that enables dynamic referencing, automatic alignment and continuous monitoring of parameters, it provides the most accurate measurements in the lab and on the shop floor. Offering optimal probing capabilities with the HandyPROBE, users can harness the power of both 3D scanning and portable optical CMMs for a streamlined inspection process.

**Sentinel Cube R™ Capabilities:**
- **TRUsimplicity™**
  - Large scanning area and high measurement rate
  - No rigid setup required: part can be moved freely
  - Automatic alignment for repetitive inspections
  - Short learning curve and intuitive operation
  - Optional 3D scanning capabilities
  - Intuitive software

**MetraSCAN3D-R™**

A turnkey metrology-grade 3D scanner that can be integrated into any manufacturing process. Paired with the R-Series Productivity Station and Autocalibration Kit, it optimizes production cycle and throughput, allowing for better product quality and faster production cycles. Paired with the C-Track optical tracker that enables dynamic referencing, automatic alignment and continuous monitoring of parameters, it provides the most accurate measurements in the lab and on the shop floor. Offering optimal probing capabilities with the HandyPROBE, users can harness the power of both 3D scanning and portable optical CMMs for a streamlined inspection process.

**MetraSCAN3D-R™ Capabilities:**
- **TRUsimplicity™**
  - Large scanning area and high measurement rate
  - No rigid setup required: part can be moved freely
  - Automatic alignment for repetitive inspections
  - Short learning curve and intuitive operation
  - 3D scanning of any type of surface (black, multicolored, shiny, etc.)
  - Real-time visualization
  - Optional probing capabilities

**Cubetronic CUBE-R™**

A truly portable turnkey 3D scanning measuring machine for the inspection of parts up to 3 m. It achieves unparalleled performance in 3D scanning measuring machine (3D-SMM) metrology-grade accuracy in a single setup, with extended probing for use on the shop floor conditions.

**Cubetronic CUBE-R™ Capabilities:**
- **TRUsimplicity™**
  - Large scanning area and high measurement rate
  - No rigid setup required: part can be moved freely
  - Automatic alignment for repetitive inspections
  - Short learning curve and intuitive operation
  - 3D scanning of any type of surface (black, multicolored, shiny, etc.)
  - Real-time visualization
  - Optional probing capabilities

**Sentinel Cube R™**

A powerful robot-mounted optical scanning measuring machine that can be integrated into any manufacturing process. Paired with the R-Series Productivity Station and Autocalibration Kit, it optimizes line productivity and throughput, allowing for better product quality and faster production cycles. Paired with the C-Track optical tracker that enables dynamic referencing, automatic alignment and continuous monitoring of parameters, it provides the most accurate measurements in the lab and on the shop floor. Offering optimal probing capabilities with the HandyPROBE, users can harness the power of both 3D scanning and portable optical CMMs for a streamlined inspection process.

**Sentinel Cube R™ Capabilities:**
- **TRUsimplicity™**
  - Large scanning area and high measurement rate
  - No rigid setup required: part can be moved freely
  - Automatic alignment for repetitive inspections
  - Short learning curve and intuitive operation
  - 3D scanning of any type of surface (black, multicolored, shiny, etc.)
  - Real-time visualization
  - Optional probing capabilities
HandySCAN 3D is a metrology-grade handheld portable 3D laser scanner. It is the fastest on the market with the highest measurement rate and accuracy available—all while remaining very simple to use. Its self-positioning capabilities and portability allow unmatched freedom of movement. HandySCAN 3D provides consistent and repeatable results across all work conditions or environments, enabling you to reduce turnaround times and increase profitability. It is the perfect solution when you need to reach confined areas or any object regardless of the size, complexity, material, or color. It represents the ideal tool for quality control applications.

**TRUaccuracy**
- Metrology-grade measurements
- Accuracy in real-life conditions
- No rigid setup required
- High resolution for details

**TRUportability**
- Lightweight and small
- Stand-alone device
- Easy access to confined spaces

**TRUsimplicity**
- Plug-and-play
- Simple user interface
- Instant mesh for ready-to-use files
- Masters complex and difficult surfaces

MaxSHOT 3D is a complementary product that provides the high data accuracy and speed of photogrammetry to a wide range of applications already possible with Creaform technologies, especially when it comes to large-scale projects and parts from 2 to 10 m (7 to 33 ft). Based on a simple series of 2D photos, the MaxSHOT 3D makes it possible to quickly and easily generate a highly accurate positioning model of your parts, which significantly increases 3D measurement accuracy. Thanks to its laser-projected and software feedback, users of any level can use the MaxSHOT 3D!

**TRUaccuracy**
- Metrology-grade measurements: Accuracy of up to 0.015 mm (0.000059 in)
- Volumetric accuracy: 0.015 mm/m (0.00018 in/ft)
- Average deviation: 0.005 mm/m (0.000060 in/ft)

**TRUportability**
- Shop-floor compatible: Can be used in any production environment
- Bring it anywhere: Everything fits into one portable carrying case
- Highly ergonomic design: Developed specifically for photogrammetry

**TRUsimplicity**
- Live feedback on measurement quality: Laser projected frame with GO/NO-GO feedback
- Software diagnostics: VXelements guides users in troubleshooting measurement quality
- Intuitive controls and operation: Experience ultra-short learning curves
- Multifunction buttons: Easily interact with the software
**SW**

**VXinspect™**

**VXelements: CREAFORM’S 3D SOFTWARE PLATFORM AND APPLICATION SUITE**

VXelements powers our entire fleet of 3D scanning and measurement technologies. It gathers all the essential elements and tools into a user-friendly, simplified, and sleek working environment.

- CAD import
- Multiple-measurement mode
- Alignment
- Geometric dimensioning and tolerancing (GD&T)

**VXmodel: Scan-to-CAD software module**

VXmodel™ is a post-treatment software that directly integrates into VXelements. It allows for the finalization of 3D scan data to use directly in any 3D printing or CAD software. VXmodel provides the simplest and fastest path from 3D scans to your computer-aided design or additive manufacturing workflow.

**VXtrack: Dynamic tracking software module**

VXtrack™ accurately and efficiently measures the positions and orientations of reflectors in space; all measurements can be taken simultaneously and accurately. This makes it possible to control displacements, drive assembly processes or measure deformations.

**VXremote: Remote access software application**

VXremote™ improves your efficiency on the shop floor by providing fast and easy remote access to VXelements. It offers quick activation and setup and requires no hardware or server to install or maintain. You can have its data acquisition functionalities at your fingertips.

**DIMENSIONAL INSPECTION SOFTWARE MODULE**

Directly integrated into VXelements, Creaform’s 3D software platform and application suite, VXinspect provides the simplest integration of probing, 3D scanning, and photogrammetry measurements. VXinspect is an intuitive and powerful 3D inspection software that is designed for manufacturing companies conducting first article inspection (FAI) or quality control in manufacturing process.

The software features all functionalities required by preproduction control or when setting up a high-efficiency measurement sequence to control multiple parts. With its intuitive interface, it is the best solution for all inspection workflows. You won’t have to compromise on measurement quality or GD&T requirements.

- CAD import
- Multiple-measurement mode
- Alignment
- Geometric dimensioning and tolerancing (GD&T)

**EXTEND THE POWER OF YOUR INSPECTION PROCESS**

**Creaform Shop-Floor Workstation**

The Creaform Shop-Floor Workstation is designed to facilitate mobility across the shop floor and increase reliability by protecting your scanning and probing systems while still in operation or when stored (two C-Tracks and stands can fit in the workstation).

**Creaform C-Track Shop-Floor Stand**

The Creaform C-Track Shop-Floor Stand, available as stand-alone or bundled with the workstation, increases the stability of the C-Track while still in operation and facilitates mobility around the part without the risk of injury.

**Virtual Metrology Lab**

Take full advantage of the C-Link™ functionality by connecting up to 4 C-Tracks in a single network to create a virtual metrology lab. This dimensional inspection solution, designed for metrology lab applications, enables seamless probing and 3D scanning operations without having to move the C-Track optical tracker around.

**Optical Probing Accessories**

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

**CUSTOMER CARE PROGRAM**

Creaform is committed to offering first-class customer service so that you can get the most out of your system.

Our multilingual team of product specialists will provide you with assistance to answer your immediate needs. Our fleet of leading-edge calibration tools in our service centers gives you local access to faster maintenance service and repair.

Be sure to subscribe to the Customer Care Program to take advantage of worry-free maintenance and global repair coverage for all of your Creaform hardware and software. Whether you need to access our latest software releases and knowledge base or require a loaner unit while your device is being serviced, we have a plan tailored to your needs. Gain peace of mind knowing your equipment will get even better with time.

**METROLOGY AND ENGINEERING SERVICES**

Convinced of the quality and possibilities of the Creaform technologies, but not quite yet ready to commit and buy? Know that Creaform offers a wide range of metrology and engineering services. Our experts have earned a worldwide reputation for effectiveness and professionalism. Whether you need their help to perform 3D scanning, quality control, reverse engineering, FEA/CFD simulations, product and tool development, or training services, you can count on their commitment to meet your requirements with responsiveness and adaptability.
### TECHNICAL SPECIFICATIONS

#### HandyPROBE™

<table>
<thead>
<tr>
<th>HandyPROBE Next™</th>
<th>HandyPROBE Next™</th>
<th>Elite</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PART SIZE RANGE</strong> (recommended)</td>
<td>0.2–6 m (0.7–20 ft)</td>
<td>0.2–6 m (0.7–20 ft)</td>
</tr>
<tr>
<td><strong>ACURACY</strong></td>
<td>Up to 0.025 mm (0.0010 in)</td>
<td>Up to 0.020 mm (0.0008 in)</td>
</tr>
<tr>
<td><strong>SINGLE POINT REPEATABILITY</strong>&lt;sup&gt;(m)&lt;/sup&gt; (based on working volume)</td>
<td>0.060 mm (0.0024 in)</td>
<td>0.044 mm (0.0017 in)</td>
</tr>
<tr>
<td><strong>VOLUMETRIC ACCURACY</strong></td>
<td>0.060 mm (0.0025 in)</td>
<td>0.066 mm (0.0026 in)</td>
</tr>
<tr>
<td>**VOLUMETRIC ACCURACY WITH MaxSHOT NEXT™</td>
<td>ELITE**</td>
<td>1.12 mm (0.0448 in)</td>
</tr>
<tr>
<td><strong>RESOLUTION</strong></td>
<td>0.050 mm (0.0020 in)</td>
<td>0.025 mm (0.0009 in)</td>
</tr>
<tr>
<td><strong>MEASUREMENT RATE</strong></td>
<td>225,000 measurements/s</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>WEIGHT</strong></td>
<td>1.38 kg (3.0 lb)</td>
<td>0.79 kg (1.75 lb)</td>
</tr>
<tr>
<td><strong>CERTIFICATIONS</strong></td>
<td>EC Compliance (Electromagnetic Compatibility Directive, Low Voltage Directive, Radio Equipment and Telecommunications Equipment), compatible with rechargeable batteries (when applicable), IP50, WEEE</td>
<td></td>
</tr>
</tbody>
</table>

#### MetraSCAN 3D™

<table>
<thead>
<tr>
<th>MetraSCAN 350™</th>
<th>MetraSCAN 350™</th>
<th>Elite</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PART SIZE RANGE</strong> (recommended)</td>
<td>0.2–6 m (0.7–20 ft)</td>
<td>0.2–6 m (0.7–20 ft)</td>
</tr>
<tr>
<td><strong>ACURACY</strong></td>
<td>Up to 0.030 mm (0.0012 in)</td>
<td>Up to 0.030 mm (0.0012 in)</td>
</tr>
<tr>
<td><strong>SINGLE POINT REPEATABILITY</strong>&lt;sup&gt;(m)&lt;/sup&gt; (based on working volume)</td>
<td>0.088 mm (0.0035 in)</td>
<td>0.058 mm (0.0023 in)</td>
</tr>
<tr>
<td><strong>VOLUMETRIC ACCURACY</strong></td>
<td>0.086 mm (0.0034 in)</td>
<td>0.064 mm (0.0025 in)</td>
</tr>
<tr>
<td>**VOLUMETRIC ACCURACY WITH MaxSHOT 3D™</td>
<td>ELITE**</td>
<td>0.112 mm (0.0448 in)</td>
</tr>
<tr>
<td><strong>RESOLUTION</strong></td>
<td>0.060 mm (0.0024 in)</td>
<td>0.044 mm (0.0017 in)</td>
</tr>
<tr>
<td><strong>MEASUREMENT RATE</strong></td>
<td>205,000 measurements/s</td>
<td>480,000 measurements/s</td>
</tr>
<tr>
<td><strong>WEIGHT</strong></td>
<td>0.94 kg (2.1 lb)</td>
<td>0.79 kg (1.75 lb)</td>
</tr>
<tr>
<td><strong>CERTIFICATIONS</strong></td>
<td>EC Compliance (Electromagnetic Compatibility Directive, Low Voltage Directive, Radio Equipment and Telecommunications Equipment), compatible with rechargeable batteries (when applicable), IP50, WEEE</td>
<td></td>
</tr>
</tbody>
</table>

#### HandySCAN 3D™

<table>
<thead>
<tr>
<th>HandySCAN BLACK™</th>
<th>HandySCAN BLACK™</th>
<th>Elite</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PART SIZE RANGE</strong> (recommended)</td>
<td>0.05–4 m (0.165–13 ft)</td>
<td>2–10 m (7–33 ft)</td>
</tr>
<tr>
<td><strong>ACURACY</strong></td>
<td>0.035 mm (0.0014 in)</td>
<td>0.025 mm (0.0009 in)</td>
</tr>
<tr>
<td><strong>SINGLE POINT REPEATABILITY</strong>&lt;sup&gt;(m)&lt;/sup&gt; (based on working volume)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>VOLUMETRIC ACCURACY</strong></td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>**VOLUMETRIC ACCURACY WITH MaxSHOT NEXT™</td>
<td>ELITE**</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>RESOLUTION</strong></td>
<td>0.025 mm (0.0009 in)</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>MEASUREMENT RATE</strong></td>
<td>300,000 measurements/s</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>WEIGHT</strong></td>
<td>0.84 kg (1.8 lb)</td>
<td>0.79 kg (1.75 lb)</td>
</tr>
<tr>
<td><strong>CERTIFICATIONS</strong></td>
<td>EC Compliance (Electromagnetic Compatibility Directive, Low Voltage Directive, Radio Equipment and Telecommunications Equipment), compatible with rechargeable batteries (when applicable), IP50, WEEE</td>
<td></td>
</tr>
</tbody>
</table>

#### MaxSHOT 3D™

<table>
<thead>
<tr>
<th>MaxSHOT NEXT™</th>
<th>MaxSHOT NEXT™</th>
<th>Elite</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PART SIZE RANGE</strong> (recommended)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>ACURACY</strong></td>
<td>0.020 mm + 0.040 mm/m</td>
<td>0.015 mm/m (0.0006 in/m)</td>
</tr>
<tr>
<td><strong>SINGLE POINT REPEATABILITY</strong>&lt;sup&gt;(m)&lt;/sup&gt; (based on working volume)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>VOLUMETRIC ACCURACY</strong></td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>**VOLUMETRIC ACCURACY WITH MaxSHOT NEXT™</td>
<td>ELITE**</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>RESOLUTION</strong></td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>MEASUREMENT RATE</strong></td>
<td>80,000 measurements/s</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>WEIGHT</strong></td>
<td>0.4 kg (0.9 lb)</td>
<td>0.79 kg (1.75 lb)</td>
</tr>
<tr>
<td><strong>CERTIFICATIONS</strong></td>
<td>EC Compliance (Electromagnetic Compatibility Directive, Low Voltage Directive, Radio Equipment and Telecommunications Equipment), compatible with rechargeable batteries (when applicable), IP50, WEEE</td>
<td></td>
</tr>
</tbody>
</table>

---

1. The HandySCAN BLACK and HandySCAN BLACK I Elite (ISO 17025 accredited): Based on VDI/VDE 2634 part 3 standard. Probing error performance is assessed with diametric measurements on traceable sphere artefacts. The MetraSCAN 3D: Typical value for diameter measurement on a calibrated sphere artefact. 
2. Based on the ASME B89.4.22 standard. Performance is assessed with traceable length artefacts by measuring these at different locations. 
3. The HandyPROBE Next is dependent on the working volume in which the measurement is made: 9.1 m (320 ft) or 16.6 m (586 ft). 
4. The HandySCAN BLACK and HandySCAN BLACK I Elite (ISO 17025 accredited): Based on VDI/VDE 2634 part 3 standard. Sphere-spacing error is assessed based on the VDI/VDE 2634 part 1 standard. 
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. 
6. The volumetric accuracy of the system when using a MaxSHOT 3D cannot be superior to the default accuracy for a given model.