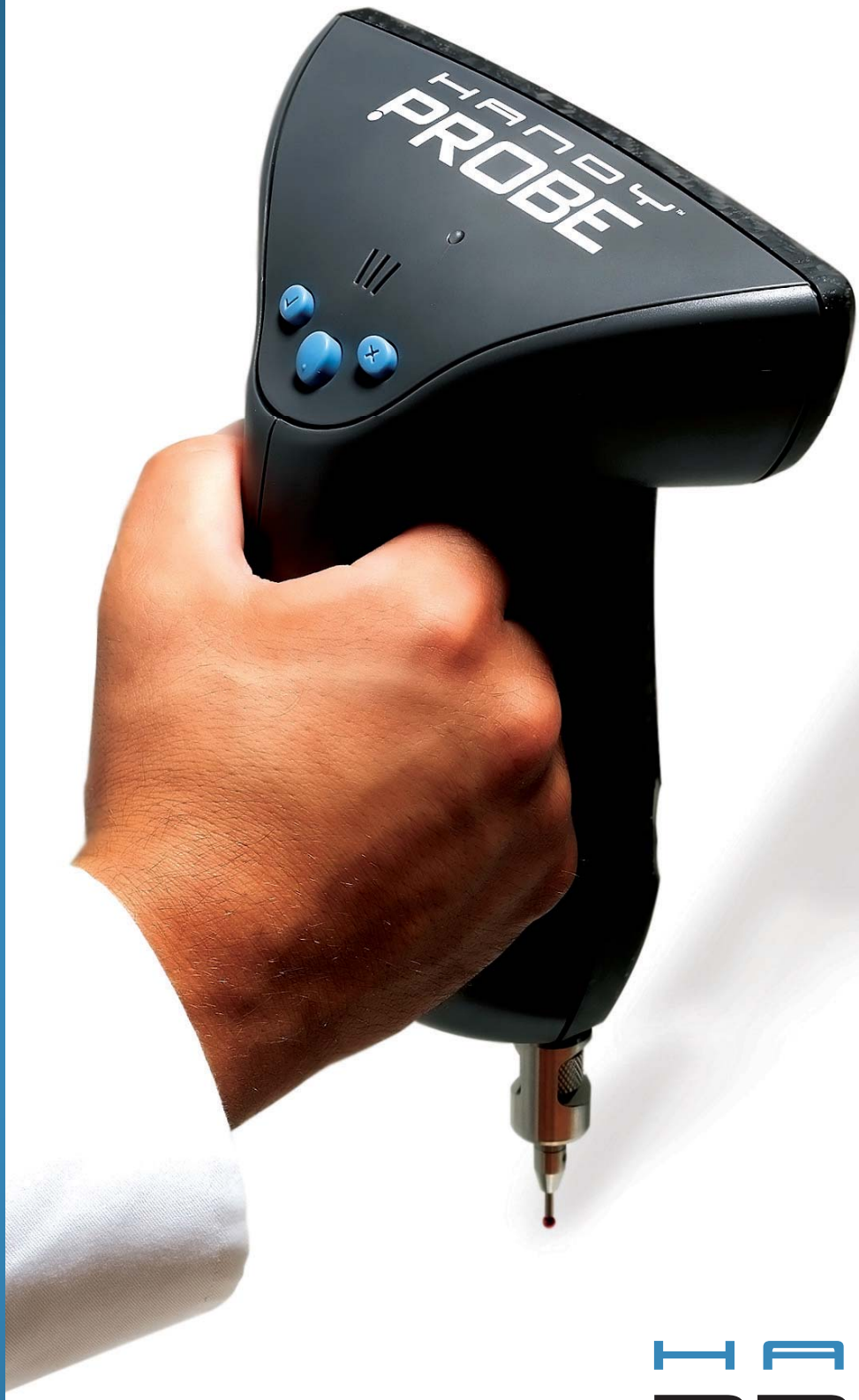
GET THE **MEASURE** OF **THINGS!**



HANDY™ PROBE

HANDY PROBE™

THE HandyPROBE™ ARM-FREE PORTABLE PROBING SYSTEM AND THE C-Track™ DUAL-CAMERA SENSOR FORM A UNIQUE DUO THAT GENERATES HIGH ACCURACY MEASURES AND INCREASES THE RELIABILITY AND SPEED OF THE MEASUREMENT PROCESS. THIS PORTABLE CMM HAS BEEN DESIGNED AND OPTIMIZED TO OPERATE IN “REAL LIFE”, SHOP FLOOR CONDITIONS.

COMPARED TO OTHER EXISTING COORDINATE MEASUREMENT TECHNOLOGIES, THE HandyPROBE 100% PORTABLE WIRELESS CMM GIVES YOU TOTAL FREEDOM OF MOVEMENT, THEREFORE ALLOWING YOU TO SIGNIFICANTLY INCREASE YOUR PRODUCTIVITY AND QUALITY!

HandyPROBE

APPLICATIONS

The HandyPROBE is a powerful arm-free measurement system. The data acquired by this system are processed in real-time in all major inspection and metrology software. This accurate device can carry out the following tasks:

Inspection

- Part-to-CAD analysis
- First article and supplier quality inspection
- Conformity assessment of 3D models against the original parts/ production tooling
- Conformity assessment of manufactured parts against the originals
- Alignment
- Tooling certification
- Multi-shot measurement (up to 30 points/sec.)

Reverse Engineering

- Reverse engineering of geometrical entities (spheres, cylinders, planes)
- When used in conjunction with a Handyscan 3D laser scanner, allows for faster and more accurate reverse engineering of mixed parts (geometrical and free-form).

BENEFITS

Higher measurement accuracy: The operator can choose to work in **Dynamic referential** mode, which allows him to move both the C-Track sensor and the part during the measurement process, without any loss in accuracy or tracking. This feature proves particularly useful in real work environments and shop floors, as it allows data acquisition of hard-to-reach areas and measurement in environments with vibrations without requiring rigid set-ups.

Faster and easier measurement: Handheld, armless device and wireless data transmission process that allow the user to move freely around the part. **Automatic alignment** with optical reflectors allowing to probe many identical parts in rapid succession. Lightweight (1 lb), it can be used during extended periods of time without causing musculo-skeletal problems.

Greater, extendable measurement volume: Compared to other portable CMM systems, the HandyPROBE offers a greater basic measurement volume. Plus, this volume can be easily and dynamically extended with no loss in accuracy - and **without any conventional leapfrog** or additional alignment set-up involved. No need for the operator to re-align the data after moving the part or the C-Track, which leads in **less set-ups and error accumulation**.

Truly portable device: The 100% portability of the HandyPROBE makes it possible to inspect or reverse engineer parts, sub-units or complex assemblies with **unequalled precision**, **mobility** and **flexibility** - no matter where (lab, factory, off-site, etc.).

User friendly: Easy to learn, **intuitive** system with a very short learning curve – you can keep using the same metrology software and probing techniques! Installation in less than 5 minutes. Allows the measurement of parts in production without having to align every part.

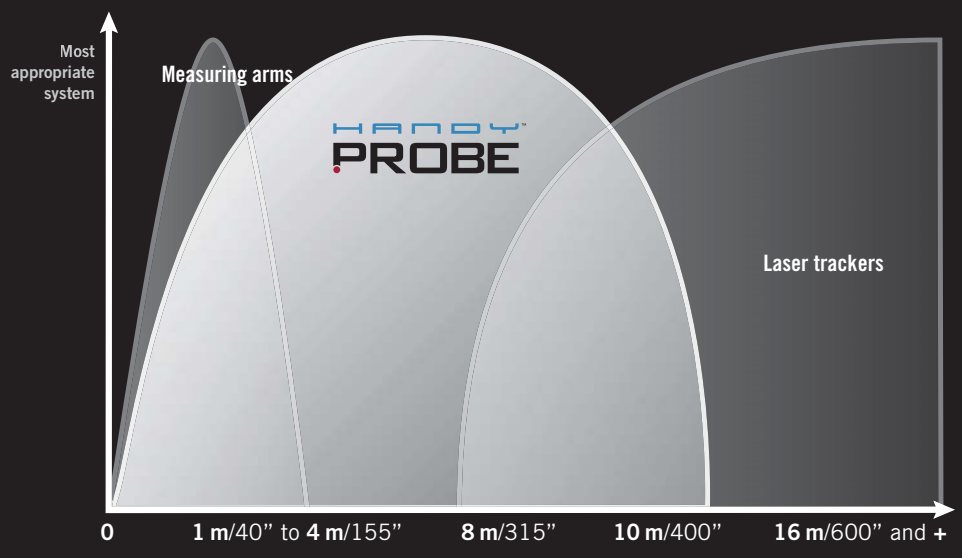
Excellent ROI: Yields considerable **productivity** and money gains in the field of industrial coordinate measurements and controls.

WHY CHOOSE A HandyPROBE PORTABLE CMM OVER A LASER TRACKER?

- Half the price of a laser tracker
- Shorter learning curve
- Greater portability and ergonomics (± 20 lbs lighter)
- Tolerant to beam cut-off
- Easier to use than spherical mirror reflectors (SMRs)
- No annual factory calibration
- Low maintenance costs (no need to replace SMRs, extensions, etc.)

WHY CHOOSE A HandyPROBE PORTABLE CMM OVER A CONVENTIONAL MEASURING ARM?

- Higher precision in actual conditions (shop floor)
- Increased ease of operation
- Low maintenance (no encoders, no mechanical maintenance and wear)
- No movement limitation (no physical link)
- Greater portability (± 20 lbs lighter)
- No annual factory calibration



C-TRACK 380

THE C-Track 380 DUAL-CAMERA SENSOR

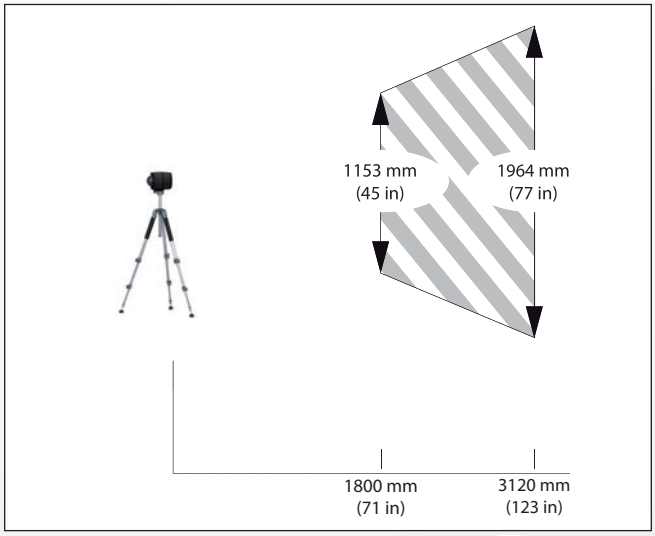
THE C-Track DUAL-CAMERA SENSOR IS FITTED WITH HIGH QUALITY OPTICS AND SPECIAL LIGHTING, ENABLING IT TO MEASURE ALL REFLECTORS WITHIN ITS OPERATING SPACE. IN ADDITION TO TRACKING THE WHOLE SYSTEM'S REFERENCE MODEL, THE C-Track ENSURES THE EXACT LOCALIZATION OF THE HandyPROBE, PERFORMS CONTINUOUS IMAGE ACQUISITION AND TRANSMISSION, LIGHTING OF REFLECTORS, WIRELESS COMMUNICATION WITH THE HandyPROBE STYLUS, MANAGEMENT OF THE EXCHANGES WITH THE COMPUTER AND STORAGE OF THE SENSOR PARAMETERS.

C-Track 380 | TECHNICAL SPECIFICATIONS

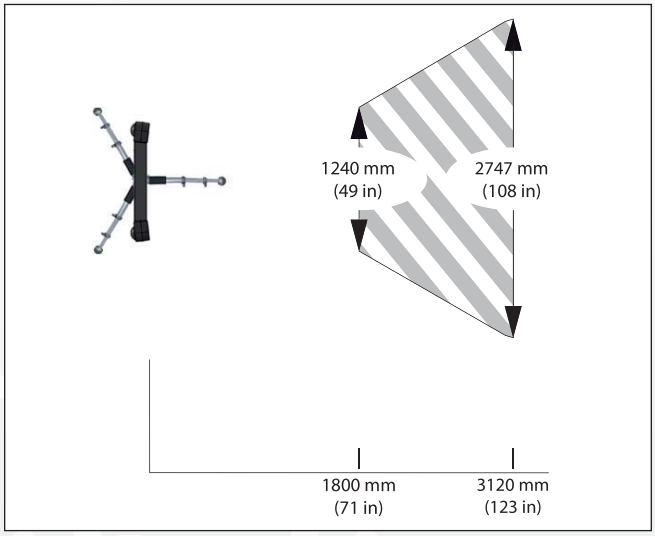
Weight	5.5 kg (12 lbs)
Dimensions	1089 x 174 x 119 mm (43 x 6.9 x 4.7 in)
Single point performance*	45 µm (0.0018 in)
Volumetric performance *	75 µm (0.0029 in)
Measurement speed	30 points/s

Operating temperature range	15-40 °C (59-104 °F)
Operating humidity range (non-condensing)	10-90%
Universal power supply	100-240 VAC/50-60Hz
Certifications	EN 301 489-1, EN 301 489-3, EN 300 220-1

*Test methods in compliance with the ASME B89.4.22 standard



1. **PROFILE VIEW**



2. **TOP VIEW**

75 µm (0.0029 in)

3. **ISOMETRIC VIEW**

creaform
3D TECHNOLOGY AND DIGITAL SOLUTIONS

Head Office

5825, rue Saint-Georges
Lévis (Québec) G6V 4L2 Canada
T. 1 418 833.4446
F. 1 418 833.9588

Authorized Sales, Service and Training:

CIMtech

901 Algona Blvd. N., Suite B
Algona, WA 98001
ph: 253-333-0126
fax: 253-333-0127
www.multiaxis.com
info@multiaxis.com

C-Track and HandyPROBE are trademarks of Creaform inc. © Creaform 2010. All rights reserved.