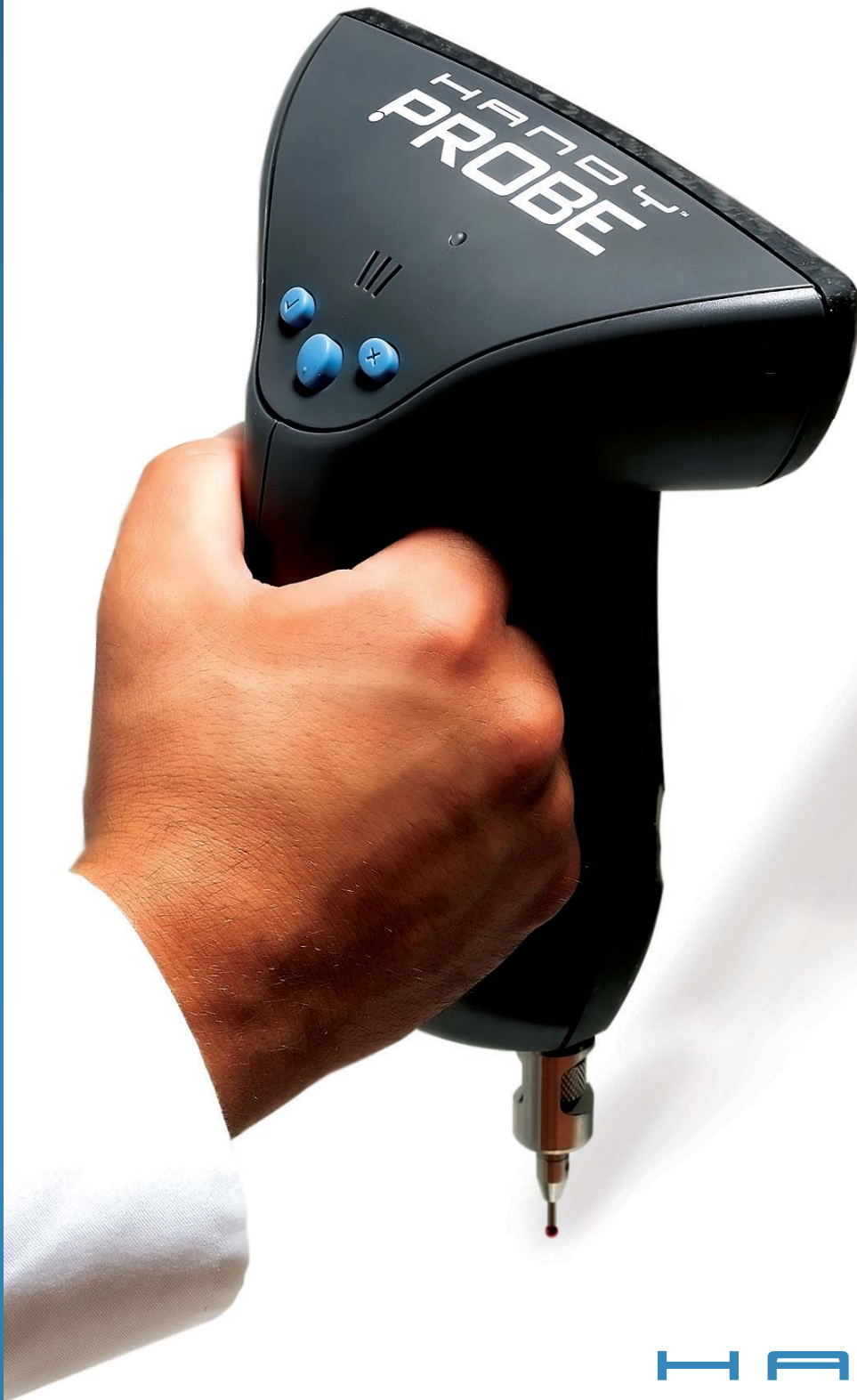


GET THE **MEASURE**
OF **THINGS!**



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!





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

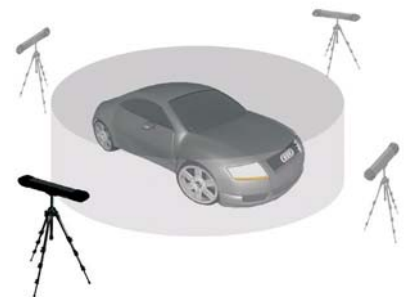
- Reverse engineering of geometrical entities (spheres, cylinders, planes)
- When used in conjunction with a Handyscan 3D laser scanner, allows for faster and more accurate reverse engineering of mixed parts (geometrical and free-form).

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.

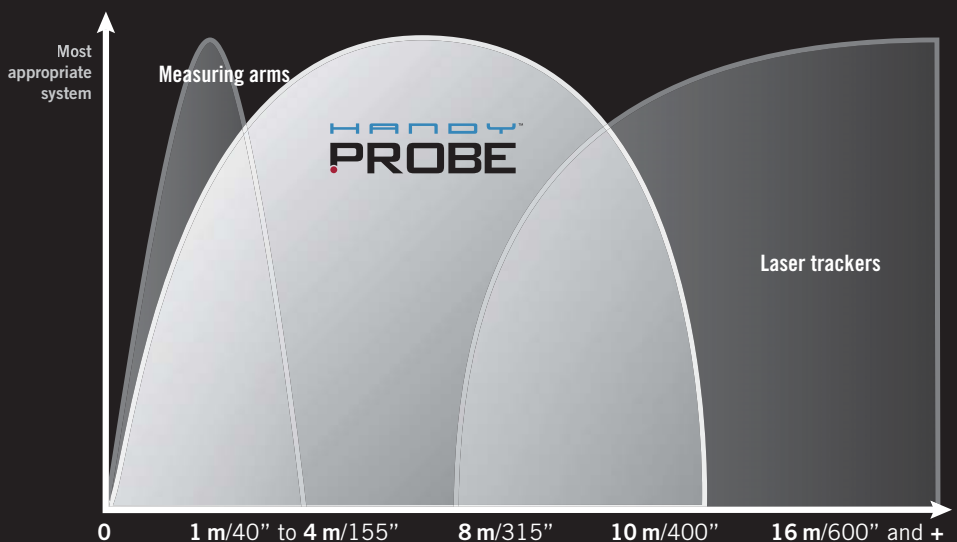
Excellent ROI: Yields considerable **productivity** and money gains in the field of industrial coordinate measurements and controls.

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



INDUSTRIES

- Aerospace
- Automotive/Transport Equipment Production
- Consumer Products
- Education
- Metallurgy and metal processing
- Machine tool production
- Forming, molding, manufacturing, casting and assembling

HPS AND VxScan SOFTWARE

The HandyPROBE CMM comes with HPS, an interface software developed by Creaform that acts as a seamless gateway between the HandyPROBE and all major metrology software.

The probing capabilities of Creaform's proprietary VxScan data acquisition software make it possible to perform simple probing measurements. In addition to that, owners of a Handyscan 3D laser scanner already working with VxScan can also operate their HandyPROBE device through the software.

COMPATIBLE SOFTWARE

- PowerINSPECT
- PowerINSPECT LITE
- µLog XG
- Metrolog XG
- PolyWorks Inspector
- Inca 3D
- Verisurf
- SpatialAnalyser

Other software platforms: Contact our experts at info@creaform3d.com

TECHNICAL SPECIFICATIONS

Weight	450 g (1 lb)
Dimensions	204 x 159 x 97 mm (8 x 6.26 x 3.8 in)
Measurement speed	30 points/s
Operating temperature range	15-40 °C (59-104 °F)
Operating humidity range (non-condensing)	10-90%
Certifications	EN 301 489-1, EN 301 489-3, EN 300 220-1

INCLUDED

- HandyPROBE probing stylus
- C-Track dual-camera sensor (model as the client chooses)
- 45° shaft (Ø8mm - Height 12mm Ø6) metal reflectors (3)
- L20 Sphere 3 ruby stylus M4 (1)
- Magnetic supports for reflector Ø 6 mm (3)
- Mini-PC (screen and keyboard not included)
- M4 stylus tool (to install the stylus onto adapter)
- Probe adapter, fixed and mobile part (1)
- Calibration bar, carrying case, tripod and universal power supply
- 1-year warranty on parts and labor

OPTIONAL

- HandyPROBE black contour targets
- Hold down horizontal clamps with D6 reflector holder
- Metal reflectors (various angles, diameters and heights)
- Renishaw styli & accessories (various types and dimensions)
- And more...



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