



ROMER Absolute Arm Version 3 – What's new?

April 2014

The New ROMER Absolute Arm Version 3



The New ROMER Absolute Arm



- In tune with our proven principles and your senses

The New ROMER Absolute Arm

The ROMER Absolute Arm product follows the new branding guidelines of Hexagon Metrology

All Arms are branded with the Hexagon Metrology logo



The New ROMER Absolute Arm



The New ROMER Absolute Arm – Measure anytime, anywhere!

Thermally stable dual tube carbon fiber tube construction.

- ✓ Why wait for temperatures to stabilize.

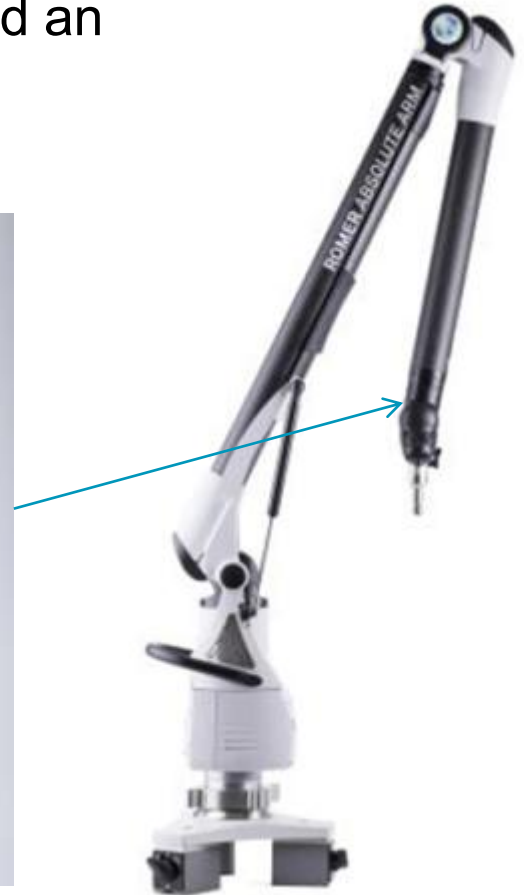


NASA chose ROMER to measure ice formation on wings, because they have to take the system into extreme environments, temperature of -30F, and measure.

The New ROMER Absolute 6 axis Arm - RA73 & 75 6 axis arms

New Wrist design so users no longer have to hold an uncomfortable cylindrical shaped wrist.

- ✓ Ergonomic wrist design
- ✓ New buttons
- ✓ Molded Button Caps
- ✓ Ergonomic button position

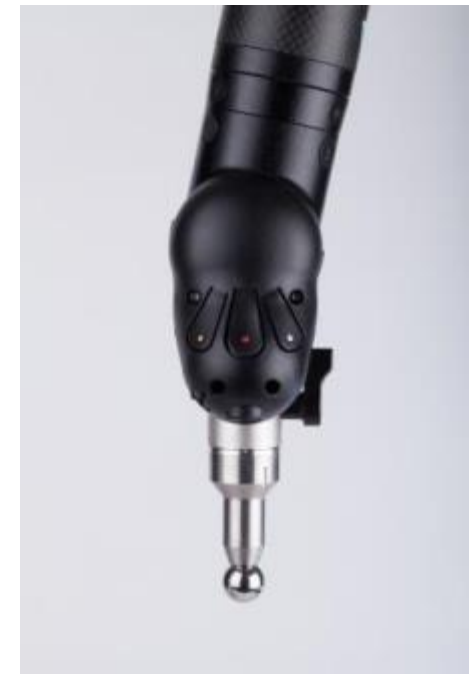


- ✓ The first ever arm, designed to fit the complex contours of the human hand

The New ROMER Absolute 6 axis Arm - RA73 & 75 6axis arms

In addition to Ergonomics the Romer 6 axis wrist has features to save you time and improve accuracy

- ✓ **Intelligent Quick Change Probes – Plug & Play**
- ✓ No tools required – No searching for tools
- ✓ No Recalibration Req'd– Just start measuring.
- ✓ No Special Calibration seats req'd for changes.
- ✓ No Special Tables or set-up for probe changes.
- ✓ No problem changing probes while on stands.



Save time, peace of mind, and become more productive

The New ROMER Absolute 6 axis Arm - RA73 & 75 6axis arms

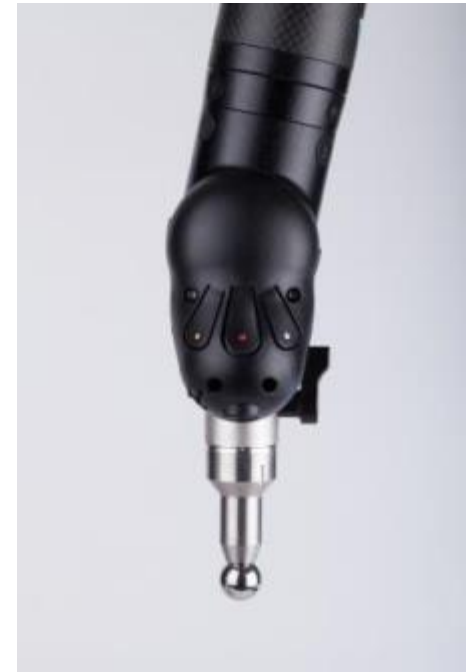
In addition to Ergonomics the Romer 6 axis wrist has:

- ✓ Built in worklight – You can **SEE** the part
- ✓ Built in Digital Camera – To **REMEMBER** set-ups
- ✓ Built in Haptic Device – You can now **FEEL** things

Shops are noisy so we added feeling.....

Cavities are dark so we added light.....

Time forgets so we have added memory.....



Hexagon has raised the bar with **SENSORY FEEDBACK**

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ISO 9001:2008

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 **HEXAGON**
METROLOGY

The New ROMER Absolute Arm – Superior Counterbalance Design



Zero-G Counter Balance eliminates the worry about is the Base Torquing or is the arm mounted Perfectly Vertical.

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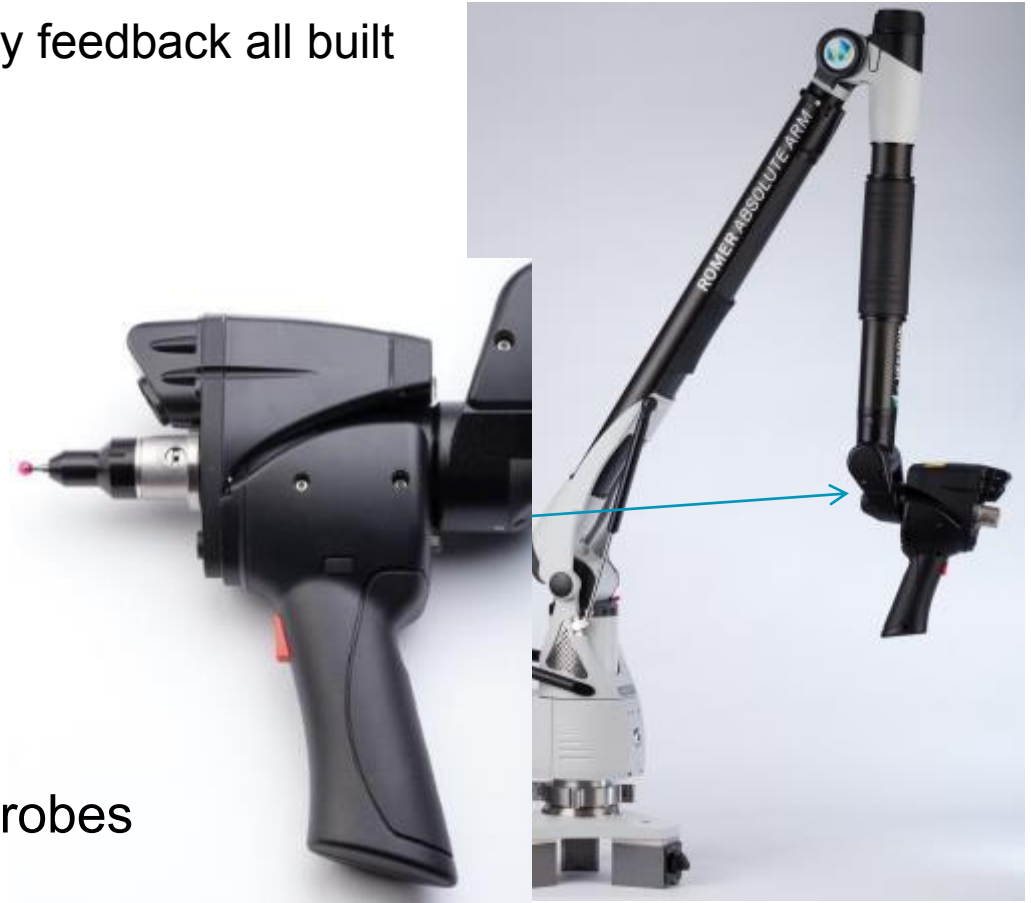
 **HEXAGON**
METROLOGY

The New ROMER Absolute 7 Axis Integrated Scanning Arm

Ergonomics, Speed, and Sensory feedback all built into the ROMER arm

RA73 & 75 SI arms:

- ✓ New Ergonomic handle
- ✓ New buttons
- ✓ Ergonomic button position
- ✓ Haptic feedback (feeling)
- ✓ Integrated Laser Scanner
- ✓ Intelligent Quick Change Probes

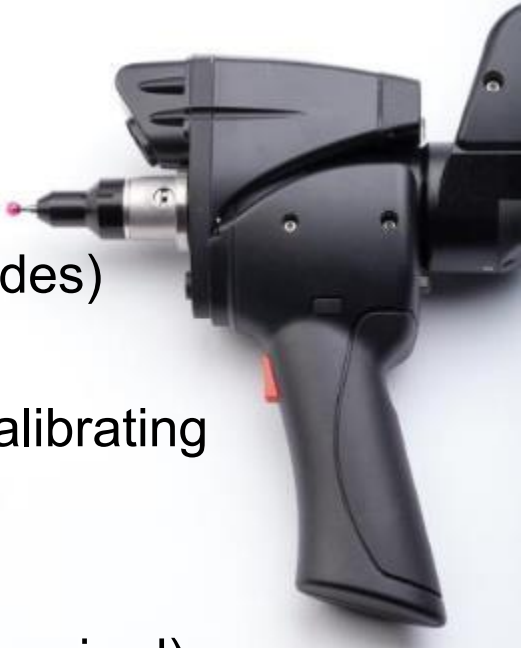


Inspection and Rev. Eng'g has never been easier.

The New ROMER – Highly Advanced RS2 Integrated Scanner

Standard on RA73 & 75 SI Arms
Optional on RA73 & 75 SE Arms

- ✓ 50,000 points/sec (1000 pts/line @ 50Hz)
- ✓ Manual and Fully Automatic Exposure Setting
- ✓ Fulltime Accuracy of 30μ (no high/low Acc. Modes)
- ✓ 150mm Standoff $\pm 50\mu$ (4" – 8")
- ✓ No need to install scanner & and waste time calibrating
- ✓ Line width at mid-field 65mm
- ✓ Class 2M eye safe laser beam.
- ✓ Thermally stable construction (No Warm-up Required)



Inspection and Rev. Eng'g has never been faster or easier.

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 **HEXAGON**
METROLOGY

The New ROMER Absolute Arm – Modular 7 axis RA73 & RA75 SE

We listened to our customers and created a 7 axis arm capable of being easily converted into an integrated scanning arm or an external scanning arm.

- ✓ Ergonomic handle
- ✓ New buttons
- ✓ Ergonomic button position
- ✓ Haptic feedback
- ✓ No female probes
- ✓ Inline hard probe



A modular/configurable arm with Sensory Feedback

The New ROMER Absolute Arm

Easy to change from SE to: an SI Arm or an SE with Ext. Scanner



- ✓ Upgrade SE with CMS108 or integrated Scanner (RS2)
- ✓ Only by Hexagon Metrology Service Center
- The Arm and Probes do not require a recalibration after change

The new ROMER Absolute Arm



- RDS 3.7 or higher required
- Product offering the same
- Product Announcement 7th April 2014
- Commercial Release 15th April 2014

CIMCORE Arms



- New wrist for 6ax and 7 ax
- Branding and color the same
- Same product offering

ROMER Arms – The RA73 & RA75: 6 Ax, SI & SE Line Up

Unique Features

- Thermally Stable Dual Tube Construction – Saves you time.
- Intelligent Quick Change Probes – Eliminates Time, Tools, Guesswork.
- Ergonomic 6ax Wrist Design – Only Arm conforming to the Human Hand.
- Zero- G Counter Balance – Improves Accuracy, Repeatability & Time.
- Sensory Feedback – A must in shop and manufacturing environments.
 - Haptic Device in our Wrists
 - Camera, sound and worklight
- Fully integrated Laser Scanner – No Warm-up or Calibration time req'd
- Modular 7 axis with Haptic feedback – Buy now upgrade later.
- Arm sizes from 1.5m to 4.5m
- LOK Features – Allows shorter High Accuracy Arms to measure Large Volume without accumulating inaccuracies.

Capabilities you have to see and feel to believe
Features you need in today's competitive Mfg. environment



6 axis



7 axis SI



7 axis SE

Product Update and News

New TUBE Probes

- New design - Re-Branding
- Same Size and measuring volume
- T-Bar and Z- Bar
- Calibrated and Certified System Accuracy



Tube probe Size 1	Tube probe Size 2	Tube probe Size 3	Tube probe Size 4	Tube probe Size 5	Tube probe Size 6
0.1 mm	0.1 mm	0.1 mm	0.1 mm	0.1 mm	0.1 mm
Arm volumetric accuracy + 0.1mm					



THANK YOU

www.hexagonmetrology.com