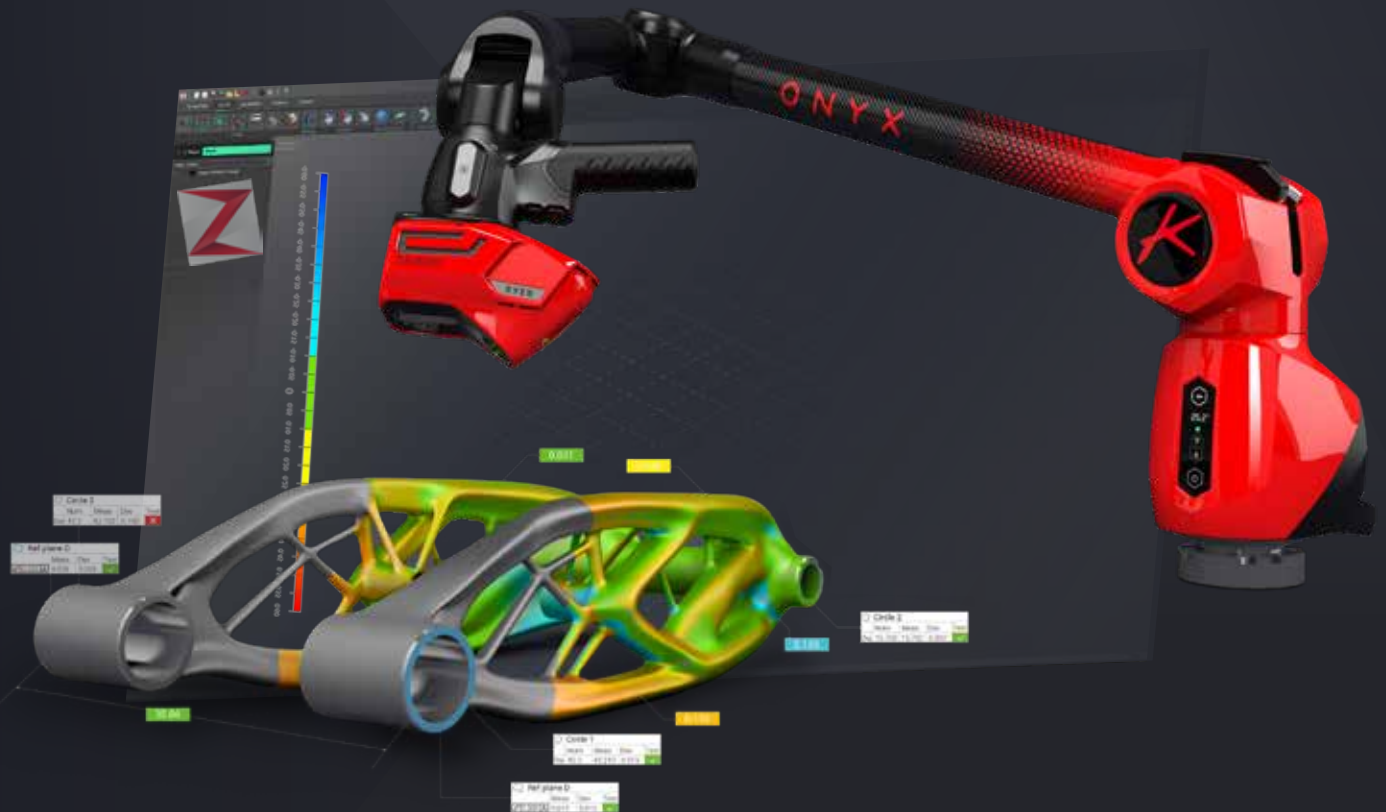


PORTABLE CMM ARM

A QUICK BUYER'S GUIDE



Why do you need a portable CMM arm?

Today's industrial environment demands both accuracy and agility to meet strict quality standards.

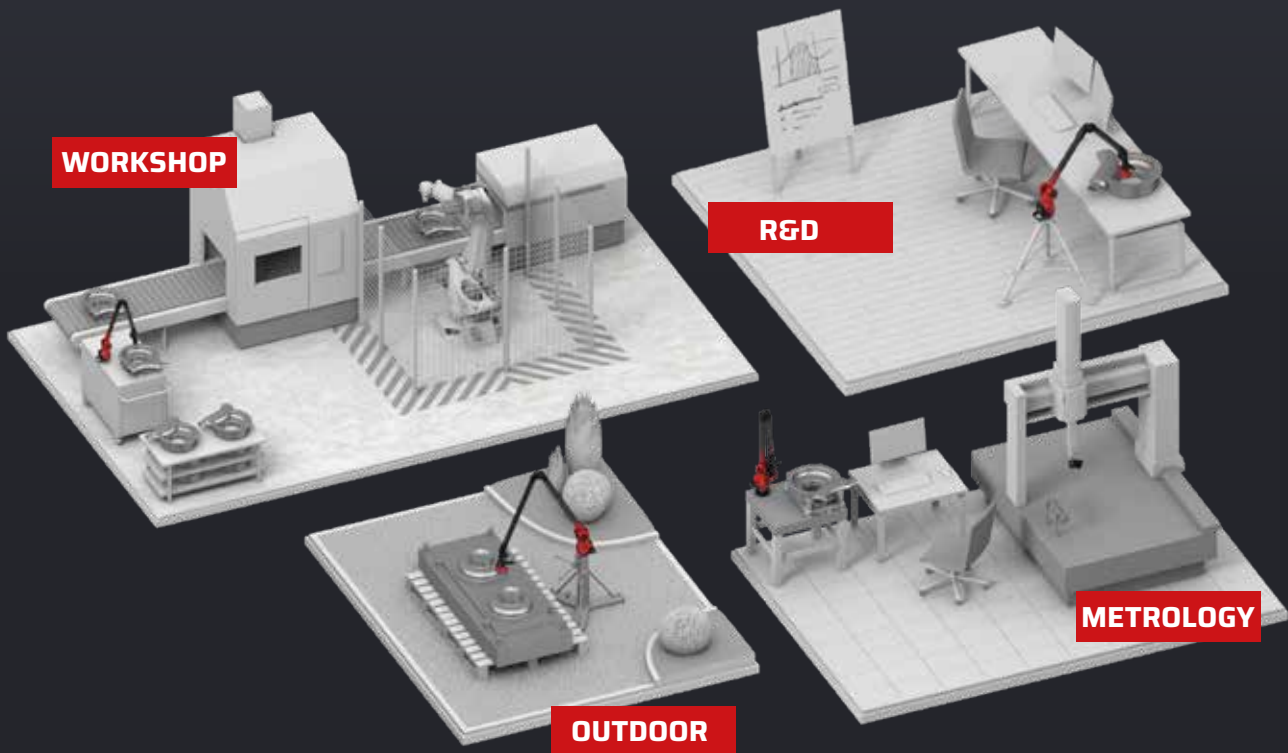
Manufacturers require measurement tools that adapt to their workflow, enabling flexible and reliable inspections directly on the shop floor.

How does a portable CMM arm enhance manufacturing workflows?

Portable CMM arms are articulated systems designed for precise measurements using contact probes or non-contact 3D scanners.

Measuring arms offer various benefits:

- ▶ Higher mobility in different environments (design office, metrology room, or workshop).
- ▶ Deliver versatility for applications such as quality control, 3D inspection, reverse engineering, maintenance, and rapid prototyping.



They are also called multi-joint arms and portable CMMs. They get as close as possible to the parts to be measured and can be integrated into the design and manufacturing processes without interrupting them.

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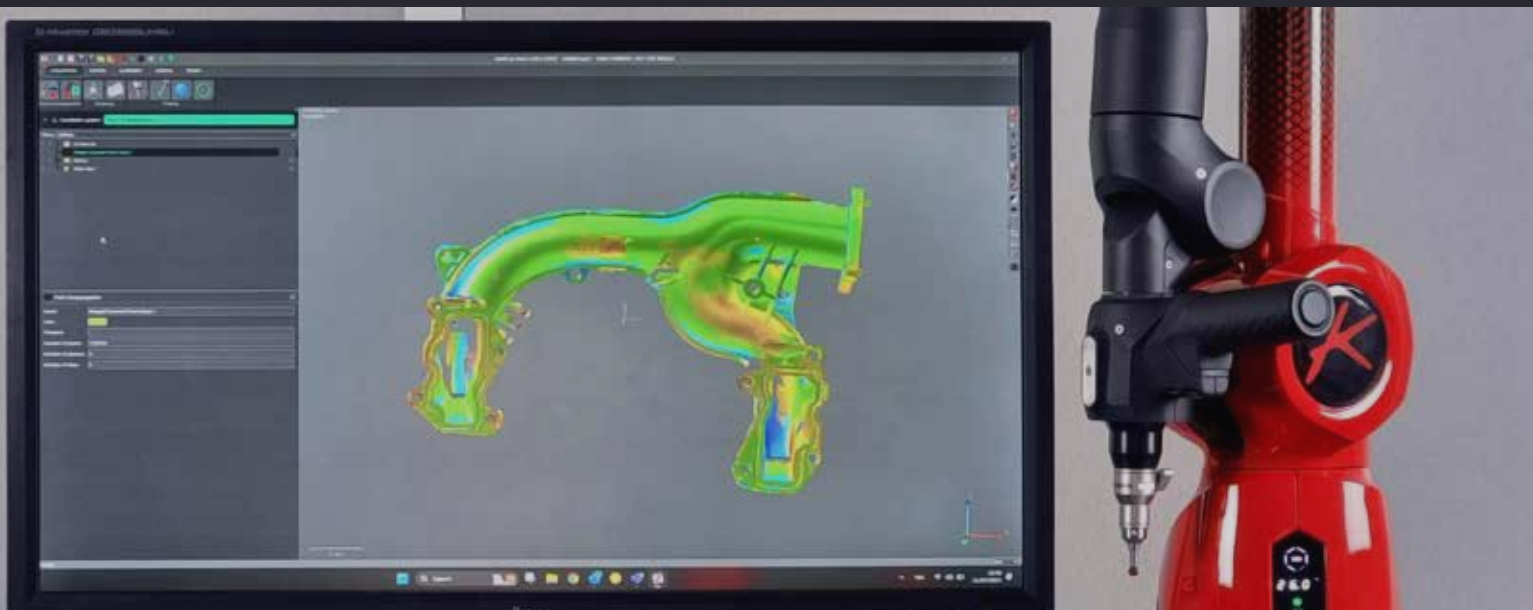
| Who can benefit from this quick guide?

For both first-time buyers and experienced professionals seeking to gain a deeper understanding of the features and options available in portable CMM arms.

3D portable systems differ significantly in capabilities, and focusing only on price can overlook various other aspects.

For this reason, selecting a portable CMM should be based on:

- ▶ Overall performance and long-term value.
- ▶ Key factors such as accuracy, durability, ergonomics, and upgrade potential.



ROI on measuring arm is higher than its upfront cost in the long-term.



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| Ensure arm accuracy

The accuracy of an arm also depends on the size parameter, whereby the smaller the arm, the more accurate it is.

The 6-axis arm is the most accurate and is intended to perform probing operations with high precision.

The 7-axis version is a little less accurate but offers easy and effortless non-contact 3D inspection.

It's important to compare arm specifications carefully to determine whether the system meets the accuracy requirements of your application.



| Understand encoders

- ▶ An important criterion for the final accuracy of the arm.
- ▶ High-resolution encoders give the highest accuracy to Kreon arms.



All Kreon portable arms are tested in accordance with the ISO 10360-12 standard to verify the calibration and thus guarantee the measurement uncertainty.

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| Check for operator comfort

Because a portable CMM arm is used manually, operator comfort plays a key role in achieving accurate, consistent measurements.

For firsthand experience, we always recommend trying a demonstration to discover the smooth, intuitive operation of Kreon's 3D measurement solutions.



Lightweight and counterbalanced

for effortless long measurement sessions.

**KREON
DESIGNS
ITS ARMS
TO BE**



**Agile across
all axes**

Infinite rotation axes offer immense freedom of movement.

**Ergonomy
Simplicity
Easy of use**

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Portable arm buyer's checklist: what to compare

EVALUATION CRITERIA	KREON ARMS	ALTERNATIVE
Is volumetric accuracy verified?	Yes, using certified length standards across the full measurement volume.	
Is the CMM arm validated with ISO 10360-12?	Yes, with traceable methods to verify the manufacturer's specs.	
Available arm sizes to measure small to big parts	Choose from 2 m to 5m and inspect any part	
Can the arm be used wirelessly or on battery power for full mobility?	Yes. Quick setup and full mobility	
Is the arm compatible with 3D scanners? (probe and scan together)	Yes, Skyline and Zephyr III range of 3D scanners	
Is the arm compatible with universal metrology software?	Polyworks, Metrolog Geomagic, Zenith, more.	
Is the arm comfortable enough for long measurement sessions?	Yes, lightweight, removable handle and counterbalanced	
Best suited for across high tolerance industrial parts?	Yes, designed for high precision inspection.	
Does the arm maintain accuracy under workshop conditions?	Yes. Temperature compensation technology	
Does the arm require homing or warm-up time before measuring?	No. Use immediately upon startup.	
Is the system easy to transport?	Yes, supplied in a robust protective case.	
What type of technical support is available for users?	Remote assistance and on-site intervention	

Configure your own Kreon universal solution

Step 1

Choose your arm



Step 2

Choose axe version



Step 3

Choose arm size

- ▶ 2 m
- ▶ 2.5 m
- ▶ 3 m
- ▶ 3.5 m
- ▶ 4 m
- ▶ 4.5 m
- ▶ 5 m

Step 6

Choose your software



Step 5

Choose your workflow



Step 4

Choose tool to inspect



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3D MEASUREMENT HAS NEVER BEEN SO INNOVATIVE: OUR PASSION IS YOUR SUCCESS.

Kreon is a French company that manufactures high-performance 3D measurement solutions, both contact and non-contact. The measuring arms and 3D scanners developed by Kreon are the result of over 30 years of experience, and their capabilities continue to evolve.

KREON'S EXPERTISE AT YOUR SERVICE

With a rich history and in-depth knowledge dating back to the creation of our first scanner in 1993, we have honed our skills over time by working on numerous projects and tackling various challenges.

Today, we remain committed to supporting our clients in resolving or anticipating their problems. We offer increasingly high-performance solutions through constant innovation.

34 YEARS OF KNOW-HOW





60

expert distributors
around the world

Contact us for a demo
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