



MCA Articulated arms



**Full flexibility -
Portable productivity**

MCA, the Manual Coordinate measuring Arm...

The Metris MCA, Manual Coordinate measuring Arm, is a precise, reliable and comfortable portable measuring system available in a 6- or 7-axis version. It feels perfectly at home in the metrology lab as well as on the shop floor.

The MCA can be equipped with a wide range of probing systems for touch trigger measurements, continuous scanning and laser scanning. Its flexibility makes the Metris measurement arm the perfect partner for a wide range of measurement tasks.

ACCURACY FIRST

- Accuracy certified according to ISO 10360-2 or ASME B89.4.22 standard
- Temperature compensation in +5 to +40°C temperature range

MEASURE ANYWHERE

- True portable system thanks to lightweight carbon fiber and aluminum alloy components
- Different tripods supported (standard 3 1/2" x 8 interface)

ERGONOMIC DESIGN

- 6- or 7-axis version designed for touch probe measurement and laser scanning measurement
- Electromagnetic brake blocks the lower segment of the arm thus partly bearing the arm weight
- Ergonomic position of all measurement buttons including brake activation button

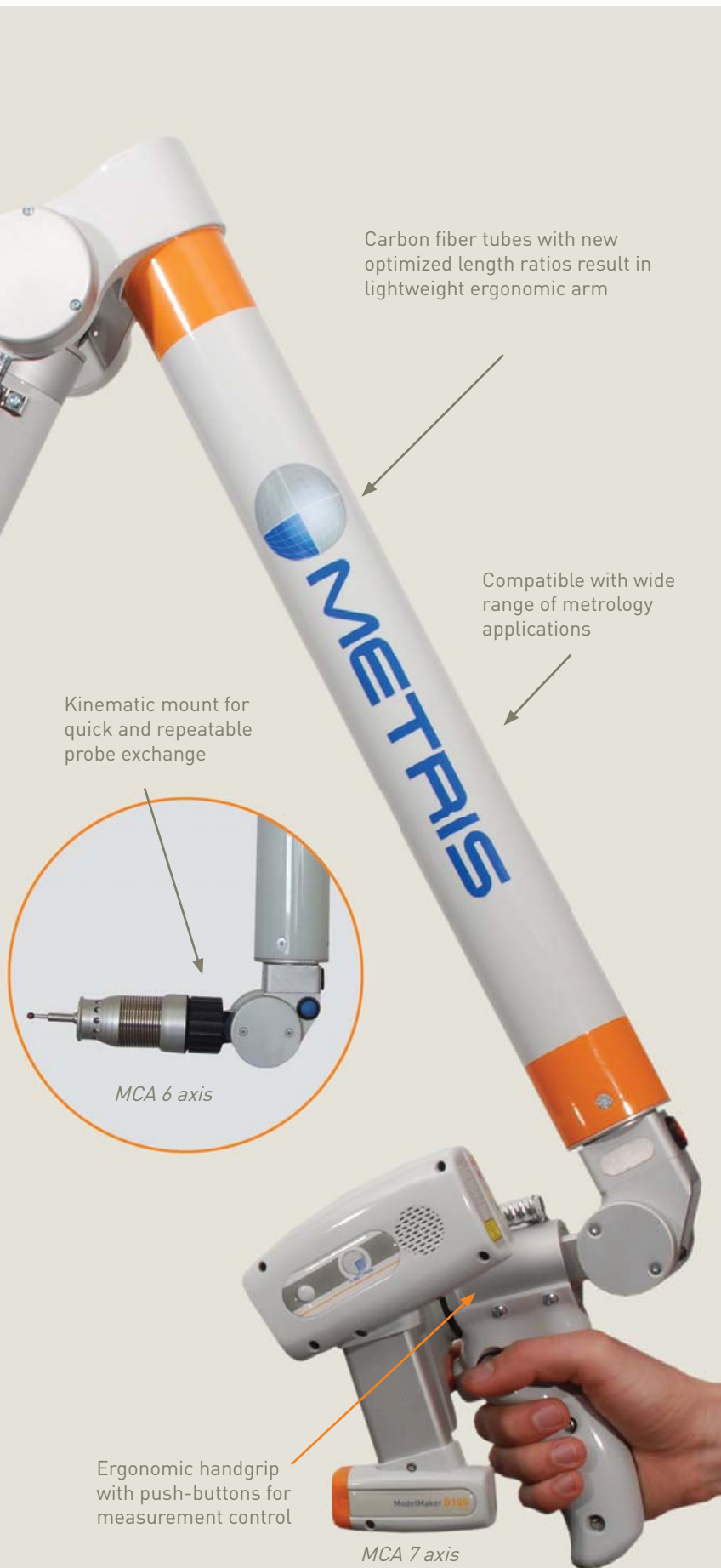


Symmetrical balancing springs for lightweight operation

Continuous temperature compensation in +5 to +40°C

Electromagnetic brake guarantees effortless handling

... with flexible probing options



FLOATING TOUCH PROBE



With Metris' floating touch probe, the user manipulates the touch probe indirectly through a spring coil mounted around the probe. Red and green colored LEDs provide visual feedback on the contact force applied, resulting in highly accurate and repeatable measurements. The floating touch probe supports both touch trigger and continuous scanning measurement. As an option, a Renishaw LP2 probe can be used.

POWERFUL LASER SCANNER



The Metris ModelMaker D/C digital laser scanners are ideally configured with the 7-axis MCA version and provide a detailed digital representation of the test object in minimum time. Laser scanning is ideally suited for reverse engineering, part-to-CAD comparison and inspection of soft or fragile components.

To suit every application the users can choose between 50mm stripe width for maximum accuracy, 100mm and 200mm stripe width for maximum productivity. ModelMaker scanners can digitize nearly all materials through Enhanced Sensor Performance (ESP2) and scan up to 80 stripes per second streaming directly to laptop.



Arm specifications

The MCA comes in a 6-axis and 7-axis version with two variants. The I6 and I7 variants are ideally suited for those applications where a quick verification of dimensions are needed. The M6 and M7 variants provide higher accuracy required for true metrology applications. Both variants come standard with the electromagnetic brake for optimal handling comfort, while the quick mount probe adapter facilitates the easy exchange of measurement probes.

Metrology grade MCA	Weight	Measurement diameter	Volumetric performance ¹
MCA 1800 M6	9.2kg/20.3lbs	1800mm/6ft	0.028mm/0.0011"
MCA 2400 M6	9.8kg/21.6lbs	2400mm/8ft	0.035mm/0.0014"
MCA 3000 M6	10.1kg/22.1lbs	3000mm/10ft	0.058mm/0.0023"
MCA 2400 M7	10.0kg/22.0lbs	2400mm/8ft	0.042mm/0.0016"
MCA 3000 M7	10.5kg/23.2lbs	3000mm/10ft	0.072mm/0.0028"

Industry grade MCA	Weight	Measurement diameter	Volumetric performance ¹
MCA 1800 I6	9.2kg/20.3lbs	1800mm/6ft	0.056mm/0.0022"
MCA 2400 I6	9.8kg/21.6lbs	2400mm/8ft	0.069mm/0.0027"
MCA 3000 I6	10.1kg/22.1lbs	3000mm/10ft	0.109mm/0.0043"
MCA 2400 I7	10.0kg/22.0lbs	2400mm/8ft	0.081mm/0.0032"
MCA 3000 I7	10.5kg/23.2lbs	3000mm/10ft	0.140mm/0.0055"

(1) Volumetric performance according to ASME B89.4.22-2004 standard. Indicated numbers are (Max - Min)/2 numbers.

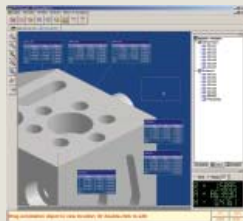
GENERAL SPECIFICATIONS

Operating temperature	5° to 40° C / 41° to 104° F
Humidity	95% non-condensing
Power supply	220/110V auto-ranging
Connection to PC	USB
Certifications	FCC Part 15 Class A Report using EN 55022 Class A test data CE compliant: EN55022 Class B, EN6100-3-2, EN61000-3-3, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, EN61010-1

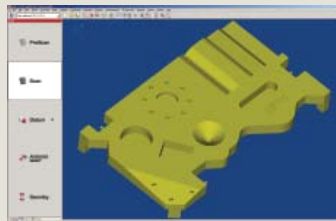
METRIS RELATED PRODUCTS



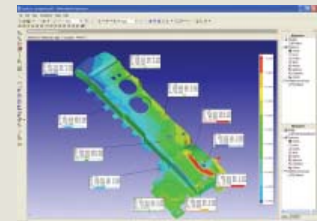
ModelMaker D/C
Digital handheld scanners



CMM-Manager
Quick, easy, smart metrology software for articulated arm probe measurements



KUBE software
Scanning & Inspection



Focus software
Advanced 3D Inspection & Reverse engineering

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