

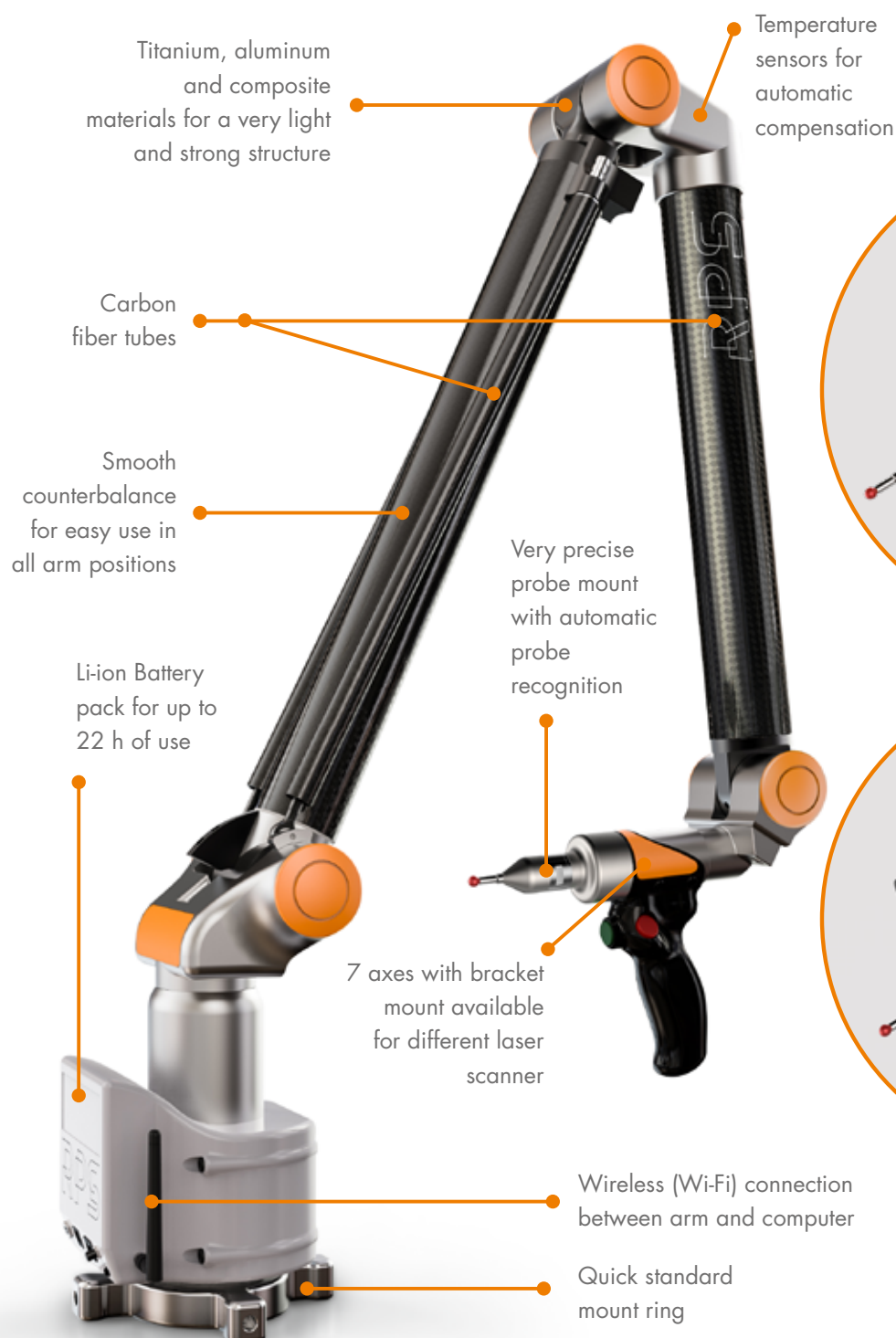
RPS

M E T R O L O G Y

YOUR
REFERENCE IN
ARTICULATED
MEASUREMENT
ARMS



Every RPS Metrology EVO and EVO-X arm is delivered with standard utility software called K-ARM. This utility software allows to diagnose the arm completely (check the accuracy, diagnose the electronics, set the probes, calibrate the probe and calibrate the arm in full). Moreover the K-Arm software, allows to connect as a driver with many software, like InnovMetric PolyWorks®, Verisurf®, 3DSystems Geomagic® and many other.



All RPS Metrology products are Made in Italy

EVO6



The RPS Metrology EVO arms are setting the standard for the new generation articulated measurement arms. It is a portable articulated arm CMM for fast and accurate 3D inspection, directly on the workshop.

EVO arm can be use from anybody and does not require long training. It has no need for calibrations or warm-up time, thanks to its **extremely reliable mechanical and electronical design**, the automatic temperature compensation and the lightweight structure.

Its made in **carbon fiber, aluminum, titanium** and other composite materials.

The **best of accuracy in portable metrology** is represented by the EVO 6 used in tactile probe configuration.

The smaller terminal axis and the buttons placed in the right way, allows to reach the parts to inspect with difficult access. The **EVO 6** is the best choice for typical inspection of mechanical parts.



EVO7

The best of flexibility in use is represented by the **EVO 7** used both in tactile probe configuration or with Laser Scanners.

EVO 7 is your choice for touch probe inspection, getting the possibility to switch to **Laser Scanning** any time you need.

Upgrade your EVO-7 to EVO-X! It's enough to attach the RPS "X" laser scanner and you get a powerful **EVO-X scanning arm**, available with **RED** or **BLUE** line laser.

With its standard quick mount (3½ inches) it can be used on portable tripods, magnetic base, or any customized mobile support, offers extreme repeatability even in the worse conditions of dust, humidity and temperature.

Portability is the key! EVO arm is a real portable measurement device: it is equipped with wireless (Wi-Fi) and Li-ion battery pack for **22 hours working time** (tactile) and 8 hours with Laser Scanners.



EVO X Articulated Measuring Arms with Laser Scanner

EVO-X is the solution of RPS Metrology for fast and accurate 3D scanning: reverse-engineering, inspection, 3D quality control

EVO-X: One equipment, two devices, one touch probe and a laser scanner. The touch probe mount is based on Renishaw autojoint allowing auto-recognition and no need of calibration. EVO-X is the product to deal with the everyday needs of many industries to deliver quickly and reliable results.

- **RED** or **BLUE** LASER
- **1280 pt/line** up to **300Hz**
- A very **high speed** and **resolution**
- Large **DOF: up to 270mm**
- **Accuracy up to 7micron**

Perfect performance in extreme conditions of use: glossy or shiny as well as deep dark colors can be scanned easily. The driver software is automatically controlling the power and exposure of the laser to adapt to the scanning material in use.

EVO-X and EVO-XR: integrated or removable scanner

Both versions are featuring the same laser scanner, however the EVO-X has a fixed integrated scanner, the EVO-XR provide a removable scanner solution based on Renishaw Autojoint mount.

EVO X



RPS METROLOGY Articulated Measurement Arms, 6 axes

EVO 6	Measuring range	Volumetric accuracy (mm)*	Tactile Repeatability (mm)*	Weight (Kg)
1.5 - 6 axes	1,5 m	0,018	0,014	7,0
2.0 - 6 axes	2,0 m	0,026	0,019	7,2
2.5 - 6 axes	2,5 m	0,036	0,022	7,5
3.0 - 6 axes	3,0 m	0,048	0,032	7,9
4.0 - 6 axes	4,0 m	0,069	0,055	8,3
5.0 - 6 axes	5,0 m	0,092	0,078	9,7
6.0 - 6 axes	6,0 m	0,125	0,105	12,0
7.0 - 6 axes	7,0 m	0,159	0,115	13,2

RPS METROLOGY Articulated Measurement Arms, 7 axes

EVO 7	Measuring range	Volumetric accuracy (mm)*	Tactile Repeatability (mm)*	Weight (Kg)
2.0 - 7 axes	2,0 m	0,034	0,025	7,8
2.5 - 7 axes	2,5 m	0,043	0,030	8,1
3.0 - 7 axes	3,0 m	0,055	0,037	8,5
4.0 - 7 axes	4,0 m	0,080	0,068	8,9
5.0 - 7 axes	5,0 m	0,119	0,085	10,6
6.0 - 7 axes	6,0 m	0,143	0,127	12,9
7.0 - 7 axes	7,0 m	0,179	0,134	14,1

RPS METROLOGY Articulated Measurement Arms, 7 axes, with Laser Scanner

EVO X-XR	Measuring range	Laser Scanning Accuracy (mm)**	Tactile Repeatability (mm)*	Weight (Kg)
2.0 - 7 axes	2,0 m	0,044	0,025	8,3
2.5 - 7 axes	2,5 m	0,053	0,030	8,6
3.0 - 7 axes	3,0 m	0,065	0,037	9,0
4.0 - 7 axes	4,0 m	0,090	0,068	9,4
5.0 - 7 axes	5,0 m	0,131	0,085	11,1
6.0 - 7 axes	6,0 m	0,155	0,127	13,4
7.0 - 7 axes	7,0 m	0,191	0,134	14,6

*We provide accuracy verification certificate according international norms as:
ASME
B89.4.22-2004;
ISO 10360/2;
VDI/VDE2617

**with 50mm laser scanner

Typically the real values obtained from the hardware are 20% better than the specification