



Fiber Carbon Scale Bar

For photogrammetry and laser trackers applications

For 5 years now, GMS has been providing carbon **Scale bars**, used in many demanding industries like aerospace, and nuclear. Carbon is one of the most stable material, thanks to a very low temperature expansion ratio, that makes it the perfect material to use for a **Scale bar**. Carbon **Scale bar**'s stability and flexibility meets the needs of our customers perfectly.



- **Scale bars** can be assembled if the length is superior to 2 meters. In this case, our mechanical mount is used to assemble the one meter bar sections, which provides very rigid connections, even with 3 meters assembled.

- Each 1 meter bar section can handle up to 4 distances, and 20 distances on a 3 meter **Scale bar** for more redundancy on Scale distances. Moreover, **Scale bars** can be used with coded targets to provide automatic labeling with 3D software.

- Round dot targets are made with precise Hubbs mask overlay, allowing very accurate calibration.



- **Our Scale bar** comes with one of the following cases: Pelicase, or GMS cases.

Specifications:

- External diameter: 40mm
- Section length: 1m
- 4 targets on each bar side
- 2 coded targets per bar section
- Brass nuts for rigid assembly
- Stainless steel bar end
- Varnish finishing
- Temp expansion ratio: $0,25\mu\text{m}/^\circ\text{C}/\text{m}$
- Up to 3 meters assembly
- Custom model manufacturing possible
- Pelicase or GMS cases available
- 6mm H7 hole on cup end section
- Laser trackers CCR mount possible
- Weight : 1750g per 1m Bar

Calibrated by agreed COFRAC laboratory or by GMS with V-STARs INCA3a system.

