



SMR - Spherically Mounted Retroreflectors

API offers a full line of targeting solutions for Laser Trackers. API's Spherically Mounted Retroreflectors (SMRs) are manufactured to the highest possible quality and feature several advantages over traditional mirror mounted targets. While other SMRs are constructed with fragile glass mirrors, API SMRs are manufactured to be more robust without sacrificing accuracy.

A Break Resistant SMR from API:

- Pays for itself the first time it is dropped, where others would be damaged.
- Can be used with any existing Laser Tracker regardless of make, model, or age.
- Improves durability and accuracy of your measurement process.

API Offers Two Types of Break Resistant SMRs:

- "Prismatic" (solid glass prism corner cube).
- "Hollow" (hollow aluminum optic with golden reflective surfaces).

Features & Benefits:

- Solid construction gives durability with accuracy.
- Accredited accuracy and calibration report (NIST traceable through ISO 17025:201).
- Compatible with any Laser Tracker system





SMR Specifications

	0.5" Diameter		0.875" Diameter	1.5" Diameter	
	Hollow	Solid	Solid	Hollow	Solid
Weight	3g	3g	32g	139g	139g
Angle/Field of View	± 20°	± 20°	± 20°	± 35°	± 35°
40m Centering Accuracy	±0.0005 inch (±12.7 µm)	±0.001 inch (±25 µm)	±0.001 inch (±25 µm)	±0.0005 inch (±12.7 µm)	±0.001 inch (±25 µm)
40m (Precision) Centering Accuracy	-	-	-	±0.0001 inch (±2.5 µm)	-
60m Centering Accuracy	-	-	-	-	±0.001 inch (±25 µm)
Sphere Roundness	Grade 50 ±0.00005 inch (±1.3 µm)	Grade 50 ±0.00005 inch (±1.3 µm)	Grade 50 ±0.00005 inch (±1.3 µm)	Grade 50 ±0.00005 inch (±1.3 µm)	Grade 50 ±0.00005 inch (±1.3 µm)



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