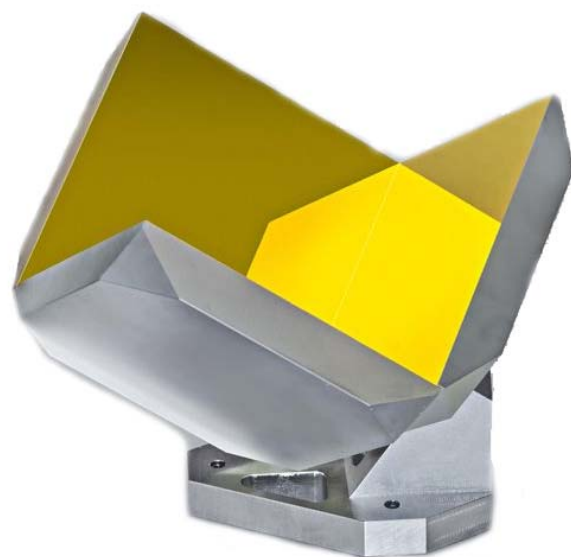


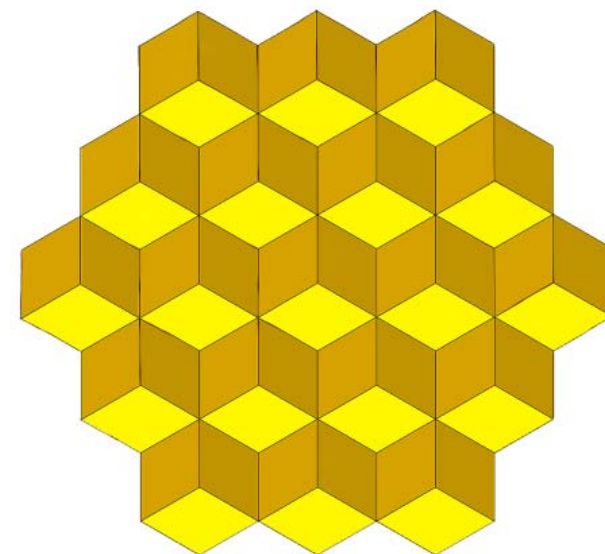
Hollow Retroreflectors and Applications



Glass Hollow Reflector
玻璃空心角锥



Metal Hollow Reflector
金属空心角锥



Hollow Reflector Arrays
拼接角锥阵列

Dr.Hongwei Jing

Sichuan Lamda Technologies Co., Ltd.

2024.10.25

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1.Introductions of Lamda

1.四川拉姆达公司简介

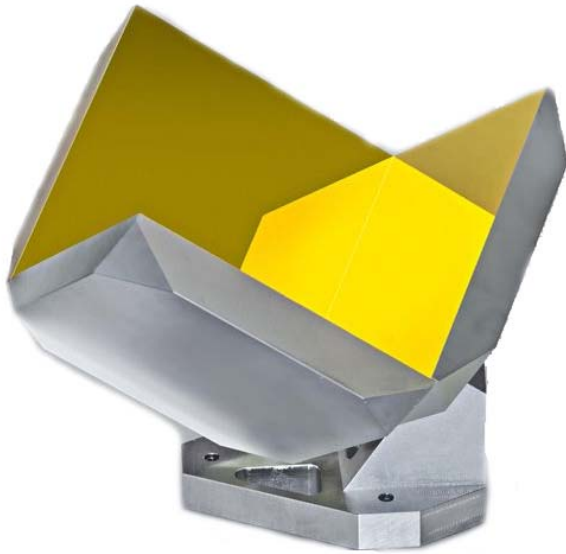
2.Applications of Hollow Reflectors

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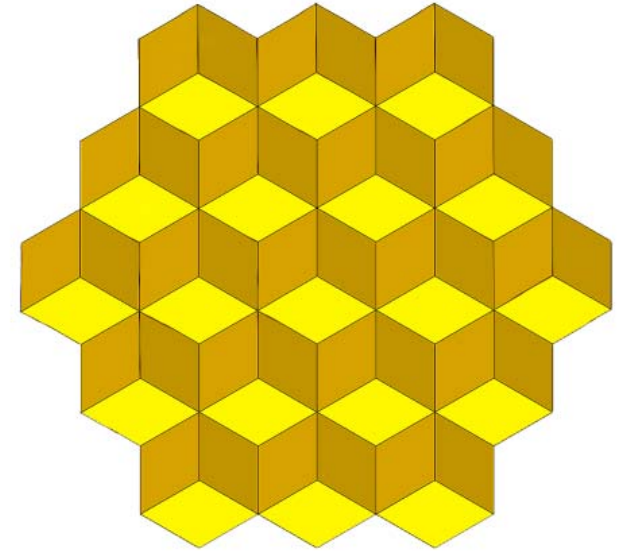
Lamda Products



Glass Hollow Reflector
玻璃空心角锥



Metal Hollow Reflector
金属空心角锥



Hollow Reflector Arrays
拼接角锥阵列

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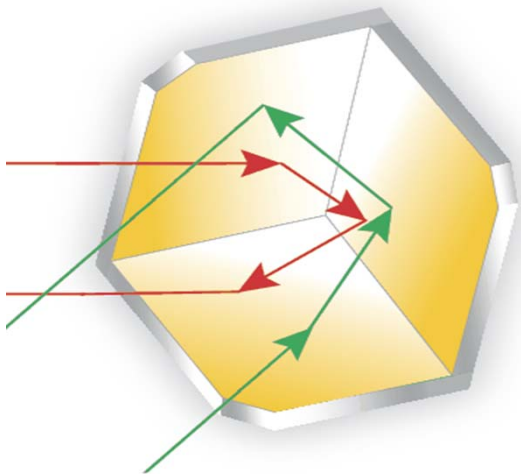
1.Introductions of Lamda

1.四川拉姆达公司简介

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Hollow Retroreflectors advantages



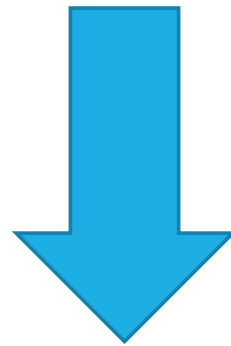
1. Very good beam deviation(0.2")
2. No Optical Path Difference
3. Hollow retroreflectors are broadband

2.1 Glass Hollow Reflector for Long Rail Range double fold

2.1 玻璃空心角锥用于长导轨倍程



Laser Interferometer Range: 80m
Long Rail Range: 50m

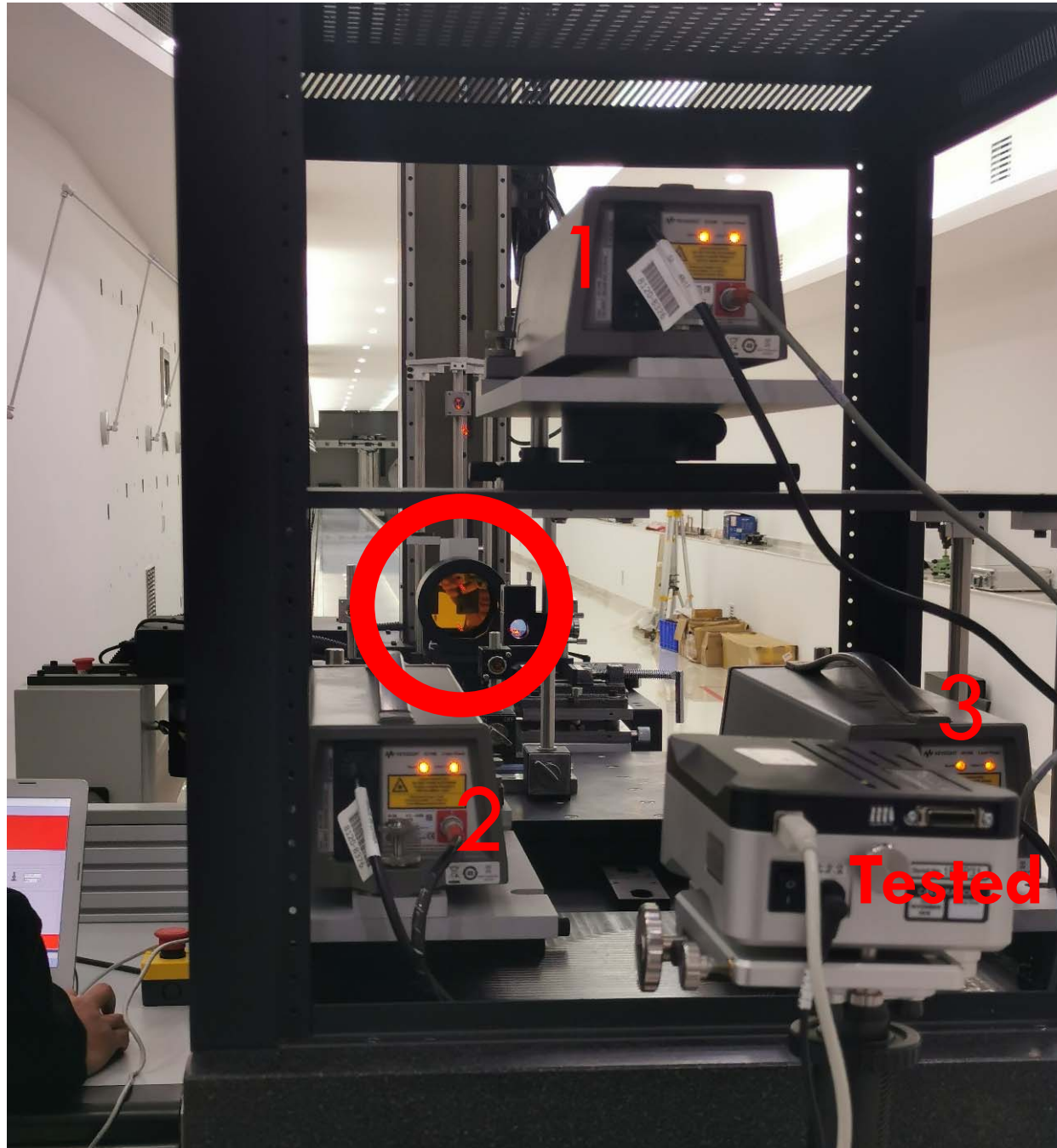


Φ 100mm

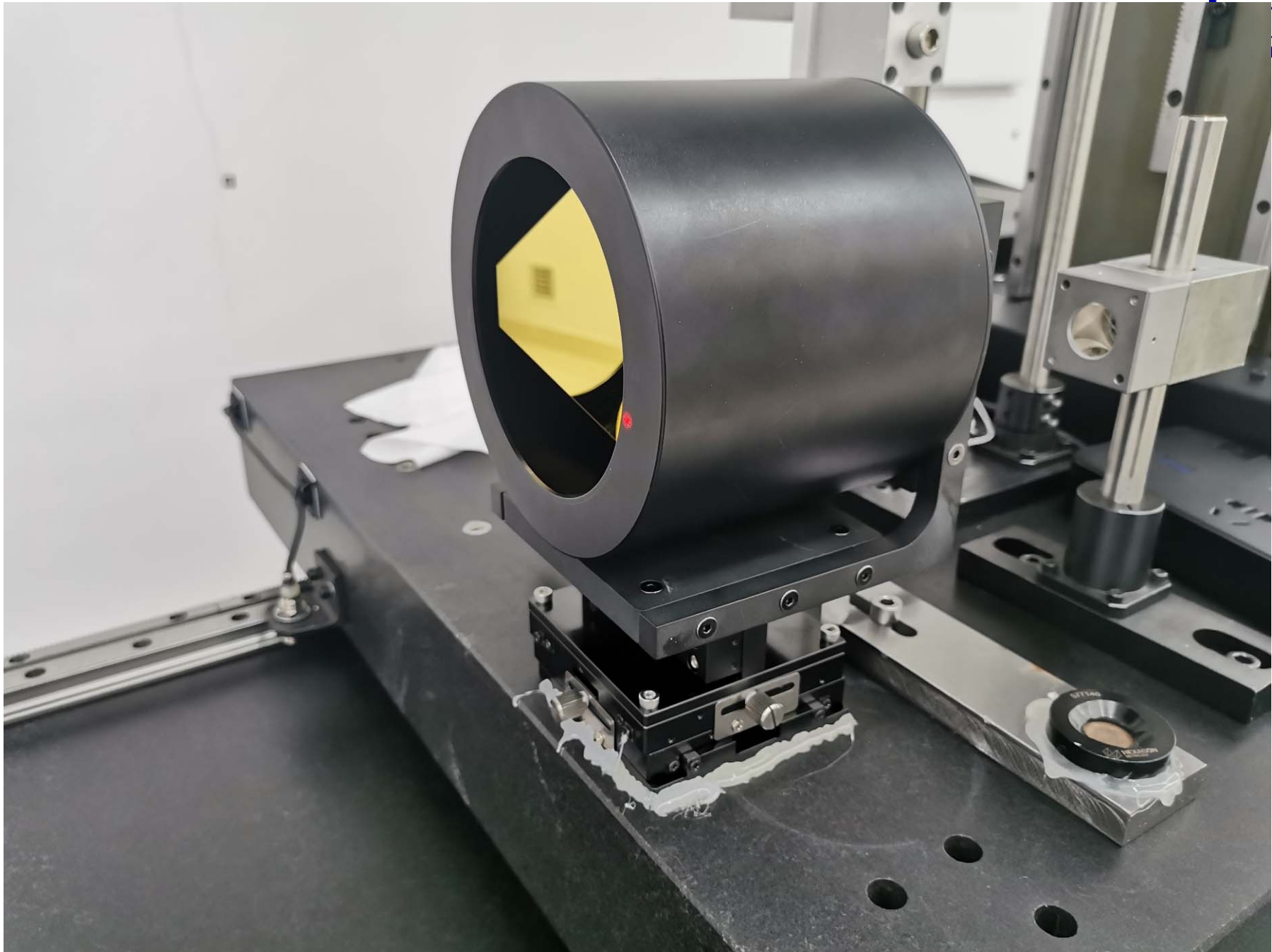
Glass Hollow Retroreflector

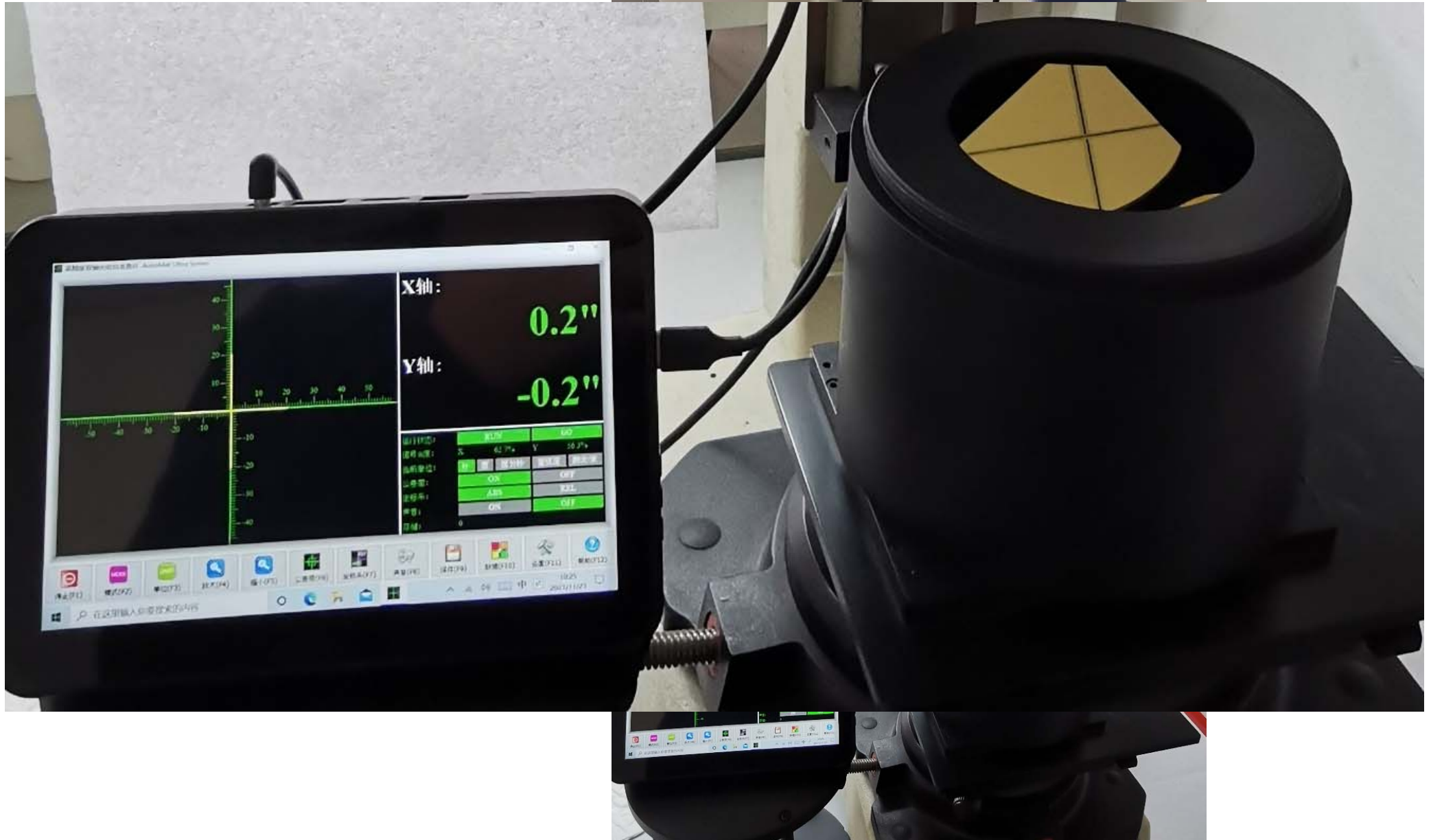


Lamda











3.3 For Long Rail Range double fold 3.3长导轨增程应用

Lamda

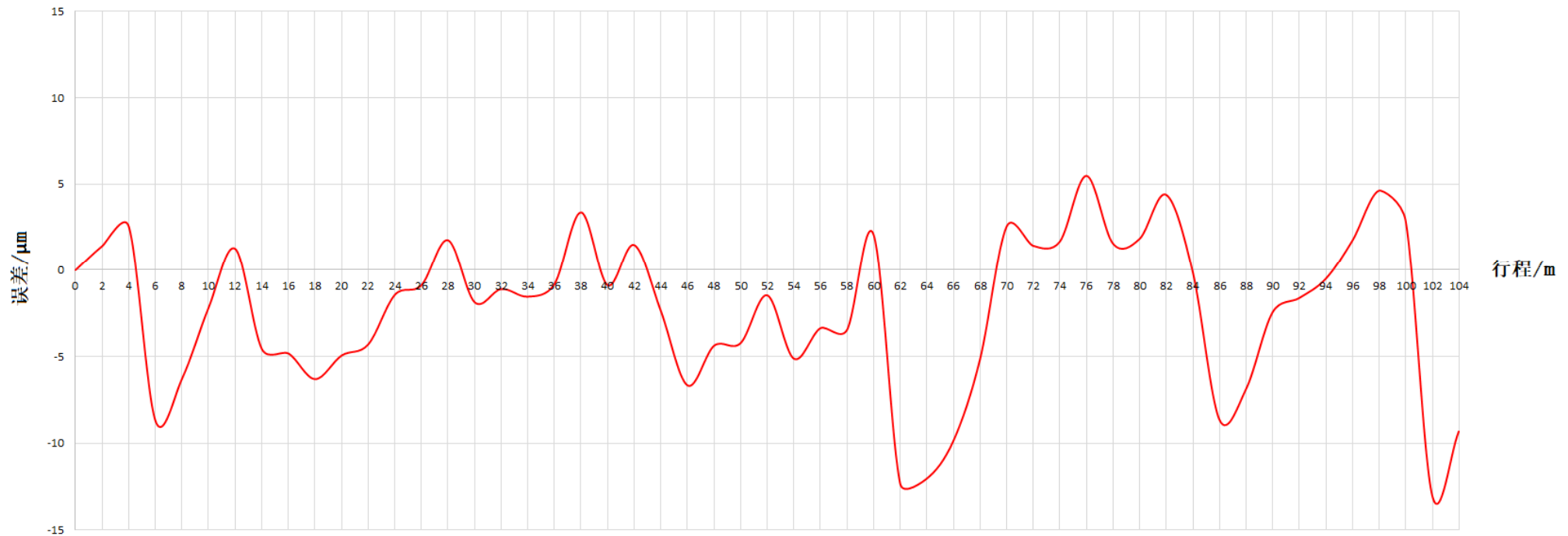


3.3 For Long Rail Range double fold



3.3长导轨增程应用

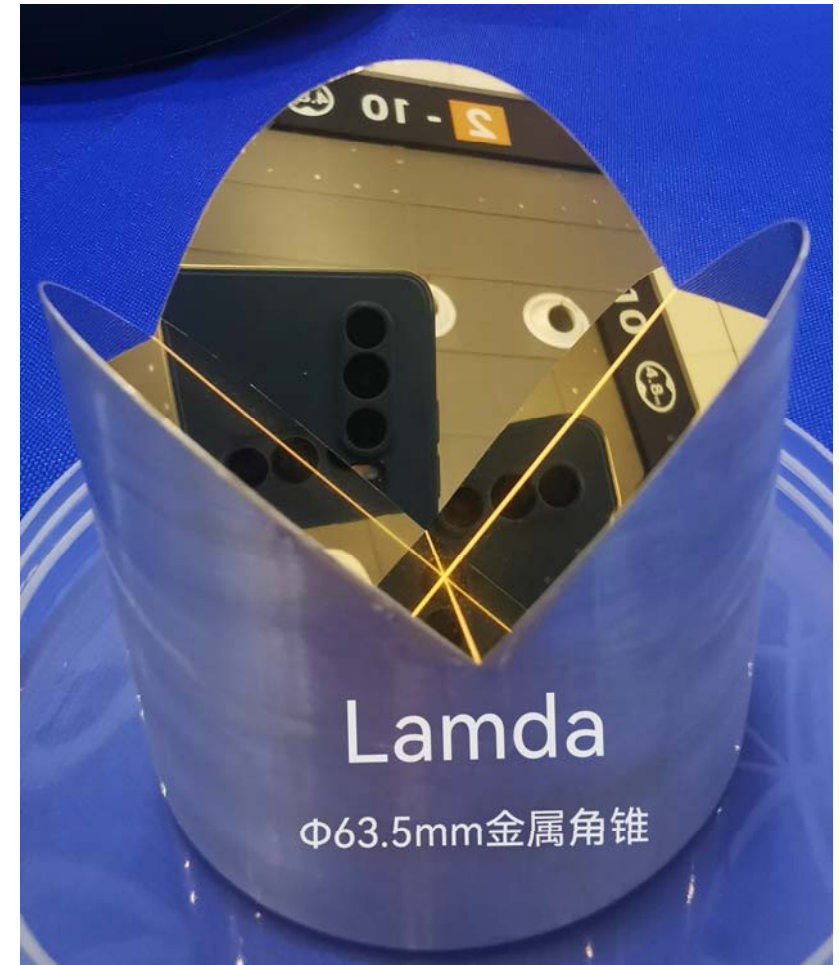
50m导轨倍程后
全行程误差：
 $\pm 0.2\text{ppm}$



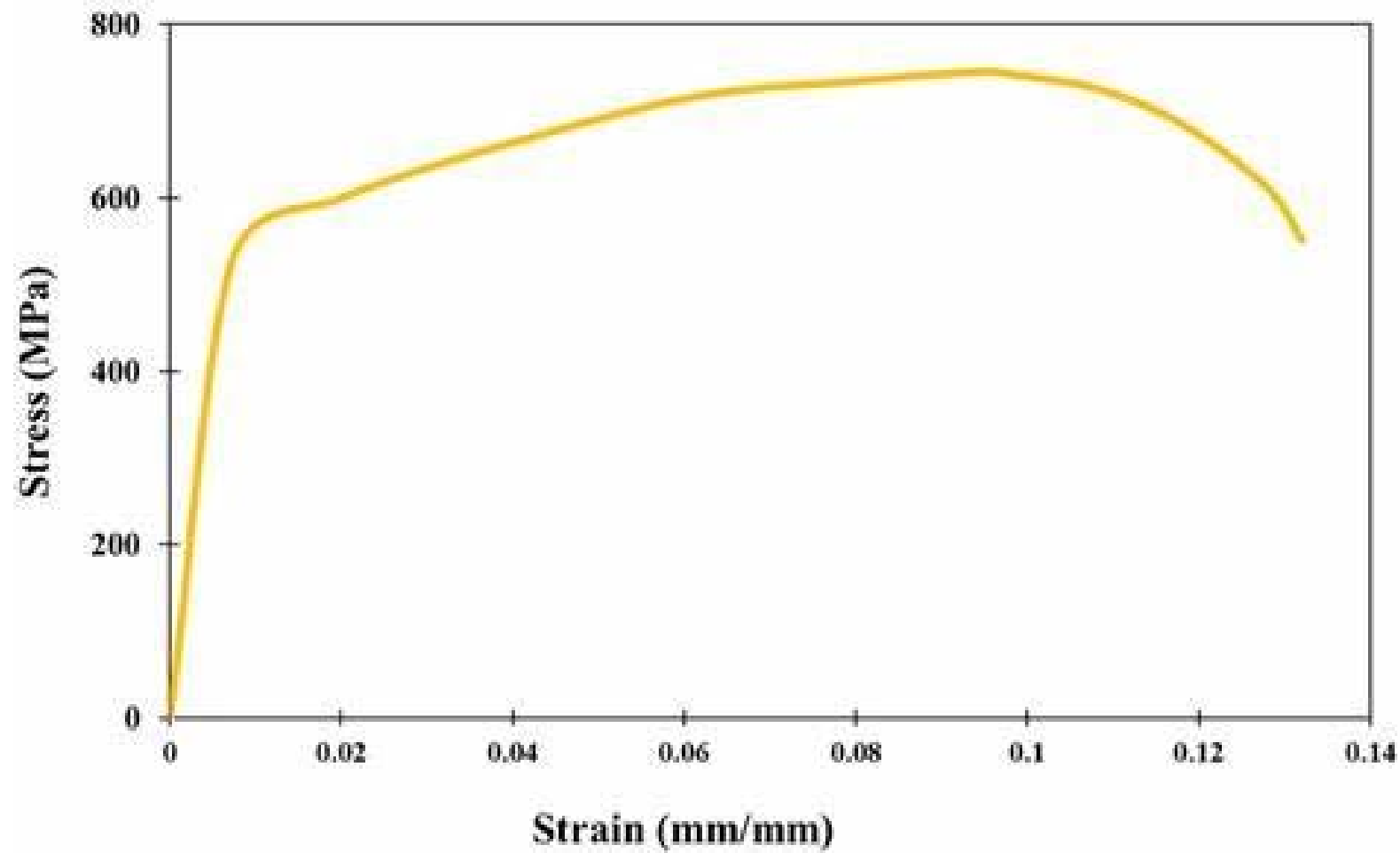
相关成果发表在：Research on Triple Distance and Triple Velocity Measurement Methods for Laser Trackers, 2024 5th International Conference on Mechatronics Technology and Intelligent Manufacturing (ICMTIM)

2.2 Metal Hollow Reflector for shock and vibration conditions

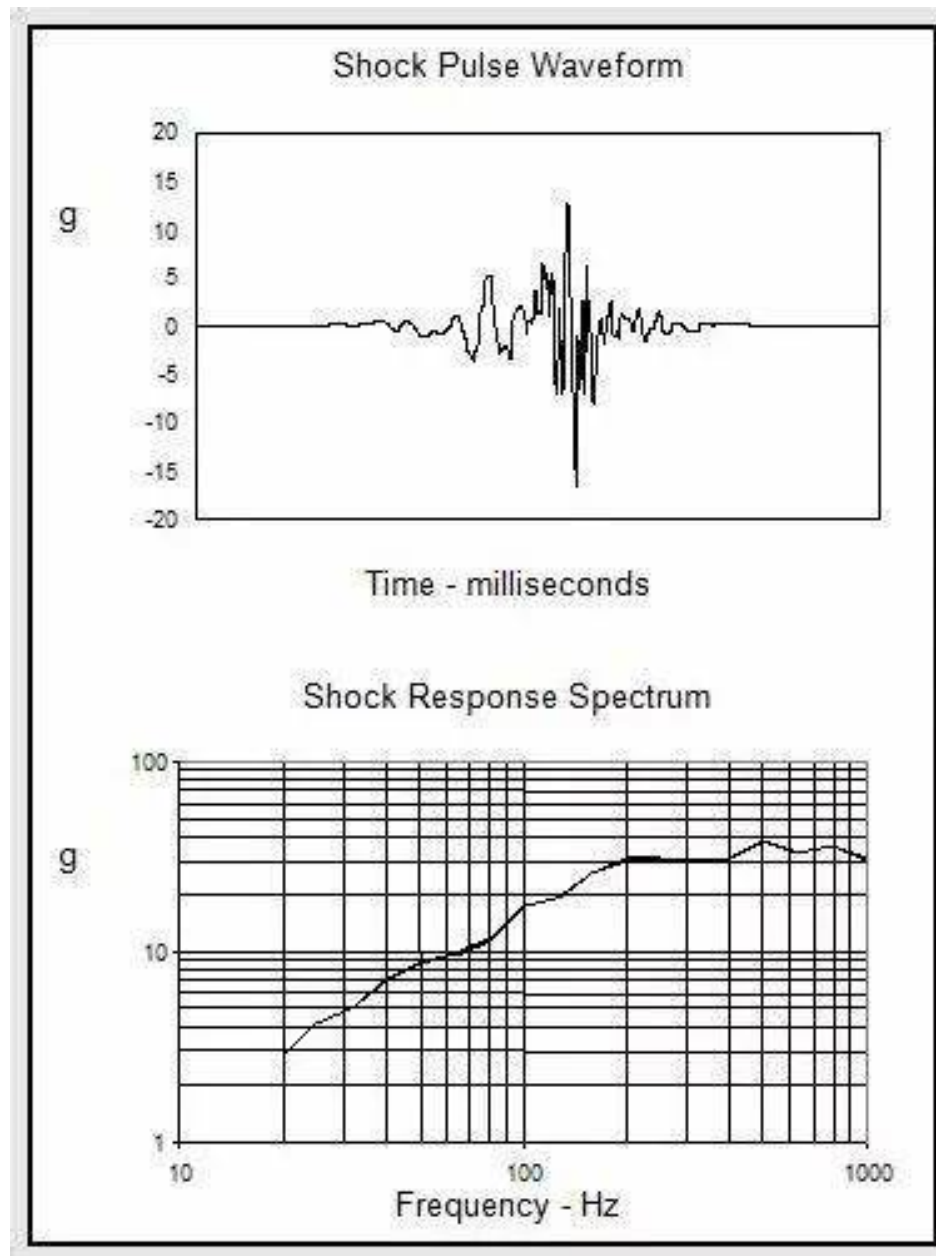
2.2 金属空心角锥用于冲击/振动环境



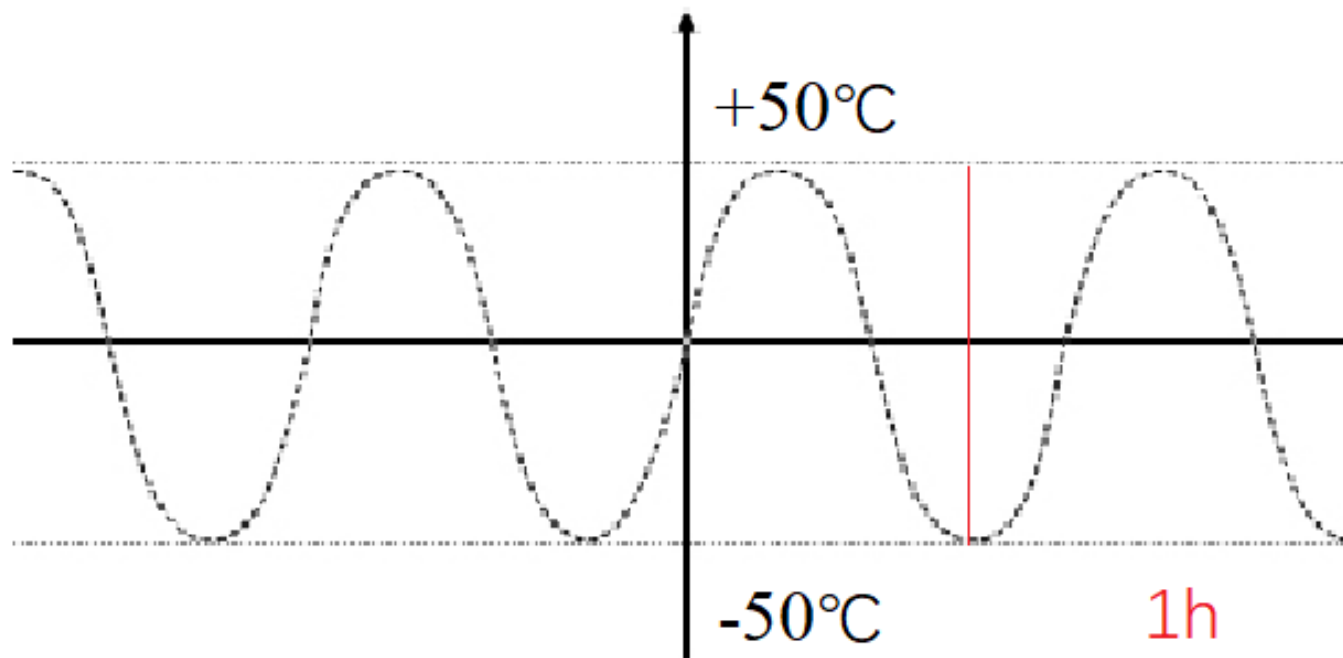
Metal Hollow Reflectors are ideal for shock and vibration conditions



Stress test of 7075 aluminum



Shock test of 7075 aluminum

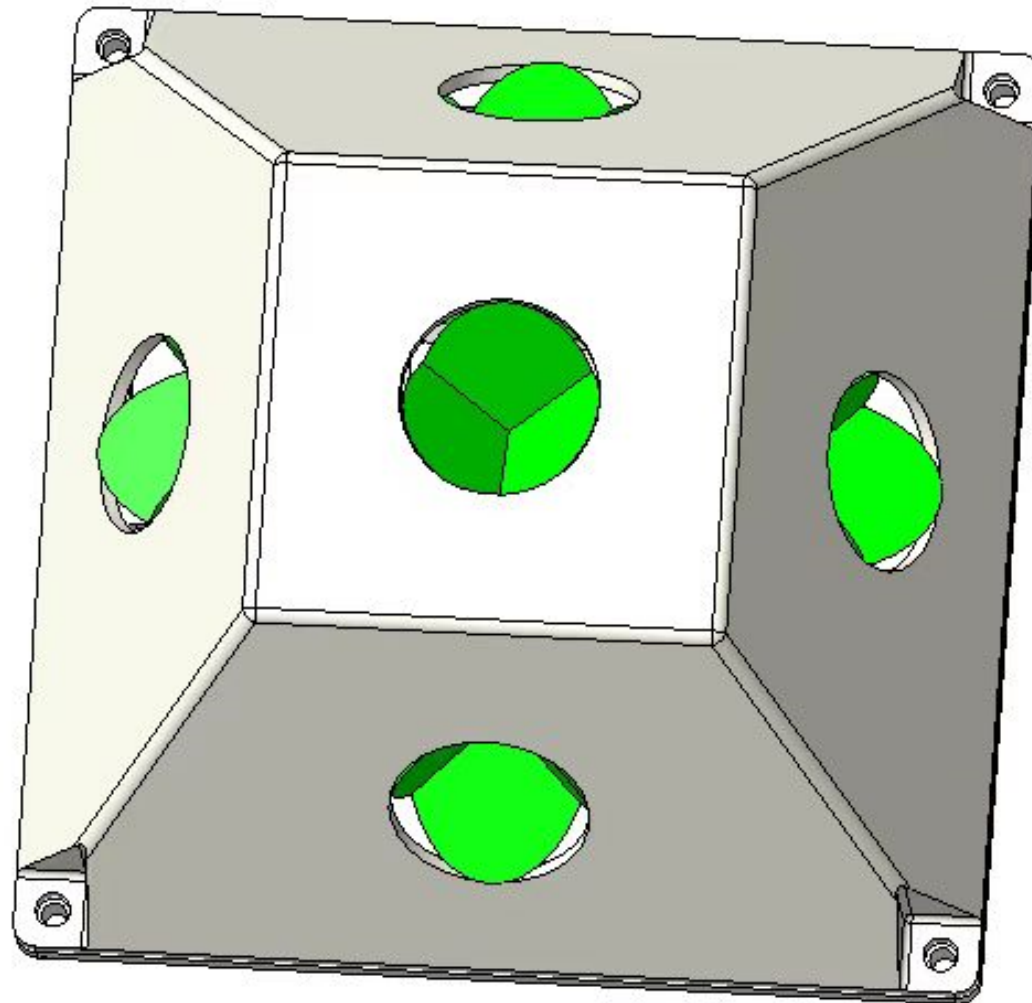


Temperature shock test of 7075 aluminum metal hollow retroreflector

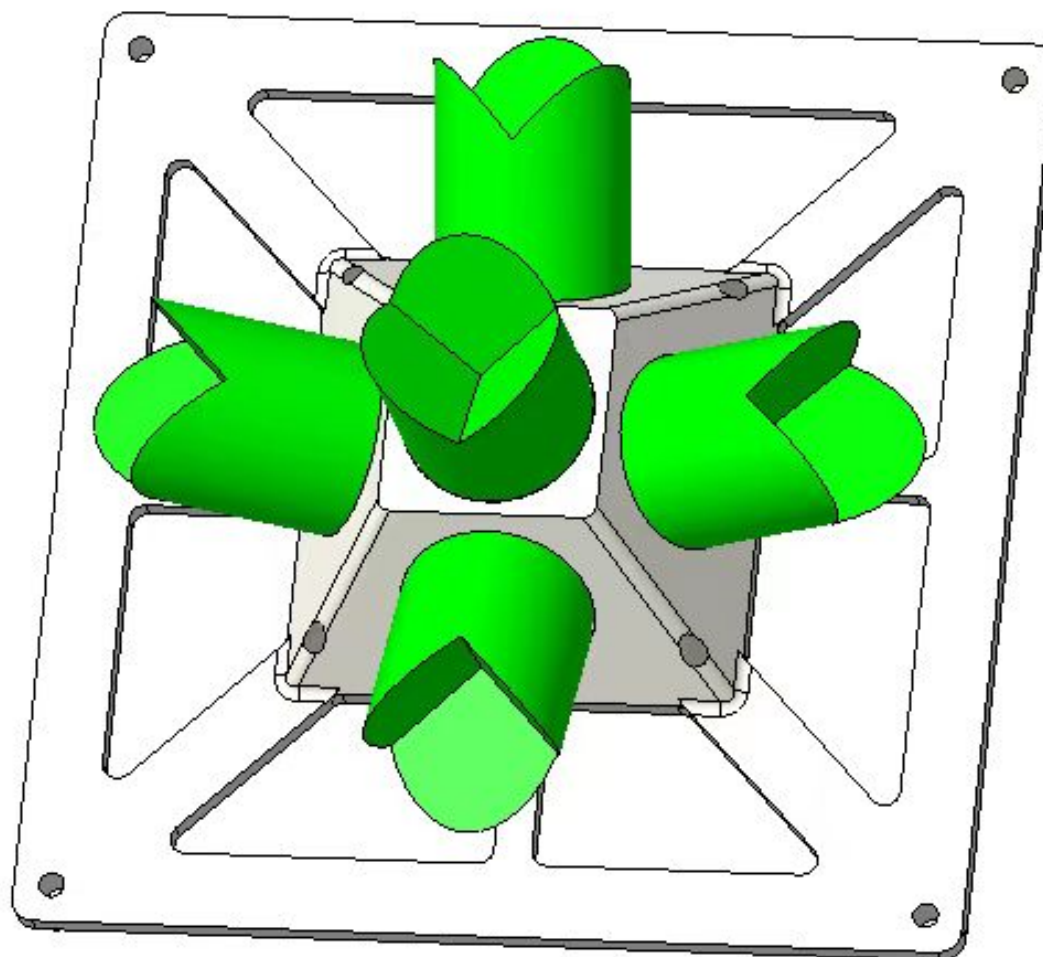
2.3 Applications of Hollow Reflector Arrays

2.3 空心角锥阵列应用

Metal hollow retroreflector array for SLR



Metal hollow retroreflector array for SLR



**THANK YOU
FOR YOUR ATTENTION**

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