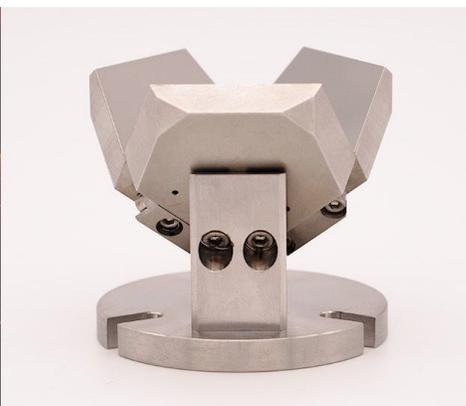
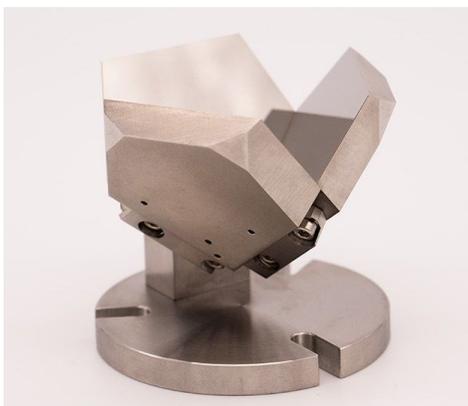
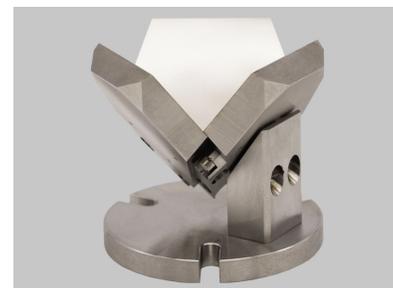


All Metal Hollow Retroreflectors™ (AMHR)

PLX's new exclusive line of all-metal hollow monolithic retroreflectors™ (AMHR) is designed to work in extreme environmental conditions, perfect for nuclear fusion applications. PLX's Patent Pending, All-Metal Hollow Retroreflectors (AMHRs) are designed to withstand high temperatures (>400°C), high magnetic fields, and high radiation. They can also withstand high vacuum conditions with no contamination and perform with exceptional shock and vibration resistance under critical operating conditions.



Key features

- Perfect for fusion research and extreme environmental conditions.
- Designed to withstand:
 - ◇ High Temperatures (>400°C)
 - ◇ High Magnetic Fields
 - ◇ High Radiation
 - ◇ High Vacuum conditions
- Extremely great shock and vibration resistant
- Can work with other metals

Specification

Substrate	Stainless Steel 316
Surface Flatness	1 λ @ 633nm
Surface Quality	80-50 Scratch-Dig
Beam Deviation	20-100 Arcsecond
Reflectivity of Stainless steel mirror	>75% @ 1μm-25μm Per Surface reflectance (avg)

The entire unit is made of metal, making it perfect for nuclear fusion applications, and ultra-harsh environments.

Additional extreme uses include volcanic monitoring, Industrial smokestack, and furnace monitoring.

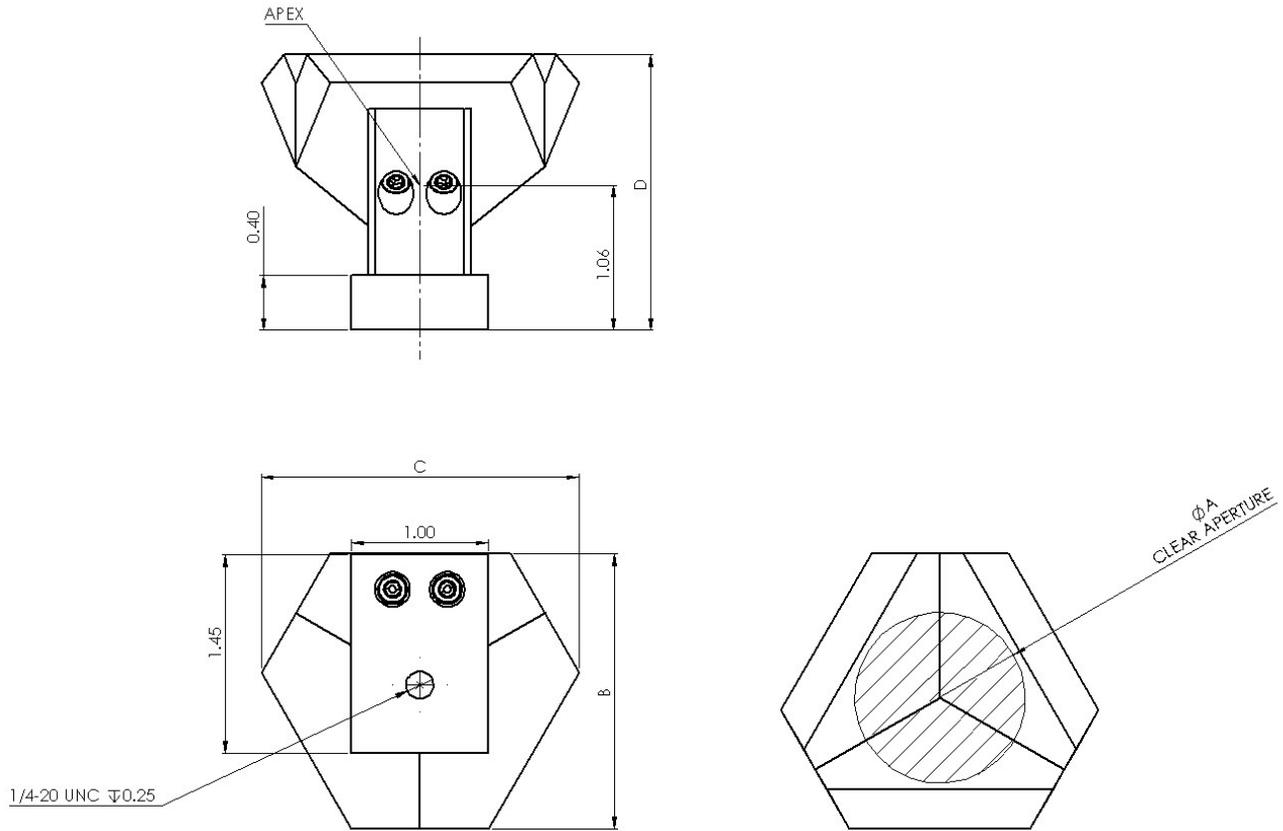
Custom configurations for specialized applications

The new AMHRs are incredibly versatile and can be configured to work with various metals, like Copper, Aluminum, Stainless Steel, and Molybdenum. Standard Clear Apertures are 1.25, 1.75 and 2 inches, but PLX engineers can create a custom configuration for your application. Standard accuracy range: 20 to 100 arc second. Higher accuracy than 20 arc second available upon customer request.

Important Notice

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Outline Drawings



Item	ΦA (in)	B(in)	C(in)	D(in)	THREAD F
AMHR-13	1.25	2.01	2.32	2.01	1/4-20
AMHR-18	1.75	2.18	2.52	2.36	1/4-20
AMHR-20	2.0	2.42	2.79	2.53	1/4-20

Order Information

AMHR-XX-XX

Clear Aperture (in/mm)			Exiting Beam Max Deviation (arc.sec.)
13: 1.25/32	18: 1.75/44	20: 2.0/51	20:20
			30:30
			60:60
			100:100

