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TECHSPEC®

25mm Dia. x 25mm



Hyperbolic Aspheric Lenses

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

Select Your Country/Region: European Union

Submit

Stock #89-431 **5 In Stock** [Other Coating Options](#)

1 €273⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-5	€273,00 each
Qty 6-25	€238,00 each
Qty 26-49	€215,00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:step
- Curve:pdf
- PDF Drawing:pdf
- IGES:igs
- Curve (xlsx):xlsx
- Zemax:zar
- Zemax:zmx
- eDrawing:eprt
- Code V:seq
- EO Spec Sheet
- [Download All](#)

General

Type: Aspheric Lens

Physical & Mechanical Properties

Diameter (mm):	25.00 +0.0/-0.1	Centering (arcmin):	≤5
Clear Aperture CA (mm):	23.00	Edge Thickness ET (mm):	1.77
Center Thickness CT (mm):	6.61 ±0.1	Bevel:	Protective as needed
Shape of Back Surface:	Convex		

Optical Properties

Effective Focal Length EFL (mm):	25.00 @ 532nm	Numerical Aperture NA:	0.50
Back Focal Length BFL (mm):	25.00	Substrate: N-BK7	
Aspheric Design Wavelength (nm):	532	Coating:	Laser V-Coat (532nm)
Coating Specification:	R _{abs} <0.25% @ 532nm	Surface Quality:	40-20
f/#:	1.00	Abbe Number (v _d):	64.17

Design Wavelength DWL (nm):	532	Index of Refraction (n_d):	1.516
Radius R₂ (mm):	12.987	Conjugate	Infinite
Focal Length Specification Wavelength (nm):	532.00		
Power (diopters):	40.00		

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Material Properties

Coefficient of Thermal Expansion CTE (10⁻⁶/°C):	7.1
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Regulatory Compliance

RoHS 2015:	Compliant	Certificate of Conformance:	View
Reach 235:	Compliant		

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

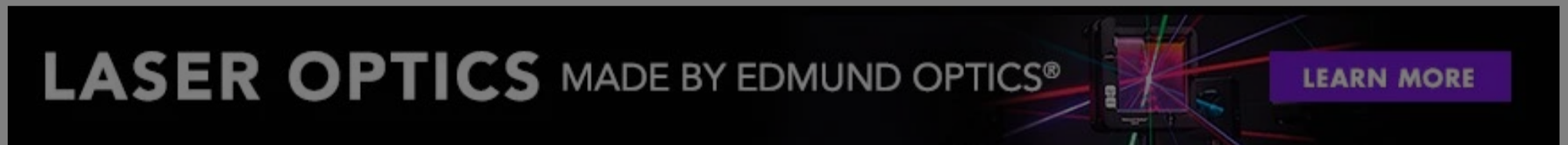
Product Details

Unlike traditional focusing lenses, these lenses should be used with the plano side facing the light source.

- Designed and Coated for Nd:YAG Laser Wavelengths
- Aspheric Figure Error of 1.6λ RMS and 6λ PV
- Modified **TECHSPEC® PCX Lenses**

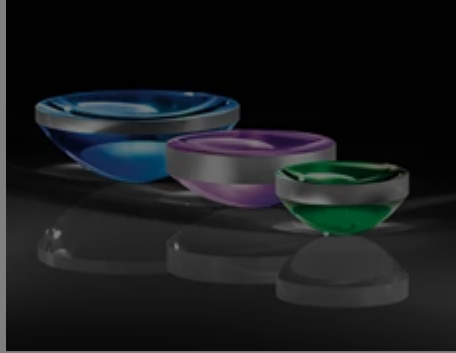
TECHSPEC® Hyperbolic Aspheric Lenses are **TECHSPEC® PCX Lenses** that have been modified to include a mild aspheric surface to provide superior performance at specified wavelengths. Unlike the preexisting spherical lenses, TECHSPEC Hyperbolic Aspheric Lenses produce diffraction-limited spot sizes at the design wavelength, which is ideal for focusing or collimating applications. Any standard lens from Edmund Optics can be modified similarly to TECHSPEC Hyperbolic Aspheric Lenses to create your ideal surface and offer a low-cost boost to performance and to provide the best solution for specific application needs.

Note: Unlike traditional focusing lenses, these lenses should be used with the plano side facing the light source.



Technical Information

Related Products



Aspheric Lenses



Lenses



Lenses



Optical Lens and Filter Mounts

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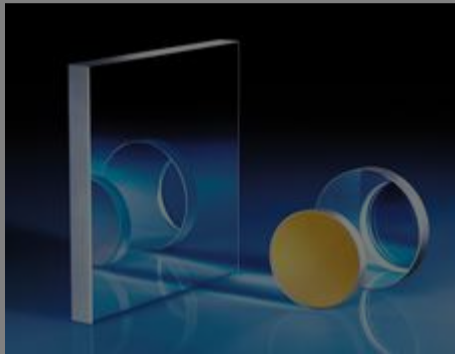
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Frequently Purchased Together



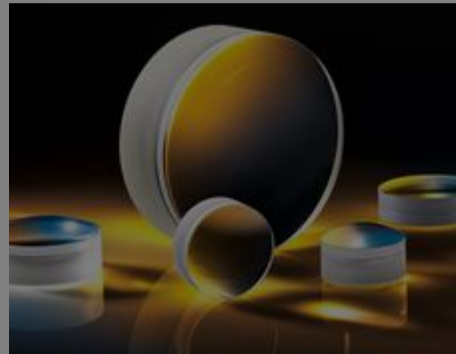
#30-229 - 23mm Dia x 40.3mm EFL
Hastings Triplet Achromatic Lens
€166,00

Qty



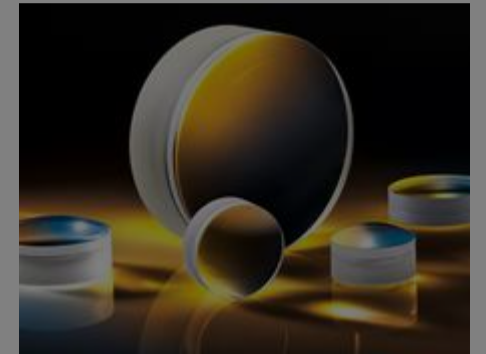
#32-940 - 5mm Dia Enhanced
Aluminum, 4-6λ Mirror
€28,50

Qty



#33-921 - 75mm Dia. x 100mm FL,
VIS 0° Coated, Achromatic Lens
€387,00

Qty











#33-922 - 75mm Dia. x 150mm FL,
VIS 0° Coated, Achromatic Lens
€387,00

Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	25.0/25.4mm Optic Dia., SM1 Thin Mount, M4	Fixed		#13-787	€21,00 Request Quote	4 In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., SM1 Thin Mount, 8-32	Fixed		#13-788	€21,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	25.0mm Optic Dia., Optic Mount	Fixed		#64-560	€32,75 Request Quote	CONTACT US <input type="text" value="1"/>
	25mm Thin Inner Single Optic Mount	Fixed		#38-755	€41,00 Request Quote	14 In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., L-Slot Direct Mount	Fixed		#36-410	€68,00 Request Quote	15 In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., Side Flange Direct Mount	Fixed		#36-414	€71,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	25mm Thin Inner Pair Optic Mounts	Fixed		#11-052	€80,50 Request Quote	3 In Stock <input type="text" value="1"/>
	25mm Thick Inner Pair Optic Mounts	Fixed		#11-054	€80,50 Request Quote	5 In Stock <input type="text" value="1"/>
	25/25.4mm Diameter, C-Mount Thin Optic Mount	Fixed		#56-353	€99,00 Request Quote	20+ In Stock <input type="text" value="1"/>

	Title	Type	Compare	Stock Number	Price	Buy
MORE+	 25.0/25.4mm Optic Dia., X-Y-Z and Rotational Mount				€102,00	5 In Stock <input type="text" value="1"/> 
MORE+	 25.0/25.4mm Optic Dia., Translating Mount					CONTACT US <input type="text" value="1"/> 
MORE+	 25.0/25.4mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-959	€540,00 Request Quote	6 In Stock <input type="text" value="1"/> 
MORE+	 25.0/25.4mm Optic Dia., 5 Axes Optical Mount	Adjustable - Linear (XYZ) & Tip-Tilt		#13-776	€755,00 Request Quote	2 In Stock <input type="text" value="1"/> 

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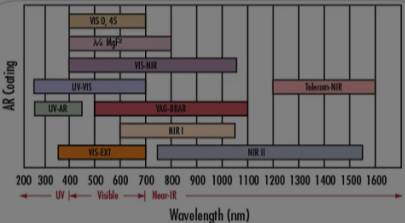
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Check out our full selection of mounts [here](#).

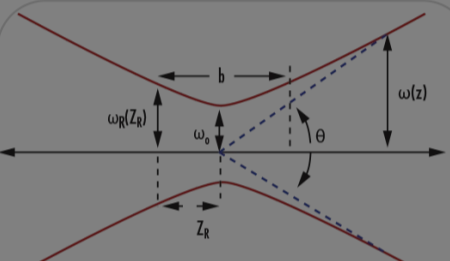
Resources

Media Type

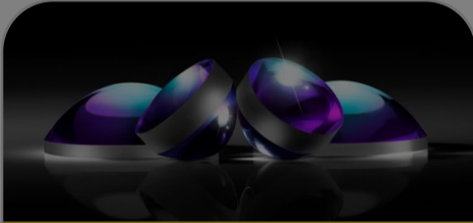
- Application Note
- Technical Tool
- Glossary
- Video
- Scientific Paper
- Trending in Optics
- Published Article
- FAQ




APPLICATION NOTE
Anti-Reflection (AR) Coatings



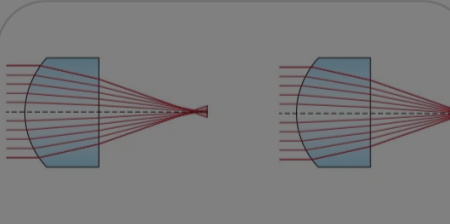
TECHNICAL TOOL
Gaussian Beams Calculator



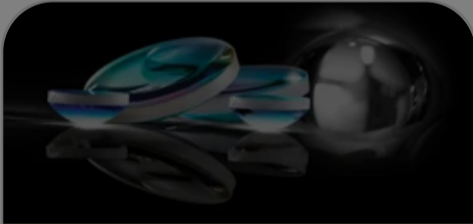
APPLICATION NOTE
Lens Geometry Performance Comparison



CASE STUDIES
Laser Optics for Eye Surgery



APPLICATION NOTE
All About Aspheric Lenses



WEBINARS
Design Considerations for Custom Aspheres

[View More](#)

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