

COMPANY ENCODERS OPTICS/COATINGS INSTRUMENTS HYDRO EQUIPMENT CONTACT US

OPTICAL COMPONENTS

In addition to our Optographics capabilities, Gurley offers a wide variety of high quality optical materials and optical components, at prices that are second to none.

GPI has the ability to supply standard, precision and custom designed components that may be fabricated from fused silica, crystal quartz, optical crystals, acrylics and metals. **Gurley Precision Instruments**

514 Fulton Street Troy, NY 12180

518.272.6300

800.759.1844

With over 50 years experience in the optical industry, GPI has the knowledge, dedication and service you need to get the job done.

Gurley's Optics Division aims to be the lowest cost, high quality option for a number of different types of optical components. With US, European, and Asian manufacturing, we're able to make custom parts as well as duplicate off-the-shelf parts with the highest quality and lowest prices on the market.

- US Quality Control for all parts
- Vendor managed inventory
- First Article Inspection Reports for all new parts
- Just-in-time delivery



Lenses - from several inches to a few millimeters in diameter

Plano Convex, Plano Concave,
Bi-Convex, Bi-Concave,
Positive and Negative
Meniscus, Achromatic Doublet
& Triplet, Cylindrical, and
Unique Camera Lenses

ere, just ask! Spherical, asphe	erica	l, achromats, cylind	Iriacl, ball, rod, micro	blens	ses, and more. Fror	n UV to IR we can manufa	cture	lens solutions a	cross the spectrum
Sphericals		Asp	eric		Achromatic Doublets			Cylindrical/Rod Lenses	
Plano Convex, Plano Concave, Double Convex, Double Concave, Positive and Negative Meniscus		Types:	Dimond Turned, Molded - Plano Convex, Double Convex		Types:	Plano Convex, Negative Achromats, Positive Achromats		Types:	Plano Convex, Plano Concave, Rod Lenses
N-BK7, Fused Silica, CaF2, ZnSe, Silicon, Borofloat, Sapphire, H- K9L, ect.		Typical Materials:	N-BK7, H-K9L, Fused Silica, B270, Plastics, ext.		Typical Material Combinations:	N-SF10 + N-BAF10, N-BaK4 + N-SF10, N-BK7 + N-SF5, ext.		Typical Materials:	N-BK7, H-K9L, Fused Silica, SF1 ext.
	Sphericals Plano Convex, Plano Concave, Double Concave, Positive and Negative Meniscus N-BK7, Fused Silica, CaF2, ArSe, Silicon, Borofloat, Sapphire, H-	Sphericals Plano Convex, Plano Concave, Double Concave, Positive and Negative Meniscus N-BK7, Fused Silica, CaF2, TaSe, Silicon, Borofloat, Sapphire, H-	Sphericals Asp Plano Convex, Plano Concave, Double Convex, Double Concave, Positive and Negative Meniscus Types: N-BK7, Fused Silica, CaF2, ZnSe, Silicon, Borofloat, Sapphire, H- Typical Materials:	re, just askl Spherical, aspherical, achromats, cylindriacl, ball, rod, micro Sphericals Aspheric Plano Convex, Plano Concave, Double Convex, Double Convex, Double Convex, Ditte and Negative Meniscus N-BK7, Fused Silica, CaF2, ZnSe, Silicon, Bordioat, Spaphire, H- Sportlant, Spaphire, H- Sportlant, Spaphire, H-	re, just askl Spherical, aspherical, achromats, cylindriacl, ball, rod, microlens Sphericals Plano Convex, Plano Concave, Double Convex, C	Sphericals Aspheric Achron Plano Convex, Plano Concave, Double Convex, Convex,	Spherical, aspherical, achromats, cylindriacl, ball, rod, microlenses, and more. From UV to IR we can manufate the spherical spherica	Spherical, aspherical, achromats, cylindriacl, ball, rod, microlenses, and more. From UV to IR we can manufacture Sphericals Aspheric Achromatic Doublets Plano Convex, Plano Concave, Double Convex, Double Convex, Double Convex, Double Convex, Double Convex, Plano Convex, Plano Convex, Double Convex, Double Convex, Plano Convex, Negative Achromats, Positive Achromats Plano Convex, Negative Achromats, Positive Achromats, Positive Achromats N-BK7, Fused Silica, CaF2, ZhSe, Silicon, Borofloat, Spaphire, H- Borofloat, Spaphire, H- Borofloat, Spaphire, H- Borofloat, Spaphire, H- Typical Materials. N-BK7, H-K9L, Fused Silica, B270, Plastics, Typical Material N-SF10 + N-BAF10, N-BAF4 + N-SF10, N-BAF4 + N-SF10, N-BAF4 + N-SF10,	Plano Convex, Plano Concave, Double Concave, Double Concave, Strive and Negative Meniscus Aspheric Achromatic Doublets Cylindri N-BK7, Fused Silica, CaF2, ZhSe, Silicon, Borofloat, Spaphire, H- Borofloat, Spaphire, H- Typical Materials: N-BK7, H-K9L, Fused Silica, CaF2, ZhSe, Silicon, Borofloat, Spaphire, H- N-BK7, H-K9L, Fused Silica, CaF2, ZhSe, Silicon, Borofloat, Spaphire, H- Typical Materials: Typical N-BK7, H-K9L, Fused Silica, CaF2, ZhSe, Silicon, Borofloat, Spaphire, H- Typical Materials: Typical Materials:

Fax 518.274.0336

General e-mail: m.gordinier@gurley.com

1/21/2019

OPTICAL COMPONENTS — Gurley Precision Instruments

Diameter Range:	2mm to >300mm	Diameter Range:	6mm to >300mm	Surface Quality:	To 20/10 SD	Surface Quality:	To 10/5 SD
Diameter Tolerence:	To +0.0mm/-0.02mm	 Diameter Tolerence:	To +0.0mm/-0.2mm	Surface Flatness:	λ/10	Clear Aperture:	То 90%
Paraxial Focal Length Tolerence:	To +/-1%	Center Thickness:	+/-0.15mm	Centration:	< 3'	Surface Flatness:	λ/10 @633nm
Surface Irregularity:	To λ/10 @633nm	Surface Quality:	60/40 SD	Center Thickness:	+/-0.1mm	Center Thickness:	+/-0.1mm
Clear Aperture:	То 95%	Typical Coatings:	V-Coat Anti- Reflective, BBAR, HR, Dielectrics, Metals, ext.	Diameter Tolerence:	To +0.0mm/-0.2mm	Focal Length Tolerence:	+/-1%
Surface Quality:	To 10/5 SD			Typical Coatings:	V-Coat Anti-Reflective, BBAR	Typical Coatings:	V-Coat Anti- Reflective, BBAR
Typical Coatings:	V-Coat Anti-Reflective, BBAR, HR, Dielectric, Metals, ext.						

Beam Splitters polarized and unpolarized



Beamsplitter Plates and Cubes

Mirrors - protected and unprotected coatings

Flat Aluminized, Maximum Reflection Flats, Front Surface Concave; Silver Plane, Front surface concave

	Plano Optical Components								
w	indows		Mi	rrors			Filters		
Types:	Sapphire, CaF2, MgF2, ZnSe, Fused Silica, N-BK7, ULE, ext.		Types:	Single Wavelength, Broadband, High Laser Damage		Types:	Fixed ND, Variable ND, Filter Glasses		
Surface Quality:	To 10/5 SD		Typical Substrate Materials:	Borofloat, Fused Silica, Zerodur		Typical Materials:	Inconel on N-BK7 or Fused Silica, BG18, NG-9, KG-3, ext.		
Surface Flatness:	To λ/20 @633nm		Surface Quality:	To 10/5 SD					
			Surface Flatness:	To λ/20 @633nm					
			Reflectivity:	>99%		Surface Quality:	To 10/5 SD		
			Coatings:	Metals, Dielectrics					





Prisms

Wedge, Brewster's Angle Dispersing, Littrow Dispersing, 60° Equilateral Dispersing, Roof, Poro, Penta, Right Angle, Dove, Retro-Refelctor Prisms and Other Types

	Prisms, Microprisms	, and Beamsplitt	ers				
	eamspltter solutions from G quality and on time delivery other parts of	allow you to mov	0 0				
	Prisms	Bea	Beam Splitters				
Types:	Microprisms, Right Angle, Dove, Roof, Penta, Corner Cubes, and others	Types:	Cubes, Plates, Lateral Displacement, Polarizing, Non- Polarizing				
Sizes:	.5mm to >300mm	Sizes:	>5mm				
Typical Materials:	N-BK7, H-K9L, Fused Silica, B270, ext.	Surface Quality:	To 20/10 SD				
Surface Quality:	To 20/10 SD	Surface Flatness:	λ/10 @633nm				
Surface Accuracy:	To λ/10 @633nm	Typical Materials:	N-BK7, H-K9L, Fused Silica, B270, ext.				
Clear Aperture:	То 95%	S/P Polarization:	Within 5% of Each Other				
Typical Coatings:	V-Coat Anti-Reflective, BBAR, HR, Dielectrics, Metals, ext.	Typical Coatings:	V-Coat Anti- Reflective, BBAR, HR, Dielectrics, Metals, ext.				

And More!

Are we missing something? Let us know - we can design entire lens systems, specify materials or just lend a hand in your applications. Please use the following table as a reference when

CHARACTERISTIC	YOUR APPLICATION
Diameter, mm	
Length, mm	
Substrate Material	
Coating Medium	
Thickness, mm	
Line Thickness, µm	
Angular Accuracy, arcsec	
Linear Accuracy, µm	
Parallelism, angle	
Surface Accuracy, waves	
A/R Coating	
Scratch/Dig	
Bevel, mm @ angle	
Centering, mm	

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submitting a request for quotation or when reviewing a possible application.



For a prompt quotation, Call (800) 759-1844 or E-mail us your requirements.

When accuracy counts - count on Gurley!

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