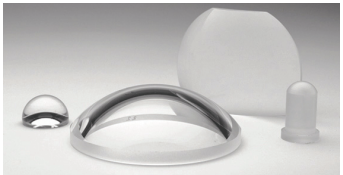
Optimax regularly manufactures custom:

Aspheres

Attribute	Minimum	Maximum
Diameter (mm)	3	500
Radius (mm)	-8 (concave)	∞[1]
Sag (mm)	0	50[1]
Departure (mm)	0.01	20
Included Angle (°)	0	120

[1]For concave surfaces the maximum may be smaller, limited by tool clearance. Short radii have lower maximums.

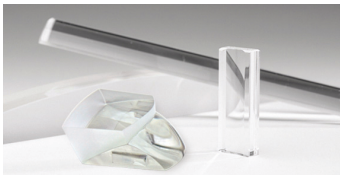
Spheres



Attribute	Minimum	Maximum
Diameter (mm)	3	500[1]
Radius (mm)	±1	∞[2]
Aspect Ratio[4]	1:1	30[3]
Included Angle (°)	0	210[2]

[1]Limited by machine envelope. [2]Metrology dependent. [3]Depends on metrology and finish options.
[4]Diameter divided by center thickness

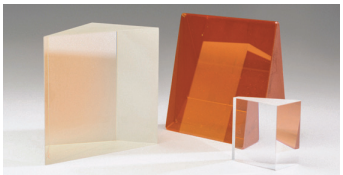
Cylinders / Freeforms



Attribute	Minimum	Maximum
Length (mm)	3	500
Width (mm)	2	300
Cylinder Radius (mm)	10	∞
Concave sag to flat (mm)	0.100[1]	=Radius

[1]Flat surfaces lead to scratching problems & polisher contact issues. For both practical & economic reasons consider plano here.

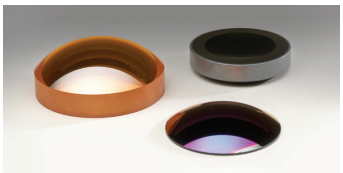
Prisms / Flat Optics



Attribute	Minimum	Maximum
Diameter (mm)	3	500
Thickness	1	150
Aspect Ratio[1]	1	50[2]

[1]Diameter divided by thickness. [2]Material dependent.

Coatings



Technologies
Ion Beam Sputtering
Plasma Ion Assisted Deposition
Reactive Evaporation
Thermal Evaporation

Coating Types
Antireflection
Beam Splitters
Polarizers
Metal Mirrors
Dielectric Mirrors
Filters

Larger sizes available upon request.

Optimax **Capabilities**

Optimax manufactures the optics behind breakthrough technologies in aerospace, defense, semiconductor and medical devices. Our advanced manufacturing system allows us to test and deliver highly complex optics with the speed and performance your programs require.

We manufacture optical components, including:

Aspheres	Optical Domes
Spheres	Prisms and Flats
Cylinders	Freeforms

Our facility has diverse capabilities for making a variety of optical components up to 500 mm in diameter. We offer a wide range of optical materials for specialized applications from the deep ultraviolet (DUV) to the far infrared (FIR), including:

- All optical glasses and fused silica
- Optical crystals - CaF_2, MgF_2, ZnS, ZnSe, Ge, Si, Sapphire
- Optical ceramics - Spinel, AlON, Clearceram, Zerodur

Optimax incorporates a broad range of manufacturing technologies from which we can choose the best process for your requirements. Fabrication capabilities range from conventional machinery to highly deterministic CNC machining, including:

- CNC subaperture polishing for aspherical and toroidal surfaces
- Magneto Rheological Finishing (MRF)
- Optimax patented VIBE polishing

For more information visit
www.optimaxsi.com/capabilities

Industries We Serve

Medical Devices

Optimax provides OEM optics for a femto- second laser in an innovative 3D surgical platform.

Aerospace

Optimax has supplied NASA with high quality imaging lenses, for projects like Mars Rovers, designed for position sensing, mapping land-forms and optical analysis.

Semiconductor

Optimax produces optics behind some of today's most breakthrough technologies — including semiconductor/solid-state lighting and displays.

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Optimax **Difference**

Optimax specializes in Asphere, Cylinder, Sphere, Plano/Flat and Freeform optics in sizes up to 500 mm. All parts are manufactured to customer-supplied specifications and include final inspection data.

Facility Size: 120,000 sq. ft.

Employees: 350+

Opticians: 200+

President: Michael Mandina

Founded: 1991

Compliance:
ITAR (International Traffic & Arms Regulations)
EAR (Export Administration Regulations)
Dodd-Frank Act (conflict minerals)
RoHS (Restriction of Hazardous Substances)
REACH (Registration, Evaluation, Authorization and Restriction of Chemical Substances)
MIL-I-45208A Quality SystemSmall Business

Registered: ISO 9001:2008 certified

US Dept of State: Registered with Directorate of Defense Trade Controls

Encryption: PGP® Desktop Email

D&B #78-706-4120 (Dunn & Bradstreet)

For more information visit
www.optimaxsi.com/capabilities