

Global Double-sided Cylindrical Lenses Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Double-sided Cylindrical Lenses market size was valued at US\$ 173 million in 2025 and is forecast to a readjusted size of US\$ 255 million by 2032 with a CAGR of 5.7% during review period.

Double-sided cylindrical lenses are transmissive optical components with optical curvature on both surfaces and cylindrical power along at least one axis. Typical configurations include biconvex cylindrical lenses, biconcave cylindrical lenses, positive and negative cylindrical meniscus lenses, hyperbolic cylindrical lenses, and other custom double-curved cylindrical optics. Unlike spherical lenses, cylindrical lenses focus or expand light in only one axis, producing a line focus rather than a point focus. They are used in laser line generation, one-axis beam expansion, laser-diode beam shaping, astigmatism correction, spectroscopy, machine vision, OCT, medical optics, semiconductor equipment, and defense or infrared optical systems.

Double-sided cylindrical lenses are a specialized segment within the broader precision optics market. The category includes biconvex cylindrical lenses, biconcave cylindrical lenses, positive and negative cylindrical meniscus lenses, achromatic cylindrical lenses, and custom double-curved cylindrical optics. Unlike spherical lenses, cylindrical lenses focus or expand light in only one axis, creating a line focus rather than a point focus. Compared with standard plano-convex or plano-concave cylindrical lenses, double-sided cylindrical lenses are more often used when the optical system requires shorter focal lengths, better aberration control, higher power handling, compact beam shaping, or customized one-dimensional imaging performance.

The market is relatively small but technically meaningful. Demand is mainly driven by

laser line generation, laser diode beam circularization, anamorphic beam shaping, machine vision, industrial inspection, spectroscopy, OCT, medical imaging, semiconductor inspection, life-science instruments, aerospace, defense, and infrared optical systems. These applications usually do not require extremely high unit volumes, but they do require tight tolerances, reliable coatings, stable geometry, and strong application engineering support. Therefore, the value of the product is defined less by lens count and more by optical design, material selection, surface quality, cylindrical figure accuracy, coating durability, and customer-specific system validation.

From the supply side, the market is led by established precision optics and laser optics suppliers in North America, Europe, Japan, and China. Newport / MKS, Edmund Optics, Thorlabs, OptoSigma, EKSMA Optics, Esco Optics, RMI Optics, Ross Optical, LaCroix Precision Optics, and LASER COMPONENTS are important international suppliers with strong positions in catalog optics, custom optics, laser optics, and high-precision components. Chinese suppliers such as Shanghai Optics, Molai Optics, UNI Optics, Bena Optics, and Hypoptics are becoming more competitive in customized cylindrical optics, OEM production, fast prototyping, and cost-sensitive projects.

The competitive focus is not limited to whether a supplier can produce a cylindrical surface. High-end double-sided cylindrical lenses require precise control of cylindrical surface figure, axis orientation, wedge, center thickness, focal-length tolerance, surface roughness, coating uniformity, laser-induced damage threshold, and material homogeneity. For UV, high-power laser, infrared, medical, and semiconductor applications, coating quality and low-scatter polishing can be as important as the lens geometry itself. Suppliers with in-house polishing, coating, metrology, and opto-mechanical assembly capabilities are better positioned than simple catalog resellers or trading companies.

Future growth should remain steady rather than explosive. Industrial lasers, 3D machine vision, semiconductor inspection, OCT, light-sheet microscopy, laser projection, LiDAR prototyping, and infrared systems will continue to support demand for customized cylindrical optics. Standard low-end lenses will face price competition, especially from Asian suppliers, while high-performance lenses for UV, IR, high-power lasers, medical optics, defense, and semiconductor instruments should maintain stronger margins. In the long term, the most attractive opportunities will be in custom double-curved cylindrical optics, achromatic cylindrical assemblies, high-LIDT coated lenses, and integrated beam-shaping modules.

This report is a detailed and comprehensive analysis for global Double-sided Cylindrical

Lenses market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Optical Geometry and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Double-sided Cylindrical Lenses market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Double-sided Cylindrical Lenses market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Double-sided Cylindrical Lenses market size and forecasts, by Optical Geometry and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Double-sided Cylindrical Lenses market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Double-sided Cylindrical Lenses

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Double-sided Cylindrical Lenses market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include MKS Newport, Edmund Optics,

Thorlabs, Inc., Shanghai Optics, Molai Optics, OptoSigma, EKSMA Optics, Avantier Inc., Esco Optics, Rocky Mountain Instrument, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Double-sided Cylindrical Lenses market is split by Optical Geometry and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Optical Geometry, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Optical Geometry

- Biconvex Cylindrical Lenses

- Biconcave Cylindrical Lenses

- Positive Cylindrical Meniscus Lenses

- Negative Cylindrical Meniscus Lenses

Market segment by Material

- Optical Glass / N-BK7 / K9

- UV Fused Silica

- IR Materials

- Fluoride Crystals

- Polymer / Plastic Optics

Market segment by Wavelength Band

UV Band

Visible Band

Near-infrared Band

SWIR / MWIR / LWIR Band

Broadband / Multi-band

Market segment by Application

Laser Line Generation and Beam Shaping

Laser Diode Circularization / Anamorphic Optics

Machine Vision and Industrial Inspection

Medical, Biophotonics and OCT

Spectroscopy and Scientific Instruments

Major players covered

MKS Newport

Edmund Optics

Thorlabs, Inc.

Shanghai Optics

Molai Optics

OptoSigma

EKSMA Optics

Avantier Inc.

Esco Optics

Rocky Mountain Instrument

Ross Optical

LASER COMPONENTS

UNI Optics Co., Ltd.

Knight Optical

Tower Optical Corporation

Rainbow Research Optics

LaCroix Precision Optics

Bena Optics

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Double-sided Cylindrical Lenses product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Double-sided Cylindrical Lenses, with price, sales quantity, revenue, and global market share of Double-sided Cylindrical Lenses from 2021 to 2026.

Chapter 3, the Double-sided Cylindrical Lenses competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Double-sided Cylindrical Lenses breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Optical Geometry and by Application, with sales market share and growth rate by Optical Geometry, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Double-sided Cylindrical Lenses market forecast, by regions, by Optical Geometry, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Double-sided Cylindrical Lenses.

Chapter 14 and 15, to describe Double-sided Cylindrical Lenses sales channel, distributors, customers, research findings and conclusion.

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