

Global Cylindrical Microlenses Arrays 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 Cylindrical Microlenses Arrays market size was valued at US\$ 61.74 million in 2025 and is forecast to a readjusted size of US\$ 105 million by 2032 with a CAGR of 7.8% during review period.

Cylindrical microlenses array is a special type of microlens array structure where the microlenses are cylindrical in shape. This means that one direction of the lens features a curved surface for refracting light, while the cross-section in the other direction approximates a circular or elliptical shape. These cylindrical microlenses are arranged on a substrate according to a specific pattern, forming an array, and the substrate material commonly used is fused quartz. This structure combines the characteristics of small unit size and high integration of a microlens array, with unique optical properties and application scenarios stemming from the special cylindrical shape.

Unlike general microlenses arrays, cylindrical lenses are aspherical lenses, which can effectively reduce spherical aberration and chromatic aberration, making them highly suitable for light homogenization. Distinguishing from rectangular microlens arrays, cylindrical microlens arrays can produce non-Gaussian linear patterns, making them applicable in welding, drilling, or laser ablation applications.

In 2025, production was 5 million units and the average price was USD 12 per unit. The industry's capacity utilization rate in 2025 was about 70% and the average gross margin was around 30%. Upstream, the core inputs include optical glass and optical polymers such as cyclic olefin copolymer and polycarbonate, with representative suppliers including Corning, AGC, Schott, Zeon, Mitsui Chemicals, SABIC, Teijin, and Covestro providing key optical substrates and polymer materials. The midstream

segment focuses on cylindrical optical design, micro-lens profile formation, precision molding, lithography or imprinting, surface treatment, coating, alignment, optical inspection, and reliability validation, which determine line-focusing accuracy, coupling efficiency, optical uniformity, and mass-production consistency. Downstream, Cylindrical Microlenses Arrays is mainly used in automotive, consumer electronics, communications, and IT applications, with representative customers including Marelli, Hella, ZKW Group, Apple, Samsung Electronics, Sony, Cisco, NVIDIA, Intel, and Microsoft.

Cylindrical Microlenses Arrays will gain more use as automotive lighting, consumer electronics, communications, and IT optical modules require controlled line focusing, beam expansion, and compact optical coupling. Its one-dimensional beam shaping capability is valuable in projection lighting, display optics, sensing modules, and optical communication interfaces where space is limited but light distribution accuracy is critical. Future development will be driven by intelligent vehicle lighting, compact imaging devices, optical interconnects, and precision sensing systems, with product upgrades focusing on profile accuracy, surface quality, material stability, and scalable manufacturing consistency.

This report is a detailed and comprehensive analysis for global Cylindrical Microlenses Arrays market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type 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 Cylindrical Microlenses Arrays market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

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

Global Cylindrical Microlenses Arrays market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Cylindrical Microlenses Arrays market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Cylindrical Microlenses Arrays

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 Cylindrical Microlenses Arrays 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 Wafer Level Optronics (China), AGC (Japan), Focuslight (China), BrightView Technologies (USA), Jenoptik (Germany), NALUX (Japan), Suzhou Suna Opto (China), Zhejiang Lante Optics (China), UROPTICS (China), etc.

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

Market Segmentation

Cylindrical Microlenses Arrays market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

Single-side

Double-side

Market segment by Array Geometry

Square

Hexagonal

Others

Market segment by Pitch

Pitch

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