

Global Semiconductor DUV Optical Lenses Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Semiconductor DUV Optical Lenses market size is expected to reach \$ 5152 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

Semiconductor DUV lithography optics refer to ultra-precision optical systems and lens components used in DUV lithography exposure tools, mainly operating at 193 nm ArF, 248 nm KrF, and adjacent 365 nm i-line wavelengths. These optical systems reduce and project the mask pattern onto the wafer with nanometer-scale imaging precision, while illumination optics control field uniformity, coherence, polarization, pupil shape, and process window. Key components include projection objectives, illumination optics, line-narrowing optics, excimer-laser optical components, high-purity fused silica, calcium fluoride lens materials, DUV-grade coated lenses, prisms, plates, and precision optical modules.

Semiconductor DUV lithography optics represent one of the most technically demanding and strategically scarce component categories in the lithography supply chain. The category covers projection objectives, illumination optics, beam-conditioning optics, DUV-grade optical materials, coated lenses, prisms, plates, and precision optical assemblies used in 193 nm ArF, 248 nm KrF, and adjacent 365 nm i-line lithography systems. The key challenge is not simply producing an optical lens, but maintaining extremely low absorption, low birefringence, high wavefront accuracy, low stray light, strong laser durability, thermal stability, and nanometer-level alignment under high-energy ultraviolet exposure.

From the supply structure perspective, the global market is highly concentrated. ZEISS is the dominant supplier of DUV lithography optics for ASML's DUV systems, while

Nikon and Canon retain in-house lithography optics capabilities through their own lithography tool platforms. Upstream material suppliers such as Corning, Heraeus, SCHOTT, and Ohara play important roles in high-purity fused silica, calcium fluoride, and other DUV-grade optical materials. The supplier base is therefore much narrower than the broader precision optics industry, because semiconductor lithography requires system-level optical design, ultra-precision manufacturing, coating, metrology, alignment, and long-term field validation.

DUV lithography optics will remain relevant even as EUV adoption expands. Advanced logic and memory manufacturing may use EUV for selected critical layers, but many non-critical layers, mature logic nodes, analog ICs, power devices, MEMS, sensors, memory peripheral circuits, and advanced packaging applications continue to rely on ArF, KrF, and i-line lithography. As a result, DUV optics demand is supported not only by new lithography tool shipments, but also by installed-base maintenance, replacement optics, refurbishment, process upgrades, and specialty lithography applications.

The highest-value segment remains ArF immersion projection optics, where numerical aperture, aberration control, wavefront quality, thermal behavior, and long-term optical stability create extremely high barriers to entry. KrF and i-line optics have lower unit value, but they remain commercially important because mature-node fabs, power semiconductor lines, packaging lines, and specialty device manufacturers continue to invest in these tools. Illumination optics and beam-shaping optics are also important, especially as process windows, overlay requirements, and exposure uniformity become more demanding.

For emerging domestic suppliers, the realistic path is gradual and layered. The first opportunities are likely to appear in i-line optics, packaging lithography optics, inspection and metrology optics, illumination modules, DUV-coated components, prisms, plates, and selected precision optical assemblies. Moving into complete KrF or ArF projection objectives requires a much deeper capability stack, including DUV optical materials, ultra-precision polishing, coating durability, wavefront metrology, contamination control, opto-mechanical assembly, thermal compensation, and customer qualification. Complete ArF immersion projection optics remain the most difficult substitution target.

In the long term, competition in DUV lithography optics will be defined less by single-component manufacturing and more by system integration capability. Suppliers must combine optical design, materials science, coating technology, mechanical stability, metrology, clean assembly, field service, and lithography process knowledge.

Companies with deep tool-maker partnerships, accumulated process data, and proven mass-production qualification will continue to hold the strongest competitive positions. This makes DUV lithography optics a small but high-value market with unusually high entry barriers and long customer validation cycles.

This report studies the global Semiconductor DUV Optical Lenses production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor DUV Optical Lenses and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Semiconductor DUV Optical Lenses that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semiconductor DUV Optical Lenses total production and demand, 2021-2032, (K Units)

Global Semiconductor DUV Optical Lenses total production value, 2021-2032, (USD Million)

Global Semiconductor DUV Optical Lenses production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Semiconductor DUV Optical Lenses consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Semiconductor DUV Optical Lenses domestic production, consumption, key domestic manufacturers and share

Global Semiconductor DUV Optical Lenses production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Semiconductor DUV Optical Lenses production by Optical Subsystem, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Semiconductor DUV Optical Lenses production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Semiconductor DUV Optical Lenses market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Carl Zeiss SMT, Nikon Corporation, Canon Inc., Corning Advanced Optics, Heraeus Covantics, SCHOTT AG, Focuslight Technologies, Ohara Inc., Molai Optics, Optowide Technologies, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Semiconductor DUV Optical Lenses market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Optical Subsystem, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Semiconductor DUV Optical Lenses Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor DUV Optical Lenses Market, Segmentation by Optical Subsystem:

Projection Objective Optics

Illumination Optics

Excimer-laser Beam Conditioning Optics

Alignment and Metrology-related Lithography Optics

Global Semiconductor DUV Optical Lenses Market, Segmentation by Lithography Tool Type:

Planar Targets

Rotary Targets

Bonded Target Assemblies

Segmented / Multi-piece Large Targets

Global Semiconductor DUV Optical Lenses Market, Segmentation by Optical Material:

G10.5 / G11 Lines

G8.5 / G8.6 Lines

G6 Lines

G5 / G5.5 Lines

G4.5 and Below

Global Semiconductor DUV Optical Lenses Market, Segmentation by Application:

Leading-edge and Advanced-node Fabs

Mature-node Foundries and IDMs

Memory Manufacturers

OSAT and Advanced Packaging Houses

Companies Profiled:

Carl Zeiss SMT

Nikon Corporation

Canon Inc.

Corning Advanced Optics

Heraeus Covantics

SCHOTT AG

Focuslight Technologies

Ohara Inc.

Molai Optics

Optowide Technologies

Castech Inc.

Key Questions Answered:

1. How big is the global Semiconductor DUV Optical Lenses market?
2. What is the demand of the global Semiconductor DUV Optical Lenses market?
3. What is the year over year growth of the global Semiconductor DUV Optical Lenses market?
4. What is the production and production value of the global Semiconductor DUV Optical Lenses market?
5. Who are the key producers in the global Semiconductor DUV Optical Lenses market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Semiconductor DUV Optical Lenses Introduction
- 1.2 World Semiconductor DUV Optical Lenses Supply & Forecast
 - 1.2.1 World Semiconductor DUV Optical Lenses Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Semiconductor DUV Optical Lenses Production (2021-2032)
 - 1.2.3 World Semiconductor DUV Optical Lenses Pricing Trends (2021-2032)
- 1.3 World Semiconductor DUV Optical Lenses Production by Region (Based on Production Site)
 - 1.3.1 World Semiconductor DUV Optical Lenses Production Value by Region (2021-2032)
 - 1.3.2 World Semiconductor DUV Optical Lenses Production by Region (2021-2032)
 - 1.3.3 World Semiconductor DUV Optical Lenses Average Price by Region (2021-2032)
 - 1.3.4 North America Semiconductor DUV Optical Lenses Production (2021-2032)
 - 1.3.5 Europe Semiconductor DUV Optical Lenses Production (2021-2032)
 - 1.3.6 China Semiconductor DUV Optical Lenses Production (2021-2032)
 - 1.3.7 Japan Semiconductor DUV Optical Lenses Production (2021-2032)
 - 1.3.8 South Korea Semiconductor DUV Optical Lenses Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Semiconductor DUV Optical Lenses Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Semiconductor DUV Optical Lenses Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Semiconductor DUV Optical Lenses Demand (2021-2032)
- 2.2 World Semiconductor DUV Optical Lenses Consumption by Region
 - 2.2.1 World Semiconductor DUV Optical Lenses Consumption by Region (2021-2026)
 - 2.2.2 World Semiconductor DUV Optical Lenses Consumption Forecast by Region (2027-2032)
- 2.3 United States Semiconductor DUV Optical Lenses Consumption (2021-2032)
- 2.4 China Semiconductor DUV Optical Lenses Consumption (2021-2032)
- 2.5 Europe Semiconductor DUV Optical Lenses Consumption (2021-2032)
- 2.6 Japan Semiconductor DUV Optical Lenses Consumption (2021-2032)
- 2.7 South Korea Semiconductor DUV Optical Lenses Consumption (2021-2032)
- 2.8 ASEAN Semiconductor DUV Optical Lenses Consumption (2021-2032)

2.9 India Semiconductor DUV Optical Lenses Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Semiconductor DUV Optical Lenses Production Value by Manufacturer (2021-2026)

3.2 World Semiconductor DUV Optical Lenses Production by Manufacturer (2021-2026)

3.3 World Semiconductor DUV Optical Lenses Average Price by Manufacturer (2021-2026)

3.4 Semiconductor DUV Optical Lenses Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Semiconductor DUV Optical Lenses Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Semiconductor DUV Optical Lenses in 2025

3.5.3 Global Concentration Ratios (CR8) for Semiconductor DUV Optical Lenses in 2025

3.6 Semiconductor DUV Optical Lenses Market: Overall Company Footprint Analysis

3.6.1 Semiconductor DUV Optical Lenses Market: Region Footprint

3.6.2 Semiconductor DUV Optical Lenses Market: Company Product Type Footprint

3.6.3 Semiconductor DUV Optical Lenses Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Semiconductor DUV Optical Lenses Production Value Comparison

4.1.1 United States VS China: Semiconductor DUV Optical Lenses Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Semiconductor DUV Optical Lenses Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Semiconductor DUV Optical Lenses Production Comparison

4.2.1 United States VS China: Semiconductor DUV Optical Lenses Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Semiconductor DUV Optical Lenses Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Semiconductor DUV Optical Lenses Consumption Comparison

4.3.1 United States VS China: Semiconductor DUV Optical Lenses Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Semiconductor DUV Optical Lenses Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Semiconductor DUV Optical Lenses Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Semiconductor DUV Optical Lenses Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Semiconductor DUV Optical Lenses Production Value (2021-2026)

4.4.3 United States Based Manufacturers Semiconductor DUV Optical Lenses Production (2021-2026)

4.5 China Based Semiconductor DUV Optical Lenses Manufacturers and Market Share

4.5.1 China Based Semiconductor DUV Optical Lenses Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Semiconductor DUV Optical Lenses Production Value (2021-2026)

4.5.3 China Based Manufacturers Semiconductor DUV Optical Lenses Production (2021-2026)

4.6 Rest of World Based Semiconductor DUV Optical Lenses Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Semiconductor DUV Optical Lenses Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Semiconductor DUV Optical Lenses Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Semiconductor DUV Optical Lenses Production (2021-2026)

5 MARKET ANALYSIS BY OPTICAL SUBSYSTEM

5.1 World Semiconductor DUV Optical Lenses Market Size Overview by Optical Subsystem: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Optical Subsystem

- 5.2.1 Projection Objective Optics
- 5.2.2 Illumination Optics
- 5.2.3 Excimer-laser Beam Conditioning Optics
- 5.2.4 Alignment and Metrology-related Lithography Optics
- 5.3 Market Segment by Optical Subsystem
 - 5.3.1 World Semiconductor DUV Optical Lenses Production by Optical Subsystem (2021-2032)
 - 5.3.2 World Semiconductor DUV Optical Lenses Production Value by Optical Subsystem (2021-2032)
 - 5.3.3 World Semiconductor DUV Optical Lenses Average Price by Optical Subsystem (2021-2032)

6 MARKET ANALYSIS BY LITHOGRAPHY TOOL TYPE

- 6.1 World Semiconductor DUV Optical Lenses Market Size Overview by Lithography Tool Type: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Lithography Tool Type
 - 6.2.1 Planar Targets
 - 6.2.2 Rotary Targets
 - 6.2.3 Bonded Target Assemblies
 - 6.2.4 Segmented / Multi-piece Large Targets
- 6.3 Market Segment by Lithography Tool Type
 - 6.3.1 World Semiconductor DUV Optical Lenses Production by Lithography Tool Type (2021-2032)
 - 6.3.2 World Semiconductor DUV Optical Lenses Production Value by Lithography Tool Type (2021-2032)
 - 6.3.3 World Semiconductor DUV Optical Lenses Average Price by Lithography Tool Type (2021-2032)

7 MARKET ANALYSIS BY OPTICAL MATERIAL

- 7.1 World Semiconductor DUV Optical Lenses Market Size Overview by Optical Material: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Optical Material
 - 7.2.1 G10.5 / G11 Lines
 - 7.2.2 G8.5 / G8.6 Lines
 - 7.2.3 G6 Lines
 - 7.2.4 G5 / G5.5 Lines
 - 7.2.5 G4.5 and Below

7.3 Market Segment by Optical Material

7.3.1 World Semiconductor DUV Optical Lenses Production by Optical Material (2021-2032)

7.3.2 World Semiconductor DUV Optical Lenses Production Value by Optical Material (2021-2032)

7.3.3 World Semiconductor DUV Optical Lenses Average Price by Optical Material (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Semiconductor DUV Optical Lenses Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Leading-edge and Advanced-node Fabs

8.2.2 Mature-node Foundries and IDMs

8.2.3 Memory Manufacturers

8.2.4 OSAT and Advanced Packaging Houses

8.3 Market Segment by Application

8.3.1 World Semiconductor DUV Optical Lenses Production by Application (2021-2032)

8.3.2 World Semiconductor DUV Optical Lenses Production Value by Application (2021-2032)

8.3.3 World Semiconductor DUV Optical Lenses Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Carl Zeiss SMT

9.1.1 Carl Zeiss SMT Details

9.1.2 Carl Zeiss SMT Major Business

9.1.3 Carl Zeiss SMT Semiconductor DUV Optical Lenses Product and Services

9.1.4 Carl Zeiss SMT Semiconductor DUV Optical Lenses Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Carl Zeiss SMT Recent Developments/Updates

9.1.6 Carl Zeiss SMT Competitive Strengths & Weaknesses

9.2 Nikon Corporation

9.2.1 Nikon Corporation Details

9.2.2 Nikon Corporation Major Business

9.2.3 Nikon Corporation Semiconductor DUV Optical Lenses Product and Services

9.2.4 Nikon Corporation Semiconductor DUV Optical Lenses Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Nikon Corporation Recent Developments/Updates

9.2.6 Nikon Corporation Competitive Strengths & Weaknesses

9.3 Canon Inc.

9.3.1 Canon Inc. Details

9.3.2 Canon Inc. Major Business

9.3.3 Canon Inc. Semiconductor DUV Optical Lenses Product and Services

9.3.4 Canon Inc. Semiconductor DUV Optical Lenses Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Canon Inc. Recent Developments/Updates

9.3.6 Canon Inc. Competitive Strengths & Weaknesses

9.4 Corning Advanced Optics

9.4.1 Corning Advanced Optics Details

9.4.2 Corning Advanced Optics Major Business

9.4.3 Corning Advanced Optics Semiconductor DUV Optical Lenses Product and Services

9.4.4 Corning Advanced Optics Semiconductor DUV Optical Lenses Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Corning Advanced Optics Recent Developments/Updates

9.4.6 Corning Advanced Optics Competitive Strengths & Weaknesses

9.5 Heraeus Covantics

9.5.1 Heraeus Covantics Details

9.5.2 Heraeus Covantics Major Business

9.5.3 Heraeus Covantics Semiconductor DUV Optical Lenses Product and Services

9.5.4 Heraeus Covantics Semiconductor DUV Optical Lenses Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Heraeus Covantics Recent Developments/Updates

9.5.6 Heraeus Covantics Competitive Strengths & Weaknesses

9.6 SCHOTT AG

9.6.1 SCHOTT AG Details

9.6.2 SCHOTT AG Major Business

9.6.3 SCHOTT AG Semiconductor DUV Optical Lenses Product and Services

9.6.4 SCHOTT AG Semiconductor DUV Optical Lenses Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 SCHOTT AG Recent Developments/Updates

9.6.6 SCHOTT AG Competitive Strengths & Weaknesses

9.7 Focuslight Technologies

9.7.1 Focuslight Technologies Details

9.7.2 Focuslight Technologies Major Business

9.7.3 Focuslight Technologies Semiconductor DUV Optical Lenses Product and Services

9.7.4 Focuslight Technologies Semiconductor DUV Optical Lenses Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Focuslight Technologies Recent Developments/Updates

9.7.6 Focuslight Technologies Competitive Strengths & Weaknesses

9.8 Ohara Inc.

9.8.1 Ohara Inc. Details

9.8.2 Ohara Inc. Major Business

9.8.3 Ohara Inc. Semiconductor DUV Optical Lenses Product and Services

9.8.4 Ohara Inc. Semiconductor DUV Optical Lenses Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Ohara Inc. Recent Developments/Updates

9.8.6 Ohara Inc. Competitive Strengths & Weaknesses

9.9 Molai Optics

9.9.1 Molai Optics Details

9.9.2 Molai Optics Major Business

9.9.3 Molai Optics Semiconductor DUV Optical Lenses Product and Services

9.9.4 Molai Optics Semiconductor DUV Optical Lenses Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Molai Optics Recent Developments/Updates

9.9.6 Molai Optics Competitive Strengths & Weaknesses

9.10 Optowide Technologies

9.10.1 Optowide Technologies Details

9.10.2 Optowide Technologies Major Business

9.10.3 Optowide Technologies Semiconductor DUV Optical Lenses Product and Services

9.10.4 Optowide Technologies Semiconductor DUV Optical Lenses Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Optowide Technologies Recent Developments/Updates

9.10.6 Optowide Technologies Competitive Strengths & Weaknesses

9.11 Casteck Inc.

9.11.1 Casteck Inc. Details

9.11.2 Casteck Inc. Major Business

9.11.3 Casteck Inc. Semiconductor DUV Optical Lenses Product and Services

9.11.4 Casteck Inc. Semiconductor DUV Optical Lenses Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Casteck Inc. Recent Developments/Updates

9.11.6 Cstech Inc. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Semiconductor DUV Optical Lenses Industry Chain

10.2 Semiconductor DUV Optical Lenses Upstream Analysis

10.2.1 Semiconductor DUV Optical Lenses Core Raw Materials

10.2.2 Main Manufacturers of Semiconductor DUV Optical Lenses Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Semiconductor DUV Optical Lenses Production Mode

10.6 Semiconductor DUV Optical Lenses Procurement Model

10.7 Semiconductor DUV Optical Lenses Industry Sales Model and Sales Channels

10.7.1 Semiconductor DUV Optical Lenses Sales Model

10.7.2 Semiconductor DUV Optical Lenses Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Semiconductor DUV Optical Lenses Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Semiconductor DUV Optical Lenses Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Semiconductor DUV Optical Lenses Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Semiconductor DUV Optical Lenses Production Value Market Share by Region (2021-2026)
- Table 5. World Semiconductor DUV Optical Lenses Production Value Market Share by Region (2027-2032)
- Table 6. World Semiconductor DUV Optical Lenses Production by Region (2021-2026) & (K Units)
- Table 7. World Semiconductor DUV Optical Lenses Production by Region (2027-2032) & (K Units)
- Table 8. World Semiconductor DUV Optical Lenses Production Market Share by Region (2021-2026)
- Table 9. World Semiconductor DUV Optical Lenses Production Market Share by Region (2027-2032)
- Table 10. World Semiconductor DUV Optical Lenses Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World Semiconductor DUV Optical Lenses Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. Semiconductor DUV Optical Lenses Major Market Trends
- Table 13. World Semiconductor DUV Optical Lenses Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World Semiconductor DUV Optical Lenses Consumption by Region (2021-2026) & (K Units)
- Table 15. World Semiconductor DUV Optical Lenses Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World Semiconductor DUV Optical Lenses Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Semiconductor DUV Optical Lenses Producers in 2025
- Table 18. World Semiconductor DUV Optical Lenses Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Semiconductor DUV Optical Lenses Producers in 2025

Table 20. World Semiconductor DUV Optical Lenses Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Semiconductor DUV Optical Lenses Company Evaluation Quadrant

Table 22. World Semiconductor DUV Optical Lenses Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Semiconductor DUV Optical Lenses Production Site of Key Manufacturer

Table 24. Semiconductor DUV Optical Lenses Market: Company Product Type Footprint

Table 25. Semiconductor DUV Optical Lenses Market: Company Product Application Footprint

Table 26. Semiconductor DUV Optical Lenses Competitive Factors

Table 27. Semiconductor DUV Optical Lenses New Entrant and Capacity Expansion Plans

Table 28. Semiconductor DUV Optical Lenses Mergers & Acquisitions Activity

Table 29. United States VS China Semiconductor DUV Optical Lenses Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Semiconductor DUV Optical Lenses Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Semiconductor DUV Optical Lenses Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Semiconductor DUV Optical Lenses Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Semiconductor DUV Optical Lenses Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Semiconductor DUV Optical Lenses Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Semiconductor DUV Optical Lenses Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Semiconductor DUV Optical Lenses Production Market Share (2021-2026)

Table 37. China Based Semiconductor DUV Optical Lenses Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Semiconductor DUV Optical Lenses Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Semiconductor DUV Optical Lenses Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Semiconductor DUV Optical Lenses Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Semiconductor DUV Optical Lenses Production Market Share (2021-2026)

Table 42. Rest of World Based Semiconductor DUV Optical Lenses Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Semiconductor DUV Optical Lenses Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Semiconductor DUV Optical Lenses Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Semiconductor DUV Optical Lenses Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Semiconductor DUV Optical Lenses Production Market Share (2021-2026)

Table 47. World Semiconductor DUV Optical Lenses Production Value by Optical Subsystem, (USD Million), 2021 & 2025 & 2032

Table 48. World Semiconductor DUV Optical Lenses Production by Optical Subsystem (2021-2026) & (K Units)

Table 49. World Semiconductor DUV Optical Lenses Production by Optical Subsystem (2027-2032) & (K Units)

Table 50. World Semiconductor DUV Optical Lenses Production Value by Optical Subsystem (2021-2026) & (USD Million)

Table 51. World Semiconductor DUV Optical Lenses Production Value by Optical Subsystem (2027-2032) & (USD Million)

Table 52. World Semiconductor DUV Optical Lenses Average Price by Optical Subsystem (2021-2026) & (US\$/Unit)

Table 53. World Semiconductor DUV Optical Lenses Average Price by Optical Subsystem (2027-2032) & (US\$/Unit)

Table 54. World Semiconductor DUV Optical Lenses Production Value by Lithography Tool Type, (USD Million), 2021 & 2025 & 2032

Table 55. World Semiconductor DUV Optical Lenses Production by Lithography Tool Type (2021-2026) & (K Units)

Table 56. World Semiconductor DUV Optical Lenses Production by Lithography Tool Type (2027-2032) & (K Units)

Table 57. World Semiconductor DUV Optical Lenses Production Value by Lithography Tool Type (2021-2026) & (USD Million)

Table 58. World Semiconductor DUV Optical Lenses Production Value by Lithography Tool Type (2027-2032) & (USD Million)

Table 59. World Semiconductor DUV Optical Lenses Average Price by Lithography Tool

Type (2021-2026) & (US\$/Unit)

Table 60. World Semiconductor DUV Optical Lenses Average Price by Lithography Tool Type (2027-2032) & (US\$/Unit)

Table 61. World Semiconductor DUV Optical Lenses Production Value by Optical Material, (USD Million), 2021 & 2025 & 2032

Table 62. World Semiconductor DUV Optical Lenses Production by Optical Material (2021-2026) & (K Units)

Table 63. World Semiconductor DUV Optical Lenses Production by Optical Material (2027-2032) & (K Units)

Table 64. World Semiconductor DUV Optical Lenses Production Value by Optical Material (2021-2026) & (USD Million)

Table 65. World Semiconductor DUV Optical Lenses Production Value by Optical Material (2027-2032) & (USD Million)

Table 66. World Semiconductor DUV Optical Lenses Average Price by Optical Material (2021-2026) & (US\$/Unit)

Table 67. World Semiconductor DUV Optical Lenses Average Price by Optical Material (2027-2032) & (US\$/Unit)

Table 68. World Semiconductor DUV Optical Lenses Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Semiconductor DUV Optical Lenses Production by Application (2021-2026) & (K Units)

Table 70. World Semiconductor DUV Optical Lenses Production by Application (2027-2032) & (K Units)

Table 71. World Semiconductor DUV Optical Lenses Production Value by Application (2021-2026) & (USD Million)

Table 72. World Semiconductor DUV Optical Lenses Production Value by Application (2027-2032) & (USD Million)

Table 73. World Semiconductor DUV Optical Lenses Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Semiconductor DUV Optical Lenses Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Carl Zeiss SMT Basic Information, Manufacturing Base and Competitors

Table 76. Carl Zeiss SMT Major Business

Table 77. Carl Zeiss SMT Semiconductor DUV Optical Lenses Product and Services

Table 78. Carl Zeiss SMT Semiconductor DUV Optical Lenses Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Carl Zeiss SMT Recent Developments/Updates

Table 80. Carl Zeiss SMT Competitive Strengths & Weaknesses

Table 81. Nikon Corporation Basic Information, Manufacturing Base and Competitors

Table 82. Nikon Corporation Major Business

Table 83. Nikon Corporation Semiconductor DUV Optical Lenses Product and Services

Table 84. Nikon Corporation Semiconductor DUV Optical Lenses Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Nikon Corporation Recent Developments/Updates

Table 86. Nikon Corporation Competitive Strengths & Weaknesses

Table 87. Canon Inc. Basic Information, Manufacturing Base and Competitors

Table 88. Canon Inc. Major Business

Table 89. Canon Inc. Semiconductor DUV Optical Lenses Product and Services

Table 90. Canon Inc. Semiconductor DUV Optical Lenses Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Canon Inc. Recent Developments/Updates

Table 92. Canon Inc. Competitive Strengths & Weaknesses

Table 93. Corning Advanced Optics Basic Information, Manufacturing Base and Competitors

Table 94. Corning Advanced Optics Major Business

Table 95. Corning Advanced Optics Semiconductor DUV Optical Lenses Product and Services

Table 96. Corning Advanced Optics Semiconductor DUV Optical Lenses Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Corning Advanced Optics Recent Developments/Updates

Table 98. Corning Advanced Optics Competitive Strengths & Weaknesses

Table 99. Heraeus Covantics Basic Information, Manufacturing Base and Competitors

Table 100. Heraeus Covantics Major Business

Table 101. Heraeus Covantics Semiconductor DUV Optical Lenses Product and Services

Table 102. Heraeus Covantics Semiconductor DUV Optical Lenses Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Heraeus Covantics Recent Developments/Updates

Table 104. Heraeus Covantics Competitive Strengths & Weaknesses

Table 105. SCHOTT AG Basic Information, Manufacturing Base and Competitors

Table 106. SCHOTT AG Major Business

Table 107. SCHOTT AG Semiconductor DUV Optical Lenses Product and Services

Table 108. SCHOTT AG Semiconductor DUV Optical Lenses Production (K Units),

Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. SCHOTT AG Recent Developments/Updates

Table 110. SCHOTT AG Competitive Strengths & Weaknesses

Table 111. Focuslight Technologies Basic Information, Manufacturing Base and Competitors

Table 112. Focuslight Technologies Major Business

Table 113. Focuslight Technologies Semiconductor DUV Optical Lenses Product and Services

Table 114. Focuslight Technologies Semiconductor DUV Optical Lenses Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Focuslight Technologies Recent Developments/Updates

Table 116. Focuslight Technologies Competitive Strengths & Weaknesses

Table 117. Ohara Inc. Basic Information, Manufacturing Base and Competitors

Table 118. Ohara Inc. Major Business

Table 119. Ohara Inc. Semiconductor DUV Optical Lenses Product and Services

Table 120. Ohara Inc. Semiconductor DUV Optical Lenses Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Ohara Inc. Recent Developments/Updates

Table 122. Ohara Inc. Competitive Strengths & Weaknesses

Table 123. Molai Optics Basic Information, Manufacturing Base and Competitors

Table 124. Molai Optics Major Business

Table 125. Molai Optics Semiconductor DUV Optical Lenses Product and Services

Table 126. Molai Optics Semiconductor DUV Optical Lenses Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Molai Optics Recent Developments/Updates

Table 128. Molai Optics Competitive Strengths & Weaknesses

Table 129. Optowide Technologies Basic Information, Manufacturing Base and Competitors

Table 130. Optowide Technologies Major Business

Table 131. Optowide Technologies Semiconductor DUV Optical Lenses Product and Services

Table 132. Optowide Technologies Semiconductor DUV Optical Lenses Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Optowide Technologies Recent Developments/Updates

Table 134. Optowide Technologies Competitive Strengths & Weaknesses

Table 135. Casteck Inc. Basic Information, Manufacturing Base and Competitors

Table 136. Casteck Inc. Major Business

Table 137. Casteck Inc. Semiconductor DUV Optical Lenses Product and Services

Table 138. Casteck Inc. Semiconductor DUV Optical Lenses Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Casteck Inc. Recent Developments/Updates

Table 140. Casteck Inc. Competitive Strengths & Weaknesses

Table 141. Global Key Players of Semiconductor DUV Optical Lenses Upstream (Raw Materials)

Table 142. Global Semiconductor DUV Optical Lenses Typical Customers

Table 143. Semiconductor DUV Optical Lenses Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Semiconductor DUV Optical Lenses Picture
- Figure 2. World Semiconductor DUV Optical Lenses Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Semiconductor DUV Optical Lenses Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Semiconductor DUV Optical Lenses Production (2021-2032) & (K Units)
- Figure 5. World Semiconductor DUV Optical Lenses Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World Semiconductor DUV Optical Lenses Production Value Market Share by Region (2021-2032)
- Figure 7. World Semiconductor DUV Optical Lenses Production Market Share by Region (2021-2032)
- Figure 8. North America Semiconductor DUV Optical Lenses Production (2021-2032) & (K Units)
- Figure 9. Europe Semiconductor DUV Optical Lenses Production (2021-2032) & (K Units)
- Figure 10. China Semiconductor DUV Optical Lenses Production (2021-2032) & (K Units)
- Figure 11. Japan Semiconductor DUV Optical Lenses Production (2021-2032) & (K Units)
- Figure 12. South Korea Semiconductor DUV Optical Lenses Production (2021-2032) & (K Units)
- Figure 13. Semiconductor DUV Optical Lenses Market Drivers
- Figure 14. Factors Affecting Demand
- Figure 15. World Semiconductor DUV Optical Lenses Consumption (2021-2032) & (K Units)
- Figure 16. World Semiconductor DUV Optical Lenses Consumption Market Share by Region (2021-2032)
- Figure 17. United States Semiconductor DUV Optical Lenses Consumption (2021-2032) & (K Units)
- Figure 18. China Semiconductor DUV Optical Lenses Consumption (2021-2032) & (K Units)
- Figure 19. Europe Semiconductor DUV Optical Lenses Consumption (2021-2032) & (K Units)
- Figure 20. Japan Semiconductor DUV Optical Lenses Consumption (2021-2032) & (K Units)

Units)

Figure 21. South Korea Semiconductor DUV Optical Lenses Consumption (2021-2032) & (K Units)

Figure 22. ASEAN Semiconductor DUV Optical Lenses Consumption (2021-2032) & (K Units)

Figure 23. India Semiconductor DUV Optical Lenses Consumption (2021-2032) & (K Units)

Figure 24. Producer Shipments of Semiconductor DUV Optical Lenses by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Semiconductor DUV Optical Lenses Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Semiconductor DUV Optical Lenses Markets in 2025

Figure 27. United States VS China: Semiconductor DUV Optical Lenses Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Semiconductor DUV Optical Lenses Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Semiconductor DUV Optical Lenses Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Semiconductor DUV Optical Lenses Production Market Share 2025

Figure 31. China Based Manufacturers Semiconductor DUV Optical Lenses Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Semiconductor DUV Optical Lenses Production Market Share 2025

Figure 33. World Semiconductor DUV Optical Lenses Production Value by Optical Subsystem, (USD Million), 2021 & 2025 & 2032

Figure 34. World Semiconductor DUV Optical Lenses Production Value Market Share by Optical Subsystem in 2025

Figure 35. Projection Objective Optics

Figure 36. Illumination Optics

Figure 37. Excimer-laser Beam Conditioning Optics

Figure 38. Alignment and Metrology-related Lithography Optics

Figure 39. World Semiconductor DUV Optical Lenses Production Market Share by Optical Subsystem (2021-2032)

Figure 40. World Semiconductor DUV Optical Lenses Production Value Market Share by Optical Subsystem (2021-2032)

Figure 41. World Semiconductor DUV Optical Lenses Average Price by Optical Subsystem (2021-2032) & (US\$/Unit)

- Figure 42. World Semiconductor DUV Optical Lenses Production Value by Lithography Tool Type, (USD Million), 2021 & 2025 & 2032
- Figure 43. World Semiconductor DUV Optical Lenses Production Value Market Share by Lithography Tool Type in 2025
- Figure 44. Planar Targets
- Figure 45. Rotary Targets
- Figure 46. Bonded Target Assemblies
- Figure 47. Segmented / Multi-piece Large Targets
- Figure 48. World Semiconductor DUV Optical Lenses Production Market Share by Lithography Tool Type (2021-2032)
- Figure 49. World Semiconductor DUV Optical Lenses Production Value Market Share by Lithography Tool Type (2021-2032)
- Figure 50. World Semiconductor DUV Optical Lenses Average Price by Lithography Tool Type (2021-2032) & (US\$/Unit)
- Figure 51. World Semiconductor DUV Optical Lenses Production Value by Optical Material, (USD Million), 2021 & 2025 & 2032
- Figure 52. World Semiconductor DUV Optical Lenses Production Value Market Share by Optical Material in 2025
- Figure 53. G10.5 / G11 Lines
- Figure 54. G8.5 / G8.6 Lines
- Figure 55. G6 Lines
- Figure 56. G5 / G5.5 Lines
- Figure 57. G4.5 and Below
- Figure 58. World Semiconductor DUV Optical Lenses Production Market Share by Optical Material (2021-2032)
- Figure 59. World Semiconductor DUV Optical Lenses Production Value Market Share by Optical Material (2021-2032)
- Figure 60. World Semiconductor DUV Optical Lenses Average Price by Optical Material (2021-2032) & (US\$/Unit)
- Figure 61. World Semiconductor DUV Optical Lenses Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 62. World Semiconductor DUV Optical Lenses Production Value Market Share by Application in 2025
- Figure 63. Leading-edge and Advanced-node Fabs
- Figure 64. Mature-node Foundries and IDMs
- Figure 65. Memory Manufacturers
- Figure 66. OSAT and Advanced Packaging Houses
- Figure 67. World Semiconductor DUV Optical Lenses Production Market Share by Application (2021-2032)

Figure 68. World Semiconductor DUV Optical Lenses Production Value Market Share by Application (2021-2032)

Figure 69. World Semiconductor DUV Optical Lenses Average Price by Application (2021-2032) & (US\$/Unit)

Figure 70. Semiconductor DUV Optical Lenses Industry Chain

Figure 71. Semiconductor DUV Optical Lenses Procurement Model

Figure 72. Semiconductor DUV Optical Lenses Sales Model

Figure 73. Semiconductor DUV Optical Lenses Sales Channels, Direct Sales, and Distribution

Figure 74. Methodology

Figure 75. Research Process and Data Source

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