

# Lithography Systems Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/L1073673F65EN.html>

Date: June 2023

Pages: 138

Price: US\$ 2,499.00 (Single User License)

ID: L1073673F65EN

## Abstracts

### Market Overview:

The global lithography systems market size reached US\$ 9.5 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 12.5 Billion by 2028, exhibiting a growth rate (CAGR) of 4.7% during 2023-2028.

Lithography is a printing process which is based on the immiscibility of grease and water. The inception of this process can be traced back to the late 1700s, when it was invented by Alois Senefelder. Earlier, it was only used by artists so as to produce prints but with time it got developed into a broad range of technologies including semiconductor lithography. Lithography systems are currently used for microfabricating either a major fraction of a planar surface or various parts of a thin film. These systems are beneficial for printing on a wide range of surfaces with optimal image quality at a comparatively lower cost. This has led to the increasing use of lithography systems for the purpose of printing artwork or text on an appropriate material and creating semiconductor patterns or crystals which are further utilised in the form of integrated circuits.

### Global Lithography Systems Market Drivers/Constraints:

Over the past few years, there have been numerous technological advancements made in the field of lithography systems. This has enabled these systems to be used for different wavelengths ranging from blue wavelengths to high resolution wavelengths of 193 nanometres.

Currently, lithography systems are gaining popularity in the semiconductor industry,

particularly for establishing the dimensions, location and shapes of several components of the integrated circuit (IC). These circuits are being increasingly used in communication devices, consumer electronics and sensors which in turn, has resulted in an augmenting demand for lithography systems across the globe.

Manufacturers have been making huge investments in the research and development activities so as to develop a wide variety of ultra-high-precision semiconductor photolithography tools with a low cost per function. This has, therefore, positively influenced the growth of the market.

However, there are technical challenges being faced by producers regarding the development of EUV lithography systems used for making modern micro-circuits. It acts as a hindrance which is impeding the growth of the global lithography systems market.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global lithography systems market report, along with forecasts at the global and regional level from 2023-2028. Our report has categorized the market based on technology and application.

#### Breakup by Technology:

- ArF Immersion
- KrF
- i-line
- ArF Dry
- EUV

The lithography system has been segmented on the basis of technology which include ArF immersion, KrF, i-line, ArF dry and EUV. Currently, ArF immersion exhibits a clear dominance with the largest market share as it improves critical dimension uniformity.

#### Breakup by Application:

- Foundry
- Memory
- Integrated Device

On the basis of application, the market has been segregated into foundry, memory and integrated device. Amongst these, foundry represents the most popular application for

which lithography systems are being used.

#### Regional Insights:

Asia Pacific

North America

Europe

Middle East and Africa

Latin America

Region-wise, Asia-Pacific remains the leading market, accounting for the majority of the global share. This can be accredited to the presence of a large number of semiconductor IC manufacturers in the region. Other major regions include North America, Europe, Middle East and Africa, and Latin America.

#### Competitive Landscape:

The global lithography systems market is concentrated in nature with the presence of few manufacturers who compete in terms of prices and quality. Some of the top players operating in the market are:

ASML Holding

Canon

Nikon

Nuflare Technology, Inc.

Ev Group

Veeco Instruments

SUSS MicroTec

This report provides a deep insight into the global lithography systems market covering all its essential aspects. This ranges from macro overview of the market to micro details of the industry performance, recent trends, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc. This report is a must-read for entrepreneurs, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the lithography systems market in any manner.

#### Key Questions Answered in This Report:

How has the global lithography systems market performed so far and how will it perform in the coming years?

What are the key regions in the global lithography systems market?

What has been the impact of COVID-19 on the global lithography systems market?

Which are the popular technologies in the global lithography systems market?

What are the major application segments in the global lithography systems market?

What are the various stages in the value chain of the global lithography systems market?

What are the key driving factors and challenges in the global lithography systems market?

What is the structure of the global lithography systems market and who are the key players?

What is the degree of competition in the global lithography systems market?

How are lithography systems manufactured?

## Contents

### 1 PREFACE

### 2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### 3 EXECUTIVE SUMMARY

### 4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

### 5 GLOBAL LITHOGRAPHY SYSTEMS MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Price Analysis
  - 5.4.1 Key Price Indicators
  - 5.4.2 Price Structure
  - 5.4.3 Margin Analysis
- 5.5 Market Breakup by Technology
- 5.6 Market Breakup by Application
- 5.7 Market Breakup by Region
- 5.8 Market Forecast
- 5.9 SWOT Analysis
  - 5.9.1 Overview
  - 5.9.2 Strengths

5.9.3 Weaknesses

5.9.4 Opportunities

5.9.5 Threats

5.10 Value Chain Analysis

5.10.1 Overview

5.10.2 Research and Development

5.10.3 Raw Material Procurement

5.10.4 Manufacturing

5.10.5 Marketing

5.10.6 Distribution

5.10.7 End-Use

5.11 Porters Five Forces Analysis

5.11.1 Overview

5.11.2 Bargaining Power of Buyers

5.11.3 Bargaining Power of Suppliers

5.11.4 Degree of Competition

5.11.5 Threat of New Entrants

5.11.6 Threat of Substitutes

## **6 MARKET BREAKUP BY TECHNOLOGY**

6.1 ArF Immersion

6.1.1 Market Trends

6.1.2 Market Forecast

6.2 KrF

6.2.1 Market Trends

6.2.2 Market Forecast

6.3 i-line

6.3.1 Market Trends

6.3.2 Market Forecast

6.4 ArF Dry

6.4.1 Market Trends

6.4.2 Market Forecast

6.5 EUV

6.5.1 Market Trends

6.5.2 Market Forecast

## **7 MARKET BREAKUP BY APPLICATION**

- 7.1 Foundry
  - 7.1.1 Market Trends
  - 7.1.2 Market Forecast
- 7.2 Memory
  - 7.2.1 Market Trends
  - 7.2.2 Market Forecast
- 7.3 Integrated Device
  - 7.3.1 Market Trends
  - 7.3.2 Market Forecast

## **8 MARKET BREAKUP BY REGION**

- 8.1 Asia Pacific
  - 8.1.1 Market Trends
  - 8.1.2 Market Forecast
- 8.2 North America
  - 8.2.1 Market Trends
  - 8.2.2 Market Forecast
- 8.3 Europe
  - 8.3.1 Market Trends
  - 8.3.2 Market Forecast
- 8.4 Middle East and Africa
  - 8.4.1 Market Trends
  - 8.4.2 Market Forecast
- 8.5 Latin America
  - 8.5.1 Market Trends
  - 8.5.2 Market Forecast

## **9 LITHOGRAPHY SYSTEMS MANUFACTURING PROCESS**

- 9.1 Product Overview
- 9.2 Raw Material Requirements
- 9.3 Manufacturing Process
- 9.4 Key Success and Risk Factors

## **10 COMPETITIVE LANDSCAPE**

- 10.1 Market Structure
- 10.2 Key Players

## 10.3 Profiles of Key Players

10.3.1 ASML Holding

10.3.2 Canon

10.3.3 Nikon

10.3.4 Nuflare Technology, Inc.

10.3.5 Veeco Instruments

10.3.6 SUSS MicroTec

10.3.7 Ev Group



## List Of Tables

### LIST OF TABLES

Table 1: Global: Lithography Systems Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Lithography Systems Market Forecast: Breakup by Technology (in Million US\$), 2023-2028

Table 3: Global: Lithography Systems Market Forecast: Breakup by Application (in Million US\$), 2023-2028

Table 4: Global: Lithography Systems Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 5: Lithography Systems: Raw Material Requirements

Table 6: Global: Lithography Systems Market: Competitive Structure

Table 7: Global: Lithography Systems Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Lithography Systems Market: Major Drivers and Challenges

Figure 2: Global: Lithography Systems Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: Lithography Systems Market: Breakup by Technology (in %), 2022

Figure 4: Global: Lithography Systems Market: Breakup by Application (in %), 2022

Figure 5: Global: Lithography Systems Market: Breakup by Region (in %), 2022

Figure 6: Global: Lithography Systems Market Forecast: Sales Value (in Billion US\$), 2023-2028

Figure 7: Lithography Systems Market: Price Structure

Figure 8: Global: Lithography Systems Industry: SWOT Analysis

Figure 9: Global: Lithography Systems Industry: Value Chain Analysis

Figure 10: Global: Lithography Systems Industry: Porter's Five Forces Analysis

Figure 11: Global: Lithography Systems (ArF Immersion) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 12: Global: Lithography Systems (ArF Immersion) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 13: Global: Lithography Systems (KrF) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 14: Global: Lithography Systems (KrF) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 15: Global: Lithography Systems (i-line) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 16: Global: Lithography Systems (i-line) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 17: Global: Lithography Systems (ArF Dry) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 18: Global: Lithography Systems (ArF Dry) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 19: Global: Lithography Systems (EUV) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 20: Global: Lithography Systems (EUV) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 21: Global: Lithography Systems (Foundry) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 22: Global: Lithography Systems (Foundry) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 23: Global: Lithography Systems (Memory) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 24: Global: Lithography Systems (Memory) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 25: Global: Lithography Systems (Integrated Device) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: Global: Lithography Systems (Integrated Device) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: Asia Pacific: Lithography Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 28: Asia Pacific: Lithography Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 29: North America: Lithography Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: North America: Lithography Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: Europe: Lithography Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 32: Europe: Lithography Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: Middle East and Africa: Lithography Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 34: Middle East and Africa: Lithography Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 35: Latin America: Lithography Systems Market: Sales Value (in Million US\$), 2017 & 2022

Figure 36: Latin America: Lithography Systems Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 37: Lithography Systems Manufacturing: Detailed Process Flow  
?

## I would like to order

Product name: Lithography Systems Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Product link: <https://marketpublishers.com/r/L1073673F65EN.html>

Price: US\$ 2,499.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/L1073673F65EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

