

Global Step Projection Exposure Machine Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Step Projection Exposure Machine market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Stepwise projection exposure machine is an exposure device used in microelectronic manufacturing and semiconductor processes. It is used to manufacture microchips and integrated circuits by shining a light source on a mask and then projecting the pattern of the mask onto a photosensitive material. The working principle of a step-by-step projection exposure machine is as follows: Prepare a mask: Firstly, the manufacturing personnel need to prepare a mask that contains the pattern to be copied on the photosensitive material. Masks are usually made of glass or quartz material, coated with photoresist or photoresist. Alignment and exposure: The photosensitive material (usually silicon wafer) is placed on the countertop of the exposure machine. The optical system between the mask and the light source amplifies the pattern on the mask and focuses the light onto the photosensitive material. By aligning and adjusting, ensure that the pattern of the mask corresponds to a specific area of the photosensitive material. Step by step exposure: The exposure opportunity is exposed in a step-by-step manner based on preset parameters and requirements. It will be exposed in a small area on the mask, and then move the tabletop or mask a short distance to expose again, repeating this process until the entire area of the photosensitive material is exposed. Pattern transmission: Through step-by-step exposure, the patterns on the mask are gradually transmitted to the photosensitive material, forming multiple repeated patterns. These patterns can be circuits, transistors, capacitors, etc. of microchips. The step-by-step projection exposure machine has the characteristics of high precision, high efficiency, and repeatability, suitable for large-scale production and high-precision microelectronics manufacturing. It is widely used in fields such as integrated circuits, flat panel displays, optical devices, and has made important contributions to the development of the

microelectronics industry.

This report studies the global Step Projection Exposure Machine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Step Projection Exposure Machine, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Step Projection Exposure Machine that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Step Projection Exposure Machine total production and demand, 2018-2029, (Units)

Global Step Projection Exposure Machine total production value, 2018-2029, (USD Million)

Global Step Projection Exposure Machine production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Step Projection Exposure Machine consumption by region & country, CAGR, 2018-2029 & (Units)

U.S. VS China: Step Projection Exposure Machine domestic production, consumption, key domestic manufacturers and share

Global Step Projection Exposure Machine production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Units)

Global Step Projection Exposure Machine production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Step Projection Exposure Machine production by Application production, value, CAGR, 2018-2029, (USD Million) & (Units).

This reports profiles key players in the global Step Projection Exposure Machine 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 ASML Holding NV, Nikon Corporation, Canon Inc., Ultratech, Inc., S&S MicroTec SE, EV Group (EVG), Shanghai Micro Electronics Equipment (Group) Co., Ltd., Vistec Electron Beam GmbH and JEOL Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Step Projection Exposure Machine market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Step Projection Exposure Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Step Projection Exposure Machine Market, Segmentation by Type

Ultraviolet Step Projection Exposure Machine

Deep Ultraviolet Step Projection Exposure Machine

EUV Step-by-Step Projection Exposure Machine

Global Step Projection Exposure Machine Market, Segmentation by Application

Semiconductor Manufacturing

Flat Panel Display Manufacturing

Photolithography Research

Others

Companies Profiled:

ASML Holding NV

Nikon Corporation

Canon Inc.

Ultratech, Inc.

S?SS MicroTec SE

EV Group (EVG)

Shanghai Micro Electronics Equipment (Group) Co., Ltd.

Vistec Electron Beam GmbH

JEOL Ltd.

NuFlare Technology Inc.

Orbotech Ltd.

Dainippon Screen Mfg. Co., Ltd.

Advantest Corporation

Toppan Photomasks, Inc.

Ultratech Stepper, Inc.

Key Questions Answered

1. How big is the global Step Projection Exposure Machine market?
2. What is the demand of the global Step Projection Exposure Machine market?
3. What is the year over year growth of the global Step Projection Exposure Machine market?
4. What is the production and production value of the global Step Projection Exposure Machine market?
5. Who are the key producers in the global Step Projection Exposure Machine market?
6. What are the growth factors driving the market demand?

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