

Global Wafer Handling Electrostatic Chuck Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G1BB5EB6F11CEN.html>

Date: December 2024

Pages: 115

Price: US\$ 3,480.00 (Single User License)

ID: G1BB5EB6F11CEN

Abstracts

According to our (Global Info Research) latest study, the global Wafer Handling Electrostatic Chuck market size was valued at USD 1845.5 million in 2023 and is forecast to a readjusted size of USD 2702.3 million by 2030 with a CAGR of 5.6% during review period.

An electrostatic chuck is a component inside semiconductor equipment that is used to hold the semiconductor wafer. In the IoT Society, the demand for semiconductor is growing, which in turn has led to annual increases in the need for installing semiconductor-manufacturing equipment.

The Electrostatic Chuck for Semiconductor Process market covers Coulomb Type, Johnsen-Rahbek (JR) Type. The typical players include Applied Materials, Lam Research, SHINKO, TOTO, Sumitomo Osaka Cement, Creative Technology Corporation, Kyocera, Entegris, etc.

Currently, the Electrostatic Chucks industry is dominated by Japan and USA companies. Especially, Japan companies master the mature technology. Many countries need import from Japan. Such as China, Taiwan, Korea etc.

American companies, such as Applied Materials and Lam, produce Electrostatic Chucks for their own semiconductor equipment (OEM by Japan Companies). In addition, some Electrostatic Chucks are sold to wafer foundries or IDM companies who purchased their semiconductor equipment to replace damaged electrostatic chucks. Since the electrostatic chuck is a consumable, the service life is generally less than two years, so the replacement amount of Electrostatic Chucks is relatively large.

China and Taiwan have already had certain technological breakthroughs in the field of Semiconductor Electrostatic Chuck. The technical update of the Electrostatic Chuck of China mainland enterprises Beijing U-PRECISION TECH have reached the standard and the customer acceptance requirements.

Applied Materials, Lam Research and SHINKO were the top three Revenue share spots in the semiconductor electrostatic chuck market in 2022. Applied Materials dominated with 43.84% revenue market share, followed by Lam Research with 31.58% revenue share and SHINKO with 10.21% revenue share.

The Global Info Research report includes an overview of the development of the Wafer Handling Electrostatic Chuck industry chain, the market status of 300 mm Wafer (Coulomb Type Electrostatic Chuck, Johnsen-Rahbek (JR) Type Electrostatic Chuck), 200 mm Wafer (Coulomb Type Electrostatic Chuck, Johnsen-Rahbek (JR) Type Electrostatic Chuck), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Wafer Handling Electrostatic Chuck.

Regionally, the report analyzes the Wafer Handling Electrostatic Chuck markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Wafer Handling Electrostatic Chuck market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Wafer Handling Electrostatic Chuck market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Wafer Handling Electrostatic Chuck industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Units), revenue generated, and market share of different by Type (e.g., Coulomb Type Electrostatic Chuck, Johnsen-Rahbek (JR) Type Electrostatic Chuck).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Wafer Handling Electrostatic Chuck market.

Regional Analysis: The report involves examining the Wafer Handling Electrostatic Chuck market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Wafer Handling Electrostatic Chuck market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Wafer Handling Electrostatic Chuck:

Company Analysis: Report covers individual Wafer Handling Electrostatic Chuck manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Wafer Handling Electrostatic Chuck. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (300 mm Wafer, 200 mm Wafer).

Technology Analysis: Report covers specific technologies relevant to Wafer Handling Electrostatic Chuck. It assesses the current state, advancements, and potential future developments in Wafer Handling Electrostatic Chuck areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Wafer Handling Electrostatic Chuck market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Wafer Handling Electrostatic Chuck market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Coulomb Type Electrostatic Chuck

Johnsen-Rahbek (JR) Type Electrostatic Chuck

Market segment by Application

300 mm Wafer

200 mm Wafer

Others

Major players covered

Applied Materials

Lam Research

SHINKO

TOTO

Sumitomo Osaka Cement

Creative Technology Corporation

Kyocera

Entegris

NTK CERATEC

NGK Insulators, Ltd.

II-VI M Cubed

Tsukuba Seiko

Calitech

Beijing U-PRECISION TECH CO., LTD.

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 Wafer Handling Electrostatic Chuck product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Wafer Handling Electrostatic Chuck, with price, sales, revenue and global market share of Wafer Handling Electrostatic Chuck from 2019 to 2024.

Chapter 3, the Wafer Handling Electrostatic Chuck competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Wafer Handling Electrostatic Chuck breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Wafer Handling Electrostatic Chuck market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Wafer Handling Electrostatic Chuck.

Chapter 14 and 15, to describe Wafer Handling Electrostatic Chuck sales channel, distributors, customers, research findings and conclusion.

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