

# Global 300 mm Wafer Electrostatic Chucks (ESC) Market Growth 2025-2031

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## Abstracts

The global 300 mm Wafer Electrostatic Chucks (ESC) market size is predicted to grow from US\$ 1251 million in 2025 to US\$ 1850 million in 2031; it is expected to grow at a CAGR of 6.7% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

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.

LP Information, Inc. (LPI) ' newest research report, the "300 mm Wafer Electrostatic Chucks (ESC) Industry Forecast" looks at past sales and reviews total world 300 mm Wafer Electrostatic Chucks (ESC) sales in 2024, providing a comprehensive analysis by region and market sector of projected 300 mm Wafer Electrostatic Chucks (ESC) sales for 2025 through 2031. With 300 mm Wafer Electrostatic Chucks (ESC) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 300 mm Wafer Electrostatic Chucks (ESC) industry.

This Insight Report provides a comprehensive analysis of the global 300 mm Wafer Electrostatic Chucks (ESC) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on 300 mm Wafer Electrostatic Chucks (ESC) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 300 mm Wafer Electrostatic Chucks (ESC) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 300 mm Wafer Electrostatic Chucks (ESC) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global 300 mm Wafer Electrostatic Chucks (ESC).

This report presents a comprehensive overview, market shares, and growth

opportunities of 300 mm Wafer Electrostatic Chucks (ESC) market by product type, application, key manufacturers and key regions and countries.

**Segmentation by Type:**

Coulomb Type Electrostatic Chuck

Johnsen-Rahbek (JR) Type Electrostatic Chuck

**Segmentation by Application:**

Fab

Semiconductor Equipment Factory

**This report also splits the market by region:**

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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.

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global 300 mm Wafer Electrostatic Chucks (ESC) market?

What factors are driving 300 mm Wafer Electrostatic Chucks (ESC) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do 300 mm Wafer Electrostatic Chucks (ESC) market opportunities vary by end market size?

How does 300 mm Wafer Electrostatic Chucks (ESC) break out by Type, by Application?

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