

Global Semiconductor Ozone Equipment Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Semiconductor Ozone Equipment market size is expected to reach \$ 246 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

Semiconductor Ozone Equipment, means semiconductor-grade ozone generation and ozonated water delivery equipment refers to specialized systems used to generate high-purity ozone gas, deliver ozone gas to process tools, dissolve ozone into ultrapure water, control ozone concentration and flow, and safely destruct residual ozone in semiconductor manufacturing and adjacent high-cleanliness processes. The core product scope includes clean ozone gas generators, ozone gas delivery systems, ozonated DI water generators, DIO? delivery systems, functional water ozone modules, and integrated monitoring, control and safety units sold as part of the ozone supply system. These systems are designed for low particle, low metal contamination and stable process performance, and are mainly used in wafer wet cleaning, organic contamination removal, photoresist stripping, post-CMP cleaning, post-etch cleaning, ALD/CVD oxidation, surface conditioning and oxide growth.

Semiconductor ozone equipment should be treated as a process-grade gas and water delivery subsystem rather than a generic industrial ozone generator category. Its core value lies in generating and delivering ozone gas or ozonated DI water with high purity, low contamination, stable concentration, controlled flow and pressure, and semiconductor-grade safety interlocks. The relevant product scope includes clean ozone gas generators, integrated ozone delivery systems, DIO? systems and ozonated water generators used in wet cleaning, photoresist stripping, ALD/CVD oxidation, post-CMP cleaning, post-etch cleaning and wafer surface conditioning. Official product information from MKS, EBARA, Sumitomo Precision and Meidensha shows that the

market is organized around high-purity ozone gas, ozonated water and integrated delivery subsystems rather than stand-alone industrial ozone machines.

From a supply-side perspective, this is a specialized and relatively concentrated niche market. The United States and Japan host the most established suppliers, while China is moving from semiconductor-adjacent ozone experience toward domestic fab qualification. Guolin Semiconductor and Suzhou Jingtuo both disclose semiconductor-focused ozone gas, ozone delivery and high-concentration ozonated water systems, which suggests that China's local supply base is no longer limited to generic industrial ozone equipment. However, the main gap between domestic suppliers and global incumbents remains process qualification, long-term contamination control, installed base, safety certification and tool-level integration capability.

Demand growth is driven by advanced wet cleaning, chemical reduction, oxidation processes in ALD/CVD, post-CMP cleaning, post-etch cleaning, advanced packaging and the broader shift toward cleaner process chemistries. Ozonated DI water can reduce chemical usage in certain cleaning steps, while high-purity ozone gas can serve as an oxidation source in selected deposition and surface conditioning processes. The market outlook is positive but not explosive, because ozone must compete with established wet chemistries, plasma-based cleaning, UV-ozone processes and customer-specific oxidation routes.

This report studies the global Semiconductor Ozone Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor Ozone Equipment 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 Ozone Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Semiconductor Ozone Equipment total production and demand, 2021-2032, (Units)

Global Semiconductor Ozone Equipment total production value, 2021-2032, (USD Million)

Global Semiconductor Ozone Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Semiconductor Ozone Equipment consumption by region & country, CAGR,

2021-2032 & (Units)

U.S. VS China: Semiconductor Ozone Equipment domestic production, consumption, key domestic manufacturers and share

Global Semiconductor Ozone Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Semiconductor Ozone Equipment production by Product Form, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Semiconductor Ozone Equipment production by Process Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Semiconductor Ozone Equipment 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 MKS Instruments, Inc., EBARA, Sumitomo Precision Products, Meidensha / Meiden NPI, Organo Corporation, Nomura Micro Science, Kurita Water Industries Ltd., HJS ENG, EcoDesign, Inc., Anseros Klaus Nonnenmacher GmbH, 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 Ozone Equipment 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 Product Form, and by Process 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 Ozone Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Ozone Equipment Market, Segmentation by Product Form:

Ozone Gas Generator

Ozone Gas Delivery System

Ozonated Water Generator / DIO3 System

Other

Global Semiconductor Ozone Equipment Market, Segmentation by End-use Process Platform:

300mm Advanced Logic/Memory Fab

200mm/Mature-node Fab

Advanced Packaging

Compound Semiconductor/MEMS

Global Semiconductor Ozone Equipment Market, Segmentation by Technology Route:

Dielectric Barrier/Silent Discharge

Flat-plate/Ceramic Clean Discharge Cell

Trench Discharge Cell

Pure Ozone Liquefaction and Storage

Gas-to-UPW Dissolution/Membrane Contacting

Other/Emerging Routes

Global Semiconductor Ozone Equipment Market, Segmentation by Process Application:

Wafer Wet Cleaning

Photoresist Strip/Organic Removal

ALD/CVD Oxidation

Post-CMP/Post-Etch Cleaning

Surface Conditioning/Oxide Growth

Other High-cleanliness Processes

Companies Profiled:

MKS Instruments, Inc.

EBARA

Sumitomo Precision Products

Meidensha / Meiden NPI

Organo Corporation

Nomura Micro Science

Kurita Water Industries Ltd.

HJS ENG

EcoDesign, Inc.

Anseros Klaus Nonnenmacher GmbH

DCA Instruments Oy

De Nora Permelec

MTK Co., Ltd.

Inquivix Technologies

PLUS TECH

Anseros

Suzhou Jingtuo Semiconductor Technology

Qingdao Guolin Technology Semiconductor

Zhihua Semiconductor

Hefei SMI Semiconductor

Tianjin Orsman New Energy Technology (OLSM)

Shandong Zhiwei Intelligent Manufacturing Group

Hefei Hengxin Semiconductor

Shanghai Chengchunis

Suzhou JoneSolar New Energy Technology

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Semiconductor Ozone Equipment Production Value by Manufacturer (2021-2026)
- 3.2 World Semiconductor Ozone Equipment Production by Manufacturer (2021-2026)
- 3.3 World Semiconductor Ozone Equipment Average Price by Manufacturer (2021-2026)
- 3.4 Semiconductor Ozone Equipment Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Semiconductor Ozone Equipment Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Semiconductor Ozone Equipment in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Semiconductor Ozone Equipment in 2025
- 3.6 Semiconductor Ozone Equipment Market: Overall Company Footprint Analysis
 - 3.6.1 Semiconductor Ozone Equipment Market: Region Footprint
 - 3.6.2 Semiconductor Ozone Equipment Market: Company Product Type Footprint
 - 3.6.3 Semiconductor Ozone Equipment 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 Ozone Equipment Production Value Comparison
 - 4.1.1 United States VS China: Semiconductor Ozone Equipment Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Semiconductor Ozone Equipment Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Semiconductor Ozone Equipment Production Comparison
 - 4.2.1 United States VS China: Semiconductor Ozone Equipment Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Semiconductor Ozone Equipment Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Semiconductor Ozone Equipment Consumption

Comparison

4.3.1 United States VS China: Semiconductor Ozone Equipment Consumption

Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Semiconductor Ozone Equipment Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Semiconductor Ozone Equipment Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Semiconductor Ozone Equipment Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Semiconductor Ozone Equipment Production Value (2021-2026)

4.4.3 United States Based Manufacturers Semiconductor Ozone Equipment Production (2021-2026)

4.5 China Based Semiconductor Ozone Equipment Manufacturers and Market Share

4.5.1 China Based Semiconductor Ozone Equipment Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Semiconductor Ozone Equipment Production Value (2021-2026)

4.5.3 China Based Manufacturers Semiconductor Ozone Equipment Production (2021-2026)

4.6 Rest of World Based Semiconductor Ozone Equipment Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Semiconductor Ozone Equipment Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Semiconductor Ozone Equipment Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Semiconductor Ozone Equipment Production (2021-2026)

5 MARKET ANALYSIS BY PRODUCT FORM

5.1 World Semiconductor Ozone Equipment Market Size Overview by Product Form: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Product Form

5.2.1 Ozone Gas Generator

5.2.2 Ozone Gas Delivery System

5.2.3 Ozonated Water Generator / DIO3 System

5.2.4 Other

5.3 Market Segment by Product Form

- 5.3.1 World Semiconductor Ozone Equipment Production by Product Form (2021-2032)
- 5.3.2 World Semiconductor Ozone Equipment Production Value by Product Form (2021-2032)
- 5.3.3 World Semiconductor Ozone Equipment Average Price by Product Form (2021-2032)

6 MARKET ANALYSIS BY END-USE PROCESS PLATFORM

- 6.1 World Semiconductor Ozone Equipment Market Size Overview by End-use Process Platform: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by End-use Process Platform
 - 6.2.1 300mm Advanced Logic/Memory Fab
 - 6.2.2 200mm/Mature-node Fab
 - 6.2.3 Advanced Packaging
 - 6.2.4 Compound Semiconductor/MEMS
- 6.3 Market Segment by End-use Process Platform
 - 6.3.1 World Semiconductor Ozone Equipment Production by End-use Process Platform (2021-2032)
 - 6.3.2 World Semiconductor Ozone Equipment Production Value by End-use Process Platform (2021-2032)
 - 6.3.3 World Semiconductor Ozone Equipment Average Price by End-use Process Platform (2021-2032)

7 MARKET ANALYSIS BY TECHNOLOGY ROUTE

- 7.1 World Semiconductor Ozone Equipment Market Size Overview by Technology Route: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Technology Route
 - 7.2.1 Dielectric Barrier/Silent Discharge
 - 7.2.2 Flat-plate/Ceramic Clean Discharge Cell
 - 7.2.3 Trench Discharge Cell
 - 7.2.4 Pure Ozone Liquefaction and Storage
 - 7.2.5 Gas-to-UPW Dissolution/Membrane Contacting
 - 7.2.6 Other/Emerging Routes
- 7.3 Market Segment by Technology Route
 - 7.3.1 World Semiconductor Ozone Equipment Production by Technology Route (2021-2032)
 - 7.3.2 World Semiconductor Ozone Equipment Production Value by Technology Route

(2021-2032)

7.3.3 World Semiconductor Ozone Equipment Average Price by Technology Route
(2021-2032)

8 MARKET ANALYSIS BY PROCESS APPLICATION

8.1 World Semiconductor Ozone Equipment Market Size Overview by Process
Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Process Application

8.2.1 Wafer Wet Cleaning

8.2.2 Photoresist Strip/Organic Removal

8.2.3 ALD/CVD Oxidation

8.2.4 Post-CMP/Post-Etch Cleaning

8.2.5 Surface Conditioning/Oxide Growth

8.2.6 Other High-cleanliness Processes

8.3 Market Segment by Process Application

8.3.1 World Semiconductor Ozone Equipment Production by Process Application
(2021-2032)

8.3.2 World Semiconductor Ozone Equipment Production Value by Process
Application (2021-2032)

8.3.3 World Semiconductor Ozone Equipment Average Price by Process Application
(2021-2032)

9 COMPANY PROFILES

9.1 MKS Instruments, Inc.

9.1.1 MKS Instruments, Inc. Details

9.1.2 MKS Instruments, Inc. Major Business

9.1.3 MKS Instruments, Inc. Semiconductor Ozone Equipment Product and Services

9.1.4 MKS Instruments, Inc. Semiconductor Ozone Equipment Production, Price,
Value, Gross Margin and Market Share (2021-2026)

9.1.5 MKS Instruments, Inc. Recent Developments/Updates

9.1.6 MKS Instruments, Inc. Competitive Strengths & Weaknesses

9.2 EBARA

9.2.1 EBARA Details

9.2.2 EBARA Major Business

9.2.3 EBARA Semiconductor Ozone Equipment Product and Services

9.2.4 EBARA Semiconductor Ozone Equipment Production, Price, Value, Gross
Margin and Market Share (2021-2026)

- 9.2.5 EBARA Recent Developments/Updates
- 9.2.6 EBARA Competitive Strengths & Weaknesses
- 9.3 Sumitomo Precision Products
 - 9.3.1 Sumitomo Precision Products Details
 - 9.3.2 Sumitomo Precision Products Major Business
 - 9.3.3 Sumitomo Precision Products Semiconductor Ozone Equipment Product and Services
 - 9.3.4 Sumitomo Precision Products Semiconductor Ozone Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Sumitomo Precision Products Recent Developments/Updates
 - 9.3.6 Sumitomo Precision Products Competitive Strengths & Weaknesses
- 9.4 Meidensha / Meiden NPI
 - 9.4.1 Meidensha / Meiden NPI Details
 - 9.4.2 Meidensha / Meiden NPI Major Business
 - 9.4.3 Meidensha / Meiden NPI Semiconductor Ozone Equipment Product and Services
 - 9.4.4 Meidensha / Meiden NPI Semiconductor Ozone Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Meidensha / Meiden NPI Recent Developments/Updates
 - 9.4.6 Meidensha / Meiden NPI Competitive Strengths & Weaknesses
- 9.5 Organo Corporation
 - 9.5.1 Organo Corporation Details
 - 9.5.2 Organo Corporation Major Business
 - 9.5.3 Organo Corporation Semiconductor Ozone Equipment Product and Services
 - 9.5.4 Organo Corporation Semiconductor Ozone Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Organo Corporation Recent Developments/Updates
 - 9.5.6 Organo Corporation Competitive Strengths & Weaknesses
- 9.6 Nomura Micro Science
 - 9.6.1 Nomura Micro Science Details
 - 9.6.2 Nomura Micro Science Major Business
 - 9.6.3 Nomura Micro Science Semiconductor Ozone Equipment Product and Services
 - 9.6.4 Nomura Micro Science Semiconductor Ozone Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Nomura Micro Science Recent Developments/Updates
 - 9.6.6 Nomura Micro Science Competitive Strengths & Weaknesses
- 9.7 Kurita Water Industries Ltd.
 - 9.7.1 Kurita Water Industries Ltd. Details
 - 9.7.2 Kurita Water Industries Ltd. Major Business

9.7.3 Kurita Water Industries Ltd. Semiconductor Ozone Equipment Product and Services

9.7.4 Kurita Water Industries Ltd. Semiconductor Ozone Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Kurita Water Industries Ltd. Recent Developments/Updates

9.7.6 Kurita Water Industries Ltd. Competitive Strengths & Weaknesses

9.8 HJS ENG

9.8.1 HJS ENG Details

9.8.2 HJS ENG Major Business

9.8.3 HJS ENG Semiconductor Ozone Equipment Product and Services

9.8.4 HJS ENG Semiconductor Ozone Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 HJS ENG Recent Developments/Updates

9.8.6 HJS ENG Competitive Strengths & Weaknesses

9.9 EcoDesign, Inc.

9.9.1 EcoDesign, Inc. Details

9.9.2 EcoDesign, Inc. Major Business

9.9.3 EcoDesign, Inc. Semiconductor Ozone Equipment Product and Services

9.9.4 EcoDesign, Inc. Semiconductor Ozone Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 EcoDesign, Inc. Recent Developments/Updates

9.9.6 EcoDesign, Inc. Competitive Strengths & Weaknesses

9.10 Anseros Klaus Nonnenmacher GmbH

9.10.1 Anseros Klaus Nonnenmacher GmbH Details

9.10.2 Anseros Klaus Nonnenmacher GmbH Major Business

9.10.3 Anseros Klaus Nonnenmacher GmbH Semiconductor Ozone Equipment Product and Services

9.10.4 Anseros Klaus Nonnenmacher GmbH Semiconductor Ozone Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Anseros Klaus Nonnenmacher GmbH Recent Developments/Updates

9.10.6 Anseros Klaus Nonnenmacher GmbH Competitive Strengths & Weaknesses

9.11 DCA Instruments Oy

9.11.1 DCA Instruments Oy Details

9.11.2 DCA Instruments Oy Major Business

9.11.3 DCA Instruments Oy Semiconductor Ozone Equipment Product and Services

9.11.4 DCA Instruments Oy Semiconductor Ozone Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 DCA Instruments Oy Recent Developments/Updates

9.11.6 DCA Instruments Oy Competitive Strengths & Weaknesses

9.12 De Nora Permelec

9.12.1 De Nora Permelec Details

9.12.2 De Nora Permelec Major Business

9.12.3 De Nora Permelec Semiconductor Ozone Equipment Product and Services

9.12.4 De Nora Permelec Semiconductor Ozone Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 De Nora Permelec Recent Developments/Updates

9.12.6 De Nora Permelec Competitive Strengths & Weaknesses

9.13 MTK Co., Ltd.

9.13.1 MTK Co., Ltd. Details

9.13.2 MTK Co., Ltd. Major Business

9.13.3 MTK Co., Ltd. Semiconductor Ozone Equipment Product and Services

9.13.4 MTK Co., Ltd. Semiconductor Ozone Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 MTK Co., Ltd. Recent Developments/Updates

9.13.6 MTK Co., Ltd. Competitive Strengths & Weaknesses

9.14 Inquivix Technologies

9.14.1 Inquivix Technologies Details

9.14.2 Inquivix Technologies Major Business

9.14.3 Inquivix Technologies Semiconductor Ozone Equipment Product and Services

9.14.4 Inquivix Technologies Semiconductor Ozone Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Inquivix Technologies Recent Developments/Updates

9.14.6 Inquivix Technologies Competitive Strengths & Weaknesses

9.15 PLUS TECH

9.15.1 PLUS TECH Details

9.15.2 PLUS TECH Major Business

9.15.3 PLUS TECH Semiconductor Ozone Equipment Product and Services

9.15.4 PLUS TECH Semiconductor Ozone Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 PLUS TECH Recent Developments/Updates

9.15.6 PLUS TECH Competitive Strengths & Weaknesses

9.16 Anseros

9.16.1 Anseros Details

9.16.2 Anseros Major Business

9.16.3 Anseros Semiconductor Ozone Equipment Product and Services

9.16.4 Anseros Semiconductor Ozone Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 Anseros Recent Developments/Updates

- 9.16.6 Anseros Competitive Strengths & Weaknesses
- 9.17 Suzhou Jingtuo Semiconductor Technology
 - 9.17.1 Suzhou Jingtuo Semiconductor Technology Details
 - 9.17.2 Suzhou Jingtuo Semiconductor Technology Major Business
 - 9.17.3 Suzhou Jingtuo Semiconductor Technology Semiconductor Ozone Equipment Product and Services
 - 9.17.4 Suzhou Jingtuo Semiconductor Technology Semiconductor Ozone Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 Suzhou Jingtuo Semiconductor Technology Recent Developments/Updates
 - 9.17.6 Suzhou Jingtuo Semiconductor Technology Competitive Strengths & Weaknesses
- 9.18 Qingdao Guolin Technology Semiconductor
 - 9.18.1 Qingdao Guolin Technology Semiconductor Details
 - 9.18.2 Qingdao Guolin Technology Semiconductor Major Business
 - 9.18.3 Qingdao Guolin Technology Semiconductor Semiconductor Ozone Equipment Product and Services
 - 9.18.4 Qingdao Guolin Technology Semiconductor Semiconductor Ozone Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 Qingdao Guolin Technology Semiconductor Recent Developments/Updates
 - 9.18.6 Qingdao Guolin Technology Semiconductor Competitive Strengths & Weaknesses
- 9.19 Zhihua Semiconductor
 - 9.19.1 Zhihua Semiconductor Details
 - 9.19.2 Zhihua Semiconductor Major Business
 - 9.19.3 Zhihua Semiconductor Semiconductor Ozone Equipment Product and Services
 - 9.19.4 Zhihua Semiconductor Semiconductor Ozone Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.19.5 Zhihua Semiconductor Recent Developments/Updates
 - 9.19.6 Zhihua Semiconductor Competitive Strengths & Weaknesses
- 9.20 Hefei SMI Semiconductor
 - 9.20.1 Hefei SMI Semiconductor Details
 - 9.20.2 Hefei SMI Semiconductor Major Business
 - 9.20.3 Hefei SMI Semiconductor Semiconductor Ozone Equipment Product and Services
 - 9.20.4 Hefei SMI Semiconductor Semiconductor Ozone Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.20.5 Hefei SMI Semiconductor Recent Developments/Updates
 - 9.20.6 Hefei SMI Semiconductor Competitive Strengths & Weaknesses
- 9.21 Tianjin Orsman New Energy Technology (OLSM)

- 9.21.1 Tianjin Orsman New Energy Technology (OLSM) Details
- 9.21.2 Tianjin Orsman New Energy Technology (OLSM) Major Business
- 9.21.3 Tianjin Orsman New Energy Technology (OLSM) Semiconductor Ozone Equipment Product and Services
- 9.21.4 Tianjin Orsman New Energy Technology (OLSM) Semiconductor Ozone Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.21.5 Tianjin Orsman New Energy Technology (OLSM) Recent Developments/Updates
- 9.21.6 Tianjin Orsman New Energy Technology (OLSM) Competitive Strengths & Weaknesses
- 9.22 Shandong Zhiwei Intelligent Manufacturing Group
 - 9.22.1 Shandong Zhiwei Intelligent Manufacturing Group Details
 - 9.22.2 Shandong Zhiwei Intelligent Manufacturing Group Major Business
 - 9.22.3 Shandong Zhiwei Intelligent Manufacturing Group Semiconductor Ozone Equipment Product and Services
 - 9.22.4 Shandong Zhiwei Intelligent Manufacturing Group Semiconductor Ozone Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.22.5 Shandong Zhiwei Intelligent Manufacturing Group Recent Developments/Updates
 - 9.22.6 Shandong Zhiwei Intelligent Manufacturing Group Competitive Strengths & Weaknesses
- 9.23 Hefei Hengxin Semiconductor
 - 9.23.1 Hefei Hengxin Semiconductor Details
 - 9.23.2 Hefei Hengxin Semiconductor Major Business
 - 9.23.3 Hefei Hengxin Semiconductor Semiconductor Ozone Equipment Product and Services
 - 9.23.4 Hefei Hengxin Semiconductor Semiconductor Ozone Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.23.5 Hefei Hengxin Semiconductor Recent Developments/Updates
 - 9.23.6 Hefei Hengxin Semiconductor Competitive Strengths & Weaknesses
- 9.24 Shanghai Chengchunis
 - 9.24.1 Shanghai Chengchunis Details
 - 9.24.2 Shanghai Chengchunis Major Business
 - 9.24.3 Shanghai Chengchunis Semiconductor Ozone Equipment Product and Services
 - 9.24.4 Shanghai Chengchunis Semiconductor Ozone Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.24.5 Shanghai Chengchunis Recent Developments/Updates
 - 9.24.6 Shanghai Chengchunis Competitive Strengths & Weaknesses
- 9.25 Suzhou JoneSolar New Energy Technology

- 9.25.1 Suzhou JoneSolar New Energy Technology Details
- 9.25.2 Suzhou JoneSolar New Energy Technology Major Business
- 9.25.3 Suzhou JoneSolar New Energy Technology Semiconductor Ozone Equipment Product and Services
- 9.25.4 Suzhou JoneSolar New Energy Technology Semiconductor Ozone Equipment Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.25.5 Suzhou JoneSolar New Energy Technology Recent Developments/Updates
- 9.25.6 Suzhou JoneSolar New Energy Technology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Semiconductor Ozone Equipment Industry Chain
- 10.2 Semiconductor Ozone Equipment Upstream Analysis
 - 10.2.1 Semiconductor Ozone Equipment Core Raw Materials
 - 10.2.2 Main Manufacturers of Semiconductor Ozone Equipment Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Semiconductor Ozone Equipment Production Mode
- 10.6 Semiconductor Ozone Equipment Procurement Model
- 10.7 Semiconductor Ozone Equipment Industry Sales Model and Sales Channels
 - 10.7.1 Semiconductor Ozone Equipment Sales Model
 - 10.7.2 Semiconductor Ozone Equipment 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 Ozone Equipment Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Semiconductor Ozone Equipment Production Value by Region (2021-2026) & (USD Million)

Table 3. World Semiconductor Ozone Equipment Production Value by Region (2027-2032) & (USD Million)

Table 4. World Semiconductor Ozone Equipment Production Value Market Share by Region (2021-2026)

Table 5. World Semiconductor Ozone Equipment Production Value Market Share by Region (2027-2032)

Table 6. World Semiconductor Ozone Equipment Production by Region (2021-2026) & (Units)

Table 7. World Semiconductor Ozone Equipment Production by Region (2027-2032) & (Units)

Table 8. World Semiconductor Ozone Equipment Production Market Share by Region (2021-2026)

Table 9. World Semiconductor Ozone Equipment Production Market Share by Region (2027-2032)

Table 10. World Semiconductor Ozone Equipment Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Semiconductor Ozone Equipment Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Semiconductor Ozone Equipment Major Market Trends

Table 13. World Semiconductor Ozone Equipment Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Semiconductor Ozone Equipment Consumption by Region (2021-2026) & (Units)

Table 15. World Semiconductor Ozone Equipment Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Semiconductor Ozone Equipment Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Semiconductor Ozone Equipment Producers in 2025

Table 18. World Semiconductor Ozone Equipment Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Semiconductor Ozone Equipment Producers in 2025

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

Table 21. Global Semiconductor Ozone Equipment Company Evaluation Quadrant

Table 22. World Semiconductor Ozone Equipment Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Semiconductor Ozone Equipment Production Site of Key Manufacturer

Table 24. Semiconductor Ozone Equipment Market: Company Product Type Footprint

Table 25. Semiconductor Ozone Equipment Market: Company Product Application Footprint

Table 26. Semiconductor Ozone Equipment Competitive Factors

Table 27. Semiconductor Ozone Equipment New Entrant and Capacity Expansion Plans

Table 28. Semiconductor Ozone Equipment Mergers & Acquisitions Activity

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

Table 30. United States VS China Semiconductor Ozone Equipment Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Semiconductor Ozone Equipment Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Semiconductor Ozone Equipment Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Semiconductor Ozone Equipment Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Semiconductor Ozone Equipment Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Semiconductor Ozone Equipment Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Semiconductor Ozone Equipment Production Market Share (2021-2026)

Table 37. China Based Semiconductor Ozone Equipment Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Semiconductor Ozone Equipment Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Semiconductor Ozone Equipment Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Semiconductor Ozone Equipment Production,

(2021-2026) & (Units)

Table 41. China Based Manufacturers Semiconductor Ozone Equipment Production Market Share (2021-2026)

Table 42. Rest of World Based Semiconductor Ozone Equipment Manufacturers, Headquarters and Production Site (State, Country)

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

Table 44. Rest of World Based Manufacturers Semiconductor Ozone Equipment Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Semiconductor Ozone Equipment Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Semiconductor Ozone Equipment Production Market Share (2021-2026)

Table 47. World Semiconductor Ozone Equipment Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Table 48. World Semiconductor Ozone Equipment Production by Product Form (2021-2026) & (Units)

Table 49. World Semiconductor Ozone Equipment Production by Product Form (2027-2032) & (Units)

Table 50. World Semiconductor Ozone Equipment Production Value by Product Form (2021-2026) & (USD Million)

Table 51. World Semiconductor Ozone Equipment Production Value by Product Form (2027-2032) & (USD Million)

Table 52. World Semiconductor Ozone Equipment Average Price by Product Form (2021-2026) & (US\$/Unit)

Table 53. World Semiconductor Ozone Equipment Average Price by Product Form (2027-2032) & (US\$/Unit)

Table 54. World Semiconductor Ozone Equipment Production Value by End-use Process Platform, (USD Million), 2021 & 2025 & 2032

Table 55. World Semiconductor Ozone Equipment Production by End-use Process Platform (2021-2026) & (Units)

Table 56. World Semiconductor Ozone Equipment Production by End-use Process Platform (2027-2032) & (Units)

Table 57. World Semiconductor Ozone Equipment Production Value by End-use Process Platform (2021-2026) & (USD Million)

Table 58. World Semiconductor Ozone Equipment Production Value by End-use Process Platform (2027-2032) & (USD Million)

Table 59. World Semiconductor Ozone Equipment Average Price by End-use Process Platform (2021-2026) & (US\$/Unit)

Table 60. World Semiconductor Ozone Equipment Average Price by End-use Process Platform (2027-2032) & (US\$/Unit)

Table 61. World Semiconductor Ozone Equipment Production Value by Technology Route, (USD Million), 2021 & 2025 & 2032

Table 62. World Semiconductor Ozone Equipment Production by Technology Route (2021-2026) & (Units)

Table 63. World Semiconductor Ozone Equipment Production by Technology Route (2027-2032) & (Units)

Table 64. World Semiconductor Ozone Equipment Production Value by Technology Route (2021-2026) & (USD Million)

Table 65. World Semiconductor Ozone Equipment Production Value by Technology Route (2027-2032) & (USD Million)

Table 66. World Semiconductor Ozone Equipment Average Price by Technology Route (2021-2026) & (US\$/Unit)

Table 67. World Semiconductor Ozone Equipment Average Price by Technology Route (2027-2032) & (US\$/Unit)

Table 68. World Semiconductor Ozone Equipment Production Value by Process Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Semiconductor Ozone Equipment Production by Process Application (2021-2026) & (Units)

Table 70. World Semiconductor Ozone Equipment Production by Process Application (2027-2032) & (Units)

Table 71. World Semiconductor Ozone Equipment Production Value by Process Application (2021-2026) & (USD Million)

Table 72. World Semiconductor Ozone Equipment Production Value by Process Application (2027-2032) & (USD Million)

Table 73. World Semiconductor Ozone Equipment Average Price by Process Application (2021-2026) & (US\$/Unit)

Table 74. World Semiconductor Ozone Equipment Average Price by Process Application (2027-2032) & (US\$/Unit)

Table 75. MKS Instruments, Inc. Basic Information, Manufacturing Base and Competitors

Table 76. MKS Instruments, Inc. Major Business

Table 77. MKS Instruments, Inc. Semiconductor Ozone Equipment Product and Services

Table 78. MKS Instruments, Inc. Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. MKS Instruments, Inc. Recent Developments/Updates

Table 80. MKS Instruments, Inc. Competitive Strengths & Weaknesses
Table 81. EBARA Basic Information, Manufacturing Base and Competitors
Table 82. EBARA Major Business
Table 83. EBARA Semiconductor Ozone Equipment Product and Services
Table 84. EBARA Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. EBARA Recent Developments/Updates
Table 86. EBARA Competitive Strengths & Weaknesses
Table 87. Sumitomo Precision Products Basic Information, Manufacturing Base and Competitors
Table 88. Sumitomo Precision Products Major Business
Table 89. Sumitomo Precision Products Semiconductor Ozone Equipment Product and Services
Table 90. Sumitomo Precision Products Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Sumitomo Precision Products Recent Developments/Updates
Table 92. Sumitomo Precision Products Competitive Strengths & Weaknesses
Table 93. Meidensha / Meiden NPI Basic Information, Manufacturing Base and Competitors
Table 94. Meidensha / Meiden NPI Major Business
Table 95. Meidensha / Meiden NPI Semiconductor Ozone Equipment Product and Services
Table 96. Meidensha / Meiden NPI Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Meidensha / Meiden NPI Recent Developments/Updates
Table 98. Meidensha / Meiden NPI Competitive Strengths & Weaknesses
Table 99. Organo Corporation Basic Information, Manufacturing Base and Competitors
Table 100. Organo Corporation Major Business
Table 101. Organo Corporation Semiconductor Ozone Equipment Product and Services
Table 102. Organo Corporation Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Organo Corporation Recent Developments/Updates
Table 104. Organo Corporation Competitive Strengths & Weaknesses
Table 105. Nomura Micro Science Basic Information, Manufacturing Base and Competitors

Table 106. Nomura Micro Science Major Business

Table 107. Nomura Micro Science Semiconductor Ozone Equipment Product and Services

Table 108. Nomura Micro Science Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Nomura Micro Science Recent Developments/Updates

Table 110. Nomura Micro Science Competitive Strengths & Weaknesses

Table 111. Kurita Water Industries Ltd. Basic Information, Manufacturing Base and Competitors

Table 112. Kurita Water Industries Ltd. Major Business

Table 113. Kurita Water Industries Ltd. Semiconductor Ozone Equipment Product and Services

Table 114. Kurita Water Industries Ltd. Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Kurita Water Industries Ltd. Recent Developments/Updates

Table 116. Kurita Water Industries Ltd. Competitive Strengths & Weaknesses

Table 117. HJS ENG Basic Information, Manufacturing Base and Competitors

Table 118. HJS ENG Major Business

Table 119. HJS ENG Semiconductor Ozone Equipment Product and Services

Table 120. HJS ENG Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. HJS ENG Recent Developments/Updates

Table 122. HJS ENG Competitive Strengths & Weaknesses

Table 123. EcoDesign, Inc. Basic Information, Manufacturing Base and Competitors

Table 124. EcoDesign, Inc. Major Business

Table 125. EcoDesign, Inc. Semiconductor Ozone Equipment Product and Services

Table 126. EcoDesign, Inc. Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. EcoDesign, Inc. Recent Developments/Updates

Table 128. EcoDesign, Inc. Competitive Strengths & Weaknesses

Table 129. Anseros Klaus Nonnenmacher GmbH Basic Information, Manufacturing Base and Competitors

Table 130. Anseros Klaus Nonnenmacher GmbH Major Business

Table 131. Anseros Klaus Nonnenmacher GmbH Semiconductor Ozone Equipment Product and Services

Table 132. Anseros Klaus Nonnenmacher GmbH Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Anseros Klaus Nonnenmacher GmbH Recent Developments/Updates

Table 134. Anseros Klaus Nonnenmacher GmbH Competitive Strengths & Weaknesses

Table 135. DCA Instruments Oy Basic Information, Manufacturing Base and Competitors

Table 136. DCA Instruments Oy Major Business

Table 137. DCA Instruments Oy Semiconductor Ozone Equipment Product and Services

Table 138. DCA Instruments Oy Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. DCA Instruments Oy Recent Developments/Updates

Table 140. DCA Instruments Oy Competitive Strengths & Weaknesses

Table 141. De Nora Permelec Basic Information, Manufacturing Base and Competitors

Table 142. De Nora Permelec Major Business

Table 143. De Nora Permelec Semiconductor Ozone Equipment Product and Services

Table 144. De Nora Permelec Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. De Nora Permelec Recent Developments/Updates

Table 146. De Nora Permelec Competitive Strengths & Weaknesses

Table 147. MTK Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 148. MTK Co., Ltd. Major Business

Table 149. MTK Co., Ltd. Semiconductor Ozone Equipment Product and Services

Table 150. MTK Co., Ltd. Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. MTK Co., Ltd. Recent Developments/Updates

Table 152. MTK Co., Ltd. Competitive Strengths & Weaknesses

Table 153. Inquivix Technologies Basic Information, Manufacturing Base and Competitors

Table 154. Inquivix Technologies Major Business

Table 155. Inquivix Technologies Semiconductor Ozone Equipment Product and Services

Table 156. Inquivix Technologies Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Inquixiv Technologies Recent Developments/Updates
Table 158. Inquixiv Technologies Competitive Strengths & Weaknesses
Table 159. PLUS TECH Basic Information, Manufacturing Base and Competitors
Table 160. PLUS TECH Major Business
Table 161. PLUS TECH Semiconductor Ozone Equipment Product and Services
Table 162. PLUS TECH Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. PLUS TECH Recent Developments/Updates
Table 164. PLUS TECH Competitive Strengths & Weaknesses
Table 165. Anseros Basic Information, Manufacturing Base and Competitors
Table 166. Anseros Major Business
Table 167. Anseros Semiconductor Ozone Equipment Product and Services
Table 168. Anseros Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 169. Anseros Recent Developments/Updates
Table 170. Anseros Competitive Strengths & Weaknesses
Table 171. Suzhou Jingtuo Semiconductor Technology Basic Information, Manufacturing Base and Competitors
Table 172. Suzhou Jingtuo Semiconductor Technology Major Business
Table 173. Suzhou Jingtuo Semiconductor Technology Semiconductor Ozone Equipment Product and Services
Table 174. Suzhou Jingtuo Semiconductor Technology Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 175. Suzhou Jingtuo Semiconductor Technology Recent Developments/Updates
Table 176. Suzhou Jingtuo Semiconductor Technology Competitive Strengths & Weaknesses
Table 177. Qingdao Guolin Technology Semiconductor Basic Information, Manufacturing Base and Competitors
Table 178. Qingdao Guolin Technology Semiconductor Major Business
Table 179. Qingdao Guolin Technology Semiconductor Semiconductor Ozone Equipment Product and Services
Table 180. Qingdao Guolin Technology Semiconductor Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 181. Qingdao Guolin Technology Semiconductor Recent Developments/Updates
Table 182. Qingdao Guolin Technology Semiconductor Competitive Strengths &

Weaknesses

Table 183. Zhihua Semiconductor Basic Information, Manufacturing Base and Competitors

Table 184. Zhihua Semiconductor Major Business

Table 185. Zhihua Semiconductor Semiconductor Ozone Equipment Product and Services

Table 186. Zhihua Semiconductor Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Zhihua Semiconductor Recent Developments/Updates

Table 188. Zhihua Semiconductor Competitive Strengths & Weaknesses

Table 189. Hefei SMI Semiconductor Basic Information, Manufacturing Base and Competitors

Table 190. Hefei SMI Semiconductor Major Business

Table 191. Hefei SMI Semiconductor Semiconductor Ozone Equipment Product and Services

Table 192. Hefei SMI Semiconductor Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. Hefei SMI Semiconductor Recent Developments/Updates

Table 194. Hefei SMI Semiconductor Competitive Strengths & Weaknesses

Table 195. Tianjin Orsman New Energy Technology (OLSM) Basic Information, Manufacturing Base and Competitors

Table 196. Tianjin Orsman New Energy Technology (OLSM) Major Business

Table 197. Tianjin Orsman New Energy Technology (OLSM) Semiconductor Ozone Equipment Product and Services

Table 198. Tianjin Orsman New Energy Technology (OLSM) Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. Tianjin Orsman New Energy Technology (OLSM) Recent Developments/Updates

Table 200. Tianjin Orsman New Energy Technology (OLSM) Competitive Strengths & Weaknesses

Table 201. Shandong Zhiwei Intelligent Manufacturing Group Basic Information, Manufacturing Base and Competitors

Table 202. Shandong Zhiwei Intelligent Manufacturing Group Major Business

Table 203. Shandong Zhiwei Intelligent Manufacturing Group Semiconductor Ozone Equipment Product and Services

Table 204. Shandong Zhiwei Intelligent Manufacturing Group Semiconductor Ozone

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

Table 205. Shandong Zhiwei Intelligent Manufacturing Group Recent Developments/Updates

Table 206. Shandong Zhiwei Intelligent Manufacturing Group Competitive Strengths & Weaknesses

Table 207. Hefei Hengxin Semiconductor Basic Information, Manufacturing Base and Competitors

Table 208. Hefei Hengxin Semiconductor Major Business

Table 209. Hefei Hengxin Semiconductor Semiconductor Ozone Equipment Product and Services

Table 210. Hefei Hengxin Semiconductor Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 211. Hefei Hengxin Semiconductor Recent Developments/Updates

Table 212. Hefei Hengxin Semiconductor Competitive Strengths & Weaknesses

Table 213. Shanghai Chengchunis Basic Information, Manufacturing Base and Competitors

Table 214. Shanghai Chengchunis Major Business

Table 215. Shanghai Chengchunis Semiconductor Ozone Equipment Product and Services

Table 216. Shanghai Chengchunis Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 217. Shanghai Chengchunis Recent Developments/Updates

Table 218. Shanghai Chengchunis Competitive Strengths & Weaknesses

Table 219. Suzhou JoneSolar New Energy Technology Basic Information, Manufacturing Base and Competitors

Table 220. Suzhou JoneSolar New Energy Technology Major Business

Table 221. Suzhou JoneSolar New Energy Technology Semiconductor Ozone Equipment Product and Services

Table 222. Suzhou JoneSolar New Energy Technology Semiconductor Ozone Equipment Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 223. Suzhou JoneSolar New Energy Technology Recent Developments/Updates

Table 224. Suzhou JoneSolar New Energy Technology Competitive Strengths & Weaknesses

Table 225. Global Key Players of Semiconductor Ozone Equipment Upstream (Raw Materials)

Table 226. Global Semiconductor Ozone Equipment Typical Customers

Table 227. Semiconductor Ozone Equipment Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Semiconductor Ozone Equipment Picture

Figure 2. World Semiconductor Ozone Equipment Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Semiconductor Ozone Equipment Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Semiconductor Ozone Equipment Production (2021-2032) & (Units)

Figure 5. World Semiconductor Ozone Equipment Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Semiconductor Ozone Equipment Production Value Market Share by Region (2021-2032)

Figure 7. World Semiconductor Ozone Equipment Production Market Share by Region (2021-2032)

Figure 8. North America Semiconductor Ozone Equipment Production (2021-2032) & (Units)

Figure 9. Europe Semiconductor Ozone Equipment Production (2021-2032) & (Units)

Figure 10. China Semiconductor Ozone Equipment Production (2021-2032) & (Units)

Figure 11. Japan Semiconductor Ozone Equipment Production (2021-2032) & (Units)

Figure 12. South Korea Semiconductor Ozone Equipment Production (2021-2032) & (Units)

Figure 13. Semiconductor Ozone Equipment Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Semiconductor Ozone Equipment Consumption (2021-2032) & (Units)

Figure 16. World Semiconductor Ozone Equipment Consumption Market Share by Region (2021-2032)

Figure 17. United States Semiconductor Ozone Equipment Consumption (2021-2032) & (Units)

Figure 18. China Semiconductor Ozone Equipment Consumption (2021-2032) & (Units)

Figure 19. Europe Semiconductor Ozone Equipment Consumption (2021-2032) & (Units)

Figure 20. Japan Semiconductor Ozone Equipment Consumption (2021-2032) & (Units)

Figure 21. South Korea Semiconductor Ozone Equipment Consumption (2021-2032) & (Units)

Figure 22. ASEAN Semiconductor Ozone Equipment Consumption (2021-2032) & (Units)

Figure 23. India Semiconductor Ozone Equipment Consumption (2021-2032) & (Units)

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

Figure 25. Global Four-firm Concentration Ratios (CR4) for Semiconductor Ozone Equipment Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Semiconductor Ozone Equipment Markets in 2025

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

Figure 28. United States VS China: Semiconductor Ozone Equipment Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Semiconductor Ozone Equipment Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Semiconductor Ozone Equipment Production Market Share 2025

Figure 31. China Based Manufacturers Semiconductor Ozone Equipment Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Semiconductor Ozone Equipment Production Market Share 2025

Figure 33. World Semiconductor Ozone Equipment Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Figure 34. World Semiconductor Ozone Equipment Production Value Market Share by Product Form in 2025

Figure 35. Ozone Gas Generator

Figure 36. Ozone Gas Delivery System

Figure 37. Ozonated Water Generator / DIO3 System

Figure 38. Other

Figure 39. World Semiconductor Ozone Equipment Production Market Share by Product Form (2021-2032)

Figure 40. World Semiconductor Ozone Equipment Production Value Market Share by Product Form (2021-2032)

Figure 41. World Semiconductor Ozone Equipment Average Price by Product Form (2021-2032) & (US\$/Unit)

Figure 42. World Semiconductor Ozone Equipment Production Value by End-use Process Platform, (USD Million), 2021 & 2025 & 2032

Figure 43. World Semiconductor Ozone Equipment Production Value Market Share by End-use Process Platform in 2025

Figure 44. 300mm Advanced Logic/Memory Fab

Figure 45. 200mm/Mature-node Fab

Figure 46. Advanced Packaging

Figure 47. Compound Semiconductor/MEMS

Figure 48. World Semiconductor Ozone Equipment Production Market Share by End-use Process Platform (2021-2032)

Figure 49. World Semiconductor Ozone Equipment Production Value Market Share by End-use Process Platform (2021-2032)

Figure 50. World Semiconductor Ozone Equipment Average Price by End-use Process Platform (2021-2032) & (US\$/Unit)

Figure 51. World Semiconductor Ozone Equipment Production Value by Technology Route, (USD Million), 2021 & 2025 & 2032

Figure 52. World Semiconductor Ozone Equipment Production Value Market Share by Technology Route in 2025

Figure 53. Dielectric Barrier/Silent Discharge

Figure 54. Flat-plate/Ceramic Clean Discharge Cell

Figure 55. Trench Discharge Cell

Figure 56. Pure Ozone Liquefaction and Storage

Figure 57. Gas-to-UPW Dissolution/Membrane Contacting

Figure 58. Other/Emerging Routes

Figure 59. World Semiconductor Ozone Equipment Production Market Share by Technology Route (2021-2032)

Figure 60. World Semiconductor Ozone Equipment Production Value Market Share by Technology Route (2021-2032)

Figure 61. World Semiconductor Ozone Equipment Average Price by Technology Route (2021-2032) & (US\$/Unit)

Figure 62. World Semiconductor Ozone Equipment Production Value by Process Application, (USD Million), 2021 & 2025 & 2032

Figure 63. World Semiconductor Ozone Equipment Production Value Market Share by Process Application in 2025

Figure 64. Wafer Wet Cleaning

Figure 65. Photoresist Strip/Organic Removal

Figure 66. ALD/CVD Oxidation

Figure 67. Post-CMP/Post-Etch Cleaning

Figure 68. Surface Conditioning/Oxide Growth

Figure 69. Other High-cleanliness Processes

Figure 70. World Semiconductor Ozone Equipment Production Market Share by Process Application (2021-2032)

Figure 71. World Semiconductor Ozone Equipment Production Value Market Share by Process Application (2021-2032)

Figure 72. World Semiconductor Ozone Equipment Average Price by Process Application (2021-2032) & (US\$/Unit)

Figure 73. Semiconductor Ozone Equipment Industry Chain

Figure 74. Semiconductor Ozone Equipment Procurement Model

Figure 75. Semiconductor Ozone Equipment Sales Model

Figure 76. Semiconductor Ozone Equipment Sales Channels, Direct Sales, and Distribution

Figure 77. Methodology

Figure 78. Research Process and Data Source

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