

# **Precision Cleaning Solutions Market by Type (Aqueous Cleaning, Solvent-Based Cleaning, Vapor Degreasing, Ultrasonic Cleaning), Component (Metals, Plastics, Ceramics, Glass), End-use Industry (Electronics & Semiconductors, Healthcare, Aerospace & Defense, Automotive, Optics & Photonics, Industrial), and Region - Global Forecast to 2030**

<https://marketpublishers.com/r/PB4166184FBCEN.html>

Date: May 2025

Pages: 256

Price: US\$ 4,950.00 (Single User License)

ID: PB4166184FBCEN

## **Abstracts**

The precision cleaning solutions market is estimated at USD 7.66 billion in 2025 and is projected to reach USD 9.85 billion by 2030, at a CAGR of 5.2% from 2025 to 2030. The solvent-based cleaning segment is expected to hold the third-highest market share. Despite increasing regulatory restrictions on traditional solvents like trichloroethylene (TCE) and n-propyl bromide (nPB), solvent-based cleaning remains widely used due to its high effectiveness in removing non-polar contaminants such as oils, greases, waxes, and flux residues. It continues to play a critical role in industries where rapid drying, moisture sensitivity, and residue-free cleaning are essential, such as aerospace & defense, electronics & semiconductors, and healthcare. The development and adoption of next-generation solvents such as hydrofluoroethers (HFEs), modified alcohols, and low-global-warming-potential (GWP) chemistries are helping the segment maintain its relevance by offering safer, VOC-compliant alternatives. Moreover, solvent-based cleaning systems, particularly vapor degreasers and vacuum-assisted systems, provide compact and automated solutions that are attractive for high-throughput operations. While the segment is seeing slower growth compared to aqueous and ultrasonic systems, its unique advantages in critical cleaning, low-residue performance, and compatibility with sensitive components ensure that it retains a significant and stable

share of the overall market.

“In terms of value, the ceramic segment accounted for the third-largest share of the overall precision cleaning solutions market”

The ceramic component is expected to hold the third-largest share in the precision cleaning solutions market, following the metals and plastics segments. Ceramics are widely used in healthcare, electronics & semiconductors, aerospace & defense, and advanced manufacturing due to their excellent thermal stability, electrical insulation, wear resistance, and biocompatibility. Common applications include dental and orthopedic implants, microelectronic substrates, sensors, insulators, and optical components. These high-value parts often have intricate geometries and sensitive surfaces that require precision cleaning to remove particulates, lapping residues, machining oils, and sintering byproducts without causing surface damage or altering tolerances. As ceramic components are typically brittle and prone to microcracks, cleaning methods must be non-aggressive yet thorough, making ultrasonic and aqueous cleaning systems with fine-tuned process control ideal for this material category.

“The aerospace & defense end-use industry segment is projected to account for the fourth-highest market share”

The aerospace & defense industry is projected to account for the fourth-highest market share in the precision cleaning solutions market. This industry requires exceptionally high standards of cleanliness for mission-critical components such as turbine blades, fuel injectors, hydraulic systems, avionics, and guidance equipment, where even microscopic contaminants can lead to performance failure or safety risks. Aerospace parts are typically made of high-performance alloys and composites, often with complex geometries and tight tolerances that demand advanced cleaning processes like ultrasonic cleaning, vapor degreasing, and hybrid vacuum systems. Furthermore, industry standards such as AMS 2700, ASTM F312, and MIL-SPECs strictly define acceptable cleanliness levels, pushing manufacturers to invest in validated and traceable precision cleaning systems.

“The precision cleaning solutions market in Europe is projected to hold the largest market share”

Europe is expected to hold the largest market share in the precision cleaning solutions market, followed by the Asia Pacific and North America. The region is home to a strong

base of technologically advanced industries, including aerospace (Airbus and Rolls-Royce), automotive (Volkswagen and BMW), medical devices, optics, and precision engineering, all of which rely heavily on high-performance cleaning to meet strict regulatory and operational standards. Europe's focus on sustainability, worker safety, and environmental compliance—driven by stringent regulations like REACH, RoHS, and the EU Medical Device Regulation (MDR)—has spurred the adoption of eco-friendly aqueous, ultrasonic, and hybrid cleaning systems across its manufacturing landscape.

This study has been validated through primary interviews with industry experts globally. These primary sources have been divided into the following three categories:

By Company Type: Tier 1 - 60%, Tier 2 - 20%, and Tier 3 - 20%

By Designation: C-level - 33%, Directo-level - 33%, and Managers - 34%

By Region: North America - 20%, Europe - 25%, Asia Pacific - 25%, the Middle East & Africa - 15%, and Latin America - 15%

The report provides a comprehensive analysis of company profiles:

Prominent companies in this market include Emerson Electric Co. (US), Dow (US), Crest Ultrasonics Corp. (US), 3M (US), Techspray (US), Best Technology Inc. (US), UCM AG (Switzerland), Baron Blakeslee (US), Ultrasonic Power Corporation (US), ITW Chemin (India), Alconox Inc. (US), CleanLogix LLC (US), Banner Chemicals (UK), Steelco S.P.A (Italy), Getinge (Sweden), Layton Technologies (UK), SUSACORPORATION (US), Gluditec (Vietnam), Cleanstar Machines (India), Better Engineering (US), Leela Electronics (India), Ralsonics (India), Blue Wave Ultrasonics (US), Guangdong GT Ultrasonic Co., Ltd. (China), and Applied Materials (US).

## Research Coverage

This research report categorizes the precision cleaning solutions market by type (aqueous cleaning, solvent-based cleaning, vapor degreasing, and ultrasonic cleaning), component (metals, plastics, ceramics, glass, and other components), end-use industry (electronics & semiconductors, healthcare, aerospace & defense, automotive, optics & photonics, industrial, and other end-use industries), and region (North America, Europe, Asia Pacific, the Middle East & Africa, and South America). The scope of the report includes detailed information about the major factors influencing the growth of the

precision cleaning solutions market, such as drivers, restraints, challenges, and opportunities. A thorough examination of the key industry players has been conducted in order to provide insights into their business overview, solutions and services, key strategies (such as contracts, partnerships, agreements, product launches, mergers, and acquisitions), and recent developments in the precision cleaning solutions market. This report includes a competitive analysis of upcoming startups in the precision cleaning solutions market ecosystem.

Reasons to buy this report:

The report will help market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall precision cleaning solutions market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (stringent industry regulations demanding a high level of cleanliness and increasing demand in the automotive industry), restraints (high capital investment and limited awareness in small to mid-sized enterprises), opportunities (emergence of hybrid systems combining aqueous and solvent cleaning and growth in Asia Pacific manufacturing hubs), and challenges (meeting diverse and evolving cleaning standards) influencing the growth of the precision cleaning solutions market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and service launches in the precision cleaning solutions market.

Market Development: Comprehensive information about lucrative markets – the report analyses the precision cleaning solutions market across varied regions.

Market Diversification: Exhaustive information about services, untapped geographies, recent developments, and investments in the precision cleaning solutions market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Emerson Electric Co. (US), Dow (US), Crest Ultrasonics Corp. (US), 3M (US), Techspray (US), Best Technology Inc. (US), UCM AG (Switzerland), Baron Blakeslee (US), Ultrasonic Power Corporation (US), ITW Chemin (India), Alconox Inc. (US), CleanLogix LLC (US), Banner Chemicals (UK), Steelco S.P.A (Italy), Getinge (Sweden), Layton Technologies (UK), SUSA Corporation (US), Gluditec (Vietnam), Cleanstar Machines (India), Better Engineering (US), Leela Electronics (India), Ralsonics (India), Blue Wave Ultrasonics (US), Guangdong GT Ultrasonic Co., Ltd. (China), and Applied Materials (US), among others, in the precision cleaning solutions market.

## Contents

### 1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
- 1.3 STUDY SCOPE
  - 1.3.1 MARKETS COVERED
  - 1.3.2 INCLUSIONS & EXCLUSIONS OF STUDY
  - 1.3.3 YEARS CONSIDERED
- 1.4 CURRENCY CONSIDERED
- 1.5 UNIT CONSIDERED
- 1.6 STAKEHOLDERS

### 2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
  - 2.1.1 SECONDARY DATA
    - 2.1.1.1 List of major secondary sources
    - 2.1.1.2 Key data from secondary sources
  - 2.1.2 PRIMARY DATA
    - 2.1.2.1 Key data from primary sources
    - 2.1.2.2 Key industry insights
    - 2.1.2.3 Breakdown of primary interviews
- 2.2 MARKET SIZE ESTIMATION
  - 2.2.1 BOTTOM-UP APPROACH
  - 2.2.2 TOP-DOWN APPROACH
- 2.3 DATA TRIANGULATION
- 2.4 RESEARCH ASSUMPTIONS
- 2.5 GROWTH RATE ASSUMPTIONS/FORECAST
  - 2.5.1 SUPPLY SIDE
  - 2.5.2 DEMAND SIDE
- 2.6 RISK ASSESSMENT
- 2.7 LIMITATION

### 3 EXECUTIVE SUMMARY

### 4 PREMIUM INSIGHTS

#### 4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN PRECISION CLEANING SOLUTIONS MARKET

#### 4.2 PRECISION CLEANING SOLUTIONS MARKET, BY TYPE

#### 4.3 PRECISION CLEANING SOLUTIONS MARKET, BY MATERIAL

#### 4.4 PRECISION CLEANING SOLUTIONS MARKET, BY END-USE INDUSTRY

#### 4.5 PRECISION CLEANING SOLUTIONS MARKET, BY KEY COUNTRY

### **5 MARKET OVERVIEW**

#### 5.1 INTRODUCTION

#### 5.2 MARKET DYNAMICS

##### 5.2.1 DRIVERS

5.2.1.1 Stringent industry regulations

5.2.1.2 Rising adoption in automotive industry

##### 5.2.2 RESTRAINTS

5.2.2.1 High capital investment

5.2.2.2 Rigorous cleaning validation requirements in critical industries

##### 5.2.3 OPPORTUNITIES

5.2.3.1 Emergence of hybrid systems combining aqueous & solvent cleaning

5.2.3.2 Rising demand from Asia Pacific region

##### 5.2.4 CHALLENGES

5.2.4.1 Meeting diverse and evolving cleanliness standards across industries and regions

5.2.4.2 Navigating trade-off between cleaning efficiency and environmental sustainability

#### 5.3 PORTER'S FIVE FORCES ANALYSIS

5.3.1 THREAT OF NEW ENTRANTS

5.3.2 THREAT OF SUBSTITUTES

5.3.3 BARGAINING POWER OF BUYERS

5.3.4 BARGAINING POWER OF SUPPLIERS

5.3.5 INTENSITY OF COMPETITIVE RIVALRY

#### 5.4 KEY STAKEHOLDERS AND BUYING CRITERIA

5.4.1 KEY STAKEHOLDERS IN BUYING PROCESS

5.4.2 BUYING CRITERIA

#### 5.5 MACROECONOMIC INDICATORS

5.5.1 GLOBAL GDP TRENDS

#### 5.6 IMPACT OF AI/GEN AI ON PRECISION CLEANING SOLUTIONS MARKET

#### 5.7 VALUE CHAIN ANALYSIS

5.7.1 RAW MATERIAL SUPPLIERS



- 5.7.2 MANUFACTURERS
- 5.7.3 DISTRIBUTORS
- 5.7.4 END-USE INDUSTRIES
- 5.8 ECOSYSTEM ANALYSIS
- 5.9 CASE STUDY ANALYSIS
  - 5.9.1 IMPLEMENTATION OF PERKLONE MD FOR PRECISION VAPOR DEGREASING IN AEROSPACE METAL FINISHING
  - 5.9.2 INTEGRATION OF ULTRASONIC CLEANING SYSTEM FOR PRECISION CLEANING IN MEDICAL DEVICES
  - 5.9.3 AQUEOUS ULTRASONIC CLEANING SYSTEM FOR CATHETER MANUFACTURING IN MEDICAL DEVICE INDUSTRY
- 5.10 REGULATORY LANDSCAPE
  - 5.10.1 REGULATIONS
    - 5.10.1.1 Europe
    - 5.10.1.2 Asia Pacific
    - 5.10.1.3 North America
  - 5.10.2 STANDARDS
    - 5.10.2.1 ISO 14644-1:2015
    - 5.10.2.2 ISO 14644-9:2022
    - 5.10.2.3 ISO 14644-10:2013
  - 5.10.3 REGULATORY BODIES, GOVERNMENT BODIES, AND OTHER AGENCIES
- 5.11 TECHNOLOGY ANALYSIS
  - 5.11.1 KEY TECHNOLOGIES
    - 5.11.1.1 Plasma cleaning
    - 5.11.1.2 Supercritical CO2 cleaning
  - 5.11.2 COMPLEMENTARY TECHNOLOGIES
    - 5.11.2.1 Surface passivation systems
    - 5.11.2.2 Drying technologies
  - 5.11.3 ADJACENT TECHNOLOGIES
    - 5.11.3.1 Automation & robotics
- 5.12 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS
- 5.13 TRADE ANALYSIS
  - 5.13.1 EXPORT SCENARIO (HS CODE 845620)
  - 5.13.2 IMPORT SCENARIO (HS CODE 845620)
- 5.14 KEY CONFERENCES & EVENTS IN 2025–2026
- 5.15 PRICING ANALYSIS
  - 5.15.1 AVERAGE SELLING PRICE TREND, BY REGION
  - 5.15.2 AVERAGE SELLING PRICE TREND, BY END-USE INDUSTRY
  - 5.15.3 AVERAGE SELLING PRICE TREND OF KEY PLAYERS, BY END-USE



## INDUSTRY

### 5.16 INVESTMENT AND FUNDING SCENARIO

### 5.17 PATENT ANALYSIS

#### 5.17.1 APPROACH

#### 5.17.2 DOCUMENT TYPES

#### 5.17.3 PATENT PUBLICATION TRENDS IN LAST 11 YEARS (2014–2024)

#### 5.17.4 INSIGHTS

#### 5.17.5 LEGAL STATUS OF PATENTS

#### 5.17.6 JURISDICTION ANALYSIS

#### 5.17.7 TOP COMPANIES/APPLICANTS

#### 5.17.8 US: TOP 10 PATENT OWNERS IN LAST 11 YEARS

### 5.18 IMPACT OF 2025 US TARIFF - PRECISION CLEANING SOLUTIONS MARKET

#### 5.18.1 INTRODUCTION

#### 5.18.2 KEY TARIFF RATES

#### 5.18.3 PRICE IMPACT ANALYSIS

#### 5.18.4 IMPACT ON REGIONS

## 6 PRECISION CLEANING SOLUTIONS MARKET, BY TYPE

### 6.1 INTRODUCTION

### 6.2 AQUEOUS CLEANING

#### 6.2.1 INCREASING REGULATORY PRESSURE TO PHASE OUT HAZARDOUS SOLVENTS TO DRIVE MARKET

### 6.3 SOLVENT-BASED CLEANING

#### 6.3.1 HIGH PRECISION CLEANING REQUIREMENT TO FUEL DEMAND

### 6.4 VAPOR DEGREASING

#### 6.4.1 RISING DEMAND FROM INDUSTRIAL END-USE INDUSTRY TO DRIVE DEMAND

### 6.5 ULTRASONIC CLEANING

#### 6.5.1 INCREASING DEMAND FROM AEROSPACE & DEFENSE AND AUTOMOTIVE INDUSTRIES TO DRIVE MARKET

### 6.6 OTHER TYPES

## 7 PRECISION CLEANING SOLUTIONS MARKET, BY MATERIAL

### 7.1 INTRODUCTION

### 7.2 METAL

#### 7.2.1 CUSTOMIZED CLEANING STRATEGIES FOR COMPLEX METAL ALLOYS AND ADVANCED PRODUCTION LINES TO FUEL DEMAND

### 7.3 PLASTIC

7.3.1 INCREASING USE OF ENGINEERED POLYMERS IN HIGH-PERFORMANCE INDUSTRIES TO DRIVE GROWTH

### 7.4 CERAMIC

7.4.1 INCREASING USE OF CERAMIC TO DRIVE DEMAND

### 7.5 GLASS

7.5.1 RISING DEMAND FOR PRECISION CLEANING IN HIGH-TECH GLASS MANUFACTURING TO PROPEL MARKET

### 7.6 OTHER MATERIALS

## 8 PRECISION CLEANING SOLUTIONS MARKET, BY END-USE INDUSTRY

### 8.1 INTRODUCTION

### 8.2 ELECTRONICS & SEMICONDUCTOR

8.2.1 STRINGENT CLEANLINESS REGULATIONS TO PROPEL DEMAND

### 8.3 AEROSPACE & DEFENSE

8.3.1 HIGH-PRECISION CLEANING REQUIREMENT TO DRIVE DEMAND

### 8.4 AUTOMOTIVE

8.4.1 NEED FOR PRECISE REMOVAL OF OIL & GREASE TO SUPPORT MARKET GROWTH

### 8.5 INDUSTRIAL

8.5.1 SHIFT TOWARD SUSTAINABLE PRACTICES TO FUEL MARKET

### 8.6 HEALTHCARE

8.6.1 STRINGENT REGULATORY STANDARDS AND NEED FOR STERILIZATION AND CONTAMINATION CONTROL TO DRIVE MARKET

### 8.7 OPTICS & PHOTONICS

8.7.1 NEED FOR ULTRA-HIGH LEVELS OF CLEANLINESS TO MAINTAIN PRODUCT INTEGRITY TO PROPEL MARKET

### 8.8 OTHER END-USE INDUSTRIES

## 9 PRECISION CLEANING SOLUTIONS MARKET, BY REGION

### 9.1 INTRODUCTION

### 9.2 NORTH AMERICA

#### 9.2.1 US

9.2.1.1 Growing electronics & semiconductor and automotive industries to drive market

#### 9.2.2 CANADA

9.2.2.1 Increasing demand from aerospace & defense industry to propel market

### 9.2.3 MEXICO

9.2.3.1 Increased production in automotive industry to propel demand

## 9.3 EUROPE

### 9.3.1 GERMANY

9.3.1.1 Rising requirement for precision cleaning from various end-use industries to drive demand

### 9.3.2 FRANCE

9.3.2.1 Growing use of precision cleaning solutions in various industries to boost market

### 9.3.3 SPAIN

9.3.3.1 Rising demand from automotive sector to fuel market growth

### 9.3.4 UK

9.3.4.1 Increasing requirements from automotive, aerospace, semiconductor, and photonics industries to propel market

### 9.3.5 ITALY

9.3.5.1 Strict regulations in aerospace & defense and healthcare sectors to boost demand

### 9.3.6 REST OF EUROPE

## 9.4 ASIA PACIFIC

### 9.4.1 CHINA

9.4.1.1 High requirement for precision cleaning from various end-use industries to drive demand

### 9.4.2 JAPAN

9.4.2.1 Technologically advanced manufacturing landscape to propel market

### 9.4.3 INDIA

9.4.3.1 High investments in agriculture and oil & gas industries to drive demand

### 9.4.4 SOUTH KOREA

9.4.4.1 Growing semiconductor production to drive market

### 9.4.5 REST OF ASIA PACIFIC

## 9.5 MIDDLE EAST & AFRICA

### 9.5.1 GCC COUNTRIES

#### 9.5.1.1 Saudi Arabia

9.5.1.1.1 Growing commitment to sustainability and environmental management to fuel market growth

#### 9.5.1.2 UAE

9.5.1.2.1 Growth in automotive industry to drive market

#### 9.5.1.3 Rest of GCC countries

### 9.5.2 SOUTH AFRICA

9.5.2.1 Increasing use in industrial and agriculture sectors to drive market

### 9.5.3 REST OF MIDDLE EAST & AFRICA

## 9.6 SOUTH AMERICA

### 9.6.1 BRAZIL

9.6.1.1 Expanding aerospace, healthcare, and semiconductor sectors to support market growth

### 9.6.2 ARGENTINA

9.6.2.1 Growing industrial sector to propel market

### 9.6.3 REST OF SOUTH AMERICA

## 10 COMPETITIVE LANDSCAPE

### 10.1 OVERVIEW

### 10.2 KEY PLAYER STRATEGIES

### 10.3 REVENUE ANALYSIS

### 10.4 MARKET SHARE ANALYSIS

### 10.5 COMPANY VALUATION AND FINANCIAL METRICS

### 10.6 BRAND/PRODUCT COMPARISON ANALYSIS

### 10.7 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2024

#### 10.7.1 STARS

#### 10.7.2 EMERGING LEADERS

#### 10.7.3 PERVASIVE PLAYERS

#### 10.7.4 PARTICIPANTS

#### 10.7.5 COMPANY FOOTPRINT: KEY PLAYERS, 2024

##### 10.7.5.1 Company footprint

##### 10.7.5.2 Region footprint

##### 10.7.5.3 Type footprint

##### 10.7.5.4 Material footprint

##### 10.7.5.5 End-use industry footprint

### 10.8 COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2024

#### 10.8.1 PROGRESSIVE COMPANIES

#### 10.8.2 RESPONSIVE COMPANIES

#### 10.8.3 DYNAMIC COMPANIES

#### 10.8.4 STARTING BLOCKS

#### 10.8.5 COMPETITIVE BENCHMARKING: KEY STARTUPS/SMES, 2024

##### 10.8.5.1 Detailed list of key startups/SMEs

##### 10.8.5.2 Competitive benchmarking of key startups/SMEs

### 10.9 COMPETITIVE SCENARIO

#### 10.9.1 PRODUCT LAUNCHES

#### 10.9.2 DEALS

## 11 COMPANY PROFILES

### 11.1 KEY PLAYERS

#### 11.1.1 EMERSON ELECTRIC CO.

- 11.1.1.1 Business overview
- 11.1.1.2 Products/Solutions/Services offered
- 11.1.1.3 Recent developments
  - 11.1.1.3.1 Product launches
  - 11.1.1.3.2 Deals
- 11.1.1.4 MnM view
  - 11.1.1.4.1 Key strengths
  - 11.1.1.4.2 Strategic choices
  - 11.1.1.4.3 Weaknesses and competitive threats

#### 11.1.2 DOW

- 11.1.2.1 Business overview
- 11.1.2.2 Products/Solutions/Services offered
- 11.1.2.3 Recent developments
  - 11.1.2.3.1 Product launches
- 11.1.2.4 MnM view
  - 11.1.2.4.1 Key strengths
  - 11.1.2.4.2 Strategic choices
  - 11.1.2.4.3 Weaknesses and competitive threats

#### 11.1.3 CREST ULTRASONICS CORP.

- 11.1.3.1 Business overview
- 11.1.3.2 Products/Solutions/Services offered
- 11.1.3.3 MnM view
  - 11.1.3.3.1 Key strengths
  - 11.1.3.3.2 Strategic choices
  - 11.1.3.3.3 Weaknesses and competitive threats

#### 11.1.4 3M

- 11.1.4.1 Business overview
- 11.1.4.2 Products/Solutions/Services offered
- 11.1.4.3 MnM view
  - 11.1.4.3.1 Key strengths
  - 11.1.4.3.2 Strategic choices
  - 11.1.4.3.3 Weaknesses and competitive threats

#### 11.1.5 TECHSPRAY

- 11.1.5.1 Business overview

- 11.1.5.2 Products/Solutions/Services offered
- 11.1.5.3 MnM view
  - 11.1.5.3.1 Key strengths
  - 11.1.5.3.2 Strategic choices
  - 11.1.5.3.3 Weaknesses and competitive threats
- 11.1.6 BEST TECHNOLOGY INC.
  - 11.1.6.1 Business overview
  - 11.1.6.2 Products/Solutions/Services offered
  - 11.1.6.3 MnM view
- 11.1.7 UCM AG
  - 11.1.7.1 Business overview
  - 11.1.7.2 Products/Solutions/Services offered
  - 11.1.7.3 MnM view
- 11.1.8 BARON BLAKESLEE
  - 11.1.8.1 Business overview
  - 11.1.8.2 Products/Solutions/Services offered
  - 11.1.8.3 MnM view
- 11.1.9 ULTRASONIC POWER CORPORATION
  - 11.1.9.1 Business overview
  - 11.1.9.2 Products/Solutions/Services offered
  - 11.1.9.3 MnM view
- 11.1.10 ITW CHEMIN
  - 11.1.10.1 Business overview
  - 11.1.10.2 Products/Solutions/Services offered
  - 11.1.10.3 MnM view
- 11.1.11 ALCONOX INC.
  - 11.1.11.1 Business overview
  - 11.1.11.2 Products/Solutions/Services offered
  - 11.1.11.3 MnM view
- 11.1.12 BANNER CHEMICALS LIMITED
  - 11.1.12.1 Business overview
  - 11.1.12.2 Products/Solutions/Services offered
  - 11.1.12.3 MnM view
- 11.1.13 STEELCO S.P.A.
  - 11.1.13.1 Business overview
  - 11.1.13.2 Products/Solutions/Services offered
  - 11.1.13.3 Recent developments
    - 11.1.13.3.1 Deals
  - 11.1.13.4 MnM view

#### 11.1.14 GETINGE

11.1.14.1 Business overview

11.1.14.2 Products/Solutions/Services offered

11.1.14.3 Recent developments

11.1.14.3.1 Deals

11.1.14.4 MnM view

#### 11.2 OTHER PLAYERS

11.2.1 APPLIED MATERIALS, INC.

11.2.2 CLEANLOGIX LLC

11.2.3 LAYTON TECHNOLOGIES

11.2.4 SUSA CORPORATION

11.2.5 GLUDITEC

11.2.6 CLEANSTAR MACHINES

11.2.7 BETTER ENGINEERING

11.2.8 LEELA ELECTRONICS

11.2.9 RALSONICS

11.2.10 BLUE WAVE ULTRASONICS

11.2.11 GUANGDONG GT ULTRASONIC CO., LTD.

11.2.12 SHARANG CORPORATION

### 12 APPENDIX

12.1 DISCUSSION GUIDE

12.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

12.3 CUSTOMIZATION OPTIONS

12.4 RELATED REPORTS

12.5 AUTHOR DETAILS



## I would like to order

Product name: Precision Cleaning Solutions Market by Type (Aqueous Cleaning, Solvent-Based Cleaning, Vapor Degreasing, Ultrasonic Cleaning), Component (Metals, Plastics, Ceramics, Glass), End-use Industry (Electronics & Semiconductors, Healthcare, Aerospace & Defense, Automotive, Optics & Photonics, Industrial), and Region - Global Forecast to 2030

Product link: <https://marketpublishers.com/r/PB4166184FBCEN.html>

Price: US\$ 4,950.00 (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/PB4166184FBCEN.html>