

Global Robotic Ultrasonic Spray System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Robotic Ultrasonic Spray System market size is expected to reach \$ 490 million by 2032, rising at a market growth of 9.0% CAGR during the forecast period (2026-2032).

Robotic Ultrasonic Spray Systems are automated coating platforms that combine ultrasonic atomization technology with programmable robotic motion to deposit thin, uniform functional films on complex surfaces. A typical system integrates an ultrasonic nozzle, high-frequency generator, precision liquid-delivery module, multi-axis robot or XYZ motion platform, air-shaping device, sensors, exhaust enclosure, vision system, and process-control software. High-frequency vibration converts liquid into fine, low-velocity droplets, while robotic path control regulates spray position, speed, distance, and overlap. These systems are used for medical devices, fuel cells, batteries, semiconductors, electronics, solar cells, catalysts, glass, textiles, and other precision coating applications. The upstream segment supplies industrial robots, servo motors, ultrasonic transducers, piezoelectric elements, high-frequency generators, precision pumps, nozzles, valves, sensors, cameras, controllers, filters, air-handling components, cables, and structural enclosures. Midstream manufacturers design robotic spray paths, integrate atomization, liquid delivery, motion control, vision, exhaust, and safety systems, assemble complete equipment, and conduct droplet-size, coating-uniformity, flow-rate, positioning, reliability, and safety testing. Downstream users include medical-device producers, battery manufacturers, fuel-cell companies, semiconductor plants, electronics factories, research institutions, solar-energy companies, textile producers, and advanced-material manufacturers. Supporting services cover installation, programming, process development, calibration, training, maintenance, nozzle replacement, software upgrades, and application optimization. In 2025, global Robotic Ultrasonic Spray System production reached approximately 2,000 units, with an

average global market price of around USD 130,000 per unit. The gross profit margin of major companies in the industry ranged from 35% to 50%. In 2025, the global production capacity of Robotic Ultrasonic Spray Systems was approximately 2,667 units.

The Robotic Ultrasonic Spray System market is expanding as manufacturers require precise, repeatable, and material-efficient deposition of functional thin films. Medical devices, fuel cells, electrolyzers, batteries, semiconductors, printed electronics, solar cells, and advanced materials are major demand areas. Ultrasonic atomization produces fine droplets and low-velocity spray, while robotic motion enables controlled coating of flat, curved, and three-dimensional components. Customers increasingly prefer systems with automated path programming, precision liquid delivery, vision alignment, multiple nozzles, environmental control, and real-time process monitoring. These functions improve coating uniformity, reduce overspray, lower material consumption, and support production traceability. Demand is also shifting from laboratory platforms toward pilot-scale and high-volume automated lines. However, high acquisition costs, application-specific process development, nozzle maintenance, liquid-property limitations, ventilation requirements, and integration complexity may restrict adoption. Overall, market growth should remain strong as users pursue thinner coatings, higher transfer efficiency, scalable automation, reduced material waste, and more consistent product quality.

This report studies the global Robotic Ultrasonic Spray System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Robotic Ultrasonic Spray System 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 Robotic Ultrasonic Spray System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Robotic Ultrasonic Spray System total production and demand, 2021-2032, (Units)

Global Robotic Ultrasonic Spray System total production value, 2021-2032, (USD Million)

Global Robotic Ultrasonic Spray System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Robotic Ultrasonic Spray System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Robotic Ultrasonic Spray System domestic production, consumption, key domestic manufacturers and share

Global Robotic Ultrasonic Spray System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Robotic Ultrasonic Spray System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Robotic Ultrasonic Spray System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Robotic Ultrasonic Spray System 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 Sono-Tek Corporation, Ultrasonic Systems, Inc., Sonaer Inc., C&D Semiconductor Services, Inc., TheSix Technology Solutions, Inc., SPS International B.V., IDASONIC Nanocoating Technologies Ltd., Ossila Ltd., NAGASE TECHNO-ENGINEERING CO., LTD., Siansonic Technology Co., Ltd., 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 Robotic Ultrasonic Spray System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by 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 Robotic Ultrasonic Spray System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Robotic Ultrasonic Spray System Market, Segmentation by Type:

Cartesian-Gantry Robotic Ultrasonic Spray System

Articulated-Arm Robotic Ultrasonic Spray System

Linear-Scanning Inline Robotic Ultrasonic Spray System

Rotary-Stage Robotic Ultrasonic Spray System

Global Robotic Ultrasonic Spray System Market, Segmentation by Ultrasonic Frequency:

Ultrasonic Frequency Below 40 kHz

Ultrasonic Frequency from 40 kHz to Below 80 kHz

Ultrasonic Frequency from 80 kHz to Below 150 kHz

Ultrasonic Frequency 150 kHz and Above

Global Robotic Ultrasonic Spray System Market, Segmentation by Production Scale:

Laboratory Research Robotic Ultrasonic Spray System

Pilot Production Robotic Ultrasonic Spray System

Industrial Production Robotic Ultrasonic Spray System

Global Robotic Ultrasonic Spray System Market, Segmentation by Application:

Bio & Med

Electronics & Energy

Industrial

Others

Companies Profiled:

Sono-Tek Corporation

Ultrasonic Systems, Inc.

Sonaer Inc.

C&D Semiconductor Services, Inc.

TheSix Technology Solutions, Inc.

SPS International B.V.

IDASONIC Nanocoating Technologies Ltd.

Ossila Ltd.

NAGASE TECHNO-ENGINEERING CO., LTD.

Siansonic Technology Co., Ltd.

Hangzhou Cheersonic Ultrasonics Equipment Co., Ltd.

Hangzhou Funsonic Ultrasonic Technology Co., Ltd.

Xiamen Tmax Battery Equipments Limited

Xiamen Lith Machine Limited

Shenyang Kejing Auto-instrument Co., Ltd.

Noanix Corporation

Holmarc Opto-Mechatronics Ltd.

Key Questions Answered:

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

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