

Global Robotic Blasting Machines Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Robotic Blasting Machines market size is expected to reach \$ 608 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032). In 2025, the global production of robotic blasting machines is projected to reach 2,320 units, with an average price of US\$164,000 per unit. Gross profit margins are typically between 30% and 40%.

Robotic blasting machines are automated surface preparation systems that use robotic arms and programmed controls to precisely manipulate blasting nozzles, delivering consistent, high-quality results for cleaning, paint removal, or peening, significantly boosting productivity and safety by reducing human error and exposure in demanding industries like automotive, aerospace, and shipbuilding.

The upstream of the robotic blasting machine industry chain mainly consists of industrial robot bodies and controllers, sandblasting valve groups and spray gun nozzles, wear-resistant hoses and seals, abrasive recovery and screening systems, and dust removal and safety protection components. Key upstream aspects include robot stability, the lifespan of core sandblasting components, and system sealing and environmental performance. Robots and dust removal systems account for a significant portion of the cost. The downstream segment represents the most concentrated value and demand, primarily targeting high-end manufacturing and heavy industry. In aerospace and military industries, it is used for surface treatment of complex curved surfaces and critical structural components, emphasizing trajectory accuracy, process consistency, and traceability. In the automotive and parts industry, it is used for automated sandblasting of castings, forgings, car bodies, and molds, focusing on cycle time efficiency, integration with production lines, and operating costs. In engineering machinery and heavy equipment, it is used for rust removal and strengthening of large structural components, emphasizing load capacity and continuous operational reliability. In the shipbuilding and marine engineering sector, it is used for surface pretreatment of

large components, emphasizing environmental protection, sealing, abrasive recovery, and safety. In new energy and pressure vessel manufacturing, it is used for standardized and batch processing, focusing on stable delivery and consistent quality. Downstream customers are primarily large manufacturing enterprises, exhibiting a project-based approach with a high reliance on system integration, after-sales maintenance, and long-term service, resulting in lengthy procurement decision-making cycles.

Industry development trends show deep integration of sandblasting processes with robotics, improved efficiency through offline programming and digital process libraries, and system upgrades towards higher sealing, lower dust, and higher recovery rates, while also linking with production line automation and MES systems. Driving factors mainly stem from manufacturing automation upgrades, rising labor costs, increasingly stringent environmental regulations, and higher requirements for consistent surface quality. Obstacles include high initial investment, complex system debugging and maintenance, high abrasive and energy costs, and competition from alternative processes such as laser cleaning or automated shot blasting in some applications. This report studies the global Robotic Blasting Machines production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Robotic Blasting Machines total production and demand, 2021-2032, (Units)

Global Robotic Blasting Machines total production value, 2021-2032, (USD Million)

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

Global Robotic Blasting Machines consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Robotic Blasting Machines domestic production, consumption, key domestic manufacturers and share

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

Global Robotic Blasting Machines production by Abrasive Blasting Media Materials, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Robotic Blasting Machines production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Robotic Blasting Machines 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 Blastman Robotics, FerroECOBlast, Wheelabrator, Sinto America, Guyson, Clemco Industries, Gridbots Technologies, Langtry Blast Technologies, Surface Preparation Engineering, IPS, 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 Blasting Machines 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 Abrasive Blasting Media Materials, 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 Blasting Machines Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Robotic Blasting Machines Market, Segmentation by Abrasive Blasting Media Materials:

Articulated

Gantry Type

Cantilever Type

Collaborative Type

Global Robotic Blasting Machines Market, Segmentation by Technology:

Independent PLC-Controlled Robots

Vision-Guided Robots

Industrial Robot Linkage Robots

MES System Interconnected Robots

Others

Global Robotic Blasting Machines Market, Segmentation by Applicable Abrasives:

Hard Abrasives

Soft Abrasives

Biodegradable Abrasives

Global Robotic Blasting Machines Market, Segmentation by Application:

Automotive

Aerospace

Medical Devices

Mold Manufacturing

3C Electronics

Others

Companies Profiled:

Blastman Robotics

FerroECOBlast

Wheelabrator

Sinto America

Guyson

Clemco Industries

Gridbots Technologies

Langtry Blast Technologies

Surface Preparation Engineering

IPS

ROBOBLAST

ROVAN

BlastOne

Shot Blaster

Gritblast

TBM Automation AG

roxor strahltechnik

Eurobotik

4D Systems

DISA

Key Questions Answered:

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

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