

Abrasive Blasting Nozzle Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Nozzle Type (Venturi Nozzle, Straight Bore Nozzle, Wide Throat Nozzle), By Material (Carbide Tips, Ceramic Tips, Steel Tips), By End Use (Automotive, Construction, Marine, Others), By Nozzle Bore Size (5/16 inch, 3/8 inch, 7/16 inch, Others), By Region & Competition, 2021-2031F

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Abstracts

The Global Abrasive Blasting Nozzle Market will grow from USD 283.15 Million in 2025 to USD 396.23 Million by 2031 at a 5.76% CAGR. Abrasive blasting nozzles are specialized components attached to the end of a blast hose that accelerate and direct a mixture of compressed air and abrasive media for surface cleaning and preparation.

Key Market Drivers

The surge in global construction and infrastructure development projects acts as a primary catalyst for the abrasive blasting nozzle market. As governments and private entities invest heavily in modernizing transportation networks, bridges, and public utilities, the demand for high-performance blasting equipment to prepare steel and concrete surfaces has intensified. Abrasive blasting is indispensable in these projects for removing rust, mill scale, and contaminants to ensure the adhesion of protective coatings, thereby extending the structural integrity of critical assets.

Key Market Challenges

The primary impediment hindering the growth of the Global Abrasive Blasting Nozzle Market is the escalating financial and operational burden imposed by stringent environmental and safety regulations. Authorities are increasingly enforcing zero-tolerance mandates regarding hazardous dust emissions, particularly respirable crystalline silica, to protect operator health. This regulatory pressure compels blasting contractors and facility owners to divert substantial capital toward sophisticated containment infrastructure, high-efficiency filtration systems, and expensive alternative abrasive media.

Key Market Trends

Integration of Nozzles with Robotic and Automated Blasting Systems is fundamentally reshaping the market as industries prioritize operator safety and process consistency. To remove workers from hazardous environments, facility owners are deploying automated blast rooms and robotic arms equipped with specialized, high-durability nozzle assemblies. These systems require precision-engineered liners designed for continuous, high-pressure operation without manual adjustment, driving demand for advanced nozzle geometries that ensure uniform surface profiles.

Key Market Players

Saint-Gobain Abrasives

Clemco Industries Corp.

Rosler Group

3M Company

Garmat USA

Empire Abrasive Equipment

Vortex Tools

BlastOne International

Wheelabrator Group

Report Scope:

In this report, the Global Abrasive Blasting Nozzle Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Abrasive Blasting Nozzle Market, By Nozzle Type:

Venturi Nozzle

Straight Bore Nozzle

Wide Throat Nozzle

Abrasive Blasting Nozzle Market, By Material:

Carbide Tips

Ceramic Tips

Steel Tips

Abrasive Blasting Nozzle Market, By End Use:

Automotive

Construction

Marine

Others

Abrasive Blasting Nozzle Market, By Nozzle Bore Size:

5/16 inch

3/8 inch

7/16 inch

Others

Abrasive Blasting Nozzle Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Abrasive Blasting Nozzle Market.

Available Customizations:

Global Abrasive Blasting Nozzle Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. GLOBAL ABRASIVE BLASTING NOZZLE MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Nozzle Type (Venturi Nozzle, Straight Bore Nozzle, Wide Throat Nozzle)
 - 5.2.2. By Material (Carbide Tips, Ceramic Tips, Steel Tips)
 - 5.2.3. By End Use (Automotive, Construction, Marine, Others)
 - 5.2.4. By Nozzle Bore Size (5/16 inch, 3/8 inch, 7/16 inch, Others)

- 5.2.5. By Region
- 5.2.6. By Company (2025)
- 5.3. Market Map

6. NORTH AMERICA ABRASIVE BLASTING NOZZLE MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Nozzle Type
 - 6.2.2. By Material
 - 6.2.3. By End Use
 - 6.2.4. By Nozzle Bore Size
 - 6.2.5. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Abrasive Blasting Nozzle Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Nozzle Type
 - 6.3.1.2.2. By Material
 - 6.3.1.2.3. By End Use
 - 6.3.1.2.4. By Nozzle Bore Size
 - 6.3.2. Canada Abrasive Blasting Nozzle Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Nozzle Type
 - 6.3.2.2.2. By Material
 - 6.3.2.2.3. By End Use
 - 6.3.2.2.4. By Nozzle Bore Size
 - 6.3.3. Mexico Abrasive Blasting Nozzle Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Nozzle Type
 - 6.3.3.2.2. By Material
 - 6.3.3.2.3. By End Use
 - 6.3.3.2.4. By Nozzle Bore Size

7. EUROPE ABRASIVE BLASTING NOZZLE MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Nozzle Type

7.2.2. By Material

7.2.3. By End Use

7.2.4. By Nozzle Bore Size

7.2.5. By Country

7.3. Europe: Country Analysis

7.3.1. Germany Abrasive Blasting Nozzle Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Nozzle Type

7.3.1.2.2. By Material

7.3.1.2.3. By End Use

7.3.1.2.4. By Nozzle Bore Size

7.3.2. France Abrasive Blasting Nozzle Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Nozzle Type

7.3.2.2.2. By Material

7.3.2.2.3. By End Use

7.3.2.2.4. By Nozzle Bore Size

7.3.3. United Kingdom Abrasive Blasting Nozzle Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Nozzle Type

7.3.3.2.2. By Material

7.3.3.2.3. By End Use

7.3.3.2.4. By Nozzle Bore Size

7.3.4. Italy Abrasive Blasting Nozzle Market Outlook

7.3.4.1. Market Size & Forecast

7.3.4.1.1. By Value

- 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Nozzle Type
 - 7.3.4.2.2. By Material
 - 7.3.4.2.3. By End Use
 - 7.3.4.2.4. By Nozzle Bore Size
- 7.3.5. Spain Abrasive Blasting Nozzle Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Nozzle Type
 - 7.3.5.2.2. By Material
 - 7.3.5.2.3. By End Use
 - 7.3.5.2.4. By Nozzle Bore Size

8. ASIA PACIFIC ABRASIVE BLASTING NOZZLE MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Nozzle Type
 - 8.2.2. By Material
 - 8.2.3. By End Use
 - 8.2.4. By Nozzle Bore Size
 - 8.2.5. By Country
- 8.3. Asia Pacific: Country Analysis
 - 8.3.1. China Abrasive Blasting Nozzle Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Nozzle Type
 - 8.3.1.2.2. By Material
 - 8.3.1.2.3. By End Use
 - 8.3.1.2.4. By Nozzle Bore Size
 - 8.3.2. India Abrasive Blasting Nozzle Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Nozzle Type
 - 8.3.2.2.2. By Material

- 8.3.2.2.3. By End Use
- 8.3.2.2.4. By Nozzle Bore Size
- 8.3.3. Japan Abrasive Blasting Nozzle Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Nozzle Type
 - 8.3.3.2.2. By Material
 - 8.3.3.2.3. By End Use
 - 8.3.3.2.4. By Nozzle Bore Size
- 8.3.4. South Korea Abrasive Blasting Nozzle Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Nozzle Type
 - 8.3.4.2.2. By Material
 - 8.3.4.2.3. By End Use
 - 8.3.4.2.4. By Nozzle Bore Size
- 8.3.5. Australia Abrasive Blasting Nozzle Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Nozzle Type
 - 8.3.5.2.2. By Material
 - 8.3.5.2.3. By End Use
 - 8.3.5.2.4. By Nozzle Bore Size

9. MIDDLE EAST & AFRICA ABRASIVE BLASTING NOZZLE MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Nozzle Type
 - 9.2.2. By Material
 - 9.2.3. By End Use
 - 9.2.4. By Nozzle Bore Size
 - 9.2.5. By Country
- 9.3. Middle East & Africa: Country Analysis
 - 9.3.1. Saudi Arabia Abrasive Blasting Nozzle Market Outlook

- 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
- 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Nozzle Type
 - 9.3.1.2.2. By Material
 - 9.3.1.2.3. By End Use
 - 9.3.1.2.4. By Nozzle Bore Size
- 9.3.2. UAE Abrasive Blasting Nozzle Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Nozzle Type
 - 9.3.2.2.2. By Material
 - 9.3.2.2.3. By End Use
 - 9.3.2.2.4. By Nozzle Bore Size
- 9.3.3. South Africa Abrasive Blasting Nozzle Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Nozzle Type
 - 9.3.3.2.2. By Material
 - 9.3.3.2.3. By End Use
 - 9.3.3.2.4. By Nozzle Bore Size

10. SOUTH AMERICA ABRASIVE BLASTING NOZZLE MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Nozzle Type
 - 10.2.2. By Material
 - 10.2.3. By End Use
 - 10.2.4. By Nozzle Bore Size
 - 10.2.5. By Country
- 10.3. South America: Country Analysis
 - 10.3.1. Brazil Abrasive Blasting Nozzle Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast

- 10.3.1.2.1. By Nozzle Type
- 10.3.1.2.2. By Material
- 10.3.1.2.3. By End Use
- 10.3.1.2.4. By Nozzle Bore Size
- 10.3.2. Colombia Abrasive Blasting Nozzle Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Nozzle Type
 - 10.3.2.2.2. By Material
 - 10.3.2.2.3. By End Use
 - 10.3.2.2.4. By Nozzle Bore Size
- 10.3.3. Argentina Abrasive Blasting Nozzle Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Nozzle Type
 - 10.3.3.2.2. By Material
 - 10.3.3.2.3. By End Use
 - 10.3.3.2.4. By Nozzle Bore Size

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

13. GLOBAL ABRASIVE BLASTING NOZZLE MARKET: SWOT ANALYSIS

14. PORTER'S FIVE FORCES ANALYSIS

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers

- 14.4. Power of Customers
- 14.5. Threat of Substitute Products

15. COMPETITIVE LANDSCAPE

- 15.1. Saint-Gobain Abrasives
 - 15.1.1. Business Overview
 - 15.1.2. Products & Services
 - 15.1.3. Recent Developments
 - 15.1.4. Key Personnel
 - 15.1.5. SWOT Analysis
- 15.2. Clemco Industries Corp.
- 15.3. Rosler Group
- 15.4. 3M Company
- 15.5. Garmat USA
- 15.6. Empire Abrasive Equipment
- 15.7. Vortex Tools
- 15.8. BlastOne International
- 15.9. Wheelabrator Group

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

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