

Sand Processing Equipment Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Sand Processing Equipment Market was valued at USD 2.9 billion in 2024 and is estimated to grow at a CAGR of 5.6% to reach USD 4.9 billion by 2034. This rise is largely being driven by the rising demand for high-quality sand across the construction and infrastructure industries. As industrial activity intensifies and urbanization accelerates - particularly in developing economies - there is a growing requirement for refined sand used in key construction applications. From concrete manufacturing to road-building and foundational support, construction-grade sand plays an essential role. In response to mounting pressure to meet performance standards while minimizing environmental impact, companies are actively seeking modern, energy-efficient sand processing technologies that align with evolving sustainability goals. There is now a clear emphasis on integrating systems that not only improve operational productivity but also promote reuse and recycling, reducing the industry's dependence on natural sand sources.

Global regulatory bodies are also steering the market in a greener direction by encouraging the adoption of machinery that supports environmentally responsible practices. The equipment being developed today is designed to operate with greater precision, efficiency, and a smaller ecological footprint. To comply with stricter environmental regulations, manufacturers are designing solutions that conserve resources and enable better control over processing outcomes. These innovations are gaining traction as concerns over resource depletion and environmental damage grow stronger.

Among the equipment categories, washing systems took the lead in 2024, generating revenue of around USD 900 million. This segment is forecast to grow at a CAGR of

5.9% throughout the 2025–2034 period. The growing adoption of automated washing systems stems from their ability to deliver clean, consistent, and high-grade sand output. These machines are becoming essential for companies looking to reduce water waste, recycle process water, and maintain sand quality at scale. In addition, advanced technologies like IoT and artificial intelligence are being incorporated into washing systems to enhance their real-time performance tracking, reduce energy consumption, and lower the risk of system downtime. As industries move toward achieving greener operations, demand for such intelligent washing units is only expected to intensify.

In terms of end-use, the construction sector held the lion's share of the market in 2024, accounting for 53% of total revenue. This segment is projected to witness a CAGR of 6% over the next decade. The continued rise in global infrastructure projects, especially in rapidly developing nations, is a key growth driver. With growing urban populations and national-level infrastructure programs in motion, construction companies are increasingly relying on advanced sand processing solutions that meet the need for high-quality output and regulatory compliance. There is a strong shift toward on-site sand preparation, which enhances project efficiency and reduces dependence on external sand suppliers. As construction standards become more stringent, the demand for high-performance equipment capable of producing premium-grade materials continues to rise.

When it comes to equipment configuration, stationary systems dominated the market in 2024 and are expected to maintain a steady CAGR of over 5.2% through 2034. These systems are primarily used in large-scale industrial environments where high-volume production and long-term reliability are critical. Stationary units offer enhanced capacity, durability, and customization, making them ideal for mining and heavy infrastructure projects. Additionally, the integration of advanced control technologies in stationary setups is helping companies optimize energy use, improve output quality, and minimize operational downtime. These innovations are particularly appealing to firms focused on reducing their carbon footprint and maintaining consistent product standards.

Regionally, the United States emerged as the top-performing market within North America in 2024, contributing nearly USD 500 million in revenue and capturing 77% of the region's total market share. This dominance is closely linked to major public and private investments in infrastructure upgrades. As modernization efforts accelerate across the country - particularly in transportation, commercial construction, and housing - there is a noticeable increase in demand for sand processing systems that can deliver performance, compliance, and sustainability. Manufacturers are responding with

modular, automation-friendly designs that meet both functional requirements and regulatory mandates. These systems are allowing companies to better align with current and upcoming environmental standards while maximizing long-term value.

Major players in the sand processing equipment industry are prioritizing strategic growth through acquisitions, partnerships, and innovation-driven investments. Many companies are enhancing their portfolios with new technologies that promise better efficiency, reduced emissions, and superior sand quality. The industry is steadily moving toward an ecosystem of integrated solutions, offering systems that support a wide range of applications while enabling companies to future-proof their operations in a sustainability-driven global market.

Companies Mentioned

Aggregates Equipment, Astec, CDE Group, D&G Machinery, FSP, LZZG, McLanahan, Metso, Mogensen, Palmer, Sinonine, Sinto, Superior Industries, Titan Crushing Equipment, Weir

Contents

Report Content

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Market scope and definition
- 1.2 Research design
 - 1.2.1 Research approach
 - 1.2.2 Data collection methods
- 1.3 Data mining sources
 - 1.3.1 Global
 - 1.3.2 Regional/country
- 1.4 Base estimates and calculations
 - 1.4.1 Base year calculation
 - 1.4.2 Key trends for market estimation
- 1.5 Primary research and validation
 - 1.5.1 Primary sources
- 1.6 Forecast model
- 1.7 Research assumptions and limitations

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry 360° synopsis
- 2.2 Key market trends
 - 2.2.1 By regional
 - 2.2.2 By equipment type
 - 2.2.3 By type
 - 2.2.4 By end use industry
 - 2.2.5 By distribution channel
- 2.3 CXO perspectives: strategic imperatives
 - 2.3.1 Key decision points for industry executives
 - 2.3.2 Critical success factors for market players
- 2.4 Future outlook and strategic recommendations

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
 - 3.1.1 Supplier landscape

- 3.1.2 Profit margin
- 3.1.3 Value addition at each stage
- 3.1.4 Factor affecting the value chain
- 3.2 Industry impact forces
 - 3.2.1 Growth drivers
 - 3.2.2 Industry pitfalls & challenges
 - 3.2.3 Opportunities
- 3.3 Growth potential analysis
- 3.4 Future market trends
- 3.5 Technology and innovation landscape
 - 3.5.1 Current technological trends
 - 3.5.2 Emerging technologies
- 3.6 Price trends
 - 3.6.1 By region
 - 3.6.2 By equipment type
- 3.7 Regulatory landscape
 - 3.7.1 Standards and compliance requirements
 - 3.7.2 Regional regulatory frameworks
 - 3.7.3 Certification standards
- 3.8 Porter's analysis
- 3.9 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Introduction
- 4.2 Company market share analysis
 - 4.2.1 By region
 - 4.2.1.1 North America
 - 4.2.1.2 Europe
 - 4.2.1.3 Asia Pacific
 - 4.2.1.4 Latin America
 - 4.2.1.5 MEA
- 4.3 Company matrix analysis
- 4.4 Competitive analysis of major market players
- 4.5 Competitive positioning matrix
- 4.6 Key developments
 - 4.6.1 Mergers & acquisitions
 - 4.6.2 Partnerships & collaborations
 - 4.6.3 New product launches

4.6.4 Expansion plans

CHAPTER 5 MARKET ESTIMATES & FORECAST, BY EQUIPMENT TYPE, 2021 - 2034 (\$BILLION, THOUSAND UNITS)

5.1 Key trends

5.1.1 Screening equipment

5.1.2 Trommel Screens

5.1.3 Vibrating Screens

5.1.3.1 Inclined

5.1.3.2 Horizontal

5.1.3.3 Multi-deck

5.1.4 Disc screens

5.2 Washing equipment

5.2.1 Spiral sand washing machines

5.2.2 Impeller sand washing machines

5.3 Classifying equipment

5.3.1 Dewatering cyclones

5.3.2 Classifying cyclones

5.3.3 Classifying tanks

5.3.4 Others (fine material washers etc.)

5.4 Scrubbing equipment

5.4.1 Stirring scrubbing machines

5.4.2 Spiral groove scrubbing machines

5.5 Others (dewatering etc.)

CHAPTER 6 MARKET ESTIMATES & FORECAST, BY TYPE, 2021 - 2034 (\$BILLION, THOUSAND UNITS)

6.1 Key trends

6.2 Stationery

6.3 Mobile

CHAPTER 7 MARKET ESTIMATES & FORECAST, BY END USE INDUSTRY, 2021 - 2034 (\$BILLION, THOUSAND UNITS)

7.1 Key trends

7.2 Construction

7.3 Glass Manufacturing

- 7.4 Foundry industry
- 7.5 Mining & mineral processing
- 7.6 Others

CHAPTER 8 MARKET ESTIMATES & FORECAST, BY DISTRIBUTION CHANNEL, 2021 - 2034 (\$BILLION, THOUSAND UNITS)

- 8.1 Key trends
- 8.2 Direct sales
- 8.3 Indirect sales

CHAPTER 9 MARKET ESTIMATES & FORECAST, BY REGION, 2021 - 2034 (\$BILLION, THOUSAND UNITS)

- 9.1 Key trends
- 9.2 North America
 - 9.2.1 U.S.
 - 9.2.2 Canada
- 9.3 Europe
 - 9.3.1 Germany
 - 9.3.2 UK
 - 9.3.3 France
 - 9.3.4 Spain
 - 9.3.5 Italy
 - 9.3.6 Netherlands
- 9.4 Asia Pacific
 - 9.4.1 China
 - 9.4.2 Japan
 - 9.4.3 India
 - 9.4.4 Australia
 - 9.4.5 South Korea
- 9.5 Latin America
 - 9.5.1 Brazil
 - 9.5.2 Mexico
 - 9.5.3 Argentina
- 9.6 MEA
 - 9.6.1 South Africa
 - 9.6.2 Saudi Arabia
 - 9.6.3 UAE

CHAPTER 10 COMPANY PROFILES

- 10.1 Aggregates Equipment
- 10.2 Astec
- 10.3 CDE Group
- 10.4 D&G Machinery
- 10.5 FSP
- 10.6 LZZG
- 10.7 McLanahan
- 10.8 Metso
- 10.9 Mogensen
- 10.10 Palmer
- 10.11 Sinonine
- 10.12 Sinto
- 10.13 Superior Industries
- 10.14 Titan Crushing Equipment
- 10.15 Weir

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