

Global Vertical Core Shooter Machine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Vertical Core Shooter Machine market size is expected to reach \$ 1323 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

Vertical Core Shooter Machine refers to specialized foundry equipment used for manufacturing sand cores through vertical shooting processes in casting production. The machine injects prepared core sand mixed with binders into a core box under compressed air pressure, followed by curing or hardening to produce precise sand cores for metal casting. Vertical Core Shooter Machines are mainly designed with vertical mold closing structures and are available in cold box, hot box, shell core, and inorganic core-making configurations. These machines are widely used for producing complex internal cavities and precision cores for automotive castings, engine components, hydraulic parts, pump and valve castings, machinery components, and other metal casting applications.

Key Findings

Vertical Core Shooter Machine is a key foundry equipment for automated sand core production

Cold box and automatic vertical core shooting systems represent major commercial segments

Automotive castings and industrial machinery components are major application areas

Asia Pacific is an important production and consumption region supported by foundry industry development

Automation, precision control, and energy efficiency are major technology development directions

Market Trends

The Vertical Core Shooter Machine market is developing toward higher automation, improved precision, energy efficiency, and intelligent manufacturing integration. Foundry manufacturers are increasingly adopting automated core-making equipment to improve production consistency, reduce labor dependency, and enhance casting quality. Machine manufacturers are focusing on servo control systems, digital monitoring, faster mold change technologies, reduced material consumption, and integration with smart foundry production lines. The increasing demand for lightweight automotive components, precision castings, and advanced manufacturing processes is further driving equipment upgrades.

Market Dynamics

Drivers

Growth in automotive manufacturing, industrial equipment production, and precision casting demand is driving adoption of Vertical Core Shooter Machines. Increasing requirements for complex casting geometries, improved production efficiency, and automated foundry operations are encouraging manufacturers to invest in advanced core-making equipment.

Restraints

Market development is constrained by high equipment investment costs, complex maintenance requirements, and dependence on skilled technical operation. Fluctuations in foundry investment cycles and casting industry demand may also affect equipment purchasing decisions.

Opportunities

Opportunities exist in smart foundry transformation, automated production lines, electric vehicle component casting, and high-precision industrial castings. Manufacturers developing energy-saving equipment, intelligent control systems, and flexible production solutions may gain additional market opportunities.

Challenges

The industry faces challenges from increasing competition among equipment suppliers, changing casting technologies, stricter environmental requirements, and the need for continuous innovation. Improving machine flexibility while maintaining cost competitiveness remains a key challenge.

Industry Chain Analysis

The Vertical Core Shooter Machine industry chain includes casting equipment manufacturers, machinery component suppliers, automation system providers, foundry enterprises, and downstream metal product manufacturers. Upstream suppliers provide machine frames, hydraulic systems, pneumatic components, control systems, sensors, and core-making materials. Midstream manufacturers integrate mechanical design, shooting systems, mold clamping structures, automation controls, and testing technologies to produce Vertical Core Shooter Machines. Downstream applications include automotive foundries, machinery manufacturers, pump and valve producers, construction equipment suppliers, and precision casting companies. Value creation mainly depends on equipment reliability, core-making accuracy, automation capability, production efficiency, and after-sales technical support.

Segment Insights

Vertical Core Shooter Machines are mainly segmented by core-making process, clamping force, automation level, and machine configuration. Cold box core shooting technology represents a major segment due to its high production efficiency and suitability for complex castings. Automatic and fully automatic machines are increasingly adopted in large-scale foundry operations to improve consistency and reduce labor requirements. Equipment selection varies according to casting size, core complexity, production volume, and quality requirements.

Downstream Market Opportunities

The major downstream opportunities for Vertical Core Shooter Machines are concentrated in automotive casting, engine components, hydraulic parts, pump and valve castings, agricultural machinery, construction machinery, and industrial equipment manufacturing. The transition toward lightweight components, electric vehicle manufacturing, and high-precision casting creates additional demand for advanced core-making equipment.

Regional Insights

Asia Pacific represents an important Vertical Core Shooter Machine market due to its large foundry industry, automotive manufacturing base, and industrial equipment production capacity. China, Japan, and South Korea are significant markets with strong casting equipment demand and manufacturing capabilities. Europe maintains demand through advanced automotive and industrial casting industries, while North America focuses on automation upgrades and high-efficiency foundry solutions. Regional differences are mainly reflected in manufacturing structure, automation adoption, equipment investment levels, and casting technology requirements.

Competitive Landscape Analysis

The Vertical Core Shooter Machine market includes specialized foundry equipment manufacturers, casting machinery companies, automation solution providers, and integrated foundry technology suppliers. Competition is mainly based on equipment precision, automation level, production efficiency, reliability, customization capability, and technical service. International manufacturers generally compete through advanced engineering capabilities and global service networks, while regional manufacturers focus on cost efficiency and localized customer support. Future competition will emphasize intelligent foundry solutions, energy-efficient equipment, flexible manufacturing systems, and digital integration.

Report Scope

This report studies the global Vertical Core Shooter Machine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Vertical Core Shooter Machine 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 Vertical Core Shooter Machine that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Vertical Core Shooter Machine total production and demand, 2021-2032, (Units)

Global Vertical Core Shooter Machine total production value, 2021-2032, (USD Million)

Global Vertical Core Shooter Machine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Vertical Core Shooter Machine consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Vertical Core Shooter Machine domestic production, consumption, key domestic manufacturers and share

Global Vertical Core Shooter Machine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Vertical Core Shooter Machine production by Core Making Process Types, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Vertical Core Shooter Machine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Vertical Core Shooter Machine 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 DISA (Norican Group), Loramendi S.Coop., Laempe Mössner Sinto GmbH, Sinto America, Inc., HWS GmbH, Küttner Savelli S.r.l., Toshiba Machine Co., Ltd., Sintokogio, Ltd., Tokyu Corporation (Tokyu Machinery), Qingdao Huaxin Group 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 Vertical Core Shooter Machine 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 Core Making Process Types, 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 Vertical Core Shooter Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Vertical Core Shooter Machine Market, Segmentation by Core Making Process Types:

Cold Box Core Shooter Machine

Hot Box Core Shooter Machine

Shell Core Shooter Machine

Others

Global Vertical Core Shooter Machine Market, Segmentation by Clamping Force Types:

Small Core Shooter Machine (<50 kN)

Medium Core Shooter Machine (50–200 kN)

Large Core Shooter Machine (>200 kN)

Global Vertical Core Shooter Machine Market, Segmentation by Automation Level Types:

Manual

Semi-Automatic

Fully Automatic

Global Vertical Core Shooter Machine Market, Segmentation by Application:

Automotive Casting Parts

Agricultural Machinery Parts

Construction Machinery Parts

Railway Components

Industrial Equipment Castings

Others

Companies Profiled:

DISA (Norican Group)

Loramendi S.Coop.

Laempe Mössner Sinto GmbH

Sinto America, Inc.

HWS GmbH

Küttner Savelli S.r.l.

Toshiba Machine Co., Ltd.

Sintokogio, Ltd.

Tokyu Corporation (Tokyu Machinery)

Qingdao Huaxin Group Co., Ltd.

Qingdao Tianhui Machinery Co., Ltd.

Qingdao Foundry Machinery Co., Ltd.

Suzhou Huilong Machinery Co., Ltd.

Key Questions Answered:

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

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