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Forged Steel Trunnion Mounted Ball Valve Market Forecasts to 2034 – Global Analysis By Type (Standard Port and Full Port), Application (Power Generation, Water Treatment Industry, Chemical and Petrochemical Industry, Oil and Gas Industry and Other Applications) and By Geography

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Abstracts

According to Stratistics MRC, the Global Forged Steel Trunnion Mounted Ball Valve Market is accounted for $2386.3 million in 2026 and is expected to reach $3979.1 million by 2034 growing at a CAGR of 6.6% during the forecast period. A robust industrial valve made for high-pressure applications is the forged steel trunnion-mounted ball valve. The forging process ensures a high-quality, homogeneous material with improved mechanical properties, making the valve well-suited for applications involving high pressure, high temperature, and corrosive environments. In addition, the trunnion-mounted design uses trunnion-stationary which supports in improving stability and lower operating friction and can withstand high pressures and provide dependable, effective fluid control in challenging environments.

Market Dynamics:

Driver:

Rise in global energy demand

The utilization of forged steel trunnion-mounted ball valves is essential in maintaining and enhancing power plant operations, particularly in developing nations. These valves play a crucial role in facilitating the control and transportation of fluids in energy

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infrastructure, ensuring the safe and efficient operation of processes in high-pressure settings. Moreover, the need for energy is growing worldwide as investments in energy infrastructure needs for fuel and electricity which are boosting market expansion.

Restraint:

High cost

The premium forged steel, which is strong and long-lasting but also quite expensive in comparison to other valve materials, is used in the manufacture of the valves. Complex design and engineering are required for forged steel trunnion-mounted ball valves (FS-TMBVs), which contribute to higher manufacturing costs. In addition, the valves require modifications to the existing piping infrastructure, which can further increase the overall installation costs. Small and medium-sized enterprises or projects with budget constraints face problems, thereby hindering market growth.

Opportunity:

Technological advancements

The technological advancement of forged steel trunnion-mounted ball valves places them as cutting-edge solutions, satisfying the needs of contemporary industrial applications. The performance and efficiency of valves are improved by the integration of technologies, such as sensors and remote monitoring capabilities. These materials enhance the valves' resistance to harsh operating conditions, improving their lifespan and reducing maintenance requirements.

Threat:

Difficulties in installation and maintenance

These valves' intricate design may present difficulties during installation, which could cause delays and raise expenses. Improper installation can lead to leaks, reduced performance, or even safety hazards. In addition, accessing and servicing these valves, especially in remote or confined spaces, can be challenging, requiring specialized tools and skilled personnel. Industries may hesitate to adopt these valves due to concerns about operational disruptions during installation or maintenance activities, which pose a challenge for the market’s growth.

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Covid-19 Impact

The forged steel trunnion-mounted ball valves market experienced notable negative impacts due to the COVID-19 pandemic. The widespread economic disruptions, lockdowns, and restrictions significantly affected the industrial landscape, including the valve manufacturing sector. Increased market pressure was caused by fluctuations in the cost of raw materials and logistical difficulties. Additionally, travel restrictions and social distancing measures impeded business collaborations and reduced industrial activities and oil price volatility which consequently hampered market growth.

The standard port segment is expected to be the largest during the forecast period

The standard port segment is estimated to hold the largest share. These valves are meant to be used in situations where modest flow rates are adequate. Standard port valves are appropriate for a variety of industries, including petrochemicals, power generation, and oil and gas, because they strike a balance between cost-effectiveness and effective fluid control. They preserve the robustness and longevity of forged steel construction by guaranteeing dependable performance in mid-range pressure, which thereby gradually propelling market growth.

The power generation segment is expected to have the highest CAGR during the forecast period

The power generation segment is anticipated to have highest CAGR during the forecast period. These valves guarantee accurate and dependable fluid regulation in crucial power generation processes because they are specifically made for high-pressure applications. Moreover, the power generation industry undergoes transitions towards cleaner and more efficient technologies, there is an increasing need for advanced valve solutions to optimize performance and ensure the safety of critical processes, which prolongs the life of power plant systems and ensures smooth operation which are boosting the segment expansion.

Region with largest share:

North America commanded the largest market share during the extrapolated period owing to government regulations and procurement practices that create opportunities for valve manufacturers, like energy policies and infrastructure development projects. A focus on enhancing operational efficiency and minimizing maintenance costs in critical

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applications are evolving. In addition, key regions in North America focus on innovation, production activities, and strategic collaborations to maintain a competitive edge and technologically advanced durable valves, which further propel the region demand.

Region with highest CAGR:

Europe is expected to witness highest CAGR over the projection period, due to the integration of advanced features in valve systems, which include automation, smart technologies, and Industry 4.0 principles. This region is home to some of the major players, including Velan Inc., Cameron International Corporation, Emerson Electric Co., and Kitz Corporation. The use of data analytics for predictive maintenance, intelligent monitoring, improves product performance and efficient flow control features, which are integral to ensuring operational safety and minimizing the environmental impacts of critical processes, thereby driving the region's expansion.

Key players in the market

Some of the key players in the Forged Steel Trunnion Mounted Ball Valve Market include Bray, L&T Valves Limited, Argus Machine, Velan Inc., Cameron International, Powell Valves, Neway Valve, Flowserve Corporation, Circor International, Inc., Kitz Corporation and Emerson Electric Co.

Key Developments:

In November 2023, Larsen & Toubro (L&T), an Indian multinational engaged in EPC Projects, Hi-Tech Manufacturing and Services, has announced the divestment of its 100% stake in L&T Infrastructure Engineering Limited (LTIEL), a provider of standalone engineering consultancy services for the infrastructure sector in India.

In October 2023, CIRCOR International, Inc. announced the successful completion of its acquisition by investment affiliates of KKR per share.

In August 2023, Emerson announced a definitive agreement to acquire FLEXIM Flexible Industrieme?technik GmbH, a global leader in clamp-on ultrasonic flow measurement for liquids, gases and steam.

In June 2023, CIRCOR International, Inc. announced that it has entered into a definitive agreement to be acquired by investment funds managed by KKR, a leading global investment firm, in an all cash transaction valued at approximately $1.6 billion, including

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the assumption of debt.

In March 2023, Larsen & Toubro (L&T), an Indian multinational engaged in EPC Projects, Hi-Tech Manufacturing and Services, have entered into an Electrolyzer Manufacturing Binding Agreement with McPhy Energy.

Types Covered:

- Standard Port
- Full Port

Applications Covered:

- Power Generation
- Water Treatment Industry
- Chemical and Petrochemical Industry
- Oil and Gas Industry
- Other Applications

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany

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- UK
- Italy
- France
- Spain
- Rest of Europe

Asia Pacific

- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina
- Brazil
- Chile
- Rest of South America

Middle East & Africa

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Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

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Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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