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Global Forged High-Pressure Trunnion Ball Valve Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Forged High-Pressure Trunnion Ball Valve market size was valued at US$ 1721 million in 2025 and is forecast to a readjusted size of US$ 2501 million by 2032 with a CAGR of 5.5% during review period.

In 2025, global sales of forged high-pressure trunnion ball valves across various applications reached approximately 478,000 units, with an average price of approximately USD 3,500 per unit and a gross profit margin of approximately 25%–31%. Forged high-pressure trunnion ball valves are heavy-duty ball valves used for shut-off and switching in medium and high-pressure pipelines. Their core structure consists of a forged steel valve body, a trunnion-supported ball, and a spring-loaded seat. Typical components include a forged steel valve body and cover (A105, LF2, F51/F53, etc.), upper/lower trunnions and ball assemblies (usually stainless steel or nickel-based alloy spray-welded/plated), a spring-loaded soft/metal seat, valve stem and stuffing box, fireproof and anti-static construction, a valve body drain/grease inlet, and a manual or matching gearbox/actuator connecting flange. Common parameters include: diameter range (NPS 2"–48"), pressure rating (Class 150–2500; API 3000/5000/10000; special applications are covered by dedicated structures), and operating temperature (?46~+200 ?, cryogenic LNG). (And high-temperature operating conditions are extended through material and sealing design), full-bore/reduced-bore structures are available, and the typical leakage level meets the API 598/ISO 5208 zero-leakage requirements. In terms of typical usage: a 1 million ton/year oil refinery or integrated refining and chemical unit typically has 50-200 forged steel trunnion ball valves (distributed in high-pressure shut-off, key valve positions at the top/bottom of the tower, and flare/venting systems); a 300-600 km long-distance natural gas pipeline

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project often uses 30-80 medium and large diameter trunnion ball valves arranged in stations, valve chambers, and distribution points; a key process area of ??an LNG receiving terminal/liquefaction plant is usually equipped with 40-120 trunnion ball valves of different specifications. The upstream mainly relies on high-quality alloy steel and stainless steel billets for medium and heavy plates and forgings, forging and heat treatment capabilities, hardfacing/plating processes for spheres and valve seats, springs and sealing materials, and valve-specific testing and experimental equipment; the downstream focuses on long-distance oil and gas pipeline and station projects, EPC general contracting for oil refining and chemical plants, LNG liquefaction and receiving terminals, underground gas storage and salt cavern gas storage projects, as well as power plant and high-pressure process pipeline system integrators.

This report is a detailed and comprehensive analysis for global Forged High-Pressure Trunnion Ball Valve market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Forged High-Pressure Trunnion Ball Valve market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Forged High-Pressure Trunnion Ball Valve market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Forged High-Pressure Trunnion Ball Valve market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Forged High-Pressure Trunnion Ball Valve market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

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To determine the size of the total market opportunity of global and key countries
To assess the growth potential for Forged High-Pressure Trunnion Ball Valve
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

This report profiles key players in the global Forged High-Pressure Trunnion Ball Valve market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Warren Valve, Bonney Forge, Hartmann Valves, Flowserve, IMI PBM, Tiger Valve, CNC Flow Contro, JAG Valve, Bray, Camtech Manufacturing, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Forged High-Pressure Trunnion Ball Valve market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

2 Piece

3 Piece

Market segment by Port Size

Full Bore

Reduced Bore

Market segment by Material Grade

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A105N

A182-F316 SS

A350-LF2

Others

Market segment by Application

Chemical Industry

Water Treatment Industry

Others

Major players covered

Warren Valve

Bonney Forge

Hartmann Valves

Flowserve

IMI PBM

Tiger Valve

CNC Flow Contro

JAG Valve

Bray

Camtech Manufacturing

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GWC USA

Neway

BROEN

Convalve

SCV Valve

DHV Industries

LETE VALVE

New Dipper Valve

DBV VALVE

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Forged High-Pressure Trunnion Ball Valve product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Forged High-Pressure Trunnion Ball Valve, with price, sales quantity, revenue, and global market share of Forged High-Pressure Trunnion Ball Valve from 2021 to 2026.

Chapter 3, the Forged High-Pressure Trunnion Ball Valve competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed

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emphatically by landscape contrast.

Chapter 4, the Forged High-Pressure Trunnion Ball Valve breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Forged High-Pressure Trunnion Ball Valve market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Forged High-Pressure Trunnion Ball Valve.

Chapter 14 and 15, to describe Forged High-Pressure Trunnion Ball Valve sales channel, distributors, customers, research findings and conclusion.

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