

India Flanges Market, By Type (Weld Neck Flanges, Slip-On Flanges, Socket Weld Flanges, Blind Flanges, Lap Joint Flanges, Threaded Flanges), By Material (Carbon Steel Flanges, Stainless Steel Flanges, Alloy Steel Flanges, Duplex Stainless Steel Flanges), By End User (Oil & Gas, Chemical & Petrochemical, Water & Wastewater Treatment, Power Generation, Aerospace & Defense, Shipbuilding) By Region, Competition, Forecast & Opportunities, 2021-2031F

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Abstracts

Market Overview

The India Flanges Market was valued at USD 730 million in 2025 and is projected to reach USD 1,169 million by 2031, growing at a CAGR of 8.01% during the forecast period. Flanges are essential components used to connect pipes, pumps, valves, and other equipment, enabling secure, leak-free joints in piping systems. These components play a crucial role in ensuring ease of maintenance and system reliability across various applications. Typically made from stainless steel, carbon steel, alloy steel, or plastic, flanges come in types such as weld neck, slip-on, socket weld, threaded, lap joint, and blind—each tailored to specific pressure and fluid requirements. Their adoption is widespread in sectors like oil and gas, power generation, water treatment, and chemical processing. India's rapid urbanization and infrastructure initiatives are significantly boosting demand for high-quality flanges. Programs such as the Smart Cities Mission and AMRUT are driving the development of complex piping systems, particularly in urban utilities, further reinforcing the need for standardized, durable flange solutions. The market is also benefiting from technological advancements in materials and

manufacturing, encouraging greater reliability and longevity of components used in critical infrastructure and industrial settings.

Key Market Drivers

Infrastructure Development and Urbanization

India's growing infrastructure and urbanization efforts are major contributors to the flanges market. As cities expand and new ones emerge, there's heightened demand for robust utility networks involving water, sewage, and gas distribution—each requiring secure pipe connections enabled by flanges. Large-scale government initiatives such as AMRUT, Smart Cities, and Gati Shakti are driving the construction of water supply systems, metro networks, highways, and industrial corridors, all of which rely heavily on extensive pipeline infrastructure. The Union Budget 2024–25 allocated a notable 11.1% increase in infrastructure spending, reflecting a sustained push toward national development. These expansive projects require high-grade, corrosion-resistant flanges for durability and reliability. The rising adoption of sustainable development practices has also led to demand for advanced flange materials and technologies, ensuring long-term resilience in infrastructure systems. With the National Infrastructure Pipeline targeting USD 1.4 trillion in investments by 2025, the demand for flanges is expected to maintain an upward trajectory.

Key Market Challenges

Fluctuating Raw Material Prices

Volatility in raw material prices—particularly for stainless steel, carbon steel, and specialty alloys—poses a significant challenge for the Indian flanges market. Price fluctuations are driven by global supply-demand dynamics, trade restrictions, geopolitical events, and logistical disruptions. Many manufacturers, especially SMEs, struggle to manage these cost variations, which can affect their profitability and pricing competitiveness. Since India imports a considerable portion of specialized alloys, any disruption in international trade impacts the cost structure. These sudden increases often lead to project delays or renegotiations, especially when buyers are resistant to bearing additional costs. Additionally, maintaining profitability under such pressure limits investments in R&D and capacity expansion. Companies must adopt strategies such as diversifying sourcing, entering long-term supply contracts, and exploring alternative materials. However, these approaches require capital and expertise that not all industry players possess, making raw material volatility a persistent constraint.

Key Market Trends

Rising Demand for Stainless Steel and Alloy Flanges

A growing preference for stainless steel and specialized alloy flanges is a key trend transforming the Indian flanges market. This shift is driven by increasing awareness of corrosion resistance, material longevity, and performance under extreme pressure and temperature conditions. Industries such as oil and gas, water treatment, and power generation are moving away from traditional carbon steel to stainless steel variants for enhanced durability. Stainless steel flanges are also gaining traction due to their lower maintenance needs and longer service life, resulting in better lifecycle value.

Additionally, India's growing investment in high-performance sectors like petrochemicals, pharmaceuticals, and renewable energy has increased the demand for duplex and super duplex stainless steels and high-nickel alloys. These materials support operations in highly corrosive or high-pressure environments. As this trend progresses, local manufacturers are upgrading their facilities to meet stringent international standards, which not only boosts domestic supply but also enhances India's export potential for high-specification flanges.

Key Market Players

Texas Flange & Supply Inc.

Outokumpu Oyj

Sandvik AB

Metalflex BV

AFG Holdings, Inc.

Velan Inc

Forum Energy Technologies, Inc.

Tenaris S.A.

Report Scope:

In this report, the India Flanges Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

India Flanges Market, By Type:

Weld Neck Flanges

Slip-On Flanges

Socket Weld Flanges

Blind Flanges

Lap Joint Flanges

Threaded Flanges

India Flanges Market, By Material:

Carbon Steel Flanges

Stainless Steel Flanges

Alloy Steel Flanges

Duplex Stainless Steel Flanges

India Flanges Market, By End User:

Oil & Gas

Chemical & Petrochemical

Water & Wastewater Treatment

Power Generation

Aerospace & Defense

Shipbuilding

India Flanges Market, By Region:

South India

North India

West India

East India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India Flanges Market.

Available Customizations:

India Flanges 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).

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