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Cable Glands Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Non-Hazardous and Hazardous), By Cable Type (Armored and Unarmored), By Material Used (Brass, Aluminum, Plastic, Stainless Steel and Other), By End User Industry (Aerospace, Construction, Manufacturing & Processing, Oil & Gas, Power & Utilities and Other), By Region & Competition, 2021-2031F

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Abstracts

The Global Cable Glands Market is projected to expand from USD 2.76 Billion in 2025 to USD 4.21 Billion by 2031, reflecting a CAGR of 7.29%. Cable glands serve as mechanical entry devices that attach and secure electrical cable ends to equipment, offering essential environmental sealing and strain relief to preserve the integrity of enclosures. The market is chiefly underpinned by the rapid development of global energy infrastructure and the rising implementation of industrial automation, both of which require robust connection solutions to ensure operational safety. Data from the Indian Electrical and Electronics Manufacturers' Association (IEEMA) highlights this trend, revealing that Low Voltage power cable production surged by 30.0% in the fiscal year ending March 2024, directly indicating an escalating need for critical cable termination accessories.

Despite this strong demand trajectory, the market faces a substantial hurdle regarding the volatility of raw material prices, specifically for stainless steel and brass. These price fluctuations induce instability within manufacturing cost structures, making long-term contract negotiations difficult and potentially squeezing profit margins for suppliers

operating in competitive international arenas. Consequently, while the appetite for critical termination components grows, manufacturers must navigate the financial unpredictability of input materials to sustain growth.

Market Driver

The extensive deployment of renewable energy installations, particularly solar farms, acts as a major catalyst for market expansion, requiring durable cable glands engineered to endure severe environmental conditions. Wind turbines and solar farms demand specialized sealing solutions to shield electrical connections from moisture, UV radiation, and extreme temperatures, thereby securing the lifespan of vital power generation assets. According to the International Energy Agency's (IEA) 'Renewables 2023' report released in January 2024, global renewable capacity additions surged by 50% to reach nearly 510 gigawatts (GW) in 2023, marking the fastest growth rate in two decades. This dramatic increase in capacity leads directly to a higher volume of cable termination points, fueling the procurement of industrial-grade glands.

Concurrently, the rapid uptake of Industry 4.0 principles and industrial automation is transforming the demand for sophisticated connectivity components. Modern manufacturing plants depend heavily on robotics, sensors, and control systems that necessitate electromagnetic compatibility (EMC) cable glands to ensure signal integrity and prevent interference. The 'World Robotics 2024' report by the International Federation of Robotics (IFR) in September 2024 noted that the global operational stock of industrial robots hit a record high of approximately 4.3 million units in 2023. This density of automation drives the need for dependable cable entry systems to maintain continuous operations, while the IEA forecasts a 4% rise in global electricity demand in 2024, indicating a broad need for infrastructure expansion that supports the cable accessories ecosystem.

Market Challenge

The instability of raw material prices, especially for stainless steel and brass, represents a critical disruption that hinders the sustainable growth of the Global Cable Glands Market. This volatility fosters a precarious manufacturing landscape where compromised cost predictability directly impairs suppliers' ability to secure long-term contracts. When input costs oscillate aggressively, manufacturers are compelled to frequently adjust product prices or absorb the financial variance, actions that compress profit margins and limit capital for production capacity reinvestment. This pricing uncertainty subsequently causes hesitation among end-users in the automation and energy sectors, resulting in stalled market momentum and delayed project procurement.

The severity of this issue was highlighted by the Bureau of International Recycling (BIR) in 2024, which reported extreme volatility in input costs; specifically, LME copper prices climbed from roughly USD 8,200 per tonne in January to a peak near USD 11,000 per tonne in May, before settling around USD 8,700 by the end of the year. Since copper is the primary constituent of brass cable glands, such drastic valuation shifts within a single fiscal year make it exceptionally arduous for manufacturers to uphold competitive pricing strategies, thereby directly stalling expansion initiatives in cost-sensitive international markets.

Market Trends

The shift toward Low Smoke Zero Halogen (LSZH) materials is establishing itself as a mandatory standard for cable management within public infrastructure, specifically in the mass transit and railway sectors. Authorities are actively replacing traditional PVC-based components in enclosed environments like underground stations and tunnels to reduce toxic gas emissions during fires, forcing manufacturers to develop halogen-free sealing compounds. This regulatory transition is bolstered by significant modernization funding; for instance, the European Commission reported in July 2024, under the 'Connecting Europe Facility' results, that the EU allocated more than ?7 billion to transport infrastructure, with 80% of these funds directed at rail network improvements that require high-safety specification components.

In parallel, advancements in explosion-proof technologies for hazardous zones are gaining traction as conventional energy sectors renew exploration in chemically aggressive environments. Distinct from the renewable energy sector, the oil and gas industry demands specialized 'Ex-rated' glands designed to contain internal explosions and withstand extreme pressures at volatile extraction sites, spurring innovation in reinforced housings and compound barrier seals. This revival in fossil fuel infrastructure is reflected in capital expenditure trends; the IEA's 'World Energy Investment 2024' report from June 2024 projects that global upstream oil and gas investment will rise by 7% to USD 570 billion, generating a significant parallel market for hazardous area cable termination products.

Key Market Players

ABB Ltd

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Amphenol Corporation

CMP Products Limited

Cortem SPA

Eaton Corporation PLC

Elsewedy Electric Co S.A.E

Emerson Electric Co.

Hummel AG

R. Stahl Aktiengesellschaft

Sealcon LLC

Report Scope

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

Cable Glands Market, By Type

Non-Hazardous

Hazardous

Cable Glands Market, By Cable Type

Armored

Unarmored

Cable Glands Market, By Material Used

Brass

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Aluminum

Plastic

Stainless Steel

Other

Cable Glands Market, By End User Industry

Aerospace

Construction

Manufacturing & Processing

Oil & Gas

Power & Utilities

Other

Cable Glands Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

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- Italy
- Germany
- Spain

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea

South America

- Brazil
- Argentina
- Colombia

Middle East & Africa

- South Africa
- Saudi Arabia
- UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Cable Glands Market.

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Available Customizations:

Global Cable Glands 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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