

Industrial Brake Market Assessment, By Type [Mechanical, Hydraulic, Pneumatic, Electrical, Others], By Application [Holding Brakes, Dynamic and Emergency Brakes, Tension Brakes], By End-use Industry [Manufacturing, Mining, Construction, Marine and Shipping, Others], By Region, Opportunities and Forecast, 2018-2032F

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Report description:

Global industrial brake market is projected to witness a CAGR of 4.27% during the forecast period 2025-2032, growing from USD 1.52 billion in 2024 to USD 2.12 billion in 2032. The growth of the industrial brakes market is driven by several key factors, such as increasing automation in manufacturing, technological advancements, strict regulatory compliance and safety standards, and growing Industrialization and urbanization. The requirement for effective brake systems is increasing with growing automation in manufacturing, hence increasing the aspects of safety and efficiency in operations. These integrated machineries also demand reliable braking solutions for appropriate operational processes with precise control over machinery. Also, the upgrades in technology from time to time, including the integration of the Internet of Things (IoT) and artificial intelligence (AI), allow for the most efficient and cost-effective braking systems which enhance performance and reduce costs associated with operations. Rapid industrialization and urbanization, especially among emerging economies, are further bolstering this need as increased activities in construction would require a more significant amount of machinery with efficient braking systems. Additionally, stringent safety regulations globally are forcing manufacturing companies to employ high-performance braking solutions to obtain safety compliance, especially where the industries have high risks involving vehicles such as construction, mining, and automotive vehicles.

In September 2024, Eaton Corporation plc announced it would showcase a broad range of innovative solutions for hydrogen-powered commercial vehicles at IAA Transportation 2024 in Germany. Hydrogen Internal Combustion Engines need more engine braking due to their low compression ratio. Eaton's 1.5-stroke engine brake delivers 40% more braking power at low speed compared to conventional engine brakes. Altogether, these trends present a robust outlook for the industrial brakes market as the industrial world progresses towards greater automation and more comprehensive safety measures.

Rising Automation is Expanding the Global Industrial Brake Market Demand

The increasing automation in manufacturing is expanding the global industrial brake market demand. Several factors, including increased demand for high-performance machinery, stricter safety regulations, and the focus on energy efficiency in manufacturing processes are driving the growth. As industries increasingly adopt automated processes, the need for effective brake systems becomes paramount to ensure operational efficiency and safety. Automation refers to the use of modern technologies, like robotics and control systems, for the execution of tasks with minimum human interference that can result in high precision, productivity, and cost-effectiveness. The tendency is especially prevalent in areas such as automotive, electronics, and metallurgy, where the industrial robot is integrated into the processes. As industries prioritize automation to meet high production demands and improve operational standards, the industrial brakes market is poised for robust growth in the coming years.

For instance, in September 2024, RINGSPANN GmbH completely revamped the electro-hydraulic disc brakes in its DX series. These brakes are specifically designed for hoisting and travel drives in conveyor belts, cranes, and bucket wheel systems, and they can handle a high number of switching cycles on high-speed brake discs.

Technological Advancements Propelling the Global Industrial Brake Market Growth

Advances in technology have become a critical growth enhancer for the global industrial brake market. Technology innovation is often enhanced by increased efficiency, security, and effectiveness. Introduction of Computer numerical control (CNC) technology, which automates the bending process in press brakes, allowing for precise programming of bending sequences. is one of the significant innovations. This automation reduces human error, increases productivity, and allows for a quick changeover of complex operations that can improve manufacturing processes. Also, electric press brakes are considered an improved substitute for hydraulic systems, increasing energy efficiency and control over operation. In contrast to hydraulic, electric systems require less power and have low maintenance requirements. With smart systems equipped with sensors and advanced algorithms, real-time monitoring and adjustments can be made in operation. Furthermore, AI is revolutionizing brake technology by optimizing production processes, predicting possible issues, and enabling predictive maintenance. Together, these technological innovations are reshaping the industrial brake market, in which manufacturers can cope with the growing calls for more efficiency and safety in current manufacturing environments.

For instance, in February 2024, RINGSPANN GmbH introduced a cutting-edge braking and emergency stop solution designed specifically for heavy-duty cranes. The new developments are readily available and ideal for the straightforward retrofitting of existing electrohydraulic discs and drum brakes.

Dominance of Manufacturing and Mining in Global Industrial Brake Market

The dominance of manufacturing and mining in the industrial brake market at the global level is a significant trend shaping its growth, driven by increasing automation, stringent standards of safety, and rapid adoption of new brake technologies. The manufacturing industry depends on industrial brakes significantly for operational safety and precision on automated production lines. In addition, growing industrial breaks due to IoT capabilities and energy efficiencies are boosting the dominance of this industry. Similarly, mining also leads to the overall market of the industrial brake sector. Demand for iron ore, copper, and gold will increase. Braking systems in heavy machinery involved in the extraction process need to be highly efficient. Depending on safe and efficient braking solutions, the mining industry guarantees the safety and efficiency of its operations, hence securing its position in the market. Overall, manufacturing and mining are important for the development of the global industrial brake market, as these sectors need the latest brake technologies to produce products in larger volumes while still observing safety standards.

For instance, in October 2024, DELLNER BUBENZER Germany GmbH, a manufacturer specializing in high-performance disc and drum brakes, as well as cylinders and accumulators for various industries including mining, is highlighting the significance of safety-critical braking solutions at a copper mine in Mongolia.

Asia-Pacific Dominates Global Industrial Brake Market Share

Asia-Pacific leads the global industrial brake market and holds a significant market share. This supremacy is mainly due to fast-paced industrialization and urbanization in some of the most significant countries: China, India, and Japan. The development of infrastructure, coupled with increased manufacturing sectors in the region, greatly increases demand for advanced braking solutions. This growth is supported by the increasing adoption of automation in manufacturing processes, which is enhancing

operational safety and efficiency. Moreover, advancements in technology lead to better braking performance and more durability, hence suitable for more applications across industries. Finally, government incentives for energy-efficient technologies contribute to the strength of the region's market. The integration of IoT-enabled braking systems and the rising demand for precision braking solutions in automated manufacturing plants underscore the importance of innovation in this sector. As Asia-Pacific continues to invest heavily in construction, mining, and material handling industries, it solidifies its position as a key hub for industrial brake demand and production.

For instance, in October 2024, Akebono Brake Industry Co., Ltd., Tokyo based braking company announced that it will be relocating its Global Head Office as part of the undergrounding project for the Tokyo Metropolitan Expressway's Nihonbashi section. This move is aligned with an urban development initiative in Tokyo's Nihonbashi district.

Future Market Scenario (2025 [] 2032F)

Increasing industrial activities and the expansion of manufacturing sectors worldwide play a crucial role in the development of the industrial brake market.

Advancements in brake technology, including the development of smart and automated brake systems, are likely to enhance performance, safety, and efficiency.

□Growing emphasis on sustainability, the demand for eco-friendly braking solutions will compel manufacturers to invest in developing materials and technologies that reduce environmental impact.

Key Players Landscape and Outlook

The global industrial brake market is characterized by a competitive landscape, highly influenced by several key players who actively play an important role in shaping growth and development. Positive prospects exist for the industrial brake market due to burgeoning technological innovations that introduce advanced opportunities to enhance braking system performance and efficiency. Besides this, the Asia-Pacific will continue dominating the market, driven by rapid industrialization, increased manufacturing investments, and a growing prevalence of automation and robotics. With innovations like IoT integration and AI, next-generation braking solutions will be designed to meet the ever-changing needs of various industries, such as manufacturing, construction, and mining. Major firms are using strategies like product launches, acquisitions, and technical collaborations to further enhance their market positions and service offerings.

For instance, in April 2023, Regal Rexnord Corporation announced the successful completion of its USD 5 billion acquisition of Altra Industrial Motion Corp. This deal aims to enhance the combined capabilities of the new business, particularly in the areas of power transmission and automation, by incorporating complementary products such as brakes, gears, and clutches into its industrial powertrain offerings.

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