

Global Railway Hydraulic Dampers Market Size Study & Forecast, by Type (Primary Dampers and Secondary Dampers), By Train Type (Passenger Trains and Freight Trains), By Sales Channel (OEM and Aftermarket), and Regional Analysis, 2023-2030

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Abstracts

Global Railway Hydraulic Dampers Market is valued at approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2023-2030. Railway hydraulic dampers are essential devices used in trains to absorb and dissipate energy from vibrations, shocks, and dynamic forces encountered during rail operations. They consist of a piston-cylinder filled with hydraulic fluid, converting kinetic energy into heat and reducing stress on the railcar's suspension system. These dampers improve ride comfort, protect cargo, extend component lifespan, and enhance safety by minimizing the impact of external forces on the train structure. Regular maintenance ensures their optimal performance in ensuring a smoother, safer, and more efficient railway experience. The soaring demand for specialized locomotives and robust freight wagons, particularly for cross-border transportation, is driving growth in the railway market. Increasing global populations, coupled with urbanization, are prompting commuters to adopt railways over congested roadways, boosting the demand for hydraulic dampers. Moreover, the shift towards electric locomotives due to environmental concerns is further stimulating the hydraulic damper market. Government initiatives to enhance transportation efficiency and collaborate with damper manufacturers are also significant factors propelling market expansion.

In addition, the surge in demand for freight trains is acting as a catalyzing factor for the growth of the Railway Hydraulic Dampers Market. These dampers play a vital role in handling heavy loads, reducing wear and tear, ensuring safety and stability, and



improving operational efficiency. As the freight transportation sector expands due to global trade and logistics needs, there is an increased need for reliable hydraulic dampers to support smooth and secure freight rail operations. As per Eurostat, in 2022, the European Union's rail freight transport among major undertakings, defined as those handling a total volume of goods transported exceeding 200 million tonne-kilometres or at least 500,000 tonnes, reached 398 billion tonne-kilometres (tkm). This figure nearly matched the 2018 level of 400 billion tkm, which stood as the highest since 2012. Also, the Indian Government has announced that the Indian Railways has surpassed the milestone of 500 million tonnes (MT) of freight loading within the first four months of this financial year. In July 2023 alone, the railways generated revenue of Rs 13,578 crores (USD 1.63 billion) from freight loading, marking a 3% increase compared to the same period last year. Moreover, the railways achieved a freight loading of 123.98 MT in July 2023, demonstrating a 2% improvement over the 122.15 MT freight loading during the corresponding period last year. As a result, the development of rail freight transportation is leading to a higher demand for railway hydraulic dampers at a substantial rate. Thus, these aforementioned factors are propelling the growth of Railway Hydraulic Dampers Market during the estimated period. Moreover, the rising technological advancements in railways, as well as growing investment in railway infrastructure development present various lucrative opportunities over the forecast years. However, the technological complexity and the regulatory compliance are challenging the market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Railway Hydraulic Dampers Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific dominated the market in 2022 owing to the rising migration of populations to middle-income brackets, rapid urbanization, increased office commutes, the presence of major railway networks like those in China and Japan, and widespread access to mobile technology in the region. The hydraulic railway damper market is further contributed by factors such as rising cross-border freight train connections, making freight transport more efficient and cost-effective. Additionally, the Asia Pacific region, particularly countries like Japan, China, and India, is witnessing substantial investments in expanding rail infrastructure, including ultra-high-speed rail, high-speed rail, and subways, aimed at enhancing commuter convenience. This investment trend has facilitated the market penetration of hydraulic railway dampers in the region. sWhereas Europe is expected to grow at the substantial CAGR over the forecast years. The presence of well-established rail network, increasing demand for passenger transport solutions, growing investments in high-speed rail and advanced technologies in hydraulic dampers in the railway sector are significantly propelling the market demand across the region.



| Major market players included in this report are: | | |
|---|--|--|
| ITT Inc. | | |
| ZF Friedrichshafen AG | | |
| Vibratech TVD | | |
| Siemens AG | | |
| Escorts Limited | | |
| Oleo International | | |
| Mageba USA LLC | | |
| ACE Controls Inc | | |
| Wuxi BDC | | |
| Dellner Components | | |
| Recent Developments in the Market: | | |
| In November 2020, UK-based manufacturer Sulzer Group introduced its new range of hydraulic dampers specifically designed for railroad operations. | | |
| Global Railway Hydraulic Dampers Market Report Scope: | | |
| Historical Data – 2020 - 2021 | | |
| Base Year for Estimation – 2022 | | |
| Forecast period - 2023-2030 | | |
| Report Coverage - Revenue forecast, Company Ranking, Competitive | | |

Landscape, Growth factors, and Trends



Segments Covered - Type, Train Type, Sales Channel, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

| . , | • | • |
|-------------------|---|---|
| Ву Туре: | | |
| Primary Dampers | | |
| Secondary Dampers | | |
| By Train Type: | | |
| Passenger Trains | | |
| Freight Trains | | |
| By Sales Channel: | | |
| OEM | | |

Aftermarket



Latin America

| By Region: |
|---------------|
| North America |
| U.S. |
| Canada |
| Europe |
| UK |
| Germany |
| France |
| Spain |
| Italy |
| ROE |
| Asia Pacific |
| China |
| India |
| Japan |
| Australia |
| South Korea |
| RoAPAC |



Brazil

| Mexico | |
|------------------------------|--|
| WEXICO | |
| Middle East & Africa | |
| Saudi Arabia | |
| South Africa | |
| Rest of Middle East & Africa | |



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