

Global Traction Transformer Market Size study & Forecast, by Voltage Network (Alternative Current (AC) systems, Direct Current (DC) systems) By Mounting Position (Over the Roof, Machine Room, Under the Floor) By Rolling Stock (Electric locomotives, Metros, High-speed trains, Others) and Regional Analysis, 2023-2030

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Abstracts

Global Traction Transformer Market is valued approximately USD 719.26 million in 2022 and is anticipated to grow with a healthy growth rate of more than 4.90% over the forecast period 2023-2030. A traction transformer is an electrical device used in electric rail systems, such as electric locomotives, trams, and electric multiple units, to convert the high-voltage power from the overhead catenary into the lower voltage required by the traction motors. It is a critical component in the power supply system of electric trains, enabling the efficient and reliable transfer of electrical energy. The Traction Transformer market is expanding because of factors such as growing rail network and increasing number of locomotives. The primary function of a traction transformer is to step down the high-voltage AC power from the grid or power distribution system to a lower voltage suitable for the traction motors. Its importance has progressively increased during the forecast period 2023-2030.

According to Statista, in 2021 the United States rail system stretched across almost 149,000 km, making it the largest network in the world, followed by the Chinese rail network, which encompasses approx. 110,000 rail kilometers. These Railroads include railway routes that are open for public passenger and freight services and exclude dedicated private resource railways and parallel tracks. Furthermore, in 2022, the length of railway routes across India was over 68 thousand kilometers. The railway network in

India was one of the largest in the world. Indian Railways has over 12 thousand passenger trains and over 7 thousand freight trains commuting daily. Another important factor that drives the Traction Transformer market is the increasing number of locomotives. Traction transformer locomotives are a type of locomotive that uses electricity as its primary power source. Traction transformer locomotives offer several advantages over traditional diesel locomotives. They are more energy-efficient since they are enabled with regenerative braking system, which helps to reduce energy consumption and decrease overall operational costs. In addition, as per Statista, the global locomotive rolling stock market is projected to reach up to USD 8 billion by 2027, with a compound annual growth rate of about 3%. Moreover, surge in demand for metro railways and rising government initiatives for advanced railway infrastructure is anticipated to create a lucrative growth opportunity for the market over the forecast period. However, complexity in design standards stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Traction Transformer Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Europe dominated the market in 2022 owing to the rising government investments and favorable regulations aimed at establishing advanced railway infrastructure. Furthermore, Asia Pacific is expected to grow significantly during the forecast period, owing to factors such as expanding railway network infrastructure and active participation of public and private governing organizations.

Major market player included in this report are:

Hitachi ABB Power Grids Ltd

Siemens AG

Toshiba Corporation

Mitsubishi Electric Corporation

SPX Transformer Solutions Inc

MGM Transformer Company

Neeltran Inc

Altrafo Srl

Alstom SA

JST Transformers Group

Recent Developments in the Market:

In June 2022, The Singapore Land Transport Authority has awarded a contract to a consortium led by Siemens Mobility, which includes Concord Corporation Pte Ltd., for the design, supply, testing, and commissioning of the power supply system for the upcoming Jurong Region Line. The system will be designed to be upgradeable, using industry-standard interfaces for connecting power supply and signalling.

Global Traction Transformer 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 - Voltage Network, Mounting Position, Rolling Stock, 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:

By Voltage Network

Alternative Current (AC) systems

Direct Current (DC) systems

By Mounting Position

Over the Roof

Machine Room

Under the Floor

By Rolling Stock

Electric locomotives

Metros

High-speed trains

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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