

Traction Transformers Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global traction transformers market size reached US\$ 711.1 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 976.0 Million by 2028, exhibiting a growth rate (CAGR) of 5.5% during 2023-2028.

A traction transformer is an electronic device that transfers energy from one circuit to another through electromagnetic induction. It is a crucial component of the electric traction mechanism, which consists of direct current (DC) and alternating current (AC) systems. It is commonly used in high-speed and passenger trains, locomotives, trams and metro rails. The device is mounted inside the machine room of the locomotive, on top or under the roof to obtain maximum reliability and flexibility of multiphase and single systems. In comparison to traditionally used variants, traction transformers significantly aid in reducing operating costs, are lightweight and can provide higher power output.

The growth of the high-speed rail sector and significant advancements in railway infrastructure are among the key factors driving the growth of the market. Furthermore, the rapid electrification of rail networks is expected to increase the demand for traction transformers across the globe. The governments of emerging nations are implementing favorable policies to improve the existing transportation facilities and optimize rail systems. Widespread adoption of traction transformers in both traditional and next-generation locomotives to support faster-commuting networks, the rapidly increasing number of passengers and diversifying travel routes are further driving the product demand. In addition to this, growing awareness regarding the utilization of energy-

efficient products for reducing the environmental damage caused by outdated technologies is resulting in the increasing adoption of AC transformers worldwide. Also, since these transformers are not dependent on conventional sources of energy, such as crude oil and coal, they offer an eco-friendly and convenient solution. Other factors, including innovations to develop equipment with minimal noise, carbon emissions, power losses and operating costs, are projected to create a positive outlook for the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global traction transformers market report, along with forecasts at the global, regional and country levels from 2023-2028. Our report has categorized the market based on type, rolling stock, mounting position and overhead line voltage.

Breakup by Type:

Tap Changing

Tapped

Rectifier

Breakup by Rolling Stock:

Electric Locomotives

High-Speed Trains

Metros

Others

Breakup by Mounting Position:

Underframe

Machine Room

Roof

Breakup by Overhead Line Voltage:

Alternative Current (AC) Systems

Direct Current (DC) Systems

Breakup by Region:

North America

United States

Canada

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined with some of the key players being ABB Limited, Alstom Holdings, EMCO Limited, Hind Rectifiers Limited, International Electric Corporation Limited, JST Transformateurs, Schneider Electric SA, Setrans Holding AS, Siemens Aktiengesellschaft, and Wilson Transformer Company, etc.

Key Questions Answered in This Report:

How has the global traction transformers market performed so far and how will it perform in the coming years?

What are the key regional markets?

What has been the impact of COVID-19 on the global traction transformers market?

What is the breakup of the market based on the type?

- What is the breakup of the market based on the rolling stock?
- What is the breakup of the market based on the mounting position?
- What is the breakup of the market based on the overhead line voltage?
- What are the various stages in the value chain of the industry?
- What are the key driving factors and challenges in the market?
- What is the structure of the global traction transformers market and who are the key players?
- What is the degree of competition in the market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

2.1 Objectives of the Study

2.2 Stakeholders

2.3 Data Sources

2.3.1 Primary Sources

2.3.2 Secondary Sources

2.4 Market Estimation

2.4.1 Bottom-Up Approach

2.4.2 Top-Down Approach

2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

4.1 Overview

4.2 Key Industry Trends

5 GLOBAL TRACTION TRANSFORMERS MARKET

5.1 Market Overview

5.2 Market Performance

5.3 Impact Of COVID-19

5.4 Market Forecast

6 MARKET BREAKUP BY TYPE

6.1 Tap Changing

6.1.1 Market Trends

6.1.2 Market Forecast

6.2 Tapped

6.2.1 Market Trends

6.2.2 Market Forecast

6.3 Rectifier

- 6.3.1 Market Trends
- 6.3.2 Market Forecast

7 MARKET BREAKUP BY ROLLING STOCK

- 7.1 Electric Locomotives
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 High-Speed Trains
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Metros
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 Others
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast

8 MARKET BREAKUP BY MOUNTING POSITION

- 8.1 Underframe
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Machine Room
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 8.3 Roof
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast

9 MARKET BREAKUP BY OVERHEAD LINE VOLTAGE

- 9.1 Alternative Current (AC) Systems
 - 9.1.1 Market Trends
 - 9.1.2 Market Forecast
- 9.2 Direct Current (DC) Systems
 - 9.2.1 Market Trends
 - 9.2.2 Market Forecast

10 MARKET BREAKUP BY REGION

10.1 North America

10.1.1 United States

10.1.1.1 Market Trends

10.1.1.2 Market Forecast

10.1.2 Canada

10.1.2.1 Market Trends

10.1.2.2 Market Forecast

10.2 Europe

10.2.1 Germany

10.2.1.1 Market Trends

10.2.1.2 Market Forecast

10.2.2 France

10.2.2.1 Market Trends

10.2.2.2 Market Forecast

10.2.3 United Kingdom

10.2.3.1 Market Trends

10.2.3.2 Market Forecast

10.2.4 Italy

10.2.4.1 Market Trends

10.2.4.2 Market Forecast

10.2.5 Spain

10.2.5.1 Market Trends

10.2.5.2 Market Forecast

10.2.6 Russia

10.2.6.1 Market Trends

10.2.6.2 Market Forecast

10.2.7 Others

10.2.7.1 Market Trends

10.2.7.2 Market Forecast

10.3 Asia Pacific

10.3.1 China

10.3.1.1 Market Trends

10.3.1.2 Market Forecast

10.3.2 Japan

10.3.2.1 Market Trends

10.3.2.2 Market Forecast

10.3.3 India

- 10.3.3.1 Market Trends
- 10.3.3.2 Market Forecast
- 10.3.4 South Korea
 - 10.3.4.1 Market Trends
 - 10.3.4.2 Market Forecast
- 10.3.5 Australia
 - 10.3.5.1 Market Trends
 - 10.3.5.2 Market Forecast
- 10.3.6 Indonesia
 - 10.3.6.1 Market Trends
 - 10.3.6.2 Market Forecast
- 10.3.7 Others
 - 10.3.7.1 Market Trends
 - 10.3.7.2 Market Forecast
- 10.4 Latin America
 - 10.4.1 Brazil
 - 10.4.1.1 Market Trends
 - 10.4.1.2 Market Forecast
 - 10.4.2 Mexico
 - 10.4.2.1 Market Trends
 - 10.4.2.2 Market Forecast
 - 10.4.3 Others
 - 10.4.3.1 Market Trends
 - 10.4.3.2 Market Forecast
- 10.5 Middle East and Africa
 - 10.5.1 Market Trends
 - 10.5.2 Market Breakup by Country
 - 10.5.3 Market Forecast

11 SWOT ANALYSIS

- 11.1 Overview
- 11.2 Strengths
- 11.3 Weaknesses
- 11.4 Opportunities
- 11.5 Threats

12 VALUE CHAIN ANALYSIS

13 PORTERS FIVE FORCES ANALYSIS

- 13.1 Overview
- 13.2 Bargaining Power of Buyers
- 13.3 Bargaining Power of Suppliers
- 13.4 Degree of Competition
- 13.5 Threat of New Entrants
- 13.6 Threat of Substitutes

14 PRICE ANALYSIS

15 COMPETITIVE LANDSCAPE

- 15.1 Market Structure
- 15.2 Key Players
- 15.3 Profiles of Key Players
 - 15.3.1 ABB Limited
 - 15.3.1.1 Company Overview
 - 15.3.1.2 Product Portfolio
 - 15.3.1.3 Financials
 - 15.3.1.4 SWOT Analysis
 - 15.3.2 Alstom Holdings
 - 15.3.2.1 Company Overview
 - 15.3.2.2 Product Portfolio
 - 15.3.2.3 Financials
 - 15.3.2.4 SWOT Analysis
 - 15.3.3 EMCO Limited
 - 15.3.3.1 Company Overview
 - 15.3.3.2 Product Portfolio
 - 15.3.3.3 Financials
 - 15.3.3.4 SWOT Analysis
 - 15.3.4 Hind Rectifiers Limited
 - 15.3.4.1 Company Overview
 - 15.3.4.2 Product Portfolio
 - 15.3.4.3 Financials
 - 15.3.4.4 SWOT Analysis
 - 15.3.5 International Electric Corporation Limited
 - 15.3.5.1 Company Overview
 - 15.3.5.2 Product Portfolio

- 15.3.5.3 Financials
- 15.3.5.4 SWOT Analysis
- 15.3.6JST Transformateurs
 - 15.3.6.1 Company Overview
 - 15.3.6.2 Product Portfolio
 - 15.3.6.3 Financials
 - 15.3.6.4 SWOT Analysis
- 15.3.7Schneider Electric SA
 - 15.3.7.1 Company Overview
 - 15.3.7.2 Product Portfolio
 - 15.3.7.3 Financials
 - 15.3.7.4 SWOT Analysis
- 15.3.8Setrans Holding AS
 - 15.3.8.1 Company Overview
 - 15.3.8.2 Product Portfolio
 - 15.3.8.3 Financials
 - 15.3.8.4 SWOT Analysis
- 15.3.9Siemens Aktiengesellschaft
 - 15.3.9.1 Company Overview
 - 15.3.9.2 Product Portfolio
 - 15.3.9.3 Financials
 - 15.3.9.4 SWOT Analysis
- 15.3.10Wilson Transformer Company
 - 15.3.10.1 Company Overview
 - 15.3.10.2 Product Portfolio
 - 15.3.10.3 Financials
 - 15.3.10.4 SWOT Analysis

List Of Tables

LIST OF TABLES

Table 1: Global: Traction Transformers Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Traction Transformers Market Forecast: Breakup by Type (in Million US\$), 2023-2028

Table 3: Global: Traction Transformers Market Forecast: Breakup by Rolling Stock (in Million US\$), 2023-2028

Table 4: Global: Traction Transformers Market Forecast: Breakup by Mounting Position (in Million US\$), 2023-2028

Table 5: Global: Traction Transformers Market Forecast: Breakup by Overhead Line Voltage (in Million US\$), 2023-2028

Table 6: Global: Traction Transformers Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 7: Global: Traction Transformers Market: Competitive Structure

Table 8: Global: Traction Transformers Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Traction Transformers Market: Major Drivers and Challenges

Figure 2: Global: Traction Transformers Market: Sales Value (in Million US\$), 2017-2022

Figure 3: Global: Traction Transformers Market: Breakup by Type (in %), 2022

Figure 4: Global: Traction Transformers Market: Breakup by Rolling Stock (in %), 2022

Figure 5: Global: Traction Transformers Market: Breakup by Mounting Position (in %), 2022

Figure 6: Global: Traction Transformers Market: Breakup by Overhead Line Voltage (in %), 2022

Figure 7: Global: Traction Transformers Market: Breakup by Region (in %), 2022

Figure 8: Global: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 9: Global: Traction Transformers (Tap Changing) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 10: Global: Traction Transformers (Tap Changing) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 11: Global: Traction Transformers (Tapped) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 12: Global: Traction Transformers (Tapped) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 13: Global: Traction Transformers (Rectifier) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 14: Global: Traction Transformers (Rectifier) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 15: Global: Traction Transformers (Electric Locomotives) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 16: Global: Traction Transformers (Electric Locomotives) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 17: Global: Traction Transformers (High-Speed Trains) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 18: Global: Traction Transformers (High-Speed Trains) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 19: Global: Traction Transformers (Metros) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 20: Global: Traction Transformers (Metros) Market Forecast: Sales Value (in

Million US\$), 2023-2028

Figure 21: Global: Traction Transformers (Other Rolling Stocks) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 22: Global: Traction Transformers (Other Rolling Stocks) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 23: Global: Traction Transformers (Underframe) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 24: Global: Traction Transformers (Underframe) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 25: Global: Traction Transformers (Machine Room) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: Global: Traction Transformers (Machine Room) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: Global: Traction Transformers (Roof) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 28: Global: Traction Transformers (Roof) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 29: Global: Traction Transformers (Alternative Current Systems) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: Global: Traction Transformers (Alternative Current Systems) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: Global: Traction Transformers (Direct Current Systems) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 32: Global: Traction Transformers (Direct Current Systems) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: North America: Traction Transformers Market: Sales Value (in Million US\$), 2017 & 2022

Figure 34: North America: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 35: United States: Traction Transformers Market: Sales Value (in Million US\$), 2017 & 2022

Figure 36: United States: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 37: Canada: Traction Transformers Market: Sales Value (in Million US\$), 2017 & 2022

Figure 38: Canada: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 39: Europe: Traction Transformers Market: Sales Value (in Million US\$), 2017 & 2022

Figure 40: Europe: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 41: Germany: Traction Transformers Market: Sales Value (in Million US\$), 2017 & 2022

Figure 42: Germany: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 43: France: Traction Transformers Market: Sales Value (in Million US\$), 2017 & 2022

Figure 44: France: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 45: United Kingdom: Traction Transformers Market: Sales Value (in Million US\$), 2017 & 2022

Figure 46: United Kingdom: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 47: Italy: Traction Transformers Market: Sales Value (in Million US\$), 2017 & 2022

Figure 48: Italy: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 49: Spain: Traction Transformers Market: Sales Value (in Million US\$), 2017 & 2022

Figure 50: Spain: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 51: Russia: Traction Transformers Market: Sales Value (in Million US\$), 2017 & 2022

Figure 52: Russia: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 53: Others: Traction Transformers Market: Sales Value (in Million US\$), 2017 & 2022

Figure 54: Others: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 55: Asia Pacific: Traction Transformers Market: Sales Value (in Million US\$), 2017 & 2022

Figure 56: Asia Pacific: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 57: China: Traction Transformers Market: Sales Value (in Million US\$), 2017 & 2022

Figure 58: China: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 59: Japan: Traction Transformers Market: Sales Value (in Million US\$), 2017 &

2022

Figure 60: Japan: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 61: India: Traction Transformers Market: Sales Value (in Million US\$), 2017 & 2022

Figure 62: India: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 63: South Korea: Traction Transformers Market: Sales Value (in Million US\$), 2017 & 2022

Figure 64: South Korea: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 65: Australia: Traction Transformers Market: Sales Value (in Million US\$), 2017 & 2022

Figure 66: Australia: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 67: Indonesia: Traction Transformers Market: Sales Value (in Million US\$), 2017 & 2022

Figure 68: Indonesia: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 69: Others: Traction Transformers Market: Sales Value (in Million US\$), 2017 & 2022

Figure 70: Others: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 71: Latin America: Traction Transformers Market: Sales Value (in Million US\$), 2017 & 2022

Figure 72: Latin America: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 73: Brazil: Traction Transformers Market: Sales Value (in Million US\$), 2017 & 2022

Figure 74: Brazil: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 75: Mexico: Traction Transformers Market: Sales Value (in Million US\$), 2017 & 2022

Figure 76: Mexico: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 77: Others: Traction Transformers Market: Sales Value (in Million US\$), 2017 & 2022

Figure 78: Others: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 79: Middle East and Africa: Traction Transformers Market: Sales Value (in Million US\$), 2017 & 2022

Figure 80: Middle East and Africa: Traction Transformers Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 81: Global: Traction Transformers Industry: SWOT Analysis

Figure 82: Global: Traction Transformers Industry: Value Chain Analysis

Figure 83: Global: Traction Transformers Industry: Porter's Five Forces Analysis

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