

# Global Traction Auxiliary Converter Market Growth 2023-2029

https://marketpublishers.com/r/GA933DE00338EN.html

Date: March 2023

Pages: 102

Price: US\$ 3,660.00 (Single User License)

ID: GA933DE00338EN

# **Abstracts**

The report requires updating with new data and is sent in 48 hours after order is placed.

LPI (LP Information)' newest research report, the "Traction Auxiliary Converter Industry Forecast" looks at past sales and reviews total world Traction Auxiliary Converter sales in 2022, providing a comprehensive analysis by region and market sector of projected Traction Auxiliary Converter sales for 2023 through 2029. With Traction Auxiliary Converter sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Traction Auxiliary Converter industry.

This Insight Report provides a comprehensive analysis of the global Traction Auxiliary Converter landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Traction Auxiliary Converter portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Traction Auxiliary Converter market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Traction Auxiliary Converter and breaks down the forecast by type, by application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Traction Auxiliary Converter.

The global Traction Auxiliary Converter market size is projected to grow from US\$



million in 2022 to US\$ million in 2029; it is expected to grow at a CAGR of % from 2023 to 2029.

United States market for Traction Auxiliary Converter is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

China market for Traction Auxiliary Converter is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Europe market for Traction Auxiliary Converter is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Global key Traction Auxiliary Converter players cover ABB, CRRC, Siemens, Hitachi, CAF Group, Alstom, KON?AR Group, Ingeteam and Toshiba, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2022.

This report presents a comprehensive overview, market shares, and growth opportunities of Traction Auxiliary Converter market by product type, application, key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by type

Integrated

Detached

Segmentation by application

Diesel Locomotive

Electric Locomotive

This report also splits the market by region:

Others



# **Americas United States** Canada Mexico Brazil **APAC** China Japan Korea Southeast Asia India Australia Europe Germany France UK Italy Russia Middle East & Africa Egypt



South Africa

	Israel
	Turkey
	GCC Countries
The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.	
ABB	
CRF	RC
Sien	nens
Hita	chi
CAF	Group
Alsto	om
KON	I?AR Group
Inge	team
Tosł	niba
Bom	bardier
Voitl	٦
Med	ha

Inovance



# Cgglobal

Key Questions Addressed in this Report

What is the 10-year outlook for the global Traction Auxiliary Converter market?

What factors are driving Traction Auxiliary Converter market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Traction Auxiliary Converter market opportunities vary by end market size?

How does Traction Auxiliary Converter break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?



### **Contents**

#### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

#### **2 EXECUTIVE SUMMARY**

- 2.1 World Market Overview
  - 2.1.1 Global Traction Auxiliary Converter Annual Sales 2018-2029
- 2.1.2 World Current & Future Analysis for Traction Auxiliary Converter by Geographic Region, 2018, 2022 & 2029
- 2.1.3 World Current & Future Analysis for Traction Auxiliary Converter by Country/Region, 2018, 2022 & 2029
- 2.2 Traction Auxiliary Converter Segment by Type
  - 2.2.1 Integrated
  - 2.2.2 Detached
- 2.3 Traction Auxiliary Converter Sales by Type
  - 2.3.1 Global Traction Auxiliary Converter Sales Market Share by Type (2018-2023)
- 2.3.2 Global Traction Auxiliary Converter Revenue and Market Share by Type (2018-2023)
- 2.3.3 Global Traction Auxiliary Converter Sale Price by Type (2018-2023)
- 2.4 Traction Auxiliary Converter Segment by Application
  - 2.4.1 Diesel Locomotive
  - 2.4.2 Electric Locomotive
  - 2.4.3 Others
- 2.5 Traction Auxiliary Converter Sales by Application
- 2.5.1 Global Traction Auxiliary Converter Sale Market Share by Application (2018-2023)
- 2.5.2 Global Traction Auxiliary Converter Revenue and Market Share by Application (2018-2023)
- 2.5.3 Global Traction Auxiliary Converter Sale Price by Application (2018-2023)



#### **3 GLOBAL TRACTION AUXILIARY CONVERTER BY COMPANY**

- 3.1 Global Traction Auxiliary Converter Breakdown Data by Company
  - 3.1.1 Global Traction Auxiliary Converter Annual Sales by Company (2018-2023)
- 3.1.2 Global Traction Auxiliary Converter Sales Market Share by Company (2018-2023)
- 3.2 Global Traction Auxiliary Converter Annual Revenue by Company (2018-2023)
  - 3.2.1 Global Traction Auxiliary Converter Revenue by Company (2018-2023)
- 3.2.2 Global Traction Auxiliary Converter Revenue Market Share by Company (2018-2023)
- 3.3 Global Traction Auxiliary Converter Sale Price by Company
- 3.4 Key Manufacturers Traction Auxiliary Converter Producing Area Distribution, Sales Area, Product Type
  - 3.4.1 Key Manufacturers Traction Auxiliary Converter Product Location Distribution
  - 3.4.2 Players Traction Auxiliary Converter Products Offered
- 3.5 Market Concentration Rate Analysis
  - 3.5.1 Competition Landscape Analysis
  - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2018-2023)
- 3.6 New Products and Potential Entrants
- 3.7 Mergers & Acquisitions, Expansion

# 4 WORLD HISTORIC REVIEW FOR TRACTION AUXILIARY CONVERTER BY GEOGRAPHIC REGION

- 4.1 World Historic Traction Auxiliary Converter Market Size by Geographic Region (2018-2023)
- 4.1.1 Global Traction Auxiliary Converter Annual Sales by Geographic Region (2018-2023)
- 4.1.2 Global Traction Auxiliary Converter Annual Revenue by Geographic Region (2018-2023)
- 4.2 World Historic Traction Auxiliary Converter Market Size by Country/Region (2018-2023)
- 4.2.1 Global Traction Auxiliary Converter Annual Sales by Country/Region (2018-2023)
- 4.2.2 Global Traction Auxiliary Converter Annual Revenue by Country/Region (2018-2023)
- 4.3 Americas Traction Auxiliary Converter Sales Growth
- 4.4 APAC Traction Auxiliary Converter Sales Growth



- 4.5 Europe Traction Auxiliary Converter Sales Growth
- 4.6 Middle East & Africa Traction Auxiliary Converter Sales Growth

#### **5 AMERICAS**

- 5.1 Americas Traction Auxiliary Converter Sales by Country
  - 5.1.1 Americas Traction Auxiliary Converter Sales by Country (2018-2023)
  - 5.1.2 Americas Traction Auxiliary Converter Revenue by Country (2018-2023)
- 5.2 Americas Traction Auxiliary Converter Sales by Type
- 5.3 Americas Traction Auxiliary Converter Sales by Application
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

#### 6 APAC

- 6.1 APAC Traction Auxiliary Converter Sales by Region
  - 6.1.1 APAC Traction Auxiliary Converter Sales by Region (2018-2023)
  - 6.1.2 APAC Traction Auxiliary Converter Revenue by Region (2018-2023)
- 6.2 APAC Traction Auxiliary Converter Sales by Type
- 6.3 APAC Traction Auxiliary Converter Sales by Application
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

#### **7 EUROPE**

- 7.1 Europe Traction Auxiliary Converter by Country
- 7.1.1 Europe Traction Auxiliary Converter Sales by Country (2018-2023)
- 7.1.2 Europe Traction Auxiliary Converter Revenue by Country (2018-2023)
- 7.2 Europe Traction Auxiliary Converter Sales by Type
- 7.3 Europe Traction Auxiliary Converter Sales by Application
- 7.4 Germany
- 7.5 France



- 7.6 UK
- 7.7 Italy
- 7.8 Russia

#### **8 MIDDLE EAST & AFRICA**

- 8.1 Middle East & Africa Traction Auxiliary Converter by Country
  - 8.1.1 Middle East & Africa Traction Auxiliary Converter Sales by Country (2018-2023)
- 8.1.2 Middle East & Africa Traction Auxiliary Converter Revenue by Country (2018-2023)
- 8.2 Middle East & Africa Traction Auxiliary Converter Sales by Type
- 8.3 Middle East & Africa Traction Auxiliary Converter Sales by Application
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

#### 9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

#### 10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Traction Auxiliary Converter
- 10.3 Manufacturing Process Analysis of Traction Auxiliary Converter
- 10.4 Industry Chain Structure of Traction Auxiliary Converter

### 11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
  - 11.1.1 Direct Channels
  - 11.1.2 Indirect Channels
- 11.2 Traction Auxiliary Converter Distributors
- 11.3 Traction Auxiliary Converter Customer



# 12 WORLD FORECAST REVIEW FOR TRACTION AUXILIARY CONVERTER BY GEOGRAPHIC REGION

- 12.1 Global Traction Auxiliary Converter Market Size Forecast by Region
  - 12.1.1 Global Traction Auxiliary Converter Forecast by Region (2024-2029)
- 12.1.2 Global Traction Auxiliary Converter Annual Revenue Forecast by Region (2024-2029)
- 12.2 Americas Forecast by Country
- 12.3 APAC Forecast by Region
- 12.4 Europe Forecast by Country
- 12.5 Middle East & Africa Forecast by Country
- 12.6 Global Traction Auxiliary Converter Forecast by Type
- 12.7 Global Traction Auxiliary Converter Forecast by Application

#### 13 KEY PLAYERS ANALYSIS

- 13.1 ABB
  - 13.1.1 ABB Company Information
  - 13.1.2 ABB Traction Auxiliary Converter Product Portfolios and Specifications
- 13.1.3 ABB Traction Auxiliary Converter Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.1.4 ABB Main Business Overview
  - 13.1.5 ABB Latest Developments
- 13.2 CRRC
  - 13.2.1 CRRC Company Information
  - 13.2.2 CRRC Traction Auxiliary Converter Product Portfolios and Specifications
- 13.2.3 CRRC Traction Auxiliary Converter Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.2.4 CRRC Main Business Overview
  - 13.2.5 CRRC Latest Developments
- 13.3 Siemens
  - 13.3.1 Siemens Company Information
  - 13.3.2 Siemens Traction Auxiliary Converter Product Portfolios and Specifications
- 13.3.3 Siemens Traction Auxiliary Converter Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.3.4 Siemens Main Business Overview
  - 13.3.5 Siemens Latest Developments
- 13.4 Hitachi
- 13.4.1 Hitachi Company Information



- 13.4.2 Hitachi Traction Auxiliary Converter Product Portfolios and Specifications
- 13.4.3 Hitachi Traction Auxiliary Converter Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.4.4 Hitachi Main Business Overview
  - 13.4.5 Hitachi Latest Developments
- 13.5 CAF Group
  - 13.5.1 CAF Group Company Information
  - 13.5.2 CAF Group Traction Auxiliary Converter Product Portfolios and Specifications
- 13.5.3 CAF Group Traction Auxiliary Converter Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.5.4 CAF Group Main Business Overview
  - 13.5.5 CAF Group Latest Developments
- 13.6 Alstom
  - 13.6.1 Alstom Company Information
  - 13.6.2 Alstom Traction Auxiliary Converter Product Portfolios and Specifications
- 13.6.3 Alstom Traction Auxiliary Converter Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.6.4 Alstom Main Business Overview
  - 13.6.5 Alstom Latest Developments
- 13.7 KON?AR Group
  - 13.7.1 KON?AR Group Company Information
- 13.7.2 KON?AR Group Traction Auxiliary Converter Product Portfolios and Specifications
- 13.7.3 KON?AR Group Traction Auxiliary Converter Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.7.4 KON?AR Group Main Business Overview
  - 13.7.5 KON?AR Group Latest Developments
- 13.8 Ingeteam
  - 13.8.1 Ingeteam Company Information
  - 13.8.2 Ingeteam Traction Auxiliary Converter Product Portfolios and Specifications
- 13.8.3 Ingeteam Traction Auxiliary Converter Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.8.4 Ingeteam Main Business Overview
  - 13.8.5 Ingeteam Latest Developments
- 13.9 Toshiba
  - 13.9.1 Toshiba Company Information
  - 13.9.2 Toshiba Traction Auxiliary Converter Product Portfolios and Specifications
- 13.9.3 Toshiba Traction Auxiliary Converter Sales, Revenue, Price and Gross Margin (2018-2023)



- 13.9.4 Toshiba Main Business Overview
- 13.9.5 Toshiba Latest Developments
- 13.10 Bombardier
  - 13.10.1 Bombardier Company Information
  - 13.10.2 Bombardier Traction Auxiliary Converter Product Portfolios and Specifications
- 13.10.3 Bombardier Traction Auxiliary Converter Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.10.4 Bombardier Main Business Overview
  - 13.10.5 Bombardier Latest Developments
- 13.11 Voith
  - 13.11.1 Voith Company Information
  - 13.11.2 Voith Traction Auxiliary Converter Product Portfolios and Specifications
- 13.11.3 Voith Traction Auxiliary Converter Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.11.4 Voith Main Business Overview
  - 13.11.5 Voith Latest Developments
- 13.12 Medha
  - 13.12.1 Medha Company Information
  - 13.12.2 Medha Traction Auxiliary Converter Product Portfolios and Specifications
- 13.12.3 Medha Traction Auxiliary Converter Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.12.4 Medha Main Business Overview
  - 13.12.5 Medha Latest Developments
- 13.13 Inovance
  - 13.13.1 Inovance Company Information
  - 13.13.2 Inovance Traction Auxiliary Converter Product Portfolios and Specifications
- 13.13.3 Inovance Traction Auxiliary Converter Sales, Revenue, Price and Gross Margin (2018-2023)
  - 13.13.4 Inovance Main Business Overview
  - 13.13.5 Inovance Latest Developments
- 13.14 Cgglobal
  - 13.14.1 Cgglobal Company Information
  - 13.14.2 Cgglobal Traction Auxiliary Converter Product Portfolios and Specifications
- 13.14.3 Cgglobal Traction Auxiliary Converter Sales, Revenue, Price and Gross
- Margin (2018-2023)
  - 13.14.4 Cgglobal Main Business Overview
  - 13.14.5 Cgglobal Latest Developments

#### 14 RESEARCH FINDINGS AND CONCLUSION



# **List Of Tables**

#### LIST OF TABLES

- Table 1. Traction Auxiliary Converter Annual Sales CAGR by Geographic Region (2018, 2022 & 2029) & (\$ millions)
- Table 2. Traction Auxiliary Converter Annual Sales CAGR by Country/Region (2018, 2022 & 2029) & (\$ millions)
- Table 3. Major Players of Integrated
- Table 4. Major Players of Detached
- Table 5. Global Traction Auxiliary Converter Sales by Type (2018-2023) & (Units)
- Table 6. Global Traction Auxiliary Converter Sales Market Share by Type (2018-2023)
- Table 7. Global Traction Auxiliary Converter Revenue by Type (2018-2023) & (\$ million)
- Table 8. Global Traction Auxiliary Converter Revenue Market Share by Type (2018-2023)
- Table 9. Global Traction Auxiliary Converter Sale Price by Type (2018-2023) & (US\$/Unit)
- Table 10. Global Traction Auxiliary Converter Sales by Application (2018-2023) & (Units)
- Table 11. Global Traction Auxiliary Converter Sales Market Share by Application (2018-2023)
- Table 12. Global Traction Auxiliary Converter Revenue by Application (2018-2023)
- Table 13. Global Traction Auxiliary Converter Revenue Market Share by Application (2018-2023)
- Table 14. Global Traction Auxiliary Converter Sale Price by Application (2018-2023) & (US\$/Unit)
- Table 15. Global Traction Auxiliary Converter Sales by Company (2018-2023) & (Units)
- Table 16. Global Traction Auxiliary Converter Sales Market Share by Company (2018-2023)
- Table 17. Global Traction Auxiliary Converter Revenue by Company (2018-2023) (\$ Millions)
- Table 18. Global Traction Auxiliary Converter Revenue Market Share by Company (2018-2023)
- Table 19. Global Traction Auxiliary Converter Sale Price by Company (2018-2023) & (US\$/Unit)
- Table 20. Key Manufacturers Traction Auxiliary Converter Producing Area Distribution and Sales Area
- Table 21. Players Traction Auxiliary Converter Products Offered
- Table 22. Traction Auxiliary Converter Concentration Ratio (CR3, CR5 and CR10) &



(2018-2023)

Table 23. New Products and Potential Entrants

Table 24. Mergers & Acquisitions, Expansion

Table 25. Global Traction Auxiliary Converter Sales by Geographic Region (2018-2023) & (Units)

Table 26. Global Traction Auxiliary Converter Sales Market Share Geographic Region (2018-2023)

Table 27. Global Traction Auxiliary Converter Revenue by Geographic Region (2018-2023) & (\$ millions)

Table 28. Global Traction Auxiliary Converter Revenue Market Share by Geographic Region (2018-2023)

Table 29. Global Traction Auxiliary Converter Sales by Country/Region (2018-2023) & (Units)

Table 30. Global Traction Auxiliary Converter Sales Market Share by Country/Region (2018-2023)

Table 31. Global Traction Auxiliary Converter Revenue by Country/Region (2018-2023) & (\$ millions)

Table 32. Global Traction Auxiliary Converter Revenue Market Share by Country/Region (2018-2023)

Table 33. Americas Traction Auxiliary Converter Sales by Country (2018-2023) & (Units)

Table 34. Americas Traction Auxiliary Converter Sales Market Share by Country (2018-2023)

Table 35. Americas Traction Auxiliary Converter Revenue by Country (2018-2023) & (\$ Millions)

Table 36. Americas Traction Auxiliary Converter Revenue Market Share by Country (2018-2023)

Table 37. Americas Traction Auxiliary Converter Sales by Type (2018-2023) & (Units)

Table 38. Americas Traction Auxiliary Converter Sales by Application (2018-2023) & (Units)

Table 39. APAC Traction Auxiliary Converter Sales by Region (2018-2023) & (Units)

Table 40. APAC Traction Auxiliary Converter Sales Market Share by Region (2018-2023)

Table 41. APAC Traction Auxiliary Converter Revenue by Region (2018-2023) & (\$ Millions)

Table 42. APAC Traction Auxiliary Converter Revenue Market Share by Region (2018-2023)

Table 43. APAC Traction Auxiliary Converter Sales by Type (2018-2023) & (Units)

Table 44. APAC Traction Auxiliary Converter Sales by Application (2018-2023) & (Units)



- Table 45. Europe Traction Auxiliary Converter Sales by Country (2018-2023) & (Units)
- Table 46. Europe Traction Auxiliary Converter Sales Market Share by Country (2018-2023)
- Table 47. Europe Traction Auxiliary Converter Revenue by Country (2018-2023) & (\$ Millions)
- Table 48. Europe Traction Auxiliary Converter Revenue Market Share by Country (2018-2023)
- Table 49. Europe Traction Auxiliary Converter Sales by Type (2018-2023) & (Units)
- Table 50. Europe Traction Auxiliary Converter Sales by Application (2018-2023) & (Units)
- Table 51. Middle East & Africa Traction Auxiliary Converter Sales by Country (2018-2023) & (Units)
- Table 52. Middle East & Africa Traction Auxiliary Converter Sales Market Share by Country (2018-2023)
- Table 53. Middle East & Africa Traction Auxiliary Converter Revenue by Country (2018-2023) & (\$ Millions)
- Table 54. Middle East & Africa Traction Auxiliary Converter Revenue Market Share by Country (2018-2023)
- Table 55. Middle East & Africa Traction Auxiliary Converter Sales by Type (2018-2023) & (Units)
- Table 56. Middle East & Africa Traction Auxiliary Converter Sales by Application (2018-2023) & (Units)
- Table 57. Key Market Drivers & Growth Opportunities of Traction Auxiliary Converter
- Table 58. Key Market Challenges & Risks of Traction Auxiliary Converter
- Table 59. Key Industry Trends of Traction Auxiliary Converter
- Table 60. Traction Auxiliary Converter Raw Material
- Table 61. Key Suppliers of Raw Materials
- Table 62. Traction Auxiliary Converter Distributors List
- Table 63. Traction Auxiliary Converter Customer List
- Table 64. Global Traction Auxiliary Converter Sales Forecast by Region (2024-2029) & (Units)
- Table 65. Global Traction Auxiliary Converter Revenue Forecast by Region (2024-2029) & (\$ millions)
- Table 66. Americas Traction Auxiliary Converter Sales Forecast by Country (2024-2029) & (Units)
- Table 67. Americas Traction Auxiliary Converter Revenue Forecast by Country (2024-2029) & (\$ millions)
- Table 68. APAC Traction Auxiliary Converter Sales Forecast by Region (2024-2029) & (Units)



Table 69. APAC Traction Auxiliary Converter Revenue Forecast by Region (2024-2029) & (\$ millions)

Table 70. Europe Traction Auxiliary Converter Sales Forecast by Country (2024-2029) & (Units)

Table 71. Europe Traction Auxiliary Converter Revenue Forecast by Country (2024-2029) & (\$ millions)

Table 72. Middle East & Africa Traction Auxiliary Converter Sales Forecast by Country (2024-2029) & (Units)

Table 73. Middle East & Africa Traction Auxiliary Converter Revenue Forecast by Country (2024-2029) & (\$ millions)

Table 74. Global Traction Auxiliary Converter Sales Forecast by Type (2024-2029) & (Units)

Table 75. Global Traction Auxiliary Converter Revenue Forecast by Type (2024-2029) & (\$ Millions)

Table 76. Global Traction Auxiliary Converter Sales Forecast by Application (2024-2029) & (Units)

Table 77. Global Traction Auxiliary Converter Revenue Forecast by Application (2024-2029) & (\$ Millions)

Table 78. ABB Basic Information, Traction Auxiliary Converter Manufacturing Base, Sales Area and Its Competitors

Table 79. ABB Traction Auxiliary Converter Product Portfolios and Specifications Table 80. ABB Traction Auxiliary Converter Sales (Units), Revenue (\$ Million), Price

(US\$/Unit) and Gross Margin (2018-2023)

Table 81. ABB Main Business

Table 82. ABB Latest Developments

Table 83. CRRC Basic Information, Traction Auxiliary Converter Manufacturing Base, Sales Area and Its Competitors

Table 84. CRRC Traction Auxiliary Converter Product Portfolios and Specifications

Table 85. CRRC Traction Auxiliary Converter Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 86. CRRC Main Business

Table 87. CRRC Latest Developments

Table 88. Siemens Basic Information, Traction Auxiliary Converter Manufacturing Base, Sales Area and Its Competitors

Table 89. Siemens Traction Auxiliary Converter Product Portfolios and Specifications

Table 90. Siemens Traction Auxiliary Converter Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 91. Siemens Main Business

Table 92. Siemens Latest Developments



Table 93. Hitachi Basic Information, Traction Auxiliary Converter Manufacturing Base, Sales Area and Its Competitors

Table 94. Hitachi Traction Auxiliary Converter Product Portfolios and Specifications

Table 95. Hitachi Traction Auxiliary Converter Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 96. Hitachi Main Business

Table 97. Hitachi Latest Developments

Table 98. CAF Group Basic Information, Traction Auxiliary Converter Manufacturing

Base, Sales Area and Its Competitors

Table 99. CAF Group Traction Auxiliary Converter Product Portfolios and Specifications

Table 100. CAF Group Traction Auxiliary Converter Sales (Units), Revenue (\$ Million),

Price (US\$/Unit) and Gross Margin (2018-2023)

Table 101. CAF Group Main Business

Table 102. CAF Group Latest Developments

Table 103. Alstom Basic Information, Traction Auxiliary Converter Manufacturing Base,

Sales Area and Its Competitors

Table 104. Alstom Traction Auxiliary Converter Product Portfolios and Specifications

Table 105. Alstom Traction Auxiliary Converter Sales (Units), Revenue (\$ Million), Price

(US\$/Unit) and Gross Margin (2018-2023)

Table 106. Alstom Main Business

Table 107. Alstom Latest Developments

Table 108. KON? AR Group Basic Information, Traction Auxiliary Converter

Manufacturing Base, Sales Area and Its Competitors

Table 109. KON?AR Group Traction Auxiliary Converter Product Portfolios and Specifications

Table 110. KON?AR Group Traction Auxiliary Converter Sales (Units), Revenue (\$

Million), Price (US\$/Unit) and Gross Margin (2018-2023)

Table 111. KON?AR Group Main Business

Table 112. KON?AR Group Latest Developments

Table 113. Ingeteam Basic Information, Traction Auxiliary Converter Manufacturing

Base, Sales Area and Its Competitors

Table 114. Ingeteam Traction Auxiliary Converter Product Portfolios and Specifications

Table 115. Ingeteam Traction Auxiliary Converter Sales (Units), Revenue (\$ Million),

Price (US\$/Unit) and Gross Margin (2018-2023)

Table 116. Ingeteam Main Business

Table 117. Ingeteam Latest Developments

Table 118. Toshiba Basic Information, Traction Auxiliary Converter Manufacturing Base,

Sales Area and Its Competitors

Table 119. Toshiba Traction Auxiliary Converter Product Portfolios and Specifications



Table 120. Toshiba Traction Auxiliary Converter Sales (Units), Revenue (\$ Million),

Price (US\$/Unit) and Gross Margin (2018-2023)

Table 121. Toshiba Main Business

Table 122. Toshiba Latest Developments

Table 123. Bombardier Basic Information, Traction Auxiliary Converter Manufacturing

Base, Sales Area and Its Competitors

Table 124. Bombardier Traction Auxiliary Converter Product Portfolios and

Specifications

Table 125. Bombardier Traction Auxiliary Converter Sales (Units), Revenue (\$ Million),

Price (US\$/Unit) and Gross Margin (2018-2023)

Table 126. Bombardier Main Business

Table 127. Bombardier Latest Developments

Table 128. Voith Basic Information, Traction Auxiliary Converter Manufacturing Base,

Sales Area and Its Competitors

Table 129. Voith Traction Auxiliary Converter Product Portfolios and Specifications

Table 130. Voith Traction Auxiliary Converter Sales (Units), Revenue (\$ Million), Price

(US\$/Unit) and Gross Margin (2018-2023)

Table 131. Voith Main Business

Table 132. Voith Latest Developments

Table 133. Medha Basic Information, Traction Auxiliary Converter Manufacturing Base,

Sales Area and Its Competitors

Table 134. Medha Traction Auxiliary Converter Product Portfolios and Specifications

Table 135. Medha Traction Auxiliary Converter Sales (Units), Revenue (\$ Million), Price

(US\$/Unit) and Gross Margin (2018-2023)

Table 136. Medha Main Business

Table 137. Medha Latest Developments

Table 138. Inovance Basic Information, Traction Auxiliary Converter Manufacturing

Base, Sales Area and Its Competitors

Table 139. Inovance Traction Auxiliary Converter Product Portfolios and Specifications

Table 140. Inovance Traction Auxiliary Converter Sales (Units), Revenue (\$ Million),

Price (US\$/Unit) and Gross Margin (2018-2023)

Table 141. Inovance Main Business

Table 142. Inovance Latest Developments

Table 143. Cgglobal Basic Information, Traction Auxiliary Converter Manufacturing

Base, Sales Area and Its Competitors

Table 144. Cgglobal Traction Auxiliary Converter Product Portfolios and Specifications

Table 145. Cgglobal Traction Auxiliary Converter Sales (Units), Revenue (\$ Million),

Price (US\$/Unit) and Gross Margin (2018-2023)

Table 146. Cgglobal Main Business



Table 147. Cgglobal Latest Developments



# **List Of Figures**

#### LIST OF FIGURES

- Figure 1. Picture of Traction Auxiliary Converter
- Figure 2. Traction Auxiliary Converter Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Traction Auxiliary Converter Sales Growth Rate 2018-2029 (Units)
- Figure 7. Global Traction Auxiliary Converter Revenue Growth Rate 2018-2029 (\$ Millions)
- Figure 8. Traction Auxiliary Converter Sales by Region (2018, 2022 & 2029) & (\$ Millions)
- Figure 9. Product Picture of Integrated
- Figure 10. Product Picture of Detached
- Figure 11. Global Traction Auxiliary Converter Sales Market Share by Type in 2022
- Figure 12. Global Traction Auxiliary Converter Revenue Market Share by Type (2018-2023)
- Figure 13. Traction Auxiliary Converter Consumed in Diesel Locomotive
- Figure 14. Global Traction Auxiliary Converter Market: Diesel Locomotive (2018-2023) & (Units)
- Figure 15. Traction Auxiliary Converter Consumed in Electric Locomotive
- Figure 16. Global Traction Auxiliary Converter Market: Electric Locomotive (2018-2023) & (Units)
- Figure 17. Traction Auxiliary Converter Consumed in Others
- Figure 18. Global Traction Auxiliary Converter Market: Others (2018-2023) & (Units)
- Figure 19. Global Traction Auxiliary Converter Sales Market Share by Application (2022)
- Figure 20. Global Traction Auxiliary Converter Revenue Market Share by Application in 2022
- Figure 21. Traction Auxiliary Converter Sales Market by Company in 2022 (Units)
- Figure 22. Global Traction Auxiliary Converter Sales Market Share by Company in 2022
- Figure 23. Traction Auxiliary Converter Revenue Market by Company in 2022 (\$ Million)
- Figure 24. Global Traction Auxiliary Converter Revenue Market Share by Company in 2022
- Figure 25. Global Traction Auxiliary Converter Sales Market Share by Geographic Region (2018-2023)
- Figure 26. Global Traction Auxiliary Converter Revenue Market Share by Geographic



- Region in 2022
- Figure 27. Americas Traction Auxiliary Converter Sales 2018-2023 (Units)
- Figure 28. Americas Traction Auxiliary Converter Revenue 2018-2023 (\$ Millions)
- Figure 29. APAC Traction Auxiliary Converter Sales 2018-2023 (Units)
- Figure 30. APAC Traction Auxiliary Converter Revenue 2018-2023 (\$ Millions)
- Figure 31. Europe Traction Auxiliary Converter Sales 2018-2023 (Units)
- Figure 32. Europe Traction Auxiliary Converter Revenue 2018-2023 (\$ Millions)
- Figure 33. Middle East & Africa Traction Auxiliary Converter Sales 2018-2023 (Units)
- Figure 34. Middle East & Africa Traction Auxiliary Converter Revenue 2018-2023 (\$ Millions)
- Figure 35. Americas Traction Auxiliary Converter Sales Market Share by Country in 2022
- Figure 36. Americas Traction Auxiliary Converter Revenue Market Share by Country in 2022
- Figure 37. Americas Traction Auxiliary Converter Sales Market Share by Type (2018-2023)
- Figure 38. Americas Traction Auxiliary Converter Sales Market Share by Application (2018-2023)
- Figure 39. United States Traction Auxiliary Converter Revenue Growth 2018-2023 (\$ Millions)
- Figure 40. Canada Traction Auxiliary Converter Revenue Growth 2018-2023 (\$ Millions)
- Figure 41. Mexico Traction Auxiliary Converter Revenue Growth 2018-2023 (\$ Millions)
- Figure 42. Brazil Traction Auxiliary Converter Revenue Growth 2018-2023 (\$ Millions)
- Figure 43. APAC Traction Auxiliary Converter Sales Market Share by Region in 2022
- Figure 44. APAC Traction Auxiliary Converter Revenue Market Share by Regions in 2022
- Figure 45. APAC Traction Auxiliary Converter Sales Market Share by Type (2018-2023)
- Figure 46. APAC Traction Auxiliary Converter Sales Market Share by Application (2018-2023)
- Figure 47. China Traction Auxiliary Converter Revenue Growth 2018-2023 (\$ Millions)
- Figure 48. Japan Traction Auxiliary Converter Revenue Growth 2018-2023 (\$ Millions)
- Figure 49. South Korea Traction Auxiliary Converter Revenue Growth 2018-2023 (\$ Millions)
- Figure 50. Southeast Asia Traction Auxiliary Converter Revenue Growth 2018-2023 (\$ Millions)
- Figure 51. India Traction Auxiliary Converter Revenue Growth 2018-2023 (\$ Millions)
- Figure 52. Australia Traction Auxiliary Converter Revenue Growth 2018-2023 (\$ Millions)
- Figure 53. China Taiwan Traction Auxiliary Converter Revenue Growth 2018-2023 (\$



## Millions)

- Figure 54. Europe Traction Auxiliary Converter Sales Market Share by Country in 2022
- Figure 55. Europe Traction Auxiliary Converter Revenue Market Share by Country in 2022
- Figure 56. Europe Traction Auxiliary Converter Sales Market Share by Type (2018-2023)
- Figure 57. Europe Traction Auxiliary Converter Sales Market Share by Application (2018-2023)
- Figure 58. Germany Traction Auxiliary Converter Revenue Growth 2018-2023 (\$ Millions)
- Figure 59. France Traction Auxiliary Converter Revenue Growth 2018-2023 (\$ Millions)
- Figure 60. UK Traction Auxiliary Converter Revenue Growth 2018-2023 (\$ Millions)
- Figure 61. Italy Traction Auxiliary Converter Revenue Growth 2018-2023 (\$ Millions)
- Figure 62. Russia Traction Auxiliary Converter Revenue Growth 2018-2023 (\$ Millions)
- Figure 63. Middle East & Africa Traction Auxiliary Converter Sales Market Share by Country in 2022
- Figure 64. Middle East & Africa Traction Auxiliary Converter Revenue Market Share by Country in 2022
- Figure 65. Middle East & Africa Traction Auxiliary Converter Sales Market Share by Type (2018-2023)
- Figure 66. Middle East & Africa Traction Auxiliary Converter Sales Market Share by Application (2018-2023)
- Figure 67. Egypt Traction Auxiliary Converter Revenue Growth 2018-2023 (\$ Millions)
- Figure 68. South Africa Traction Auxiliary Converter Revenue Growth 2018-2023 (\$ Millions)
- Figure 69. Israel Traction Auxiliary Converter Revenue Growth 2018-2023 (\$ Millions)
- Figure 70. Turkey Traction Auxiliary Converter Revenue Growth 2018-2023 (\$ Millions)
- Figure 71. GCC Country Traction Auxiliary Converter Revenue Growth 2018-2023 (\$ Millions)
- Figure 72. Manufacturing Cost Structure Analysis of Traction Auxiliary Converter in 2022
- Figure 73. Manufacturing Process Analysis of Traction Auxiliary Converter
- Figure 74. Industry Chain Structure of Traction Auxiliary Converter
- Figure 75. Channels of Distribution
- Figure 76. Global Traction Auxiliary Converter Sales Market Forecast by Region (2024-2029)
- Figure 77. Global Traction Auxiliary Converter Revenue Market Share Forecast by Region (2024-2029)
- Figure 78. Global Traction Auxiliary Converter Sales Market Share Forecast by Type



(2024-2029)

Figure 79. Global Traction Auxiliary Converter Revenue Market Share Forecast by Type (2024-2029)

Figure 80. Global Traction Auxiliary Converter Sales Market Share Forecast by Application (2024-2029)

Figure 81. Global Traction Auxiliary Converter Revenue Market Share Forecast by Application (2024-2029)



#### I would like to order

Product name: Global Traction Auxiliary Converter Market Growth 2023-2029

Product link: https://marketpublishers.com/r/GA933DE00338EN.html

Price: US\$ 3,660.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

# **Payment**

First name:

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <a href="https://marketpublishers.com/r/GA933DE00338EN.html">https://marketpublishers.com/r/GA933DE00338EN.html</a>

To pay by Wire Transfer, please, fill in your contact details in the form below:

Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

& Conditions at https://marketpublishers.com/docs/terms.html

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms