

# Global Traction SST Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Traction SST market size is expected to reach \$ 2264 million by 2032, rising at a market growth of 12.2% CAGR during the forecast period (2026-2032).

In 2025, global Traction Solid State Transformer production reached approximately 1,441 units, with an average global market price of around US\$680,000 per unit.

The gross profit margin of major companies in the industry is between 28%-45%.

In 2025, the global production capacity of traction solid state transformers was approximately 1,921 units.

Traction Solid State Transformers (Traction SST) are advanced power electronic transformer systems used in railway traction power systems. Unlike traditional transformers, SST technology integrates high-frequency power electronics and semiconductor converters to achieve efficient voltage conversion, power control, and grid interaction. These systems enable reduced size and weight, improved energy efficiency, and enhanced power management capabilities. Traction SSTs are widely applied in electric locomotives, high-speed trains, and urban rail transit systems to improve traction power performance and energy efficiency.

The industrial chain includes upstream power semiconductor devices, magnetic materials, high-frequency transformers, cooling systems, and control electronics. Midstream manufacturing involves module integration, power converter assembly, system programming, and electrical testing. Downstream users include railway equipment manufacturers, rail transit operators, and electric locomotive producers. Supporting services include system integration, maintenance, and traction power

system engineering.

The traction solid state transformer market is growing as rail transportation systems adopt advanced power electronics to improve efficiency and reduce equipment size. Solid state transformer technology allows better power management, regenerative braking energy utilization, and flexible voltage control compared with traditional traction transformers. Increasing investments in high-speed rail networks, urban rail transit systems, and electrified railway infrastructure are driving demand for traction SST solutions. Technological developments in wide-bandgap semiconductor devices and power electronics are further improving system performance and reliability. However, high development costs and complex system integration remain key challenges. Overall, the expansion of electrified railway transportation is expected to support strong growth in the traction SST market.

This report studies the global Traction SST production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Traction SST and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Traction SST that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Traction SST total production and demand, 2021-2032, (K Units)

Global Traction SST total production value, 2021-2032, (USD Million)

Global Traction SST production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Traction SST consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Traction SST domestic production, consumption, key domestic manufacturers and share

Global Traction SST production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Traction SST production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Traction SST production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Traction SST market based on the following

parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ABB, Siemens Mobility, Hitachi Energy, Alstom, Mitsubishi Electric, Toshiba, CRRC, Schneider Electric, GE Grid Solutions, Hyundai Electric, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Traction SST market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Traction SST Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Traction SST Market, Segmentation by Type:

Single-stage SST

Two-stage SST

Three-stage SST

Global Traction SST Market, Segmentation by Voltage Level:

Medium Voltage SST

High Voltage SST

Ultra-high Voltage SST

Global Traction SST Market, Segmentation by Cooling Method:

Air-cooled SST

Liquid-cooled SST

Hybrid Cooling SST

Global Traction SST Market, Segmentation by Application:

Railway Transportation

Electric Transportation

Power Electronics

Other

Companies Profiled:

ABB

Siemens Mobility

Hitachi Energy

Alstom

Mitsubishi Electric

Toshiba

CRRC

Schneider Electric

GE Grid Solutions

Hyundai Electric

Fuji Electric

Delta Electronics

Ingeteam

TBEA

XD Group

### **Key Questions Answered:**

1. How big is the global Traction SST market?
2. What is the demand of the global Traction SST market?
3. What is the year over year growth of the global Traction SST market?
4. What is the production and production value of the global Traction SST market?
5. Who are the key producers in the global Traction SST market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Traction SST Introduction
- 1.2 World Traction SST Supply & Forecast
  - 1.2.1 World Traction SST Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Traction SST Production (2021-2032)
  - 1.2.3 World Traction SST Pricing Trends (2021-2032)
- 1.3 World Traction SST Production by Region (Based on Production Site)
  - 1.3.1 World Traction SST Production Value by Region (2021-2032)
  - 1.3.2 World Traction SST Production by Region (2021-2032)
  - 1.3.3 World Traction SST Average Price by Region (2021-2032)
  - 1.3.4 North America Traction SST Production (2021-2032)
  - 1.3.5 Europe Traction SST Production (2021-2032)
  - 1.3.6 China Traction SST Production (2021-2032)
  - 1.3.7 Japan Traction SST Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Traction SST Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Traction SST Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Traction SST Demand (2021-2032)
- 2.2 World Traction SST Consumption by Region
  - 2.2.1 World Traction SST Consumption by Region (2021-2026)
  - 2.2.2 World Traction SST Consumption Forecast by Region (2027-2032)
- 2.3 United States Traction SST Consumption (2021-2032)
- 2.4 China Traction SST Consumption (2021-2032)
- 2.5 Europe Traction SST Consumption (2021-2032)
- 2.6 Japan Traction SST Consumption (2021-2032)
- 2.7 South Korea Traction SST Consumption (2021-2032)
- 2.8 ASEAN Traction SST Consumption (2021-2032)
- 2.9 India Traction SST Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Traction SST Production Value by Manufacturer (2021-2026)

- 3.2 World Traction SST Production by Manufacturer (2021-2026)
- 3.3 World Traction SST Average Price by Manufacturer (2021-2026)
- 3.4 Traction SST Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Traction SST Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Traction SST in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Traction SST in 2025
- 3.6 Traction SST Market: Overall Company Footprint Analysis
  - 3.6.1 Traction SST Market: Region Footprint
  - 3.6.2 Traction SST Market: Company Product Type Footprint
  - 3.6.3 Traction SST Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Traction SST Production Value Comparison
  - 4.1.1 United States VS China: Traction SST Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Traction SST Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Traction SST Production Comparison
  - 4.2.1 United States VS China: Traction SST Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Traction SST Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Traction SST Consumption Comparison
  - 4.3.1 United States VS China: Traction SST Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Traction SST Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Traction SST Manufacturers and Market Share, 2021-2026
  - 4.4.1 United States Based Traction SST Manufacturers, Headquarters and Production Site (States, Country)
  - 4.4.2 United States Based Manufacturers Traction SST Production Value (2021-2026)

- 4.4.3 United States Based Manufacturers Traction SST Production (2021-2026)
- 4.5 China Based Traction SST Manufacturers and Market Share
  - 4.5.1 China Based Traction SST Manufacturers, Headquarters and Production Site (Province, Country)
  - 4.5.2 China Based Manufacturers Traction SST Production Value (2021-2026)
  - 4.5.3 China Based Manufacturers Traction SST Production (2021-2026)
- 4.6 Rest of World Based Traction SST Manufacturers and Market Share, 2021-2026
  - 4.6.1 Rest of World Based Traction SST Manufacturers, Headquarters and Production Site (State, Country)
  - 4.6.2 Rest of World Based Manufacturers Traction SST Production Value (2021-2026)
  - 4.6.3 Rest of World Based Manufacturers Traction SST Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

- 5.1 World Traction SST Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
  - 5.2.1 Single-stage SST
  - 5.2.2 Two-stage SST
  - 5.2.3 Three-stage SST
- 5.3 Market Segment by Type
  - 5.3.1 World Traction SST Production by Type (2021-2032)
  - 5.3.2 World Traction SST Production Value by Type (2021-2032)
  - 5.3.3 World Traction SST Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY VOLTAGE LEVEL**

- 6.1 World Traction SST Market Size Overview by Voltage Level: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Voltage Level
  - 6.2.1 Medium Voltage SST
  - 6.2.2 High Voltage SST
  - 6.2.3 Ultra-high Voltage SST
- 6.3 Market Segment by Voltage Level
  - 6.3.1 World Traction SST Production by Voltage Level (2021-2032)
  - 6.3.2 World Traction SST Production Value by Voltage Level (2021-2032)
  - 6.3.3 World Traction SST Average Price by Voltage Level (2021-2032)

## **7 MARKET ANALYSIS BY COOLING METHOD**

7.1 World Traction SST Market Size Overview by Cooling Method: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Cooling Method

7.2.1 Air-cooled SST

7.2.2 Liquid-cooled SST

7.2.3 Hybrid Cooling SST

7.3 Market Segment by Cooling Method

7.3.1 World Traction SST Production by Cooling Method (2021-2032)

7.3.2 World Traction SST Production Value by Cooling Method (2021-2032)

7.3.3 World Traction SST Average Price by Cooling Method (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Traction SST Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Railway Transportation

8.2.2 Electric Transportation

8.2.3 Power Electronics

8.2.4 Other

8.3 Market Segment by Application

8.3.1 World Traction SST Production by Application (2021-2032)

8.3.2 World Traction SST Production Value by Application (2021-2032)

8.3.3 World Traction SST Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 ABB

9.1.1 ABB Details

9.1.2 ABB Major Business

9.1.3 ABB Traction SST Product and Services

9.1.4 ABB Traction SST Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 ABB Recent Developments/Updates

9.1.6 ABB Competitive Strengths & Weaknesses

9.2 Siemens Mobility

9.2.1 Siemens Mobility Details

9.2.2 Siemens Mobility Major Business

9.2.3 Siemens Mobility Traction SST Product and Services

9.2.4 Siemens Mobility Traction SST Production, Price, Value, Gross Margin and

## Market Share (2021-2026)

9.2.5 Siemens Mobility Recent Developments/Updates

9.2.6 Siemens Mobility Competitive Strengths & Weaknesses

## 9.3 Hitachi Energy

9.3.1 Hitachi Energy Details

9.3.2 Hitachi Energy Major Business

9.3.3 Hitachi Energy Traction SST Product and Services

9.3.4 Hitachi Energy Traction SST Production, Price, Value, Gross Margin and Market

## Share (2021-2026)

9.3.5 Hitachi Energy Recent Developments/Updates

9.3.6 Hitachi Energy Competitive Strengths & Weaknesses

## 9.4 Alstom

9.4.1 Alstom Details

9.4.2 Alstom Major Business

9.4.3 Alstom Traction SST Product and Services

9.4.4 Alstom Traction SST Production, Price, Value, Gross Margin and Market Share

## (2021-2026)

9.4.5 Alstom Recent Developments/Updates

9.4.6 Alstom Competitive Strengths & Weaknesses

## 9.5 Mitsubishi Electric

9.5.1 Mitsubishi Electric Details

9.5.2 Mitsubishi Electric Major Business

9.5.3 Mitsubishi Electric Traction SST Product and Services

9.5.4 Mitsubishi Electric Traction SST Production, Price, Value, Gross Margin and

## Market Share (2021-2026)

9.5.5 Mitsubishi Electric Recent Developments/Updates

9.5.6 Mitsubishi Electric Competitive Strengths & Weaknesses

## 9.6 Toshiba

9.6.1 Toshiba Details

9.6.2 Toshiba Major Business

9.6.3 Toshiba Traction SST Product and Services

9.6.4 Toshiba Traction SST Production, Price, Value, Gross Margin and Market Share

## (2021-2026)

9.6.5 Toshiba Recent Developments/Updates

9.6.6 Toshiba Competitive Strengths & Weaknesses

## 9.7 CRRC

9.7.1 CRRC Details

9.7.2 CRRC Major Business

9.7.3 CRRC Traction SST Product and Services

9.7.4 CRRC Traction SST Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 CRRC Recent Developments/Updates

9.7.6 CRRC Competitive Strengths & Weaknesses

9.8 Schneider Electric

9.8.1 Schneider Electric Details

9.8.2 Schneider Electric Major Business

9.8.3 Schneider Electric Traction SST Product and Services

9.8.4 Schneider Electric Traction SST Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Schneider Electric Recent Developments/Updates

9.8.6 Schneider Electric Competitive Strengths & Weaknesses

9.9 GE Grid Solutions

9.9.1 GE Grid Solutions Details

9.9.2 GE Grid Solutions Major Business

9.9.3 GE Grid Solutions Traction SST Product and Services

9.9.4 GE Grid Solutions Traction SST Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 GE Grid Solutions Recent Developments/Updates

9.9.6 GE Grid Solutions Competitive Strengths & Weaknesses

9.10 Hyundai Electric

9.10.1 Hyundai Electric Details

9.10.2 Hyundai Electric Major Business

9.10.3 Hyundai Electric Traction SST Product and Services

9.10.4 Hyundai Electric Traction SST Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Hyundai Electric Recent Developments/Updates

9.10.6 Hyundai Electric Competitive Strengths & Weaknesses

9.11 Fuji Electric

9.11.1 Fuji Electric Details

9.11.2 Fuji Electric Major Business

9.11.3 Fuji Electric Traction SST Product and Services

9.11.4 Fuji Electric Traction SST Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Fuji Electric Recent Developments/Updates

9.11.6 Fuji Electric Competitive Strengths & Weaknesses

9.12 Delta Electronics

9.12.1 Delta Electronics Details

9.12.2 Delta Electronics Major Business

- 9.12.3 Delta Electronics Traction SST Product and Services
- 9.12.4 Delta Electronics Traction SST Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.12.5 Delta Electronics Recent Developments/Updates
- 9.12.6 Delta Electronics Competitive Strengths & Weaknesses
- 9.13 Ingeteam
  - 9.13.1 Ingeteam Details
  - 9.13.2 Ingeteam Major Business
  - 9.13.3 Ingeteam Traction SST Product and Services
  - 9.13.4 Ingeteam Traction SST Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.13.5 Ingeteam Recent Developments/Updates
  - 9.13.6 Ingeteam Competitive Strengths & Weaknesses
- 9.14 TBEA
  - 9.14.1 TBEA Details
  - 9.14.2 TBEA Major Business
  - 9.14.3 TBEA Traction SST Product and Services
  - 9.14.4 TBEA Traction SST Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.14.5 TBEA Recent Developments/Updates
  - 9.14.6 TBEA Competitive Strengths & Weaknesses
- 9.15 XD Group
  - 9.15.1 XD Group Details
  - 9.15.2 XD Group Major Business
  - 9.15.3 XD Group Traction SST Product and Services
  - 9.15.4 XD Group Traction SST Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.15.5 XD Group Recent Developments/Updates
  - 9.15.6 XD Group Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Traction SST Industry Chain
- 10.2 Traction SST Upstream Analysis
  - 10.2.1 Traction SST Core Raw Materials
  - 10.2.2 Main Manufacturers of Traction SST Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Traction SST Production Mode

10.6 Traction SST Procurement Model

10.7 Traction SST Industry Sales Model and Sales Channels

10.7.1 Traction SST Sales Model

10.7.2 Traction SST Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

- Table 1. World Traction SST Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Traction SST Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Traction SST Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Traction SST Production Value Market Share by Region (2021-2026)
- Table 5. World Traction SST Production Value Market Share by Region (2027-2032)
- Table 6. World Traction SST Production by Region (2021-2026) & (K Units)
- Table 7. World Traction SST Production by Region (2027-2032) & (K Units)
- Table 8. World Traction SST Production Market Share by Region (2021-2026)
- Table 9. World Traction SST Production Market Share by Region (2027-2032)
- Table 10. World Traction SST Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World Traction SST Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. Traction SST Major Market Trends
- Table 13. World Traction SST Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World Traction SST Consumption by Region (2021-2026) & (K Units)
- Table 15. World Traction SST Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World Traction SST Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Traction SST Producers in 2025
- Table 18. World Traction SST Production by Manufacturer (2021-2026) & (K Units)
- Table 19. Production Market Share of Key Traction SST Producers in 2025
- Table 20. World Traction SST Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 21. Global Traction SST Company Evaluation Quadrant
- Table 22. World Traction SST Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Traction SST Production Site of Key Manufacturer
- Table 24. Traction SST Market: Company Product Type Footprint
- Table 25. Traction SST Market: Company Product Application Footprint
- Table 26. Traction SST Competitive Factors
- Table 27. Traction SST New Entrant and Capacity Expansion Plans
- Table 28. Traction SST Mergers & Acquisitions Activity
- Table 29. United States VS China Traction SST Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

- Table 30. United States VS China Traction SST Production Comparison, (2021 & 2025 & 2032) & (K Units)
- Table 31. United States VS China Traction SST Consumption Comparison, (2021 & 2025 & 2032) & (K Units)
- Table 32. United States Based Traction SST Manufacturers, Headquarters and Production Site (States, Country)
- Table 33. United States Based Manufacturers Traction SST Production Value, (2021-2026) & (USD Million)
- Table 34. United States Based Manufacturers Traction SST Production Value Market Share (2021-2026)
- Table 35. United States Based Manufacturers Traction SST Production (2021-2026) & (K Units)
- Table 36. United States Based Manufacturers Traction SST Production Market Share (2021-2026)
- Table 37. China Based Traction SST Manufacturers, Headquarters and Production Site (Province, Country)
- Table 38. China Based Manufacturers Traction SST Production Value, (2021-2026) & (USD Million)
- Table 39. China Based Manufacturers Traction SST Production Value Market Share (2021-2026)
- Table 40. China Based Manufacturers Traction SST Production, (2021-2026) & (K Units)
- Table 41. China Based Manufacturers Traction SST Production Market Share (2021-2026)
- Table 42. Rest of World Based Traction SST Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers Traction SST Production Value, (2021-2026) & (USD Million)
- Table 44. Rest of World Based Manufacturers Traction SST Production Value Market Share (2021-2026)
- Table 45. Rest of World Based Manufacturers Traction SST Production, (2021-2026) & (K Units)
- Table 46. Rest of World Based Manufacturers Traction SST Production Market Share (2021-2026)
- Table 47. World Traction SST Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 48. World Traction SST Production by Type (2021-2026) & (K Units)
- Table 49. World Traction SST Production by Type (2027-2032) & (K Units)
- Table 50. World Traction SST Production Value by Type (2021-2026) & (USD Million)

- Table 51. World Traction SST Production Value by Type (2027-2032) & (USD Million)
- Table 52. World Traction SST Average Price by Type (2021-2026) & (US\$/Unit)
- Table 53. World Traction SST Average Price by Type (2027-2032) & (US\$/Unit)
- Table 54. World Traction SST Production Value by Voltage Level, (USD Million), 2021 & 2025 & 2032
- Table 55. World Traction SST Production by Voltage Level (2021-2026) & (K Units)
- Table 56. World Traction SST Production by Voltage Level (2027-2032) & (K Units)
- Table 57. World Traction SST Production Value by Voltage Level (2021-2026) & (USD Million)
- Table 58. World Traction SST Production Value by Voltage Level (2027-2032) & (USD Million)
- Table 59. World Traction SST Average Price by Voltage Level (2021-2026) & (US\$/Unit)
- Table 60. World Traction SST Average Price by Voltage Level (2027-2032) & (US\$/Unit)
- Table 61. World Traction SST Production Value by Cooling Method, (USD Million), 2021 & 2025 & 2032
- Table 62. World Traction SST Production by Cooling Method (2021-2026) & (K Units)
- Table 63. World Traction SST Production by Cooling Method (2027-2032) & (K Units)
- Table 64. World Traction SST Production Value by Cooling Method (2021-2026) & (USD Million)
- Table 65. World Traction SST Production Value by Cooling Method (2027-2032) & (USD Million)
- Table 66. World Traction SST Average Price by Cooling Method (2021-2026) & (US\$/Unit)
- Table 67. World Traction SST Average Price by Cooling Method (2027-2032) & (US\$/Unit)
- Table 68. World Traction SST Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 69. World Traction SST Production by Application (2021-2026) & (K Units)
- Table 70. World Traction SST Production by Application (2027-2032) & (K Units)
- Table 71. World Traction SST Production Value by Application (2021-2026) & (USD Million)
- Table 72. World Traction SST Production Value by Application (2027-2032) & (USD Million)
- Table 73. World Traction SST Average Price by Application (2021-2026) & (US\$/Unit)
- Table 74. World Traction SST Average Price by Application (2027-2032) & (US\$/Unit)
- Table 75. ABB Basic Information, Manufacturing Base and Competitors
- Table 76. ABB Major Business

- Table 77. ABB Traction SST Product and Services
- Table 78. ABB Traction SST Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 79. ABB Recent Developments/Updates
- Table 80. ABB Competitive Strengths & Weaknesses
- Table 81. Siemens Mobility Basic Information, Manufacturing Base and Competitors
- Table 82. Siemens Mobility Major Business
- Table 83. Siemens Mobility Traction SST Product and Services
- Table 84. Siemens Mobility Traction SST Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Siemens Mobility Recent Developments/Updates
- Table 86. Siemens Mobility Competitive Strengths & Weaknesses
- Table 87. Hitachi Energy Basic Information, Manufacturing Base and Competitors
- Table 88. Hitachi Energy Major Business
- Table 89. Hitachi Energy Traction SST Product and Services
- Table 90. Hitachi Energy Traction SST Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Hitachi Energy Recent Developments/Updates
- Table 92. Hitachi Energy Competitive Strengths & Weaknesses
- Table 93. Alstom Basic Information, Manufacturing Base and Competitors
- Table 94. Alstom Major Business
- Table 95. Alstom Traction SST Product and Services
- Table 96. Alstom Traction SST Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Alstom Recent Developments/Updates
- Table 98. Alstom Competitive Strengths & Weaknesses
- Table 99. Mitsubishi Electric Basic Information, Manufacturing Base and Competitors
- Table 100. Mitsubishi Electric Major Business
- Table 101. Mitsubishi Electric Traction SST Product and Services
- Table 102. Mitsubishi Electric Traction SST Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Mitsubishi Electric Recent Developments/Updates
- Table 104. Mitsubishi Electric Competitive Strengths & Weaknesses
- Table 105. Toshiba Basic Information, Manufacturing Base and Competitors
- Table 106. Toshiba Major Business
- Table 107. Toshiba Traction SST Product and Services
- Table 108. Toshiba Traction SST Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Toshiba Recent Developments/Updates

- Table 110. Toshiba Competitive Strengths & Weaknesses
- Table 111. CRRC Basic Information, Manufacturing Base and Competitors
- Table 112. CRRC Major Business
- Table 113. CRRC Traction SST Product and Services
- Table 114. CRRC Traction SST Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. CRRC Recent Developments/Updates
- Table 116. CRRC Competitive Strengths & Weaknesses
- Table 117. Schneider Electric Basic Information, Manufacturing Base and Competitors
- Table 118. Schneider Electric Major Business
- Table 119. Schneider Electric Traction SST Product and Services
- Table 120. Schneider Electric Traction SST Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Schneider Electric Recent Developments/Updates
- Table 122. Schneider Electric Competitive Strengths & Weaknesses
- Table 123. GE Grid Solutions Basic Information, Manufacturing Base and Competitors
- Table 124. GE Grid Solutions Major Business
- Table 125. GE Grid Solutions Traction SST Product and Services
- Table 126. GE Grid Solutions Traction SST Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. GE Grid Solutions Recent Developments/Updates
- Table 128. GE Grid Solutions Competitive Strengths & Weaknesses
- Table 129. Hyundai Electric Basic Information, Manufacturing Base and Competitors
- Table 130. Hyundai Electric Major Business
- Table 131. Hyundai Electric Traction SST Product and Services
- Table 132. Hyundai Electric Traction SST Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Hyundai Electric Recent Developments/Updates
- Table 134. Hyundai Electric Competitive Strengths & Weaknesses
- Table 135. Fuji Electric Basic Information, Manufacturing Base and Competitors
- Table 136. Fuji Electric Major Business
- Table 137. Fuji Electric Traction SST Product and Services
- Table 138. Fuji Electric Traction SST Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Fuji Electric Recent Developments/Updates
- Table 140. Fuji Electric Competitive Strengths & Weaknesses
- Table 141. Delta Electronics Basic Information, Manufacturing Base and Competitors
- Table 142. Delta Electronics Major Business
- Table 143. Delta Electronics Traction SST Product and Services

- Table 144. Delta Electronics Traction SST Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. Delta Electronics Recent Developments/Updates
- Table 146. Delta Electronics Competitive Strengths & Weaknesses
- Table 147. Ingeteam Basic Information, Manufacturing Base and Competitors
- Table 148. Ingeteam Major Business
- Table 149. Ingeteam Traction SST Product and Services
- Table 150. Ingeteam Traction SST Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. Ingeteam Recent Developments/Updates
- Table 152. Ingeteam Competitive Strengths & Weaknesses
- Table 153. TBEA Basic Information, Manufacturing Base and Competitors
- Table 154. TBEA Major Business
- Table 155. TBEA Traction SST Product and Services
- Table 156. TBEA Traction SST Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 157. TBEA Recent Developments/Updates
- Table 158. TBEA Competitive Strengths & Weaknesses
- Table 159. XD Group Basic Information, Manufacturing Base and Competitors
- Table 160. XD Group Major Business
- Table 161. XD Group Traction SST Product and Services
- Table 162. XD Group Traction SST Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 163. XD Group Recent Developments/Updates
- Table 164. XD Group Competitive Strengths & Weaknesses
- Table 165. Global Key Players of Traction SST Upstream (Raw Materials)
- Table 166. Global Traction SST Typical Customers
- Table 167. Traction SST Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Traction SST Picture

Figure 2. World Traction SST Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Traction SST Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Traction SST Production (2021-2032) & (K Units)

Figure 5. World Traction SST Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Traction SST Production Value Market Share by Region (2021-2032)

Figure 7. World Traction SST Production Market Share by Region (2021-2032)

Figure 8. North America Traction SST Production (2021-2032) & (K Units)

Figure 9. Europe Traction SST Production (2021-2032) & (K Units)

Figure 10. China Traction SST Production (2021-2032) & (K Units)

Figure 11. Japan Traction SST Production (2021-2032) & (K Units)

Figure 12. Traction SST Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Traction SST Consumption (2021-2032) & (K Units)

Figure 15. World Traction SST Consumption Market Share by Region (2021-2032)

Figure 16. United States Traction SST Consumption (2021-2032) & (K Units)

Figure 17. China Traction SST Consumption (2021-2032) & (K Units)

Figure 18. Europe Traction SST Consumption (2021-2032) & (K Units)

Figure 19. Japan Traction SST Consumption (2021-2032) & (K Units)

Figure 20. South Korea Traction SST Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Traction SST Consumption (2021-2032) & (K Units)

Figure 22. India Traction SST Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Traction SST by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Traction SST Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Traction SST Markets in 2025

Figure 26. United States VS China: Traction SST Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Traction SST Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Traction SST Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Traction SST Production Market Share 2025

Figure 30. China Based Manufacturers Traction SST Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Traction SST Production Market Share 2025

Figure 32. World Traction SST Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Traction SST Production Value Market Share by Type in 2025

Figure 34. Single-stage SST

Figure 35. Two-stage SST

Figure 36. Three-stage SST

Figure 37. World Traction SST Production Market Share by Type (2021-2032)

Figure 38. World Traction SST Production Value Market Share by Type (2021-2032)

Figure 39. World Traction SST Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Traction SST Production Value by Voltage Level, (USD Million), 2021 & 2025 & 2032

Figure 41. World Traction SST Production Value Market Share by Voltage Level in 2025

Figure 42. Medium Voltage SST

Figure 43. High Voltage SST

Figure 44. Ultra-high Voltage SST

Figure 45. World Traction SST Production Market Share by Voltage Level (2021-2032)

Figure 46. World Traction SST Production Value Market Share by Voltage Level (2021-2032)

Figure 47. World Traction SST Average Price by Voltage Level (2021-2032) & (US\$/Unit)

Figure 48. World Traction SST Production Value by Cooling Method, (USD Million), 2021 & 2025 & 2032

Figure 49. World Traction SST Production Value Market Share by Cooling Method in 2025

Figure 50. Air-cooled SST

Figure 51. Liquid-cooled SST

Figure 52. Hybrid Cooling SST

Figure 53. World Traction SST Production Market Share by Cooling Method (2021-2032)

Figure 54. World Traction SST Production Value Market Share by Cooling Method (2021-2032)

Figure 55. World Traction SST Average Price by Cooling Method (2021-2032) & (US\$/Unit)

Figure 56. World Traction SST Production Value by Application, (USD Million), 2021 &

2025 & 2032

Figure 57. World Traction SST Production Value Market Share by Application in 2025

Figure 58. Railway Transportation

Figure 59. Electric Transportation

Figure 60. Power Electronics

Figure 61. Other

Figure 62. World Traction SST Production Market Share by Application (2021-2032)

Figure 63. World Traction SST Production Value Market Share by Application (2021-2032)

Figure 64. World Traction SST Average Price by Application (2021-2032) & (US\$/Unit)

Figure 65. Traction SST Industry Chain

Figure 66. Traction SST Procurement Model

Figure 67. Traction SST Sales Model

Figure 68. Traction SST Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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