

Global Variable Frequency Drive Inverter Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Variable Frequency Drive Inverter market size was valued at US\$ 1637 million in 2025 and is forecast to a readjusted size of US\$ 2522 million by 2032 with a CAGR of 6.3% during review period.

In 2025, global production capacity of variable frequency drive (VFD) inverters reaches approximately 860,000 units, with actual production around 590,000 units. The average selling price in the industrial segment is about US\$ 1,850 per unit, depending on voltage class (380V, 690V, MV), power rating, and control architecture (scalar, vector, DTC). Gross margins typically range from 24% to 41%, influenced by IGBT module cost, control board complexity, and application customization. A Variable Frequency Drive (VFD) inverter is a power electronic system that converts fixed-frequency AC input into variable-frequency, variable-voltage AC output to control the speed and torque of electric motors. It typically consists of a rectifier stage, DC link, inverter bridge, and digital control unit (DSP/MCU-based).

Upstream includes power semiconductors (IGBT, SiC MOSFET), DC-link capacitors, magnetic components, control chips, and thermal management modules. Midstream involves inverter assembly, firmware development, and system-level EMC optimization. Downstream applications include HVAC systems, industrial pumps, conveyors, elevators, compressors, robotics, and renewable energy systems.

The VFD inverter market is driven by industrial automation, energy efficiency mandates, and electrification trends. Motor-driven systems account for a significant portion of global electricity consumption, making VFD deployment a key strategy for carbon reduction.

Adoption of SiC-based inverter platforms is accelerating in medium-voltage and high-efficiency segments. Advanced control methods such as Field-Oriented Control (FOC) and Direct Torque Control (DTC) enable higher precision and dynamic response, especially in robotics and precision manufacturing.

Integration with Industrial IoT platforms and predictive maintenance analytics is becoming standard. Although price competition remains intense in low-voltage segments, differentiation increasingly depends on efficiency, reliability, and digital integration capability.

This report is a detailed and comprehensive analysis for global Variable Frequency Drive Inverter market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Variable Frequency Drive Inverter market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Variable Frequency Drive Inverter market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Variable Frequency Drive Inverter market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Variable Frequency Drive Inverter market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Variable Frequency Drive Inverter
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

This report profiles key players in the global Variable Frequency Drive Inverter market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Siemens, ABB, Schneider Electric, Mitsubishi Electric, Yaskawa Electric, Rockwell Automation, Hitachi, Fuji Electric, Toshiba, Panasonic, etc.

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

Market Segmentation

Variable Frequency Drive Inverter market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Low-voltage (220 V–690 V)

Medium-voltage (1 kV–10 kV)

High-voltage (>10 kV)

Market segment by Power Range

Micro (75 kW)

Market segment by Application

HVAC

Industrial Pumps

Transport Systems

Elevators

Compressors

Others

Major players covered

Siemens

ABB

Schneider Electric

Mitsubishi Electric

Yaskawa Electric

Rockwell Automation

Hitachi

Fuji Electric

Toshiba

Panasonic

Danfoss

Lenze

SEW?EURODRIVE

Kollmorgen

Inovance Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Variable Frequency Drive Inverter product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Variable Frequency Drive Inverter, with price, sales quantity, revenue, and global market share of Variable Frequency Drive Inverter from 2021 to 2026.

Chapter 3, the Variable Frequency Drive Inverter competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Variable Frequency Drive Inverter breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Variable Frequency Drive Inverter market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Variable Frequency Drive Inverter.

Chapter 14 and 15, to describe Variable Frequency Drive Inverter sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

- 1.1 Product Overview and Scope
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
 - 1.3.1 Overview: Global Variable Frequency Drive Inverter Consumption Value by Type: 2021 Versus 2025 Versus 2032
 - 1.3.2 Low-voltage (220 V–690 V)
 - 1.3.3 Medium-voltage (1 kV–10 kV)
 - 1.3.4 High-voltage (>10 kV)
- 1.4 Market Analysis by Power Range
 - 1.4.1 Overview: Global Variable Frequency Drive Inverter Consumption Value by Power Range: 2021 Versus 2025 Versus 2032
 - 1.4.2 Micro (75 kW)
- 1.5 Market Analysis by Application
 - 1.5.1 Overview: Global Variable Frequency Drive Inverter Consumption Value by Application: 2021 Versus 2025 Versus 2032
 - 1.5.2 HVAC
 - 1.5.3 Industrial Pumps
 - 1.5.4 Transport Systems
 - 1.5.5 Elevators
 - 1.5.6 Compressors
 - 1.5.7 Others
- 1.6 Global Variable Frequency Drive Inverter Market Size & Forecast
 - 1.6.1 Global Variable Frequency Drive Inverter Consumption Value (2021 & 2025 & 2032)
 - 1.6.2 Global Variable Frequency Drive Inverter Sales Quantity (2021-2032)
 - 1.6.3 Global Variable Frequency Drive Inverter Average Price (2021-2032)

2 MANUFACTURERS PROFILES

- 2.1 Siemens
 - 2.1.1 Siemens Details
 - 2.1.2 Siemens Major Business
 - 2.1.3 Siemens Variable Frequency Drive Inverter Product and Services
 - 2.1.4 Siemens Variable Frequency Drive Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.1.5 Siemens Recent Developments/Updates
- 2.2 ABB
 - 2.2.1 ABB Details
 - 2.2.2 ABB Major Business
 - 2.2.3 ABB Variable Frequency Drive Inverter Product and Services
 - 2.2.4 ABB Variable Frequency Drive Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 ABB Recent Developments/Updates
- 2.3 Schneider Electric
 - 2.3.1 Schneider Electric Details
 - 2.3.2 Schneider Electric Major Business
 - 2.3.3 Schneider Electric Variable Frequency Drive Inverter Product and Services
 - 2.3.4 Schneider Electric Variable Frequency Drive Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Schneider Electric Recent Developments/Updates
- 2.4 Mitsubishi Electric
 - 2.4.1 Mitsubishi Electric Details
 - 2.4.2 Mitsubishi Electric Major Business
 - 2.4.3 Mitsubishi Electric Variable Frequency Drive Inverter Product and Services
 - 2.4.4 Mitsubishi Electric Variable Frequency Drive Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Mitsubishi Electric Recent Developments/Updates
- 2.5 Yaskawa Electric
 - 2.5.1 Yaskawa Electric Details
 - 2.5.2 Yaskawa Electric Major Business
 - 2.5.3 Yaskawa Electric Variable Frequency Drive Inverter Product and Services
 - 2.5.4 Yaskawa Electric Variable Frequency Drive Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 Yaskawa Electric Recent Developments/Updates
- 2.6 Rockwell Automation
 - 2.6.1 Rockwell Automation Details
 - 2.6.2 Rockwell Automation Major Business
 - 2.6.3 Rockwell Automation Variable Frequency Drive Inverter Product and Services
 - 2.6.4 Rockwell Automation Variable Frequency Drive Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 Rockwell Automation Recent Developments/Updates
- 2.7 Hitachi
 - 2.7.1 Hitachi Details
 - 2.7.2 Hitachi Major Business

- 2.7.3 Hitachi Variable Frequency Drive Inverter Product and Services
- 2.7.4 Hitachi Variable Frequency Drive Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.7.5 Hitachi Recent Developments/Updates
- 2.8 Fuji Electric
 - 2.8.1 Fuji Electric Details
 - 2.8.2 Fuji Electric Major Business
 - 2.8.3 Fuji Electric Variable Frequency Drive Inverter Product and Services
 - 2.8.4 Fuji Electric Variable Frequency Drive Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Fuji Electric Recent Developments/Updates
- 2.9 Toshiba
 - 2.9.1 Toshiba Details
 - 2.9.2 Toshiba Major Business
 - 2.9.3 Toshiba Variable Frequency Drive Inverter Product and Services
 - 2.9.4 Toshiba Variable Frequency Drive Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Toshiba Recent Developments/Updates
- 2.10 Panasonic
 - 2.10.1 Panasonic Details
 - 2.10.2 Panasonic Major Business
 - 2.10.3 Panasonic Variable Frequency Drive Inverter Product and Services
 - 2.10.4 Panasonic Variable Frequency Drive Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 Panasonic Recent Developments/Updates
- 2.11 Danfoss
 - 2.11.1 Danfoss Details
 - 2.11.2 Danfoss Major Business
 - 2.11.3 Danfoss Variable Frequency Drive Inverter Product and Services
 - 2.11.4 Danfoss Variable Frequency Drive Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.11.5 Danfoss Recent Developments/Updates
- 2.12 Lenze
 - 2.12.1 Lenze Details
 - 2.12.2 Lenze Major Business
 - 2.12.3 Lenze Variable Frequency Drive Inverter Product and Services
 - 2.12.4 Lenze Variable Frequency Drive Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.12.5 Lenze Recent Developments/Updates

2.13 SEW?EURODRIVE

2.13.1 SEW?EURODRIVE Details

2.13.2 SEW?EURODRIVE Major Business

2.13.3 SEW?EURODRIVE Variable Frequency Drive Inverter Product and Services

2.13.4 SEW?EURODRIVE Variable Frequency Drive Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 SEW?EURODRIVE Recent Developments/Updates

2.14 Kollmorgen

2.14.1 Kollmorgen Details

2.14.2 Kollmorgen Major Business

2.14.3 Kollmorgen Variable Frequency Drive Inverter Product and Services

2.14.4 Kollmorgen Variable Frequency Drive Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 Kollmorgen Recent Developments/Updates

2.15 Inovance Technology

2.15.1 Inovance Technology Details

2.15.2 Inovance Technology Major Business

2.15.3 Inovance Technology Variable Frequency Drive Inverter Product and Services

2.15.4 Inovance Technology Variable Frequency Drive Inverter Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.15.5 Inovance Technology Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: VARIABLE FREQUENCY DRIVE INVERTER BY MANUFACTURER

3.1 Global Variable Frequency Drive Inverter Sales Quantity by Manufacturer (2021-2026)

3.2 Global Variable Frequency Drive Inverter Revenue by Manufacturer (2021-2026)

3.3 Global Variable Frequency Drive Inverter Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Variable Frequency Drive Inverter by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Variable Frequency Drive Inverter Manufacturer Market Share in 2025

3.4.3 Top 6 Variable Frequency Drive Inverter Manufacturer Market Share in 2025

3.5 Variable Frequency Drive Inverter Market: Overall Company Footprint Analysis

3.5.1 Variable Frequency Drive Inverter Market: Region Footprint

3.5.2 Variable Frequency Drive Inverter Market: Company Product Type Footprint

3.5.3 Variable Frequency Drive Inverter Market: Company Product Application

Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Variable Frequency Drive Inverter Market Size by Region

4.1.1 Global Variable Frequency Drive Inverter Sales Quantity by Region (2021-2032)

4.1.2 Global Variable Frequency Drive Inverter Consumption Value by Region
(2021-2032)

4.1.3 Global Variable Frequency Drive Inverter Average Price by Region (2021-2032)

4.2 North America Variable Frequency Drive Inverter Consumption Value (2021-2032)

4.3 Europe Variable Frequency Drive Inverter Consumption Value (2021-2032)

4.4 Asia-Pacific Variable Frequency Drive Inverter Consumption Value (2021-2032)

4.5 South America Variable Frequency Drive Inverter Consumption Value (2021-2032)

4.6 Middle East & Africa Variable Frequency Drive Inverter Consumption Value
(2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Variable Frequency Drive Inverter Sales Quantity by Type (2021-2032)

5.2 Global Variable Frequency Drive Inverter Consumption Value by Type (2021-2032)

5.3 Global Variable Frequency Drive Inverter Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Variable Frequency Drive Inverter Sales Quantity by Application (2021-2032)

6.2 Global Variable Frequency Drive Inverter Consumption Value by Application
(2021-2032)

6.3 Global Variable Frequency Drive Inverter Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Variable Frequency Drive Inverter Sales Quantity by Type
(2021-2032)

7.2 North America Variable Frequency Drive Inverter Sales Quantity by Application
(2021-2032)

7.3 North America Variable Frequency Drive Inverter Market Size by Country

7.3.1 North America Variable Frequency Drive Inverter Sales Quantity by Country

(2021-2032)

7.3.2 North America Variable Frequency Drive Inverter Consumption Value by Country

(2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Variable Frequency Drive Inverter Sales Quantity by Type (2021-2032)

8.2 Europe Variable Frequency Drive Inverter Sales Quantity by Application

(2021-2032)

8.3 Europe Variable Frequency Drive Inverter Market Size by Country

8.3.1 Europe Variable Frequency Drive Inverter Sales Quantity by Country

(2021-2032)

8.3.2 Europe Variable Frequency Drive Inverter Consumption Value by Country

(2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Variable Frequency Drive Inverter Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Variable Frequency Drive Inverter Sales Quantity by Application

(2021-2032)

9.3 Asia-Pacific Variable Frequency Drive Inverter Market Size by Region

9.3.1 Asia-Pacific Variable Frequency Drive Inverter Sales Quantity by Region

(2021-2032)

9.3.2 Asia-Pacific Variable Frequency Drive Inverter Consumption Value by Region

(2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Variable Frequency Drive Inverter Sales Quantity by Type (2021-2032)

10.2 South America Variable Frequency Drive Inverter Sales Quantity by Application (2021-2032)

10.3 South America Variable Frequency Drive Inverter Market Size by Country

10.3.1 South America Variable Frequency Drive Inverter Sales Quantity by Country (2021-2032)

10.3.2 South America Variable Frequency Drive Inverter Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Variable Frequency Drive Inverter Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Variable Frequency Drive Inverter Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Variable Frequency Drive Inverter Market Size by Country

11.3.1 Middle East & Africa Variable Frequency Drive Inverter Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Variable Frequency Drive Inverter Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Variable Frequency Drive Inverter Market Drivers

12.2 Variable Frequency Drive Inverter Market Restraints

12.3 Variable Frequency Drive Inverter Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Variable Frequency Drive Inverter and Key Manufacturers

13.2 Manufacturing Costs Percentage of Variable Frequency Drive Inverter

13.3 Variable Frequency Drive Inverter Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Variable Frequency Drive Inverter Typical Distributors

14.3 Variable Frequency Drive Inverter Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global Variable Frequency Drive Inverter Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 2. Global Variable Frequency Drive Inverter Consumption Value by Power Range, (USD Million), 2021 & 2025 & 2032
- Table 3. Global Variable Frequency Drive Inverter Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 4. Siemens Basic Information, Manufacturing Base and Competitors
- Table 5. Siemens Major Business
- Table 6. Siemens Variable Frequency Drive Inverter Product and Services
- Table 7. Siemens Variable Frequency Drive Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 8. Siemens Recent Developments/Updates
- Table 9. ABB Basic Information, Manufacturing Base and Competitors
- Table 10. ABB Major Business
- Table 11. ABB Variable Frequency Drive Inverter Product and Services
- Table 12. ABB Variable Frequency Drive Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 13. ABB Recent Developments/Updates
- Table 14. Schneider Electric Basic Information, Manufacturing Base and Competitors
- Table 15. Schneider Electric Major Business
- Table 16. Schneider Electric Variable Frequency Drive Inverter Product and Services
- Table 17. Schneider Electric Variable Frequency Drive Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 18. Schneider Electric Recent Developments/Updates
- Table 19. Mitsubishi Electric Basic Information, Manufacturing Base and Competitors
- Table 20. Mitsubishi Electric Major Business
- Table 21. Mitsubishi Electric Variable Frequency Drive Inverter Product and Services
- Table 22. Mitsubishi Electric Variable Frequency Drive Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 23. Mitsubishi Electric Recent Developments/Updates
- Table 24. Yaskawa Electric Basic Information, Manufacturing Base and Competitors
- Table 25. Yaskawa Electric Major Business
- Table 26. Yaskawa Electric Variable Frequency Drive Inverter Product and Services

Table 27. Yaskawa Electric Variable Frequency Drive Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 28. Yaskawa Electric Recent Developments/Updates

Table 29. Rockwell Automation Basic Information, Manufacturing Base and Competitors

Table 30. Rockwell Automation Major Business

Table 31. Rockwell Automation Variable Frequency Drive Inverter Product and Services

Table 32. Rockwell Automation Variable Frequency Drive Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 33. Rockwell Automation Recent Developments/Updates

Table 34. Hitachi Basic Information, Manufacturing Base and Competitors

Table 35. Hitachi Major Business

Table 36. Hitachi Variable Frequency Drive Inverter Product and Services

Table 37. Hitachi Variable Frequency Drive Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 38. Hitachi Recent Developments/Updates

Table 39. Fuji Electric Basic Information, Manufacturing Base and Competitors

Table 40. Fuji Electric Major Business

Table 41. Fuji Electric Variable Frequency Drive Inverter Product and Services

Table 42. Fuji Electric Variable Frequency Drive Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 43. Fuji Electric Recent Developments/Updates

Table 44. Toshiba Basic Information, Manufacturing Base and Competitors

Table 45. Toshiba Major Business

Table 46. Toshiba Variable Frequency Drive Inverter Product and Services

Table 47. Toshiba Variable Frequency Drive Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 48. Toshiba Recent Developments/Updates

Table 49. Panasonic Basic Information, Manufacturing Base and Competitors

Table 50. Panasonic Major Business

Table 51. Panasonic Variable Frequency Drive Inverter Product and Services

Table 52. Panasonic Variable Frequency Drive Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 53. Panasonic Recent Developments/Updates

Table 54. Danfoss Basic Information, Manufacturing Base and Competitors

Table 55. Danfoss Major Business

- Table 56. Danfoss Variable Frequency Drive Inverter Product and Services
- Table 57. Danfoss Variable Frequency Drive Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 58. Danfoss Recent Developments/Updates
- Table 59. Lenze Basic Information, Manufacturing Base and Competitors
- Table 60. Lenze Major Business
- Table 61. Lenze Variable Frequency Drive Inverter Product and Services
- Table 62. Lenze Variable Frequency Drive Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 63. Lenze Recent Developments/Updates
- Table 64. SEW?EURODRIVE Basic Information, Manufacturing Base and Competitors
- Table 65. SEW?EURODRIVE Major Business
- Table 66. SEW?EURODRIVE Variable Frequency Drive Inverter Product and Services
- Table 67. SEW?EURODRIVE Variable Frequency Drive Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 68. SEW?EURODRIVE Recent Developments/Updates
- Table 69. Kollmorgen Basic Information, Manufacturing Base and Competitors
- Table 70. Kollmorgen Major Business
- Table 71. Kollmorgen Variable Frequency Drive Inverter Product and Services
- Table 72. Kollmorgen Variable Frequency Drive Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 73. Kollmorgen Recent Developments/Updates
- Table 74. Inovance Technology Basic Information, Manufacturing Base and Competitors
- Table 75. Inovance Technology Major Business
- Table 76. Inovance Technology Variable Frequency Drive Inverter Product and Services
- Table 77. Inovance Technology Variable Frequency Drive Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 78. Inovance Technology Recent Developments/Updates
- Table 79. Global Variable Frequency Drive Inverter Sales Quantity by Manufacturer (2021-2026) & (K Units)
- Table 80. Global Variable Frequency Drive Inverter Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 81. Global Variable Frequency Drive Inverter Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 82. Market Position of Manufacturers in Variable Frequency Drive Inverter, (Tier

1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 83. Head Office and Variable Frequency Drive Inverter Production Site of Key Manufacturer

Table 84. Variable Frequency Drive Inverter Market: Company Product Type Footprint

Table 85. Variable Frequency Drive Inverter Market: Company Product Application Footprint

Table 86. Variable Frequency Drive Inverter New Market Entrants and Barriers to Market Entry

Table 87. Variable Frequency Drive Inverter Mergers, Acquisition, Agreements, and Collaborations

Table 88. Global Variable Frequency Drive Inverter Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 89. Global Variable Frequency Drive Inverter Sales Quantity by Region (2021-2026) & (K Units)

Table 90. Global Variable Frequency Drive Inverter Sales Quantity by Region (2027-2032) & (K Units)

Table 91. Global Variable Frequency Drive Inverter Consumption Value by Region (2021-2026) & (USD Million)

Table 92. Global Variable Frequency Drive Inverter Consumption Value by Region (2027-2032) & (USD Million)

Table 93. Global Variable Frequency Drive Inverter Average Price by Region (2021-2026) & (US\$/Unit)

Table 94. Global Variable Frequency Drive Inverter Average Price by Region (2027-2032) & (US\$/Unit)

Table 95. Global Variable Frequency Drive Inverter Sales Quantity by Type (2021-2026) & (K Units)

Table 96. Global Variable Frequency Drive Inverter Sales Quantity by Type (2027-2032) & (K Units)

Table 97. Global Variable Frequency Drive Inverter Consumption Value by Type (2021-2026) & (USD Million)

Table 98. Global Variable Frequency Drive Inverter Consumption Value by Type (2027-2032) & (USD Million)

Table 99. Global Variable Frequency Drive Inverter Average Price by Type (2021-2026) & (US\$/Unit)

Table 100. Global Variable Frequency Drive Inverter Average Price by Type (2027-2032) & (US\$/Unit)

Table 101. Global Variable Frequency Drive Inverter Sales Quantity by Application (2021-2026) & (K Units)

Table 102. Global Variable Frequency Drive Inverter Sales Quantity by Application

(2027-2032) & (K Units)

Table 103. Global Variable Frequency Drive Inverter Consumption Value by Application (2021-2026) & (USD Million)

Table 104. Global Variable Frequency Drive Inverter Consumption Value by Application (2027-2032) & (USD Million)

Table 105. Global Variable Frequency Drive Inverter Average Price by Application (2021-2026) & (US\$/Unit)

Table 106. Global Variable Frequency Drive Inverter Average Price by Application (2027-2032) & (US\$/Unit)

Table 107. North America Variable Frequency Drive Inverter Sales Quantity by Type (2021-2026) & (K Units)

Table 108. North America Variable Frequency Drive Inverter Sales Quantity by Type (2027-2032) & (K Units)

Table 109. North America Variable Frequency Drive Inverter Sales Quantity by Application (2021-2026) & (K Units)

Table 110. North America Variable Frequency Drive Inverter Sales Quantity by Application (2027-2032) & (K Units)

Table 111. North America Variable Frequency Drive Inverter Sales Quantity by Country (2021-2026) & (K Units)

Table 112. North America Variable Frequency Drive Inverter Sales Quantity by Country (2027-2032) & (K Units)

Table 113. North America Variable Frequency Drive Inverter Consumption Value by Country (2021-2026) & (USD Million)

Table 114. North America Variable Frequency Drive Inverter Consumption Value by Country (2027-2032) & (USD Million)

Table 115. Europe Variable Frequency Drive Inverter Sales Quantity by Type (2021-2026) & (K Units)

Table 116. Europe Variable Frequency Drive Inverter Sales Quantity by Type (2027-2032) & (K Units)

Table 117. Europe Variable Frequency Drive Inverter Sales Quantity by Application (2021-2026) & (K Units)

Table 118. Europe Variable Frequency Drive Inverter Sales Quantity by Application (2027-2032) & (K Units)

Table 119. Europe Variable Frequency Drive Inverter Sales Quantity by Country (2021-2026) & (K Units)

Table 120. Europe Variable Frequency Drive Inverter Sales Quantity by Country (2027-2032) & (K Units)

Table 121. Europe Variable Frequency Drive Inverter Consumption Value by Country (2021-2026) & (USD Million)

Table 122. Europe Variable Frequency Drive Inverter Consumption Value by Country (2027-2032) & (USD Million)

Table 123. Asia-Pacific Variable Frequency Drive Inverter Sales Quantity by Type (2021-2026) & (K Units)

Table 124. Asia-Pacific Variable Frequency Drive Inverter Sales Quantity by Type (2027-2032) & (K Units)

Table 125. Asia-Pacific Variable Frequency Drive Inverter Sales Quantity by Application (2021-2026) & (K Units)

Table 126. Asia-Pacific Variable Frequency Drive Inverter Sales Quantity by Application (2027-2032) & (K Units)

Table 127. Asia-Pacific Variable Frequency Drive Inverter Sales Quantity by Region (2021-2026) & (K Units)

Table 128. Asia-Pacific Variable Frequency Drive Inverter Sales Quantity by Region (2027-2032) & (K Units)

Table 129. Asia-Pacific Variable Frequency Drive Inverter Consumption Value by Region (2021-2026) & (USD Million)

Table 130. Asia-Pacific Variable Frequency Drive Inverter Consumption Value by Region (2027-2032) & (USD Million)

Table 131. South America Variable Frequency Drive Inverter Sales Quantity by Type (2021-2026) & (K Units)

Table 132. South America Variable Frequency Drive Inverter Sales Quantity by Type (2027-2032) & (K Units)

Table 133. South America Variable Frequency Drive Inverter Sales Quantity by Application (2021-2026) & (K Units)

Table 134. South America Variable Frequency Drive Inverter Sales Quantity by Application (2027-2032) & (K Units)

Table 135. South America Variable Frequency Drive Inverter Sales Quantity by Country (2021-2026) & (K Units)

Table 136. South America Variable Frequency Drive Inverter Sales Quantity by Country (2027-2032) & (K Units)

Table 137. South America Variable Frequency Drive Inverter Consumption Value by Country (2021-2026) & (USD Million)

Table 138. South America Variable Frequency Drive Inverter Consumption Value by Country (2027-2032) & (USD Million)

Table 139. Middle East & Africa Variable Frequency Drive Inverter Sales Quantity by Type (2021-2026) & (K Units)

Table 140. Middle East & Africa Variable Frequency Drive Inverter Sales Quantity by Type (2027-2032) & (K Units)

Table 141. Middle East & Africa Variable Frequency Drive Inverter Sales Quantity by

Application (2021-2026) & (K Units)

Table 142. Middle East & Africa Variable Frequency Drive Inverter Sales Quantity by Application (2027-2032) & (K Units)

Table 143. Middle East & Africa Variable Frequency Drive Inverter Sales Quantity by Country (2021-2026) & (K Units)

Table 144. Middle East & Africa Variable Frequency Drive Inverter Sales Quantity by Country (2027-2032) & (K Units)

Table 145. Middle East & Africa Variable Frequency Drive Inverter Consumption Value by Country (2021-2026) & (USD Million)

Table 146. Middle East & Africa Variable Frequency Drive Inverter Consumption Value by Country (2027-2032) & (USD Million)

Table 147. Variable Frequency Drive Inverter Raw Material

Table 148. Key Manufacturers of Variable Frequency Drive Inverter Raw Materials

Table 149. Variable Frequency Drive Inverter Typical Distributors

Table 150. Variable Frequency Drive Inverter Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Variable Frequency Drive Inverter Picture

Figure 2. Global Variable Frequency Drive Inverter Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Variable Frequency Drive Inverter Revenue Market Share by Type in 2025

Figure 4. Low-voltage (220 V–690 V) Examples

Figure 5. Medium-voltage (1 kV–10 kV) Examples

Figure 6. High-voltage (>10 kV) Examples

Figure 7. Global Variable Frequency Drive Inverter Revenue by Power Range, (USD Million), 2021 & 2025 & 2032

Figure 8. Global Variable Frequency Drive Inverter Revenue Market Share by Power Range in 2025

Figure 9. Micro (75 kW) Examples

Figure 13. Global Variable Frequency Drive Inverter Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 14. Global Variable Frequency Drive Inverter Revenue Market Share by Application in 2025

Figure 15. HVAC Examples

Figure 16. Industrial Pumps Examples

Figure 17. Transport Systems Examples

Figure 18. Elevators Examples

Figure 19. Compressors Examples

Figure 20. Others Examples

Figure 21. Global Variable Frequency Drive Inverter Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 22. Global Variable Frequency Drive Inverter Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 23. Global Variable Frequency Drive Inverter Sales Quantity (2021-2032) & (K Units)

Figure 24. Global Variable Frequency Drive Inverter Price (2021-2032) & (US\$/Unit)

Figure 25. Global Variable Frequency Drive Inverter Sales Quantity Market Share by Manufacturer in 2025

Figure 26. Global Variable Frequency Drive Inverter Revenue Market Share by Manufacturer in 2025

Figure 27. Producer Shipments of Variable Frequency Drive Inverter by Manufacturer

Sales (\$MM) and Market Share (%): 2025

Figure 28. Top 3 Variable Frequency Drive Inverter Manufacturer (Revenue) Market Share in 2025

Figure 29. Top 6 Variable Frequency Drive Inverter Manufacturer (Revenue) Market Share in 2025

Figure 30. Global Variable Frequency Drive Inverter Sales Quantity Market Share by Region (2021-2032)

Figure 31. Global Variable Frequency Drive Inverter Consumption Value Market Share by Region (2021-2032)

Figure 32. North America Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 33. Europe Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 34. Asia-Pacific Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 35. South America Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 36. Middle East & Africa Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 37. Global Variable Frequency Drive Inverter Sales Quantity Market Share by Type (2021-2032)

Figure 38. Global Variable Frequency Drive Inverter Consumption Value Market Share by Type (2021-2032)

Figure 39. Global Variable Frequency Drive Inverter Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. Global Variable Frequency Drive Inverter Sales Quantity Market Share by Application (2021-2032)

Figure 41. Global Variable Frequency Drive Inverter Revenue Market Share by Application (2021-2032)

Figure 42. Global Variable Frequency Drive Inverter Average Price by Application (2021-2032) & (US\$/Unit)

Figure 43. North America Variable Frequency Drive Inverter Sales Quantity Market Share by Type (2021-2032)

Figure 44. North America Variable Frequency Drive Inverter Sales Quantity Market Share by Application (2021-2032)

Figure 45. North America Variable Frequency Drive Inverter Sales Quantity Market Share by Country (2021-2032)

Figure 46. North America Variable Frequency Drive Inverter Consumption Value Market Share by Country (2021-2032)

Figure 47. United States Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 48. Canada Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 49. Mexico Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 50. Europe Variable Frequency Drive Inverter Sales Quantity Market Share by Type (2021-2032)

Figure 51. Europe Variable Frequency Drive Inverter Sales Quantity Market Share by Application (2021-2032)

Figure 52. Europe Variable Frequency Drive Inverter Sales Quantity Market Share by Country (2021-2032)

Figure 53. Europe Variable Frequency Drive Inverter Consumption Value Market Share by Country (2021-2032)

Figure 54. Germany Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 55. France Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 56. United Kingdom Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 57. Russia Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 58. Italy Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 59. Asia-Pacific Variable Frequency Drive Inverter Sales Quantity Market Share by Type (2021-2032)

Figure 60. Asia-Pacific Variable Frequency Drive Inverter Sales Quantity Market Share by Application (2021-2032)

Figure 61. Asia-Pacific Variable Frequency Drive Inverter Sales Quantity Market Share by Region (2021-2032)

Figure 62. Asia-Pacific Variable Frequency Drive Inverter Consumption Value Market Share by Region (2021-2032)

Figure 63. China Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 64. Japan Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 65. South Korea Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 66. India Variable Frequency Drive Inverter Consumption Value (2021-2032) &

(USD Million)

Figure 67. Southeast Asia Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 68. Australia Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 69. South America Variable Frequency Drive Inverter Sales Quantity Market Share by Type (2021-2032)

Figure 70. South America Variable Frequency Drive Inverter Sales Quantity Market Share by Application (2021-2032)

Figure 71. South America Variable Frequency Drive Inverter Sales Quantity Market Share by Country (2021-2032)

Figure 72. South America Variable Frequency Drive Inverter Consumption Value Market Share by Country (2021-2032)

Figure 73. Brazil Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 74. Argentina Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 75. Middle East & Africa Variable Frequency Drive Inverter Sales Quantity Market Share by Type (2021-2032)

Figure 76. Middle East & Africa Variable Frequency Drive Inverter Sales Quantity Market Share by Application (2021-2032)

Figure 77. Middle East & Africa Variable Frequency Drive Inverter Sales Quantity Market Share by Country (2021-2032)

Figure 78. Middle East & Africa Variable Frequency Drive Inverter Consumption Value Market Share by Country (2021-2032)

Figure 79. Turkey Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 80. Egypt Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 81. Saudi Arabia Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 82. South Africa Variable Frequency Drive Inverter Consumption Value (2021-2032) & (USD Million)

Figure 83. Variable Frequency Drive Inverter Market Drivers

Figure 84. Variable Frequency Drive Inverter Market Restraints

Figure 85. Variable Frequency Drive Inverter Market Trends

Figure 86. Porters Five Forces Analysis

Figure 87. Manufacturing Cost Structure Analysis of Variable Frequency Drive Inverter in 2025

Figure 88. Manufacturing Process Analysis of Variable Frequency Drive Inverter

Figure 89. Variable Frequency Drive Inverter Industrial Chain

Figure 90. Sales Channel: Direct to End-User vs Distributors

Figure 91. Direct Channel Pros & Cons

Figure 92. Indirect Channel Pros & Cons

Figure 93. Methodology

Figure 94. Research Process and Data Source

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