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Global N-Channel Power MOSFET Market Growth 2025-2031

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Abstracts

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The global Mechanical Quantity Sensor market size is predicted to grow from US$ 3081 million in 2025 to US$ 4223 million in 2031; it is expected to grow at a CAGR of 5.4% from 2025 to 2031.

A mechanical quantity sensor is a sensor that can sense mechanical quantities and convert them into usable output signals. It uses materials or structures that are sensitive to mechanical quantities to form sensor sensitive elements, and converts mechanical quantity parameters such as force, torque, pressure, tension, stress, strain, acceleration, angular velocity, vibration, angular vibration, and rotation speed into electrical quantities. It belongs to a physical quantity sensor.

Mechanical quantity sensors are widely utilized across various fields, including industrial control, consumer electronics, automotive, transportation, robot, aerospace etc. These sensors measure parameters such as pressure, force, displacement, and vibration to monitor equipment performance, enhance safety, and ensure precision in mechanical systems.

LP Information, Inc. (LPI) ' newest research report, the “Mechanical Quantity Sensor Industry Forecast” looks at past sales and reviews total world Mechanical Quantity Sensor sales in 2024, providing a comprehensive analysis by region and market sector of projected Mechanical Quantity Sensor sales for 2025 through 2031. With Mechanical Quantity Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Mechanical Quantity Sensor industry.

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This Insight Report provides a comprehensive analysis of the global Mechanical Quantity Sensor 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 Mechanical Quantity Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Mechanical Quantity Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Mechanical Quantity Sensor 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 Mechanical Quantity Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of Mechanical Quantity Sensor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Strain Gauge Type

Piezoresistive Type

Piezoelectric Type

Capacitive Type

Others

Segmentation by Application:

Industrial Control

Automobile

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- Consumer Electronics
- Transportation
- Medical
- Robot
- Equipment Manufacturing
- New Energy
- Semiconductor
- Aerospace
- Others

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea

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- 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 analysing the company's coverage, product portfolio, its market penetration.

- Sensata Technologies
- Kistler

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WIKA

TE Connectivity

Amphenol

MinebeaMitsumi

Nissha

Honeywell

Vishay Precision Group (VPG)

Novanta

Panasonic

HBK (Spectris)

Flintec

Futek

Tekscan

Keli Sensing Technology (Ningbo)

ZEMIC

Memsensing Microsystems

Key Questions Addressed in this Report

What is the 10-year outlook for the global Mechanical Quantity Sensor market?

What factors are driving Mechanical Quantity Sensor market growth, globally and by region?

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

How do Mechanical Quantity Sensor market opportunities vary by end market size?

How does Mechanical Quantity Sensor break out by Type, by Application?

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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 N-Channel Power MOSFET Annual Sales 2020-2031
  2.1.2 World Current & Future Analysis for N-Channel Power MOSFET by Geographic Region, 2020, 2024 & 2031
  2.1.3 World Current & Future Analysis for N-Channel Power MOSFET by Country/Region, 2020, 2024 & 2031
2.2 N-Channel Power MOSFET Segment by Type
  2.2.1 N-channel Enhancement Mode MOSFET
  2.2.2 N-channel Depletion Mode MOSFET
2.3 N-Channel Power MOSFET Sales by Type
  2.3.1 Global N-Channel Power MOSFET Sales Market Share by Type (2020-2025)
  2.3.2 Global N-Channel Power MOSFET Revenue and Market Share by Type (2020-2025)
  2.3.3 Global N-Channel Power MOSFET Sale Price by Type (2020-2025)
2.4 N-Channel Power MOSFET Segment by Application
  2.4.1 Automotive Electronics
  2.4.2 Power Management
  2.4.3 Industrial Control
  2.4.4 Consumer Electronics
2.5 N-Channel Power MOSFET Sales by Application
  2.5.1 Global N-Channel Power MOSFET Sale Market Share by Application (2020-2025)
  2.5.2 Global N-Channel Power MOSFET Revenue and Market Share by Application (2020-2025)

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2.5.3 Global N-Channel Power MOSFET Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global N-Channel Power MOSFET Breakdown Data by Company
3.1.1 Global N-Channel Power MOSFET Annual Sales by Company (2020-2025)
3.1.2 Global N-Channel Power MOSFET Sales Market Share by Company (2020-2025)
3.2 Global N-Channel Power MOSFET Annual Revenue by Company (2020-2025)
3.2.1 Global N-Channel Power MOSFET Revenue by Company (2020-2025)
3.2.2 Global N-Channel Power MOSFET Revenue Market Share by Company (2020-2025)
3.3 Global N-Channel Power MOSFET Sale Price by Company
3.4 Key Manufacturers N-Channel Power MOSFET Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers N-Channel Power MOSFET Product Location Distribution
3.4.2 Players N-Channel Power MOSFET Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR N-CHANNEL POWER MOSFET BY GEOGRAPHIC REGION

4.1 World Historic N-Channel Power MOSFET Market Size by Geographic Region (2020-2025)
4.1.1 Global N-Channel Power MOSFET Annual Sales by Geographic Region (2020-2025)
4.1.2 Global N-Channel Power MOSFET Annual Revenue by Geographic Region (2020-2025)
4.2 World Historic N-Channel Power MOSFET Market Size by Country/Region (2020-2025)
4.2.1 Global N-Channel Power MOSFET Annual Sales by Country/Region (2020-2025)
4.2.2 Global N-Channel Power MOSFET Annual Revenue by Country/Region (2020-2025)
4.3 Americas N-Channel Power MOSFET Sales Growth

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4.4 APAC N-Channel Power MOSFET Sales Growth
4.5 Europe N-Channel Power MOSFET Sales Growth
4.6 Middle East & Africa N-Channel Power MOSFET Sales Growth

5 AMERICAS

5.1 Americas N-Channel Power MOSFET Sales by Country
  5.1.1 Americas N-Channel Power MOSFET Sales by Country (2020-2025)
  5.1.2 Americas N-Channel Power MOSFET Revenue by Country (2020-2025)
5.2 Americas N-Channel Power MOSFET Sales by Type (2020-2025)
5.3 Americas N-Channel Power MOSFET Sales by Application (2020-2025)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC N-Channel Power MOSFET Sales by Region
  6.1.1 APAC N-Channel Power MOSFET Sales by Region (2020-2025)
  6.1.2 APAC N-Channel Power MOSFET Revenue by Region (2020-2025)
6.2 APAC N-Channel Power MOSFET Sales by Type (2020-2025)
6.3 APAC N-Channel Power MOSFET Sales by Application (2020-2025)
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 N-Channel Power MOSFET by Country
  7.1.1 Europe N-Channel Power MOSFET Sales by Country (2020-2025)
  7.1.2 Europe N-Channel Power MOSFET Revenue by Country (2020-2025)
7.2 Europe N-Channel Power MOSFET Sales by Type (2020-2025)
7.3 Europe N-Channel Power MOSFET Sales by Application (2020-2025)
7.4 Germany

+357 96 030922
info@marketpublishers.com

7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa N-Channel Power MOSFET by Country
  8.1.1 Middle East & Africa N-Channel Power MOSFET Sales by Country (2020-2025)
  8.1.2 Middle East & Africa N-Channel Power MOSFET Revenue by Country (2020-2025)
8.2 Middle East & Africa N-Channel Power MOSFET Sales by Type (2020-2025)
8.3 Middle East & Africa N-Channel Power MOSFET Sales by Application (2020-2025)
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 N-Channel Power MOSFET
10.3 Manufacturing Process Analysis of N-Channel Power MOSFET
10.4 Industry Chain Structure of N-Channel Power MOSFET

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 N-Channel Power MOSFET Distributors
11.3 N-Channel Power MOSFET Customer

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info@marketpublishers.com

12 WORLD FORECAST REVIEW FOR N-CHANNEL POWER MOSFET BY GEOGRAPHIC REGION

12.1 Global N-Channel Power MOSFET Market Size Forecast by Region
12.1.1 Global N-Channel Power MOSFET Forecast by Region (2026-2031)
12.1.2 Global N-Channel Power MOSFET Annual Revenue Forecast by Region (2026-2031)
12.2 Americas Forecast by Country (2026-2031)
12.3 APAC Forecast by Region (2026-2031)
12.4 Europe Forecast by Country (2026-2031)
12.5 Middle East & Africa Forecast by Country (2026-2031)
12.6 Global N-Channel Power MOSFET Forecast by Type (2026-2031)
12.7 Global N-Channel Power MOSFET Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 Infineon
13.1.1 Infineon Company Information
13.1.2 Infineon N-Channel Power MOSFET Product Portfolios and Specifications
13.1.3 Infineon N-Channel Power MOSFET Sales, Revenue, Price and Gross Margin (2020-2025)
13.1.4 Infineon Main Business Overview
13.1.5 Infineon Latest Developments
13.2 ON Semiconductor
13.2.1 ON Semiconductor Company Information
13.2.2 ON Semiconductor N-Channel Power MOSFET Product Portfolios and Specifications
13.2.3 ON Semiconductor N-Channel Power MOSFET Sales, Revenue, Price and Gross Margin (2020-2025)
13.2.4 ON Semiconductor Main Business Overview
13.2.5 ON Semiconductor Latest Developments
13.3 STMicroelectronics
13.3.1 STMicroelectronics Company Information
13.3.2 STMicroelectronics N-Channel Power MOSFET Product Portfolios and Specifications
13.3.3 STMicroelectronics N-Channel Power MOSFET Sales, Revenue, Price and Gross Margin (2020-2025)
13.3.4 STMicroelectronics Main Business Overview

+357 96 030922
info@marketpublishers.com

13.3.5 STMicroelectronics Latest Developments
13.4 Toshiba Electronics
13.4.1 Toshiba Electronics Company Information
13.4.2 Toshiba Electronics N-Channel Power MOSFET Product Portfolios and Specifications
13.4.3 Toshiba Electronics N-Channel Power MOSFET Sales, Revenue, Price and Gross Margin (2020-2025)
13.4.4 Toshiba Electronics Main Business Overview
13.4.5 Toshiba Electronics Latest Developments
13.5 Vishay
13.5.1 Vishay Company Information
13.5.2 Vishay N-Channel Power MOSFET Product Portfolios and Specifications
13.5.3 Vishay N-Channel Power MOSFET Sales, Revenue, Price and Gross Margin (2020-2025)
13.5.4 Vishay Main Business Overview
13.5.5 Vishay Latest Developments
13.6 Sensitron Semiconductor
13.6.1 Sensitron Semiconductor Company Information
13.6.2 Sensitron Semiconductor N-Channel Power MOSFET Product Portfolios and Specifications
13.6.3 Sensitron Semiconductor N-Channel Power MOSFET Sales, Revenue, Price and Gross Margin (2020-2025)
13.6.4 Sensitron Semiconductor Main Business Overview
13.6.5 Sensitron Semiconductor Latest Developments
13.7 Nexperia
13.7.1 Nexperia Company Information
13.7.2 Nexperia N-Channel Power MOSFET Product Portfolios and Specifications
13.7.3 Nexperia N-Channel Power MOSFET Sales, Revenue, Price and Gross Margin (2020-2025)
13.7.4 Nexperia Main Business Overview
13.7.5 Nexperia Latest Developments
13.8 Onsemi
13.8.1 Onsemi Company Information
13.8.2 Onsemi N-Channel Power MOSFET Product Portfolios and Specifications
13.8.3 Onsemi N-Channel Power MOSFET Sales, Revenue, Price and Gross Margin (2020-2025)
13.8.4 Onsemi Main Business Overview
13.8.5 Onsemi Latest Developments
13.9 Microchip Technology

+357 96 030922
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13.9.1 Microchip Technology Company Information
13.9.2 Microchip Technology N-Channel Power MOSFET Product Portfolios and Specifications
13.9.3 Microchip Technology N-Channel Power MOSFET Sales, Revenue, Price and Gross Margin (2020-2025)
13.9.4 Microchip Technology Main Business Overview
13.9.5 Microchip Technology Latest Developments
13.10 NXP
13.10.1 NXP Company Information
13.10.2 NXP N-Channel Power MOSFET Product Portfolios and Specifications
13.10.3 NXP N-Channel Power MOSFET Sales, Revenue, Price and Gross Margin (2020-2025)
13.10.4 NXP Main Business Overview
13.10.5 NXP Latest Developments
13.11 SLKOR Semiconductor
13.11.1 SLKOR Semiconductor Company Information
13.11.2 SLKOR Semiconductor N-Channel Power MOSFET Product Portfolios and Specifications
13.11.3 SLKOR Semiconductor N-Channel Power MOSFET Sales, Revenue, Price and Gross Margin (2020-2025)
13.11.4 SLKOR Semiconductor Main Business Overview
13.11.5 SLKOR Semiconductor Latest Developments
13.12 Vbsemi
13.12.1 Vbsemi Company Information
13.12.2 Vbsemi N-Channel Power MOSFET Product Portfolios and Specifications
13.12.3 Vbsemi N-Channel Power MOSFET Sales, Revenue, Price and Gross Margin (2020-2025)
13.12.4 Vbsemi Main Business Overview
13.12.5 Vbsemi Latest Developments
13.13 TI
13.13.1 TI Company Information
13.13.2 TI N-Channel Power MOSFET Product Portfolios and Specifications
13.13.3 TI N-Channel Power MOSFET Sales, Revenue, Price and Gross Margin (2020-2025)
13.13.4 TI Main Business Overview
13.13.5 TI Latest Developments
13.14 Greegoo
13.14.1 Greegoo Company Information
13.14.2 Greegoo N-Channel Power MOSFET Product Portfolios and Specifications

+357 96 030922
info@marketpublishers.com

13.14.3 Greegoo N-Channel Power MOSFET Sales, Revenue, Price and Gross Margin (2020-2025)
13.14.4 Greegoo Main Business Overview
13.14.5 Greegoo Latest Developments
13.15 Semipower
13.15.1 Semipower Company Information
13.15.2 Semipower N-Channel Power MOSFET Product Portfolios and Specifications
13.15.3 Semipower N-Channel Power MOSFET Sales, Revenue, Price and Gross Margin (2020-2025)
13.15.4 Semipower Main Business Overview
13.15.5 Semipower Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. N-Channel Power MOSFET Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & ($ millions)
Table 2. N-Channel Power MOSFET Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & ($ millions)
Table 3. Major Players of N-channel Enhancement Mode MOSFET
Table 4. Major Players of N-channel Depletion Mode MOSFET
Table 5. Global N-Channel Power MOSFET Sales by Type (2020-2025) & (K Units)
Table 6. Global N-Channel Power MOSFET Sales Market Share by Type (2020-2025)
Table 7. Global N-Channel Power MOSFET Revenue by Type (2020-2025) & ($ million)
Table 8. Global N-Channel Power MOSFET Revenue Market Share by Type (2020-2025)
Table 9. Global N-Channel Power MOSFET Sale Price by Type (2020-2025) & (US$/Unit)
Table 10. Global N-Channel Power MOSFET Sale by Application (2020-2025) & (K Units)
Table 11. Global N-Channel Power MOSFET Sale Market Share by Application (2020-2025)
Table 12. Global N-Channel Power MOSFET Revenue by Application (2020-2025) & ($ million)
Table 13. Global N-Channel Power MOSFET Revenue Market Share by Application (2020-2025)
Table 14. Global N-Channel Power MOSFET Sale Price by Application (2020-2025) & (US$/Unit)
Table 15. Global N-Channel Power MOSFET Sales by Company (2020-2025) & (K Units)
Table 16. Global N-Channel Power MOSFET Sales Market Share by Company (2020-2025)
Table 17. Global N-Channel Power MOSFET Revenue by Company (2020-2025) & ($ millions)
Table 18. Global N-Channel Power MOSFET Revenue Market Share by Company (2020-2025)
Table 19. Global N-Channel Power MOSFET Sale Price by Company (2020-2025) & (US$/Unit)
Table 20. Key Manufacturers N-Channel Power MOSFET Producing Area Distribution and Sales Area

+357 96 030922
info@marketpublishers.com

Table 21. Players N-Channel Power MOSFET Products Offered
Table 22. N-Channel Power MOSFET Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
Table 23. New Products and Potential Entrants
Table 24. Market M&A Activity & Strategy
Table 25. Global N-Channel Power MOSFET Sales by Geographic Region (2020-2025) & (K Units)
Table 26. Global N-Channel Power MOSFET Sales Market Share Geographic Region (2020-2025)
Table 27. Global N-Channel Power MOSFET Revenue by Geographic Region (2020-2025) & ($ millions)
Table 28. Global N-Channel Power MOSFET Revenue Market Share by Geographic Region (2020-2025)
Table 29. Global N-Channel Power MOSFET Sales by Country/Region (2020-2025) & (K Units)
Table 30. Global N-Channel Power MOSFET Sales Market Share by Country/Region (2020-2025)
Table 31. Global N-Channel Power MOSFET Revenue by Country/Region (2020-2025) & ($ millions)
Table 32. Global N-Channel Power MOSFET Revenue Market Share by Country/Region (2020-2025)
Table 33. Americas N-Channel Power MOSFET Sales by Country (2020-2025) & (K Units)
Table 34. Americas N-Channel Power MOSFET Sales Market Share by Country (2020-2025)
Table 35. Americas N-Channel Power MOSFET Revenue by Country (2020-2025) & ($ millions)
Table 36. Americas N-Channel Power MOSFET Sales by Type (2020-2025) & (K Units)
Table 37. Americas N-Channel Power MOSFET Sales by Application (2020-2025) & (K Units)
Table 38. APAC N-Channel Power MOSFET Sales by Region (2020-2025) & (K Units)
Table 39. APAC N-Channel Power MOSFET Sales Market Share by Region (2020-2025)
Table 40. APAC N-Channel Power MOSFET Revenue by Region (2020-2025) & ($ millions)
Table 41. APAC N-Channel Power MOSFET Sales by Type (2020-2025) & (K Units)
Table 42. APAC N-Channel Power MOSFET Sales by Application (2020-2025) & (K Units)
Table 43. Europe N-Channel Power MOSFET Sales by Country (2020-2025) & (K

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info@marketpublishers.com

Units)
Table 44. Europe N-Channel Power MOSFET Revenue by Country (2020-2025) & ($ millions)
Table 45. Europe N-Channel Power MOSFET Sales by Type (2020-2025) & (K Units)
Table 46. Europe N-Channel Power MOSFET Sales by Application (2020-2025) & (K Units)
Table 47. Middle East & Africa N-Channel Power MOSFET Sales by Country (2020-2025) & (K Units)
Table 48. Middle East & Africa N-Channel Power MOSFET Revenue Market Share by Country (2020-2025)
Table 49. Middle East & Africa N-Channel Power MOSFET Sales by Type (2020-2025) & (K Units)
Table 50. Middle East & Africa N-Channel Power MOSFET Sales by Application (2020-2025) & (K Units)
Table 51. Key Market Drivers & Growth Opportunities of N-Channel Power MOSFET
Table 52. Key Market Challenges & Risks of N-Channel Power MOSFET
Table 53. Key Industry Trends of N-Channel Power MOSFET
Table 54. N-Channel Power MOSFET Raw Material
Table 55. Key Suppliers of Raw Materials
Table 56. N-Channel Power MOSFET Distributors List
Table 57. N-Channel Power MOSFET Customer List
Table 58. Global N-Channel Power MOSFET Sales Forecast by Region (2026-2031) & (K Units)
Table 59. Global N-Channel Power MOSFET Revenue Forecast by Region (2026-2031) & ($ millions)
Table 60. Americas N-Channel Power MOSFET Sales Forecast by Country (2026-2031) & (K Units)
Table 61. Americas N-Channel Power MOSFET Annual Revenue Forecast by Country (2026-2031) & ($ millions)
Table 62. APAC N-Channel Power MOSFET Sales Forecast by Region (2026-2031) & (K Units)
Table 63. APAC N-Channel Power MOSFET Annual Revenue Forecast by Region (2026-2031) & ($ millions)
Table 64. Europe N-Channel Power MOSFET Sales Forecast by Country (2026-2031) & (K Units)
Table 65. Europe N-Channel Power MOSFET Revenue Forecast by Country (2026-2031) & ($ millions)
Table 66. Middle East & Africa N-Channel Power MOSFET Sales Forecast by Country (2026-2031) & (K Units)

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Table 67. Middle East & Africa N-Channel Power MOSFET Revenue Forecast by Country (2026-2031) & ($ millions)
Table 68. Global N-Channel Power MOSFET Sales Forecast by Type (2026-2031) & (K Units)
Table 69. Global N-Channel Power MOSFET Revenue Forecast by Type (2026-2031) & ($ millions)
Table 70. Global N-Channel Power MOSFET Sales Forecast by Application (2026-2031) & (K Units)
Table 71. Global N-Channel Power MOSFET Revenue Forecast by Application (2026-2031) & ($ millions)
Table 72. Infineon Basic Information, N-Channel Power MOSFET Manufacturing Base, Sales Area and Its Competitors
Table 73. Infineon N-Channel Power MOSFET Product Portfolios and Specifications
Table 74. Infineon N-Channel Power MOSFET Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 75. Infineon Main Business
Table 76. Infineon Latest Developments
Table 77. ON Semiconductor Basic Information, N-Channel Power MOSFET Manufacturing Base, Sales Area and Its Competitors
Table 78. ON Semiconductor N-Channel Power MOSFET Product Portfolios and Specifications
Table 79. ON Semiconductor N-Channel Power MOSFET Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 80. ON Semiconductor Main Business
Table 81. ON Semiconductor Latest Developments
Table 82. STMicroelectronics Basic Information, N-Channel Power MOSFET Manufacturing Base, Sales Area and Its Competitors
Table 83. STMicroelectronics N-Channel Power MOSFET Product Portfolios and Specifications
Table 84. STMicroelectronics N-Channel Power MOSFET Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 85. STMicroelectronics Main Business
Table 86. STMicroelectronics Latest Developments
Table 87. Toshiba Electronics Basic Information, N-Channel Power MOSFET Manufacturing Base, Sales Area and Its Competitors
Table 88. Toshiba Electronics N-Channel Power MOSFET Product Portfolios and Specifications
Table 89. Toshiba Electronics N-Channel Power MOSFET Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)

+357 96 030922
info@marketpublishers.com

Table 90. Toshiba Electronics Main Business
Table 91. Toshiba Electronics Latest Developments
Table 92. Vishay Basic Information, N-Channel Power MOSFET Manufacturing Base, Sales Area and Its Competitors
Table 93. Vishay N-Channel Power MOSFET Product Portfolios and Specifications
Table 94. Vishay N-Channel Power MOSFET Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 95. Vishay Main Business
Table 96. Vishay Latest Developments
Table 97. Sensitron Semiconductor Basic Information, N-Channel Power MOSFET Manufacturing Base, Sales Area and Its Competitors
Table 98. Sensitron Semiconductor N-Channel Power MOSFET Product Portfolios and Specifications
Table 99. Sensitron Semiconductor N-Channel Power MOSFET Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 100. Sensitron Semiconductor Main Business
Table 101. Sensitron Semiconductor Latest Developments
Table 102. Nexperia Basic Information, N-Channel Power MOSFET Manufacturing Base, Sales Area and Its Competitors
Table 103. Nexperia N-Channel Power MOSFET Product Portfolios and Specifications
Table 104. Nexperia N-Channel Power MOSFET Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 105. Nexperia Main Business
Table 106. Nexperia Latest Developments
Table 107. Onsemi Basic Information, N-Channel Power MOSFET Manufacturing Base, Sales Area and Its Competitors
Table 108. Onsemi N-Channel Power MOSFET Product Portfolios and Specifications
Table 109. Onsemi N-Channel Power MOSFET Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 110. Onsemi Main Business
Table 111. Onsemi Latest Developments
Table 112. Microchip Technology Basic Information, N-Channel Power MOSFET Manufacturing Base, Sales Area and Its Competitors
Table 113. Microchip Technology N-Channel Power MOSFET Product Portfolios and Specifications
Table 114. Microchip Technology N-Channel Power MOSFET Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 115. Microchip Technology Main Business
Table 116. Microchip Technology Latest Developments

+357 96 030922
info@marketpublishers.com

Table 117. NXP Basic Information, N-Channel Power MOSFET Manufacturing Base, Sales Area and Its Competitors
Table 118. NXP N-Channel Power MOSFET Product Portfolios and Specifications
Table 119. NXP N-Channel Power MOSFET Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 120. NXP Main Business
Table 121. NXP Latest Developments
Table 122. SLKOR Semiconductor Basic Information, N-Channel Power MOSFET Manufacturing Base, Sales Area and Its Competitors
Table 123. SLKOR Semiconductor N-Channel Power MOSFET Product Portfolios and Specifications
Table 124. SLKOR Semiconductor N-Channel Power MOSFET Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 125. SLKOR Semiconductor Main Business
Table 126. SLKOR Semiconductor Latest Developments
Table 127. Vbsemi Basic Information, N-Channel Power MOSFET Manufacturing Base, Sales Area and Its Competitors
Table 128. Vbsemi N-Channel Power MOSFET Product Portfolios and Specifications
Table 129. Vbsemi N-Channel Power MOSFET Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 130. Vbsemi Main Business
Table 131. Vbsemi Latest Developments
Table 132. TI Basic Information, N-Channel Power MOSFET Manufacturing Base, Sales Area and Its Competitors
Table 133. TI N-Channel Power MOSFET Product Portfolios and Specifications
Table 134. TI N-Channel Power MOSFET Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 135. TI Main Business
Table 136. TI Latest Developments
Table 137. Greegoo Basic Information, N-Channel Power MOSFET Manufacturing Base, Sales Area and Its Competitors
Table 138. Greegoo N-Channel Power MOSFET Product Portfolios and Specifications
Table 139. Greegoo N-Channel Power MOSFET Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 140. Greegoo Main Business
Table 141. Greegoo Latest Developments
Table 142. Semipower Basic Information, N-Channel Power MOSFET Manufacturing Base, Sales Area and Its Competitors
Table 143. Semipower N-Channel Power MOSFET Product Portfolios and

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Specifications
Table 144. Semipower N-Channel Power MOSFET Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 145. Semipower Main Business
Table 146. Semipower Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of N-Channel Power MOSFET
Figure 2. N-Channel Power MOSFET Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global N-Channel Power MOSFET Sales Growth Rate 2020-2031 (K Units)
Figure 7. Global N-Channel Power MOSFET Revenue Growth Rate 2020-2031 ($ millions)
Figure 8. N-Channel Power MOSFET Sales by Geographic Region (2020, 2024 & 2031) & ($ millions)
Figure 9. N-Channel Power MOSFET Sales Market Share by Country/Region (2024)
Figure 10. N-Channel Power MOSFET Sales Market Share by Country/Region (2020, 2024 & 2031)
Figure 11. Product Picture of N-channel Enhancement Mode MOSFET
Figure 12. Product Picture of N-channel Depletion Mode MOSFET
Figure 13. Global N-Channel Power MOSFET Sales Market Share by Type in 2025
Figure 14. Global N-Channel Power MOSFET Revenue Market Share by Type (2020-2025)
Figure 15. N-Channel Power MOSFET Consumed in Automotive Electronics
Figure 16. Global N-Channel Power MOSFET Market: Automotive Electronics (2020-2025) & (K Units)
Figure 17. N-Channel Power MOSFET Consumed in Power Management
Figure 18. Global N-Channel Power MOSFET Market: Power Management (2020-2025) & (K Units)
Figure 19. N-Channel Power MOSFET Consumed in Industrial Control
Figure 20. Global N-Channel Power MOSFET Market: Industrial Control (2020-2025) & (K Units)
Figure 21. N-Channel Power MOSFET Consumed in Consumer Electronics
Figure 22. Global N-Channel Power MOSFET Market: Consumer Electronics (2020-2025) & (K Units)
Figure 23. Global N-Channel Power MOSFET Sale Market Share by Application (2024)
Figure 24. Global N-Channel Power MOSFET Revenue Market Share by Application in 2025
Figure 25. N-Channel Power MOSFET Sales by Company in 2025 (K Units)
Figure 26. Global N-Channel Power MOSFET Sales Market Share by Company in 2025

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Figure 27. N-Channel Power MOSFET Revenue by Company in 2025 ($ millions)
Figure 28. Global N-Channel Power MOSFET Revenue Market Share by Company in 2025
Figure 29. Global N-Channel Power MOSFET Sales Market Share by Geographic Region (2020-2025)
Figure 30. Global N-Channel Power MOSFET Revenue Market Share by Geographic Region in 2025
Figure 31. Americas N-Channel Power MOSFET Sales 2020-2025 (K Units)
Figure 32. Americas N-Channel Power MOSFET Revenue 2020-2025 ($ millions)
Figure 33. APAC N-Channel Power MOSFET Sales 2020-2025 (K Units)
Figure 34. APAC N-Channel Power MOSFET Revenue 2020-2025 ($ millions)
Figure 35. Europe N-Channel Power MOSFET Sales 2020-2025 (K Units)
Figure 36. Europe N-Channel Power MOSFET Revenue 2020-2025 ($ millions)
Figure 37. Middle East & Africa N-Channel Power MOSFET Sales 2020-2025 (K Units)
Figure 38. Middle East & Africa N-Channel Power MOSFET Revenue 2020-2025 ($ millions)
Figure 39. Americas N-Channel Power MOSFET Sales Market Share by Country in 2025
Figure 40. Americas N-Channel Power MOSFET Revenue Market Share by Country (2020-2025)
Figure 41. Americas N-Channel Power MOSFET Sales Market Share by Type (2020-2025)
Figure 42. Americas N-Channel Power MOSFET Sales Market Share by Application (2020-2025)
Figure 43. United States N-Channel Power MOSFET Revenue Growth 2020-2025 ($ millions)
Figure 44. Canada N-Channel Power MOSFET Revenue Growth 2020-2025 ($ millions)
Figure 45. Mexico N-Channel Power MOSFET Revenue Growth 2020-2025 ($ millions)
Figure 46. Brazil N-Channel Power MOSFET Revenue Growth 2020-2025 ($ millions)
Figure 47. APAC N-Channel Power MOSFET Sales Market Share by Region in 2025
Figure 48. APAC N-Channel Power MOSFET Revenue Market Share by Region (2020-2025)
Figure 49. APAC N-Channel Power MOSFET Sales Market Share by Type (2020-2025)
Figure 50. APAC N-Channel Power MOSFET Sales Market Share by Application (2020-2025)
Figure 51. China N-Channel Power MOSFET Revenue Growth 2020-2025 ($ millions)
Figure 52. Japan N-Channel Power MOSFET Revenue Growth 2020-2025 ($ millions)
Figure 53. South Korea N-Channel Power MOSFET Revenue Growth 2020-2025 ($ millions)

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Figure 54. Southeast Asia N-Channel Power MOSFET Revenue Growth 2020-2025 ($ millions)
Figure 55. India N-Channel Power MOSFET Revenue Growth 2020-2025 ($ millions)
Figure 56. Australia N-Channel Power MOSFET Revenue Growth 2020-2025 ($ millions)
Figure 57. China Taiwan N-Channel Power MOSFET Revenue Growth 2020-2025 ($ millions)
Figure 58. Europe N-Channel Power MOSFET Sales Market Share by Country in 2025
Figure 59. Europe N-Channel Power MOSFET Revenue Market Share by Country (2020-2025)
Figure 60. Europe N-Channel Power MOSFET Sales Market Share by Type (2020-2025)
Figure 61. Europe N-Channel Power MOSFET Sales Market Share by Application (2020-2025)
Figure 62. Germany N-Channel Power MOSFET Revenue Growth 2020-2025 ($ millions)
Figure 63. France N-Channel Power MOSFET Revenue Growth 2020-2025 ($ millions)
Figure 64. UK N-Channel Power MOSFET Revenue Growth 2020-2025 ($ millions)
Figure 65. Italy N-Channel Power MOSFET Revenue Growth 2020-2025 ($ millions)
Figure 66. Russia N-Channel Power MOSFET Revenue Growth 2020-2025 ($ millions)
Figure 67. Middle East & Africa N-Channel Power MOSFET Sales Market Share by Country (2020-2025)
Figure 68. Middle East & Africa N-Channel Power MOSFET Sales Market Share by Type (2020-2025)
Figure 69. Middle East & Africa N-Channel Power MOSFET Sales Market Share by Application (2020-2025)
Figure 70. Egypt N-Channel Power MOSFET Revenue Growth 2020-2025 ($ millions)
Figure 71. South Africa N-Channel Power MOSFET Revenue Growth 2020-2025 ($ millions)
Figure 72. Israel N-Channel Power MOSFET Revenue Growth 2020-2025 ($ millions)
Figure 73. Turkey N-Channel Power MOSFET Revenue Growth 2020-2025 ($ millions)
Figure 74. GCC Countries N-Channel Power MOSFET Revenue Growth 2020-2025 ($ millions)
Figure 75. Manufacturing Cost Structure Analysis of N-Channel Power MOSFET in 2025
Figure 76. Manufacturing Process Analysis of N-Channel Power MOSFET
Figure 77. Industry Chain Structure of N-Channel Power MOSFET
Figure 78. Channels of Distribution
Figure 79. Global N-Channel Power MOSFET Sales Market Forecast by Region

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(2026-2031)
Figure 80. Global N-Channel Power MOSFET Revenue Market Share Forecast by Region (2026-2031)
Figure 81. Global N-Channel Power MOSFET Sales Market Share Forecast by Type (2026-2031)
Figure 82. Global N-Channel Power MOSFET Revenue Market Share Forecast by Type (2026-2031)
Figure 83. Global N-Channel Power MOSFET Sales Market Share Forecast by Application (2026-2031)
Figure 84. Global N-Channel Power MOSFET Revenue Market Share Forecast by Application (2026-2031)

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