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Global Thyristor Discs Market Growth 2026-2032

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Abstracts

The global Thyristor Discs market size is predicted to grow from US$ 859 million in 2025 to US$ 1224 million in 2032; it is expected to grow at a CAGR of 5.3% from 2026 to 2032.

In 2024, global Thyristor Discs output was about 7.6 million units with a capacity of 9.2 million. The average unit price is about USD 110, achieving an average gross margin of 36%. Thyristor Discs are high-power semiconductor devices designed in a circular, press-pack form that allows efficient thermal and electrical contact for controlling large currents and voltages in AC/DC conversion, motor drives, and power transmission systems. They operate as solid-state switches, turning on when triggered and remaining conductive until the current drops below a threshold. The supply chain of thyristor discs begins with raw materials such as high-purity silicon wafers, molybdenum electrodes, and ceramic insulators, followed by wafer diffusion and metallization processes in semiconductor fabrication plants. These discs are then assembled and encapsulated in hermetic packages, often incorporating precision lapping and soldering techniques for heat dissipation. The downstream supply chain includes module assemblers, power electronics integrators, and end users in sectors such as renewable energy (wind and HVDC systems), rail traction, industrial drives, and power grid infrastructure.

United States market for Thyristor Discs is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Thyristor Discs is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Thyristor Discs is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

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Global key Thyristor Discs players cover Infineon Technologies, Hitachi Energy, Vishay Intertechnology, IXYS UK Westcode, Dynex Semiconductor, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Thyristor Discs Industry Forecast” looks at past sales and reviews total world Thyristor Discs sales in 2025, providing a comprehensive analysis by region and market sector of projected Thyristor Discs sales for 2026 through 2032. With Thyristor Discs sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Thyristor Discs industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Thyristor Discs 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 Thyristor Discs.

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

Market Segmentation

Segmentation by Type:

Gate-Controlled Thyristors

Light-Triggered Thyristors

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Reverse Conducting Thyristors

Segmentation by Voltage Rating:

Low-Voltage Thyristor Discs (<1.5 kV)

Medium-Voltage Thyristor Discs (1.5–4.5 kV)

High-Voltage Thyristor Discs (>4.5 kV)

Segmentation by Cooling Method:

Air-Cooled

Liquid-Cooled

Segmentation by Application:

Energy Systems

Transportation

Industrial

Metallurgical

Petrochemical

Defense & Aerospace

Others

This report also splits the market by region:

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Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

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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.

Infineon Technologies

Hitachi Energy

Vishay Intertechnology

IXYS UK Westcode

Dynex Semiconductor

Poseico Power Electronics

Proton-Electrotex

PJSC Electrovipryamitel

Powerex

Sansha Electric

Mitsubishi Electric

Fuji Electric

Semikron Danfoss

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Greegoo Electric

WeEn Semiconductors

Hubei Tech Semiconductors

Yangzhou Positioning Tech

LJ-MD Power Semiconductor

Sailing Semiconductor Device

Tianjin Century Electronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Thyristor Discs market?

What factors are driving Thyristor Discs market growth, globally and by region?

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

How do Thyristor Discs market opportunities vary by end market size?

How does Thyristor Discs 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 Thyristor Discs Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Thyristor Discs by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Thyristor Discs by Country/Region, 2021, 2025 & 2032
2.2 Thyristor Discs Segment by Type
  2.2.1 Gate-Controlled Thyristors
  2.2.2 Light-Triggered Thyristors
  2.2.3 Reverse Conducting Thyristors
  2.2.4 Thyristor Discs Sales by Type
    2.2.4.1 Global Thyristor Discs Sales Market Share by Type (2021-2026)
    2.2.4.2 Global Thyristor Discs Revenue and Market Share by Type (2021-2026)
    2.2.4.3 Global Thyristor Discs Sale Price by Type (2021-2026)
2.3 Thyristor Discs Segment by Voltage Rating
  2.3.1 Low-Voltage Thyristor Discs (<1.5 kV)
  2.3.2 Medium-Voltage Thyristor Discs (1.5–4.5 kV)
  2.3.3 High-Voltage Thyristor Discs (>4.5 kV)
  2.3.4 Thyristor Discs Sales by Voltage Rating
    2.3.4.1 Global Thyristor Discs Sales Market Share by Voltage Rating (2021-2026)
    2.3.4.2 Global Thyristor Discs Revenue and Market Share by Voltage Rating (2021-2026)
    2.3.4.3 Global Thyristor Discs Sale Price by Voltage Rating (2021-2026)
2.4 Thyristor Discs Segment by Cooling Method

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2.4.1 Air-Cooled
2.4.2 Liquid-Cooled
2.4.3 Thyristor Discs Sales by Cooling Method
2.4.3.1 Global Thyristor Discs Sales Market Share by Cooling Method (2021-2026)
2.4.3.2 Global Thyristor Discs Revenue and Market Share by Cooling Method (2021-2026)
2.4.3.3 Global Thyristor Discs Sale Price by Cooling Method (2021-2026)
2.5 Thyristor Discs Segment by Application
2.5.1 Energy Systems
2.5.2 Transportation
2.5.3 Industrial
2.5.4 Metallurgical
2.5.5 Petrochemical
2.5.6 Defense & Aerospace
2.5.7 Others
2.5.8 Thyristor Discs Sales by Application
2.5.8.1 Global Thyristor Discs Sale Market Share by Application (2021-2026)
2.5.8.2 Global Thyristor Discs Revenue and Market Share by Application (2021-2026)
2.5.8.3 Global Thyristor Discs Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Thyristor Discs Breakdown Data by Company
3.1.1 Global Thyristor Discs Annual Sales by Company (2021-2026)
3.1.2 Global Thyristor Discs Sales Market Share by Company (2021-2026)
3.2 Global Thyristor Discs Annual Revenue by Company (2021-2026)
3.2.1 Global Thyristor Discs Revenue by Company (2021-2026)
3.2.2 Global Thyristor Discs Revenue Market Share by Company (2021-2026)
3.3 Global Thyristor Discs Sale Price by Company
3.4 Key Manufacturers Thyristor Discs Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Thyristor Discs Product Location Distribution
3.4.2 Players Thyristor Discs Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

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4 WORLD HISTORIC REVIEW FOR THYRISTOR DISCS BY GEOGRAPHIC REGION

4.1 World Historic Thyristor Discs Market Size by Geographic Region (2021-2026)
4.1.1 Global Thyristor Discs Annual Sales by Geographic Region (2021-2026)
4.1.2 Global Thyristor Discs Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Thyristor Discs Market Size by Country/Region (2021-2026)
4.2.1 Global Thyristor Discs Annual Sales by Country/Region (2021-2026)
4.2.2 Global Thyristor Discs Annual Revenue by Country/Region (2021-2026)
4.3 Americas Thyristor Discs Sales Growth
4.4 APAC Thyristor Discs Sales Growth
4.5 Europe Thyristor Discs Sales Growth
4.6 Middle East & Africa Thyristor Discs Sales Growth

5 AMERICAS

5.1 Americas Thyristor Discs Sales by Country
5.1.1 Americas Thyristor Discs Sales by Country (2021-2026)
5.1.2 Americas Thyristor Discs Revenue by Country (2021-2026)
5.2 Americas Thyristor Discs Sales by Type (2021-2026)
5.3 Americas Thyristor Discs Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Thyristor Discs Sales by Region
6.1.1 APAC Thyristor Discs Sales by Region (2021-2026)
6.1.2 APAC Thyristor Discs Revenue by Region (2021-2026)
6.2 APAC Thyristor Discs Sales by Type (2021-2026)
6.3 APAC Thyristor Discs Sales by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

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7 EUROPE

7.1 Europe Thyristor Discs by Country
  7.1.1 Europe Thyristor Discs Sales by Country (2021-2026)
  7.1.2 Europe Thyristor Discs Revenue by Country (2021-2026)
7.2 Europe Thyristor Discs Sales by Type (2021-2026)
7.3 Europe Thyristor Discs Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Thyristor Discs by Country
  8.1.1 Middle East & Africa Thyristor Discs Sales by Country (2021-2026)
  8.1.2 Middle East & Africa Thyristor Discs Revenue by Country (2021-2026)
8.2 Middle East & Africa Thyristor Discs Sales by Type (2021-2026)
8.3 Middle East & Africa Thyristor Discs Sales by Application (2021-2026)
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 Thyristor Discs
10.3 Manufacturing Process Analysis of Thyristor Discs
10.4 Industry Chain Structure of Thyristor Discs

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11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Thyristor Discs Distributors
11.3 Thyristor Discs Customer

12 WORLD FORECAST REVIEW FOR THYRISTOR DISCS BY GEOGRAPHIC REGION

12.1 Global Thyristor Discs Market Size Forecast by Region
  12.1.1 Global Thyristor Discs Forecast by Region (2027-2032)
  12.1.2 Global Thyristor Discs Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)
12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global Thyristor Discs Forecast by Type (2027-2032)
12.7 Global Thyristor Discs Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Infineon Technologies
  13.1.1 Infineon Technologies Company Information
  13.1.2 Infineon Technologies Thyristor Discs Product Portfolios and Specifications
  13.1.3 Infineon Technologies Thyristor Discs Sales, Revenue, Price and Gross Margin (2021-2026)
  13.1.4 Infineon Technologies Main Business Overview
  13.1.5 Infineon Technologies Latest Developments
13.2 Hitachi Energy
  13.2.1 Hitachi Energy Company Information
  13.2.2 Hitachi Energy Thyristor Discs Product Portfolios and Specifications
  13.2.3 Hitachi Energy Thyristor Discs Sales, Revenue, Price and Gross Margin (2021-2026)
  13.2.4 Hitachi Energy Main Business Overview
  13.2.5 Hitachi Energy Latest Developments
13.3 Vishay Intertechnology

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13.3.1 Vishay Intertechnology Company Information
13.3.2 Vishay Intertechnology Thyristor Discs Product Portfolios and Specifications
13.3.3 Vishay Intertechnology Thyristor Discs Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Vishay Intertechnology Main Business Overview
13.3.5 Vishay Intertechnology Latest Developments
13.4 IXYS UK Westcode
13.4.1 IXYS UK Westcode Company Information
13.4.2 IXYS UK Westcode Thyristor Discs Product Portfolios and Specifications
13.4.3 IXYS UK Westcode Thyristor Discs Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 IXYS UK Westcode Main Business Overview
13.4.5 IXYS UK Westcode Latest Developments
13.5 Dynex Semiconductor
13.5.1 Dynex Semiconductor Company Information
13.5.2 Dynex Semiconductor Thyristor Discs Product Portfolios and Specifications
13.5.3 Dynex Semiconductor Thyristor Discs Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 Dynex Semiconductor Main Business Overview
13.5.5 Dynex Semiconductor Latest Developments
13.6 Poseico Power Electronics
13.6.1 Poseico Power Electronics Company Information
13.6.2 Poseico Power Electronics Thyristor Discs Product Portfolios and Specifications
13.6.3 Poseico Power Electronics Thyristor Discs Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Poseico Power Electronics Main Business Overview
13.6.5 Poseico Power Electronics Latest Developments
13.7 Proton-Electrotex
13.7.1 Proton-Electrotex Company Information
13.7.2 Proton-Electrotex Thyristor Discs Product Portfolios and Specifications
13.7.3 Proton-Electrotex Thyristor Discs Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 Proton-Electrotex Main Business Overview
13.7.5 Proton-Electrotex Latest Developments
13.8 PJSC Electrovipryamitel
13.8.1 PJSC Electrovipryamitel Company Information
13.8.2 PJSC Electrovipryamitel Thyristor Discs Product Portfolios and Specifications
13.8.3 PJSC Electrovipryamitel Thyristor Discs Sales, Revenue, Price and Gross Margin (2021-2026)

+357 96 030922
info@marketpublishers.com

13.8.4 PJSC Electrovipryamitel Main Business Overview
13.8.5 PJSC Electrovipryamitel Latest Developments
13.9 Powerex
13.9.1 Powerex Company Information
13.9.2 Powerex Thyristor Discs Product Portfolios and Specifications
13.9.3 Powerex Thyristor Discs Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 Powerex Main Business Overview
13.9.5 Powerex Latest Developments
13.10 Sansha Electric
13.10.1 Sansha Electric Company Information
13.10.2 Sansha Electric Thyristor Discs Product Portfolios and Specifications
13.10.3 Sansha Electric Thyristor Discs Sales, Revenue, Price and Gross Margin (2021-2026)
13.10.4 Sansha Electric Main Business Overview
13.10.5 Sansha Electric Latest Developments
13.11 Mitsubishi Electric
13.11.1 Mitsubishi Electric Company Information
13.11.2 Mitsubishi Electric Thyristor Discs Product Portfolios and Specifications
13.11.3 Mitsubishi Electric Thyristor Discs Sales, Revenue, Price and Gross Margin (2021-2026)
13.11.4 Mitsubishi Electric Main Business Overview
13.11.5 Mitsubishi Electric Latest Developments
13.12 Fuji Electric
13.12.1 Fuji Electric Company Information
13.12.2 Fuji Electric Thyristor Discs Product Portfolios and Specifications
13.12.3 Fuji Electric Thyristor Discs Sales, Revenue, Price and Gross Margin (2021-2026)
13.12.4 Fuji Electric Main Business Overview
13.12.5 Fuji Electric Latest Developments
13.13 Semikron Danfoss
13.13.1 Semikron Danfoss Company Information
13.13.2 Semikron Danfoss Thyristor Discs Product Portfolios and Specifications
13.13.3 Semikron Danfoss Thyristor Discs Sales, Revenue, Price and Gross Margin (2021-2026)
13.13.4 Semikron Danfoss Main Business Overview
13.13.5 Semikron Danfoss Latest Developments
13.14 Greegoo Electric
13.14.1 Greegoo Electric Company Information
13.14.2 Greegoo Electric Thyristor Discs Product Portfolios and Specifications

+357 96 030922
info@marketpublishers.com

13.14.3 Greegoo Electric Thyristor Discs Sales, Revenue, Price and Gross Margin (2021-2026)
13.14.4 Greegoo Electric Main Business Overview
13.14.5 Greegoo Electric Latest Developments
13.15 WeEn Semiconductors
13.15.1 WeEn Semiconductors Company Information
13.15.2 WeEn Semiconductors Thyristor Discs Product Portfolios and Specifications
13.15.3 WeEn Semiconductors Thyristor Discs Sales, Revenue, Price and Gross Margin (2021-2026)
13.15.4 WeEn Semiconductors Main Business Overview
13.15.5 WeEn Semiconductors Latest Developments
13.16 Hubei Tech Semiconductors
13.16.1 Hubei Tech Semiconductors Company Information
13.16.2 Hubei Tech Semiconductors Thyristor Discs Product Portfolios and Specifications
13.16.3 Hubei Tech Semiconductors Thyristor Discs Sales, Revenue, Price and Gross Margin (2021-2026)
13.16.4 Hubei Tech Semiconductors Main Business Overview
13.16.5 Hubei Tech Semiconductors Latest Developments
13.17 Yangzhou Positioning Tech
13.17.1 Yangzhou Positioning Tech Company Information
13.17.2 Yangzhou Positioning Tech Thyristor Discs Product Portfolios and Specifications
13.17.3 Yangzhou Positioning Tech Thyristor Discs Sales, Revenue, Price and Gross Margin (2021-2026)
13.17.4 Yangzhou Positioning Tech Main Business Overview
13.17.5 Yangzhou Positioning Tech Latest Developments
13.18 LJ-MD Power Semiconductor
13.18.1 LJ-MD Power Semiconductor Company Information
13.18.2 LJ-MD Power Semiconductor Thyristor Discs Product Portfolios and Specifications
13.18.3 LJ-MD Power Semiconductor Thyristor Discs Sales, Revenue, Price and Gross Margin (2021-2026)
13.18.4 LJ-MD Power Semiconductor Main Business Overview
13.18.5 LJ-MD Power Semiconductor Latest Developments
13.19 Sailing Semiconductor Device
13.19.1 Sailing Semiconductor Device Company Information
13.19.2 Sailing Semiconductor Device Thyristor Discs Product Portfolios and Specifications

+357 96 030922
info@marketpublishers.com

13.19.3 Sailing Semiconductor Device Thyristor Discs Sales, Revenue, Price and Gross Margin (2021-2026)
13.19.4 Sailing Semiconductor Device Main Business Overview
13.19.5 Sailing Semiconductor Device Latest Developments
13.20 Tianjin Century Electronics
13.20.1 Tianjin Century Electronics Company Information
13.20.2 Tianjin Century Electronics Thyristor Discs Product Portfolios and Specifications
13.20.3 Tianjin Century Electronics Thyristor Discs Sales, Revenue, Price and Gross Margin (2021-2026)
13.20.4 Tianjin Century Electronics Main Business Overview
13.20.5 Tianjin Century Electronics Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Thyristor Discs Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Thyristor Discs Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Gate-Controlled Thyristors
Table 4. Major Players of Light-Triggered Thyristors
Table 5. Major Players of Reverse Conducting Thyristors
Table 6. Global Thyristor Discs Sales by Type (2021-2026) & (K Pcs)
Table 7. Global Thyristor Discs Sales Market Share by Type (2021-2026)
Table 8. Global Thyristor Discs Revenue by Type (2021-2026) & ($ million)
Table 9. Global Thyristor Discs Revenue Market Share by Type (2021-2026)
Table 10. Global Thyristor Discs Sale Price by Type (2021-2026) & (US$/Pcs)
Table 11. Major Players of Low-Voltage Thyristor Discs (<1.5 kV)
Table 12. Major Players of Medium-Voltage Thyristor Discs (1.5–4.5 kV)
Table 13. Major Players of High-Voltage Thyristor Discs (>4.5 kV)
Table 14. Global Thyristor Discs Sales by Voltage Rating (2021-2026) & (K Pcs)
Table 15. Global Thyristor Discs Sales Market Share by Voltage Rating (2021-2026)
Table 16. Global Thyristor Discs Revenue by Voltage Rating (2021-2026) & ($ million)
Table 17. Global Thyristor Discs Revenue Market Share by Voltage Rating (2021-2026)
Table 18. Global Thyristor Discs Sale Price by Voltage Rating (2021-2026) & (US$/Pcs)
Table 19. Major Players of Air-Cooled
Table 20. Major Players of Liquid-Cooled
Table 21. Global Thyristor Discs Sales by Cooling Method (2021-2026) & (K Pcs)
Table 22. Global Thyristor Discs Sales Market Share by Cooling Method (2021-2026)
Table 23. Global Thyristor Discs Revenue by Cooling Method (2021-2026) & ($ million)
Table 24. Global Thyristor Discs Revenue Market Share by Cooling Method (2021-2026)
Table 25. Global Thyristor Discs Sale Price by Cooling Method (2021-2026) & (US$/Pcs)
Table 26. Global Thyristor Discs Sale by Application (2021-2026) & (K Pcs)
Table 27. Global Thyristor Discs Sale Market Share by Application (2021-2026)
Table 28. Global Thyristor Discs Revenue by Application (2021-2026) & ($ million)
Table 29. Global Thyristor Discs Revenue Market Share by Application (2021-2026)
Table 30. Global Thyristor Discs Sale Price by Application (2021-2026) & (US$/Pcs)
Table 31. Global Thyristor Discs Sales by Company (2021-2026) & (K Pcs)

+357 96 030922
info@marketpublishers.com

Table 32. Global Thyristor Discs Sales Market Share by Company (2021-2026)
Table 33. Global Thyristor Discs Revenue by Company (2021-2026) & ($ millions)
Table 34. Global Thyristor Discs Revenue Market Share by Company (2021-2026)
Table 35. Global Thyristor Discs Sale Price by Company (2021-2026) & (US$/Pcs)
Table 36. Key Manufacturers Thyristor Discs Producing Area Distribution and Sales Area
Table 37. Players Thyristor Discs Products Offered
Table 38. Thyristor Discs Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 39. New Products and Potential Entrants
Table 40. Market M&A Activity & Strategy
Table 41. Global Thyristor Discs Sales by Geographic Region (2021-2026) & (K Pcs)
Table 42. Global Thyristor Discs Sales Market Share Geographic Region (2021-2026)
Table 43. Global Thyristor Discs Revenue by Geographic Region (2021-2026) & ($ millions)
Table 44. Global Thyristor Discs Revenue Market Share by Geographic Region (2021-2026)
Table 45. Global Thyristor Discs Sales by Country/Region (2021-2026) & (K Pcs)
Table 46. Global Thyristor Discs Sales Market Share by Country/Region (2021-2026)
Table 47. Global Thyristor Discs Revenue by Country/Region (2021-2026) & ($ millions)
Table 48. Global Thyristor Discs Revenue Market Share by Country/Region (2021-2026)
Table 49. Americas Thyristor Discs Sales by Country (2021-2026) & (K Pcs)
Table 50. Americas Thyristor Discs Sales Market Share by Country (2021-2026)
Table 51. Americas Thyristor Discs Revenue by Country (2021-2026) & ($ millions)
Table 52. Americas Thyristor Discs Sales by Type (2021-2026) & (K Pcs)
Table 53. Americas Thyristor Discs Sales by Application (2021-2026) & (K Pcs)
Table 54. APAC Thyristor Discs Sales by Region (2021-2026) & (K Pcs)
Table 55. APAC Thyristor Discs Sales Market Share by Region (2021-2026)
Table 56. APAC Thyristor Discs Revenue by Region (2021-2026) & ($ millions)
Table 57. APAC Thyristor Discs Sales by Type (2021-2026) & (K Pcs)
Table 58. APAC Thyristor Discs Sales by Application (2021-2026) & (K Pcs)
Table 59. Europe Thyristor Discs Sales by Country (2021-2026) & (K Pcs)
Table 60. Europe Thyristor Discs Revenue by Country (2021-2026) & ($ millions)
Table 61. Europe Thyristor Discs Sales by Type (2021-2026) & (K Pcs)
Table 62. Europe Thyristor Discs Sales by Application (2021-2026) & (K Pcs)
Table 63. Middle East & Africa Thyristor Discs Sales by Country (2021-2026) & (K Pcs)
Table 64. Middle East & Africa Thyristor Discs Revenue Market Share by Country (2021-2026)
Table 65. Middle East & Africa Thyristor Discs Sales by Type (2021-2026) & (K Pcs)

+357 96 030922
info@marketpublishers.com

Table 66. Middle East & Africa Thyristor Discs Sales by Application (2021-2026) & (K Pcs)
Table 67. Key Market Drivers & Growth Opportunities of Thyristor Discs
Table 68. Key Market Challenges & Risks of Thyristor Discs
Table 69. Key Industry Trends of Thyristor Discs
Table 70. Thyristor Discs Raw Material
Table 71. Key Suppliers of Raw Materials
Table 72. Thyristor Discs Distributors List
Table 73. Thyristor Discs Customer List
Table 74. Global Thyristor Discs Sales Forecast by Region (2027-2032) & (K Pcs)
Table 75. Global Thyristor Discs Revenue Forecast by Region (2027-2032) & ($ millions)
Table 76. Americas Thyristor Discs Sales Forecast by Country (2027-2032) & (K Pcs)
Table 77. Americas Thyristor Discs Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 78. APAC Thyristor Discs Sales Forecast by Region (2027-2032) & (K Pcs)
Table 79. APAC Thyristor Discs Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 80. Europe Thyristor Discs Sales Forecast by Country (2027-2032) & (K Pcs)
Table 81. Europe Thyristor Discs Revenue Forecast by Country (2027-2032) & ($ millions)
Table 82. Middle East & Africa Thyristor Discs Sales Forecast by Country (2027-2032) & (K Pcs)
Table 83. Middle East & Africa Thyristor Discs Revenue Forecast by Country (2027-2032) & ($ millions)
Table 84. Global Thyristor Discs Sales Forecast by Type (2027-2032) & (K Pcs)
Table 85. Global Thyristor Discs Revenue Forecast by Type (2027-2032) & ($ millions)
Table 86. Global Thyristor Discs Sales Forecast by Application (2027-2032) & (K Pcs)
Table 87. Global Thyristor Discs Revenue Forecast by Application (2027-2032) & ($ millions)
Table 88. Infineon Technologies Basic Information, Thyristor Discs Manufacturing Base, Sales Area and Its Competitors
Table 89. Infineon Technologies Thyristor Discs Product Portfolios and Specifications
Table 90. Infineon Technologies Thyristor Discs Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 91. Infineon Technologies Main Business
Table 92. Infineon Technologies Latest Developments
Table 93. Hitachi Energy Basic Information, Thyristor Discs Manufacturing Base, Sales Area and Its Competitors

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Table 94. Hitachi Energy Thyristor Discs Product Portfolios and Specifications
Table 95. Hitachi Energy Thyristor Discs Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 96. Hitachi Energy Main Business
Table 97. Hitachi Energy Latest Developments
Table 98. Vishay Intertechnology Basic Information, Thyristor Discs Manufacturing Base, Sales Area and Its Competitors
Table 99. Vishay Intertechnology Thyristor Discs Product Portfolios and Specifications
Table 100. Vishay Intertechnology Thyristor Discs Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 101. Vishay Intertechnology Main Business
Table 102. Vishay Intertechnology Latest Developments
Table 103. IXYS UK Westcode Basic Information, Thyristor Discs Manufacturing Base, Sales Area and Its Competitors
Table 104. IXYS UK Westcode Thyristor Discs Product Portfolios and Specifications
Table 105. IXYS UK Westcode Thyristor Discs Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 106. IXYS UK Westcode Main Business
Table 107. IXYS UK Westcode Latest Developments
Table 108. Dynex Semiconductor Basic Information, Thyristor Discs Manufacturing Base, Sales Area and Its Competitors
Table 109. Dynex Semiconductor Thyristor Discs Product Portfolios and Specifications
Table 110. Dynex Semiconductor Thyristor Discs Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 111. Dynex Semiconductor Main Business
Table 112. Dynex Semiconductor Latest Developments
Table 113. Poseico Power Electronics Basic Information, Thyristor Discs Manufacturing Base, Sales Area and Its Competitors
Table 114. Poseico Power Electronics Thyristor Discs Product Portfolios and Specifications
Table 115. Poseico Power Electronics Thyristor Discs Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 116. Poseico Power Electronics Main Business
Table 117. Poseico Power Electronics Latest Developments
Table 118. Proton-Electrotex Basic Information, Thyristor Discs Manufacturing Base, Sales Area and Its Competitors
Table 119. Proton-Electrotex Thyristor Discs Product Portfolios and Specifications
Table 120. Proton-Electrotex Thyristor Discs Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)

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Table 121. Proton-Electrotex Main Business
Table 122. Proton-Electrotex Latest Developments
Table 123. PJSC Electrovipryamitel Basic Information, Thyristor Discs Manufacturing Base, Sales Area and Its Competitors
Table 124. PJSC Electrovipryamitel Thyristor Discs Product Portfolios and Specifications
Table 125. PJSC Electrovipryamitel Thyristor Discs Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 126. PJSC Electrovipryamitel Main Business
Table 127. PJSC Electrovipryamitel Latest Developments
Table 128. Powerex Basic Information, Thyristor Discs Manufacturing Base, Sales Area and Its Competitors
Table 129. Powerex Thyristor Discs Product Portfolios and Specifications
Table 130. Powerex Thyristor Discs Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 131. Powerex Main Business
Table 132. Powerex Latest Developments
Table 133. Sansha Electric Basic Information, Thyristor Discs Manufacturing Base, Sales Area and Its Competitors
Table 134. Sansha Electric Thyristor Discs Product Portfolios and Specifications
Table 135. Sansha Electric Thyristor Discs Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 136. Sansha Electric Main Business
Table 137. Sansha Electric Latest Developments
Table 138. Mitsubishi Electric Basic Information, Thyristor Discs Manufacturing Base, Sales Area and Its Competitors
Table 139. Mitsubishi Electric Thyristor Discs Product Portfolios and Specifications
Table 140. Mitsubishi Electric Thyristor Discs Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 141. Mitsubishi Electric Main Business
Table 142. Mitsubishi Electric Latest Developments
Table 143. Fuji Electric Basic Information, Thyristor Discs Manufacturing Base, Sales Area and Its Competitors
Table 144. Fuji Electric Thyristor Discs Product Portfolios and Specifications
Table 145. Fuji Electric Thyristor Discs Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 146. Fuji Electric Main Business
Table 147. Fuji Electric Latest Developments
Table 148. Semikron Danfoss Basic Information, Thyristor Discs Manufacturing Base,

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Sales Area and Its Competitors
Table 149. Semikron Danfoss Thyristor Discs Product Portfolios and Specifications
Table 150. Semikron Danfoss Thyristor Discs Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 151. Semikron Danfoss Main Business
Table 152. Semikron Danfoss Latest Developments
Table 153. Greegoo Electric Basic Information, Thyristor Discs Manufacturing Base, Sales Area and Its Competitors
Table 154. Greegoo Electric Thyristor Discs Product Portfolios and Specifications
Table 155. Greegoo Electric Thyristor Discs Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 156. Greegoo Electric Main Business
Table 157. Greegoo Electric Latest Developments
Table 158. WeEn Semiconductors Basic Information, Thyristor Discs Manufacturing Base, Sales Area and Its Competitors
Table 159. WeEn Semiconductors Thyristor Discs Product Portfolios and Specifications
Table 160. WeEn Semiconductors Thyristor Discs Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 161. WeEn Semiconductors Main Business
Table 162. WeEn Semiconductors Latest Developments
Table 163. Hubei Tech Semiconductors Basic Information, Thyristor Discs Manufacturing Base, Sales Area and Its Competitors
Table 164. Hubei Tech Semiconductors Thyristor Discs Product Portfolios and Specifications
Table 165. Hubei Tech Semiconductors Thyristor Discs Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 166. Hubei Tech Semiconductors Main Business
Table 167. Hubei Tech Semiconductors Latest Developments
Table 168. Yangzhou Positioning Tech Basic Information, Thyristor Discs Manufacturing Base, Sales Area and Its Competitors
Table 169. Yangzhou Positioning Tech Thyristor Discs Product Portfolios and Specifications
Table 170. Yangzhou Positioning Tech Thyristor Discs Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 171. Yangzhou Positioning Tech Main Business
Table 172. Yangzhou Positioning Tech Latest Developments
Table 173. LJ-MD Power Semiconductor Basic Information, Thyristor Discs Manufacturing Base, Sales Area and Its Competitors
Table 174. LJ-MD Power Semiconductor Thyristor Discs Product Portfolios and

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Specifications
Table 175. LJ-MD Power Semiconductor Thyristor Discs Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 176. LJ-MD Power Semiconductor Main Business
Table 177. LJ-MD Power Semiconductor Latest Developments
Table 178. Sailing Semiconductor Device Basic Information, Thyristor Discs Manufacturing Base, Sales Area and Its Competitors
Table 179. Sailing Semiconductor Device Thyristor Discs Product Portfolios and Specifications
Table 180. Sailing Semiconductor Device Thyristor Discs Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 181. Sailing Semiconductor Device Main Business
Table 182. Sailing Semiconductor Device Latest Developments
Table 183. Tianjin Century Electronics Basic Information, Thyristor Discs Manufacturing Base, Sales Area and Its Competitors
Table 184. Tianjin Century Electronics Thyristor Discs Product Portfolios and Specifications
Table 185. Tianjin Century Electronics Thyristor Discs Sales (K Pcs), Revenue ($ Million), Price (US$/Pcs) and Gross Margin (2021-2026)
Table 186. Tianjin Century Electronics Main Business
Table 187. Tianjin Century Electronics Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Thyristor Discs
Figure 2. Thyristor Discs Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Thyristor Discs Sales Growth Rate 2021-2032 (K Pcs)
Figure 7. Global Thyristor Discs Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Thyristor Discs Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Thyristor Discs Sales Market Share by Country/Region (2025)
Figure 10. Thyristor Discs Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Gate-Controlled Thyristors
Figure 12. Product Picture of Light-Triggered Thyristors
Figure 13. Product Picture of Reverse Conducting Thyristors
Figure 14. Global Thyristor Discs Sales Market Share by Type in 2026
Figure 15. Global Thyristor Discs Revenue Market Share by Type (2021-2026)
Figure 16. Product Picture of Low-Voltage Thyristor Discs (<1.5 kV)
Figure 17. Product Picture of Medium-Voltage Thyristor Discs (1.5–4.5 kV)
Figure 18. Product Picture of High-Voltage Thyristor Discs (>4.5 kV)
Figure 19. Global Thyristor Discs Sales Market Share by Voltage Rating in 2026
Figure 20. Global Thyristor Discs Revenue Market Share by Voltage Rating (2021-2026)
Figure 21. Product Picture of Air-Cooled
Figure 22. Product Picture of Liquid-Cooled
Figure 23. Global Thyristor Discs Sales Market Share by Cooling Method in 2026
Figure 24. Global Thyristor Discs Revenue Market Share by Cooling Method (2021-2026)
Figure 25. Thyristor Discs Consumed in Energy Systems
Figure 26. Global Thyristor Discs Market: Energy Systems (2021-2026) & (K Pcs)
Figure 27. Thyristor Discs Consumed in Transportation
Figure 28. Global Thyristor Discs Market: Transportation (2021-2026) & (K Pcs)
Figure 29. Thyristor Discs Consumed in Industrial
Figure 30. Global Thyristor Discs Market: Industrial (2021-2026) & (K Pcs)
Figure 31. Thyristor Discs Consumed in Metallurgical
Figure 32. Global Thyristor Discs Market: Metallurgical (2021-2026) & (K Pcs)

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Figure 33. Thyristor Discs Consumed in Petrochemical
Figure 34. Global Thyristor Discs Market: Petrochemical (2021-2026) & (K Pcs)
Figure 35. Thyristor Discs Consumed in Defense & Aerospace
Figure 36. Global Thyristor Discs Market: Defense & Aerospace (2021-2026) & (K Pcs)
Figure 37. Thyristor Discs Consumed in Others
Figure 38. Global Thyristor Discs Market: Others (2021-2026) & (K Pcs)
Figure 39. Global Thyristor Discs Sale Market Share by Application (2025)
Figure 40. Global Thyristor Discs Revenue Market Share by Application in 2026
Figure 41. Thyristor Discs Sales by Company in 2026 (K Pcs)
Figure 42. Global Thyristor Discs Sales Market Share by Company in 2026
Figure 43. Thyristor Discs Revenue by Company in 2026 ($ millions)
Figure 44. Global Thyristor Discs Revenue Market Share by Company in 2026
Figure 45. Global Thyristor Discs Sales Market Share by Geographic Region (2021-2026)
Figure 46. Global Thyristor Discs Revenue Market Share by Geographic Region in 2026
Figure 47. Americas Thyristor Discs Sales 2021-2026 (K Pcs)
Figure 48. Americas Thyristor Discs Revenue 2021-2026 ($ millions)
Figure 49. APAC Thyristor Discs Sales 2021-2026 (K Pcs)
Figure 50. APAC Thyristor Discs Revenue 2021-2026 ($ millions)
Figure 51. Europe Thyristor Discs Sales 2021-2026 (K Pcs)
Figure 52. Europe Thyristor Discs Revenue 2021-2026 ($ millions)
Figure 53. Middle East & Africa Thyristor Discs Sales 2021-2026 (K Pcs)
Figure 54. Middle East & Africa Thyristor Discs Revenue 2021-2026 ($ millions)
Figure 55. Americas Thyristor Discs Sales Market Share by Country in 2026
Figure 56. Americas Thyristor Discs Revenue Market Share by Country (2021-2026)
Figure 57. Americas Thyristor Discs Sales Market Share by Type (2021-2026)
Figure 58. Americas Thyristor Discs Sales Market Share by Application (2021-2026)
Figure 59. United States Thyristor Discs Revenue Growth 2021-2026 ($ millions)
Figure 60. Canada Thyristor Discs Revenue Growth 2021-2026 ($ millions)
Figure 61. Mexico Thyristor Discs Revenue Growth 2021-2026 ($ millions)
Figure 62. Brazil Thyristor Discs Revenue Growth 2021-2026 ($ millions)
Figure 63. APAC Thyristor Discs Sales Market Share by Region in 2026
Figure 64. APAC Thyristor Discs Revenue Market Share by Region (2021-2026)
Figure 65. APAC Thyristor Discs Sales Market Share by Type (2021-2026)
Figure 66. APAC Thyristor Discs Sales Market Share by Application (2021-2026)
Figure 67. China Thyristor Discs Revenue Growth 2021-2026 ($ millions)
Figure 68. Japan Thyristor Discs Revenue Growth 2021-2026 ($ millions)
Figure 69. South Korea Thyristor Discs Revenue Growth 2021-2026 ($ millions)
Figure 70. Southeast Asia Thyristor Discs Revenue Growth 2021-2026 ($ millions)

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Figure 71. India Thyristor Discs Revenue Growth 2021-2026 ($ millions)
Figure 72. Australia Thyristor Discs Revenue Growth 2021-2026 ($ millions)
Figure 73. China Taiwan Thyristor Discs Revenue Growth 2021-2026 ($ millions)
Figure 74. Europe Thyristor Discs Sales Market Share by Country in 2026
Figure 75. Europe Thyristor Discs Revenue Market Share by Country (2021-2026)
Figure 76. Europe Thyristor Discs Sales Market Share by Type (2021-2026)
Figure 77. Europe Thyristor Discs Sales Market Share by Application (2021-2026)
Figure 78. Germany Thyristor Discs Revenue Growth 2021-2026 ($ millions)
Figure 79. France Thyristor Discs Revenue Growth 2021-2026 ($ millions)
Figure 80. UK Thyristor Discs Revenue Growth 2021-2026 ($ millions)
Figure 81. Italy Thyristor Discs Revenue Growth 2021-2026 ($ millions)
Figure 82. Russia Thyristor Discs Revenue Growth 2021-2026 ($ millions)
Figure 83. Middle East & Africa Thyristor Discs Sales Market Share by Country (2021-2026)
Figure 84. Middle East & Africa Thyristor Discs Sales Market Share by Type (2021-2026)
Figure 85. Middle East & Africa Thyristor Discs Sales Market Share by Application (2021-2026)
Figure 86. Egypt Thyristor Discs Revenue Growth 2021-2026 ($ millions)
Figure 87. South Africa Thyristor Discs Revenue Growth 2021-2026 ($ millions)
Figure 88. Israel Thyristor Discs Revenue Growth 2021-2026 ($ millions)
Figure 89. Turkey Thyristor Discs Revenue Growth 2021-2026 ($ millions)
Figure 90. GCC Countries Thyristor Discs Revenue Growth 2021-2026 ($ millions)
Figure 91. Manufacturing Cost Structure Analysis of Thyristor Discs in 2026
Figure 92. Manufacturing Process Analysis of Thyristor Discs
Figure 93. Industry Chain Structure of Thyristor Discs
Figure 94. Channels of Distribution
Figure 95. Global Thyristor Discs Sales Market Forecast by Region (2027-2032)
Figure 96. Global Thyristor Discs Revenue Market Share Forecast by Region (2027-2032)
Figure 97. Global Thyristor Discs Sales Market Share Forecast by Type (2027-2032)
Figure 98. Global Thyristor Discs Revenue Market Share Forecast by Type (2027-2032)
Figure 99. Global Thyristor Discs Sales Market Share Forecast by Application (2027-2032)
Figure 100. Global Thyristor Discs Revenue Market Share Forecast by Application (2027-2032)

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