

Global Automobile A & C Electromagnetic Clutch Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automobile A & C Electromagnetic Clutch market size is expected to reach \$ 1245 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

The automotive A/C electromagnetic clutch is an electromagnetically controlled transmission component mounted on the front of the A/C compressor. It utilizes magnetic force generated by an energized coil to engage or disengage the pulley from the compressor shaft, thereby controlling compressor start/stop, cooling functions, and power disconnection.

Upstream components include electromagnetic coils, bearings, pulleys, armature plates, friction discs, springs, steel, copper wire, insulation materials, and precision stamped parts; downstream applications span passenger vehicles, commercial vehicles, construction machinery, agricultural machinery, and the aftermarket.

The global market for automotive electromagnetic fan clutches features an average unit price of \$180, with a sales volume of approximately 4.69 million units, an annual production capacity of about 5 million units, and an industry profit margin of around 27%

The global market for automotive A/C electromagnetic clutches is expected to undergo structural differentiation. Traditional internal combustion engine (ICE) vehicles and mild-hybrid models continue to rely on belt-driven compressors, sustaining demand for electromagnetic clutches in the aftermarket and existing vehicle fleets; conversely, the increasing adoption of electric compressors in battery electric vehicles (BEVs) exerts substitution pressure on traditional electromagnetic clutches. Future product upgrades will focus on low noise, low power consumption, high heat resistance, extended service

life, and lightweight design, with particular emphasis on improving coil efficiency, bearing longevity, friction stability, and vibration resistance. Demand will be underpinned by the aftermarket, commercial vehicles, construction and agricultural machinery, and the existing population of ICE vehicles in developing regions, while high-end products will prioritize reliability, energy efficiency, and compatibility with vehicle systems.

This report studies the global Automobile A & C Electromagnetic Clutch production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Automobile A & C Electromagnetic Clutch total production and demand, 2021-2032, (K Units)

Global Automobile A & C Electromagnetic Clutch total production value, 2021-2032, (USD Million)

Global Automobile A & C Electromagnetic Clutch production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Automobile A & C Electromagnetic Clutch consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automobile A & C Electromagnetic Clutch domestic production, consumption, key domestic manufacturers and share

Global Automobile A & C Electromagnetic Clutch production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Automobile A & C Electromagnetic Clutch production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automobile A & C Electromagnetic Clutch production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automobile A & C Electromagnetic Clutch market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key

companies covered as a part of this study include Solero Technologies, LICOS Trucktec, Horton, Warner Electric, Ogura Clutch, BorgWarner, MAHLE, Hayden Automotive, American Cooling Systems, Xuelong Group, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Automobile A & C Electromagnetic Clutch market

Detailed Segmentation:

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

Global Automobile A & C Electromagnetic Clutch Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automobile A & C Electromagnetic Clutch Market, Segmentation by Type:

Single-disc A/C Electromagnetic Clutch

Multi-disc A/C Electromagnetic Clutch

Pulley-type A/C Electromagnetic Clutch

Integrated A/C Compressor Clutch Assembly

Global Automobile A & C Electromagnetic Clutch Market, Segmentation by Voltage Rating:

12 V A/C Electromagnetic Clutch

24 V A/C Electromagnetic Clutch

48 V A/C Electromagnetic Clutch

Global Automobile A & C Electromagnetic Clutch Market, Segmentation by Control Method:

On-off Controlled A/C Clutch

ECU-controlled A/C Clutch

PWM Controlled A/C Clutch

Thermostat-controlled A/C Clutch

Pressure Switch-controlled A/C Clutch

Global Automobile A & C Electromagnetic Clutch Market, Segmentation by Application:

Passenger Vehicle

Commercial Vehicle

Companies Profiled:

Solero Technologies

LICOS Trucktec

Horton

Warner Electric

Ogura Clutch

BorgWarner

MAHLE

Hayden Automotive

American Cooling Systems

Xuelong Group

BorgWarner Shenglong

Longkou Zhongyu

Longzhong Holding

Jiangsu Geldon Transmission

Key Questions Answered:

1. How big is the global Automobile A & C Electromagnetic Clutch market?
2. What is the demand of the global Automobile A & C Electromagnetic Clutch market?
3. What is the year over year growth of the global Automobile A & C Electromagnetic Clutch market?
4. What is the production and production value of the global Automobile A & C Electromagnetic Clutch market?
5. Who are the key producers in the global Automobile A & C Electromagnetic Clutch

market?

6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Automobile A & C Electromagnetic Clutch Demand (2021-2032)
- 2.2 World Automobile A & C Electromagnetic Clutch Consumption by Region
 - 2.2.1 World Automobile A & C Electromagnetic Clutch Consumption by Region (2021-2026)
 - 2.2.2 World Automobile A & C Electromagnetic Clutch Consumption Forecast by Region (2027-2032)
- 2.3 United States Automobile A & C Electromagnetic Clutch Consumption (2021-2032)
- 2.4 China Automobile A & C Electromagnetic Clutch Consumption (2021-2032)

- 2.5 Europe Automobile A & C Electromagnetic Clutch Consumption (2021-2032)
- 2.6 Japan Automobile A & C Electromagnetic Clutch Consumption (2021-2032)
- 2.7 South Korea Automobile A & C Electromagnetic Clutch Consumption (2021-2032)
- 2.8 ASEAN Automobile A & C Electromagnetic Clutch Consumption (2021-2032)
- 2.9 India Automobile A & C Electromagnetic Clutch Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Automobile A & C Electromagnetic Clutch Production

Value Comparison

4.1.1 United States VS China: Automobile A & C Electromagnetic Clutch Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Automobile A & C Electromagnetic Clutch Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Automobile A & C Electromagnetic Clutch Production Comparison

4.2.1 United States VS China: Automobile A & C Electromagnetic Clutch Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Automobile A & C Electromagnetic Clutch Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Automobile A & C Electromagnetic Clutch Consumption Comparison

4.3.1 United States VS China: Automobile A & C Electromagnetic Clutch Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Automobile A & C Electromagnetic Clutch Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Automobile A & C Electromagnetic Clutch Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Automobile A & C Electromagnetic Clutch Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Automobile A & C Electromagnetic Clutch Production Value (2021-2026)

4.4.3 United States Based Manufacturers Automobile A & C Electromagnetic Clutch Production (2021-2026)

4.5 China Based Automobile A & C Electromagnetic Clutch Manufacturers and Market Share

4.5.1 China Based Automobile A & C Electromagnetic Clutch Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Automobile A & C Electromagnetic Clutch Production Value (2021-2026)

4.5.3 China Based Manufacturers Automobile A & C Electromagnetic Clutch Production (2021-2026)

4.6 Rest of World Based Automobile A & C Electromagnetic Clutch Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Automobile A & C Electromagnetic Clutch Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Automobile A & C Electromagnetic Clutch Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Automobile A & C Electromagnetic Clutch Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Automobile A & C Electromagnetic Clutch Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Single-disc A/C Electromagnetic Clutch

5.2.2 Multi-disc A/C Electromagnetic Clutch

5.2.3 Pulley-type A/C Electromagnetic Clutch

5.2.4 Integrated A/C Compressor Clutch Assembly

5.3 Market Segment by Type

5.3.1 World Automobile A & C Electromagnetic Clutch Production by Type (2021-2032)

5.3.2 World Automobile A & C Electromagnetic Clutch Production Value by Type (2021-2032)

5.3.3 World Automobile A & C Electromagnetic Clutch Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY VOLTAGE RATING

6.1 World Automobile A & C Electromagnetic Clutch Market Size Overview by Voltage Rating: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Voltage Rating

6.2.1 12 V A/C Electromagnetic Clutch

6.2.2 24 V A/C Electromagnetic Clutch

6.2.3 48 V A/C Electromagnetic Clutch

6.3 Market Segment by Voltage Rating

6.3.1 World Automobile A & C Electromagnetic Clutch Production by Voltage Rating (2021-2032)

6.3.2 World Automobile A & C Electromagnetic Clutch Production Value by Voltage Rating (2021-2032)

6.3.3 World Automobile A & C Electromagnetic Clutch Average Price by Voltage Rating (2021-2032)

7 MARKET ANALYSIS BY CONTROL METHOD

7.1 World Automobile A & C Electromagnetic Clutch Market Size Overview by Control

Method: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Control Method

7.2.1 On-off Controlled A/C Clutch

7.2.2 ECU-controlled A/C Clutch

7.2.3 PWM Controlled A/C Clutch

7.2.4 Thermostat-controlled A/C Clutch

7.2.5 Pressure Switch-controlled A/C Clutch

7.3 Market Segment by Control Method

7.3.1 World Automobile A & C Electromagnetic Clutch Production by Control Method (2021-2032)

7.3.2 World Automobile A & C Electromagnetic Clutch Production Value by Control Method (2021-2032)

7.3.3 World Automobile A & C Electromagnetic Clutch Average Price by Control Method (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Automobile A & C Electromagnetic Clutch Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Passenger Vehicle

8.2.2 Commercial Vehicle

8.3 Market Segment by Application

8.3.1 World Automobile A & C Electromagnetic Clutch Production by Application (2021-2032)

8.3.2 World Automobile A & C Electromagnetic Clutch Production Value by Application (2021-2032)

8.3.3 World Automobile A & C Electromagnetic Clutch Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Solero Technologies

9.1.1 Solero Technologies Details

9.1.2 Solero Technologies Major Business

9.1.3 Solero Technologies Automobile A & C Electromagnetic Clutch Product and Services

9.1.4 Solero Technologies Automobile A & C Electromagnetic Clutch Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.1.5 Solero Technologies Recent Developments/Updates
- 9.1.6 Solero Technologies Competitive Strengths & Weaknesses
- 9.2 LICOS Trucktec
 - 9.2.1 LICOS Trucktec Details
 - 9.2.2 LICOS Trucktec Major Business
 - 9.2.3 LICOS Trucktec Automobile A & C Electromagnetic Clutch Product and Services
 - 9.2.4 LICOS Trucktec Automobile A & C Electromagnetic Clutch Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 LICOS Trucktec Recent Developments/Updates
 - 9.2.6 LICOS Trucktec Competitive Strengths & Weaknesses
- 9.3 Horton
 - 9.3.1 Horton Details
 - 9.3.2 Horton Major Business
 - 9.3.3 Horton Automobile A & C Electromagnetic Clutch Product and Services
 - 9.3.4 Horton Automobile A & C Electromagnetic Clutch Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Horton Recent Developments/Updates
 - 9.3.6 Horton Competitive Strengths & Weaknesses
- 9.4 Warner Electric
 - 9.4.1 Warner Electric Details
 - 9.4.2 Warner Electric Major Business
 - 9.4.3 Warner Electric Automobile A & C Electromagnetic Clutch Product and Services
 - 9.4.4 Warner Electric Automobile A & C Electromagnetic Clutch Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Warner Electric Recent Developments/Updates
 - 9.4.6 Warner Electric Competitive Strengths & Weaknesses
- 9.5 Ogura Clutch
 - 9.5.1 Ogura Clutch Details
 - 9.5.2 Ogura Clutch Major Business
 - 9.5.3 Ogura Clutch Automobile A & C Electromagnetic Clutch Product and Services
 - 9.5.4 Ogura Clutch Automobile A & C Electromagnetic Clutch Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Ogura Clutch Recent Developments/Updates
 - 9.5.6 Ogura Clutch Competitive Strengths & Weaknesses
- 9.6 BorgWarner
 - 9.6.1 BorgWarner Details
 - 9.6.2 BorgWarner Major Business
 - 9.6.3 BorgWarner Automobile A & C Electromagnetic Clutch Product and Services
 - 9.6.4 BorgWarner Automobile A & C Electromagnetic Clutch Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.6.5 BorgWarner Recent Developments/Updates

9.6.6 BorgWarner Competitive Strengths & Weaknesses

9.7 MAHLE

9.7.1 MAHLE Details

9.7.2 MAHLE Major Business

9.7.3 MAHLE Automobile A & C Electromagnetic Clutch Product and Services

9.7.4 MAHLE Automobile A & C Electromagnetic Clutch Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.7.5 MAHLE Recent Developments/Updates

9.7.6 MAHLE Competitive Strengths & Weaknesses

9.8 Hayden Automotive

9.8.1 Hayden Automotive Details

9.8.2 Hayden Automotive Major Business

9.8.3 Hayden Automotive Automobile A & C Electromagnetic Clutch Product and

Services

9.8.4 Hayden Automotive Automobile A & C Electromagnetic Clutch Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Hayden Automotive Recent Developments/Updates

9.8.6 Hayden Automotive Competitive Strengths & Weaknesses

9.9 American Cooling Systems

9.9.1 American Cooling Systems Details

9.9.2 American Cooling Systems Major Business

9.9.3 American Cooling Systems Automobile A & C Electromagnetic Clutch Product and Services

9.9.4 American Cooling Systems Automobile A & C Electromagnetic Clutch Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 American Cooling Systems Recent Developments/Updates

9.9.6 American Cooling Systems Competitive Strengths & Weaknesses

9.10 Xuelong Group

9.10.1 Xuelong Group Details

9.10.2 Xuelong Group Major Business

9.10.3 Xuelong Group Automobile A & C Electromagnetic Clutch Product and Services

9.10.4 Xuelong Group Automobile A & C Electromagnetic Clutch Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Xuelong Group Recent Developments/Updates

9.10.6 Xuelong Group Competitive Strengths & Weaknesses

9.11 BorgWarner Shenglong

9.11.1 BorgWarner Shenglong Details

- 9.11.2 BorgWarner Shenglong Major Business
- 9.11.3 BorgWarner Shenglong Automobile A & C Electromagnetic Clutch Product and Services
- 9.11.4 BorgWarner Shenglong Automobile A & C Electromagnetic Clutch Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 BorgWarner Shenglong Recent Developments/Updates
- 9.11.6 BorgWarner Shenglong Competitive Strengths & Weaknesses
- 9.12 Longkou Zhongyu
 - 9.12.1 Longkou Zhongyu Details
 - 9.12.2 Longkou Zhongyu Major Business
 - 9.12.3 Longkou Zhongyu Automobile A & C Electromagnetic Clutch Product and Services
 - 9.12.4 Longkou Zhongyu Automobile A & C Electromagnetic Clutch Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Longkou Zhongyu Recent Developments/Updates
 - 9.12.6 Longkou Zhongyu Competitive Strengths & Weaknesses
- 9.13 Longzhong Holding
 - 9.13.1 Longzhong Holding Details
 - 9.13.2 Longzhong Holding Major Business
 - 9.13.3 Longzhong Holding Automobile A & C Electromagnetic Clutch Product and Services
 - 9.13.4 Longzhong Holding Automobile A & C Electromagnetic Clutch Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Longzhong Holding Recent Developments/Updates
 - 9.13.6 Longzhong Holding Competitive Strengths & Weaknesses
- 9.14 Jiangsu Geldon Transmission
 - 9.14.1 Jiangsu Geldon Transmission Details
 - 9.14.2 Jiangsu Geldon Transmission Major Business
 - 9.14.3 Jiangsu Geldon Transmission Automobile A & C Electromagnetic Clutch Product and Services
 - 9.14.4 Jiangsu Geldon Transmission Automobile A & C Electromagnetic Clutch Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Jiangsu Geldon Transmission Recent Developments/Updates
 - 9.14.6 Jiangsu Geldon Transmission Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Automobile A & C Electromagnetic Clutch Industry Chain
- 10.2 Automobile A & C Electromagnetic Clutch Upstream Analysis

10.2.1 Automobile A & C Electromagnetic Clutch Core Raw Materials

10.2.2 Main Manufacturers of Automobile A & C Electromagnetic Clutch Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Automobile A & C Electromagnetic Clutch Production Mode

10.6 Automobile A & C Electromagnetic Clutch Procurement Model

10.7 Automobile A & C Electromagnetic Clutch Industry Sales Model and Sales Channels

10.7.1 Automobile A & C Electromagnetic Clutch Sales Model

10.7.2 Automobile A & C Electromagnetic Clutch Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Automobile A & C Electromagnetic Clutch Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Automobile A & C Electromagnetic Clutch Production Value by Region (2021-2026) & (USD Million)

Table 3. World Automobile A & C Electromagnetic Clutch Production Value by Region (2027-2032) & (USD Million)

Table 4. World Automobile A & C Electromagnetic Clutch Production Value Market Share by Region (2021-2026)

Table 5. World Automobile A & C Electromagnetic Clutch Production Value Market Share by Region (2027-2032)

Table 6. World Automobile A & C Electromagnetic Clutch Production by Region (2021-2026) & (K Units)

Table 7. World Automobile A & C Electromagnetic Clutch Production by Region (2027-2032) & (K Units)

Table 8. World Automobile A & C Electromagnetic Clutch Production Market Share by Region (2021-2026)

Table 9. World Automobile A & C Electromagnetic Clutch Production Market Share by Region (2027-2032)

Table 10. World Automobile A & C Electromagnetic Clutch Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Automobile A & C Electromagnetic Clutch Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Automobile A & C Electromagnetic Clutch Major Market Trends

Table 13. World Automobile A & C Electromagnetic Clutch Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Automobile A & C Electromagnetic Clutch Consumption by Region (2021-2026) & (K Units)

Table 15. World Automobile A & C Electromagnetic Clutch Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Automobile A & C Electromagnetic Clutch Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Automobile A & C Electromagnetic Clutch Producers in 2025

Table 18. World Automobile A & C Electromagnetic Clutch Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Automobile A & C Electromagnetic Clutch Producers in 2025

Table 20. World Automobile A & C Electromagnetic Clutch Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Automobile A & C Electromagnetic Clutch Company Evaluation Quadrant

Table 22. World Automobile A & C Electromagnetic Clutch Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Automobile A & C Electromagnetic Clutch Production Site of Key Manufacturer

Table 24. Automobile A & C Electromagnetic Clutch Market: Company Product Type Footprint

Table 25. Automobile A & C Electromagnetic Clutch Market: Company Product Application Footprint

Table 26. Automobile A & C Electromagnetic Clutch Competitive Factors

Table 27. Automobile A & C Electromagnetic Clutch New Entrant and Capacity Expansion Plans

Table 28. Automobile A & C Electromagnetic Clutch Mergers & Acquisitions Activity

Table 29. United States VS China Automobile A & C Electromagnetic Clutch Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Automobile A & C Electromagnetic Clutch Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Automobile A & C Electromagnetic Clutch Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Automobile A & C Electromagnetic Clutch Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Automobile A & C Electromagnetic Clutch Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Automobile A & C Electromagnetic Clutch Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Automobile A & C Electromagnetic Clutch Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Automobile A & C Electromagnetic Clutch Production Market Share (2021-2026)

Table 37. China Based Automobile A & C Electromagnetic Clutch Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Automobile A & C Electromagnetic Clutch Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Automobile A & C Electromagnetic Clutch

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Automobile A & C Electromagnetic Clutch Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Automobile A & C Electromagnetic Clutch Production Market Share (2021-2026)

Table 42. Rest of World Based Automobile A & C Electromagnetic Clutch Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Automobile A & C Electromagnetic Clutch Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Automobile A & C Electromagnetic Clutch Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Automobile A & C Electromagnetic Clutch Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Automobile A & C Electromagnetic Clutch Production Market Share (2021-2026)

Table 47. World Automobile A & C Electromagnetic Clutch Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Automobile A & C Electromagnetic Clutch Production by Type (2021-2026) & (K Units)

Table 49. World Automobile A & C Electromagnetic Clutch Production by Type (2027-2032) & (K Units)

Table 50. World Automobile A & C Electromagnetic Clutch Production Value by Type (2021-2026) & (USD Million)

Table 51. World Automobile A & C Electromagnetic Clutch Production Value by Type (2027-2032) & (USD Million)

Table 52. World Automobile A & C Electromagnetic Clutch Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Automobile A & C Electromagnetic Clutch Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Automobile A & C Electromagnetic Clutch Production Value by Voltage Rating, (USD Million), 2021 & 2025 & 2032

Table 55. World Automobile A & C Electromagnetic Clutch Production by Voltage Rating (2021-2026) & (K Units)

Table 56. World Automobile A & C Electromagnetic Clutch Production by Voltage Rating (2027-2032) & (K Units)

Table 57. World Automobile A & C Electromagnetic Clutch Production Value by Voltage Rating (2021-2026) & (USD Million)

Table 58. World Automobile A & C Electromagnetic Clutch Production Value by Voltage Rating (2027-2032) & (USD Million)

Table 59. World Automobile A & C Electromagnetic Clutch Average Price by Voltage Rating (2021-2026) & (US\$/Unit)

Table 60. World Automobile A & C Electromagnetic Clutch Average Price by Voltage Rating (2027-2032) & (US\$/Unit)

Table 61. World Automobile A & C Electromagnetic Clutch Production Value by Control Method, (USD Million), 2021 & 2025 & 2032

Table 62. World Automobile A & C Electromagnetic Clutch Production by Control Method (2021-2026) & (K Units)

Table 63. World Automobile A & C Electromagnetic Clutch Production by Control Method (2027-2032) & (K Units)

Table 64. World Automobile A & C Electromagnetic Clutch Production Value by Control Method (2021-2026) & (USD Million)

Table 65. World Automobile A & C Electromagnetic Clutch Production Value by Control Method (2027-2032) & (USD Million)

Table 66. World Automobile A & C Electromagnetic Clutch Average Price by Control Method (2021-2026) & (US\$/Unit)

Table 67. World Automobile A & C Electromagnetic Clutch Average Price by Control Method (2027-2032) & (US\$/Unit)

Table 68. World Automobile A & C Electromagnetic Clutch Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Automobile A & C Electromagnetic Clutch Production by Application (2021-2026) & (K Units)

Table 70. World Automobile A & C Electromagnetic Clutch Production by Application (2027-2032) & (K Units)

Table 71. World Automobile A & C Electromagnetic Clutch Production Value by Application (2021-2026) & (USD Million)

Table 72. World Automobile A & C Electromagnetic Clutch Production Value by Application (2027-2032) & (USD Million)

Table 73. World Automobile A & C Electromagnetic Clutch Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Automobile A & C Electromagnetic Clutch Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Solero Technologies Basic Information, Manufacturing Base and Competitors

Table 76. Solero Technologies Major Business

Table 77. Solero Technologies Automobile A & C Electromagnetic Clutch Product and Services

Table 78. Solero Technologies Automobile A & C Electromagnetic Clutch Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Solero Technologies Recent Developments/Updates
Table 80. Solero Technologies Competitive Strengths & Weaknesses
Table 81. LICOS Trucktec Basic Information, Manufacturing Base and Competitors
Table 82. LICOS Trucktec Major Business
Table 83. LICOS Trucktec Automobile A & C Electromagnetic Clutch Product and Services
Table 84. LICOS Trucktec Automobile A & C Electromagnetic Clutch Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. LICOS Trucktec Recent Developments/Updates
Table 86. LICOS Trucktec Competitive Strengths & Weaknesses
Table 87. Horton Basic Information, Manufacturing Base and Competitors
Table 88. Horton Major Business
Table 89. Horton Automobile A & C Electromagnetic Clutch Product and Services
Table 90. Horton Automobile A & C Electromagnetic Clutch Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Horton Recent Developments/Updates
Table 92. Horton Competitive Strengths & Weaknesses
Table 93. Warner Electric Basic Information, Manufacturing Base and Competitors
Table 94. Warner Electric Major Business
Table 95. Warner Electric Automobile A & C Electromagnetic Clutch Product and Services
Table 96. Warner Electric Automobile A & C Electromagnetic Clutch Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Warner Electric Recent Developments/Updates
Table 98. Warner Electric Competitive Strengths & Weaknesses
Table 99. Ogura Clutch Basic Information, Manufacturing Base and Competitors
Table 100. Ogura Clutch Major Business
Table 101. Ogura Clutch Automobile A & C Electromagnetic Clutch Product and Services
Table 102. Ogura Clutch Automobile A & C Electromagnetic Clutch Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Ogura Clutch Recent Developments/Updates
Table 104. Ogura Clutch Competitive Strengths & Weaknesses
Table 105. BorgWarner Basic Information, Manufacturing Base and Competitors
Table 106. BorgWarner Major Business

Table 107. BorgWarner Automobile A & C Electromagnetic Clutch Product and Services

Table 108. BorgWarner Automobile A & C Electromagnetic Clutch Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. BorgWarner Recent Developments/Updates

Table 110. BorgWarner Competitive Strengths & Weaknesses

Table 111. MAHLE Basic Information, Manufacturing Base and Competitors

Table 112. MAHLE Major Business

Table 113. MAHLE Automobile A & C Electromagnetic Clutch Product and Services

Table 114. MAHLE Automobile A & C Electromagnetic Clutch Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. MAHLE Recent Developments/Updates

Table 116. MAHLE Competitive Strengths & Weaknesses

Table 117. Hayden Automotive Basic Information, Manufacturing Base and Competitors

Table 118. Hayden Automotive Major Business

Table 119. Hayden Automotive Automobile A & C Electromagnetic Clutch Product and Services

Table 120. Hayden Automotive Automobile A & C Electromagnetic Clutch Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Hayden Automotive Recent Developments/Updates

Table 122. Hayden Automotive Competitive Strengths & Weaknesses

Table 123. American Cooling Systems Basic Information, Manufacturing Base and Competitors

Table 124. American Cooling Systems Major Business

Table 125. American Cooling Systems Automobile A & C Electromagnetic Clutch Product and Services

Table 126. American Cooling Systems Automobile A & C Electromagnetic Clutch Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. American Cooling Systems Recent Developments/Updates

Table 128. American Cooling Systems Competitive Strengths & Weaknesses

Table 129. Xuelong Group Basic Information, Manufacturing Base and Competitors

Table 130. Xuelong Group Major Business

Table 131. Xuelong Group Automobile A & C Electromagnetic Clutch Product and Services

Table 132. Xuelong Group Automobile A & C Electromagnetic Clutch Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 133. Xuelong Group Recent Developments/Updates

Table 134. Xuelong Group Competitive Strengths & Weaknesses

Table 135. BorgWarner Shenglong Basic Information, Manufacturing Base and Competitors

Table 136. BorgWarner Shenglong Major Business

Table 137. BorgWarner Shenglong Automobile A & C Electromagnetic Clutch Product and Services

Table 138. BorgWarner Shenglong Automobile A & C Electromagnetic Clutch Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. BorgWarner Shenglong Recent Developments/Updates

Table 140. BorgWarner Shenglong Competitive Strengths & Weaknesses

Table 141. Longkou Zhongyu Basic Information, Manufacturing Base and Competitors

Table 142. Longkou Zhongyu Major Business

Table 143. Longkou Zhongyu Automobile A & C Electromagnetic Clutch Product and Services

Table 144. Longkou Zhongyu Automobile A & C Electromagnetic Clutch Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Longkou Zhongyu Recent Developments/Updates

Table 146. Longkou Zhongyu Competitive Strengths & Weaknesses

Table 147. Longzhong Holding Basic Information, Manufacturing Base and Competitors

Table 148. Longzhong Holding Major Business

Table 149. Longzhong Holding Automobile A & C Electromagnetic Clutch Product and Services

Table 150. Longzhong Holding Automobile A & C Electromagnetic Clutch Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Longzhong Holding Recent Developments/Updates

Table 152. Longzhong Holding Competitive Strengths & Weaknesses

Table 153. Jiangsu Geldon Transmission Basic Information, Manufacturing Base and Competitors

Table 154. Jiangsu Geldon Transmission Major Business

Table 155. Jiangsu Geldon Transmission Automobile A & C Electromagnetic Clutch Product and Services

Table 156. Jiangsu Geldon Transmission Automobile A & C Electromagnetic Clutch Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Jiangsu Geldon Transmission Recent Developments/Updates

Table 158. Jiangsu Geldon Transmission Competitive Strengths & Weaknesses

Table 159. Global Key Players of Automobile A & C Electromagnetic Clutch Upstream
(Raw Materials)

Table 160. Global Automobile A & C Electromagnetic Clutch Typical Customers

Table 161. Automobile A & C Electromagnetic Clutch Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Automobile A & C Electromagnetic Clutch Picture

Figure 2. World Automobile A & C Electromagnetic Clutch Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Automobile A & C Electromagnetic Clutch Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Automobile A & C Electromagnetic Clutch Production (2021-2032) & (K Units)

Figure 5. World Automobile A & C Electromagnetic Clutch Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Automobile A & C Electromagnetic Clutch Production Value Market Share by Region (2021-2032)

Figure 7. World Automobile A & C Electromagnetic Clutch Production Market Share by Region (2021-2032)

Figure 8. North America Automobile A & C Electromagnetic Clutch Production (2021-2032) & (K Units)

Figure 9. Europe Automobile A & C Electromagnetic Clutch Production (2021-2032) & (K Units)

Figure 10. China Automobile A & C Electromagnetic Clutch Production (2021-2032) & (K Units)

Figure 11. Japan Automobile A & C Electromagnetic Clutch Production (2021-2032) & (K Units)

Figure 12. South Korea Automobile A & C Electromagnetic Clutch Production (2021-2032) & (K Units)

Figure 13. India Automobile A & C Electromagnetic Clutch Production (2021-2032) & (K Units)

Figure 14. Automobile A & C Electromagnetic Clutch Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Automobile A & C Electromagnetic Clutch Consumption (2021-2032) & (K Units)

Figure 17. World Automobile A & C Electromagnetic Clutch Consumption Market Share by Region (2021-2032)

Figure 18. United States Automobile A & C Electromagnetic Clutch Consumption (2021-2032) & (K Units)

Figure 19. China Automobile A & C Electromagnetic Clutch Consumption (2021-2032) & (K Units)

Figure 20. Europe Automobile A & C Electromagnetic Clutch Consumption (2021-2032) & (K Units)

Figure 21. Japan Automobile A & C Electromagnetic Clutch Consumption (2021-2032) & (K Units)

Figure 22. South Korea Automobile A & C Electromagnetic Clutch Consumption (2021-2032) & (K Units)

Figure 23. ASEAN Automobile A & C Electromagnetic Clutch Consumption (2021-2032) & (K Units)

Figure 24. India Automobile A & C Electromagnetic Clutch Consumption (2021-2032) & (K Units)

Figure 25. Producer Shipments of Automobile A & C Electromagnetic Clutch by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Automobile A & C Electromagnetic Clutch Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Automobile A & C Electromagnetic Clutch Markets in 2025

Figure 28. United States VS China: Automobile A & C Electromagnetic Clutch Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Automobile A & C Electromagnetic Clutch Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Automobile A & C Electromagnetic Clutch Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Automobile A & C Electromagnetic Clutch Production Market Share 2025

Figure 32. China Based Manufacturers Automobile A & C Electromagnetic Clutch Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Automobile A & C Electromagnetic Clutch Production Market Share 2025

Figure 34. World Automobile A & C Electromagnetic Clutch Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Automobile A & C Electromagnetic Clutch Production Value Market Share by Type in 2025

Figure 36. Single-disc A/C Electromagnetic Clutch

Figure 37. Multi-disc A/C Electromagnetic Clutch

Figure 38. Pulley-type A/C Electromagnetic Clutch

Figure 39. Integrated A/C Compressor Clutch Assembly

Figure 40. World Automobile A & C Electromagnetic Clutch Production Market Share by Type (2021-2032)

Figure 41. World Automobile A & C Electromagnetic Clutch Production Value Market

Share by Type (2021-2032)

Figure 42. World Automobile A & C Electromagnetic Clutch Average Price by Type (2021-2032) & (US\$/Unit)

Figure 43. World Automobile A & C Electromagnetic Clutch Production Value by Voltage Rating, (USD Million), 2021 & 2025 & 2032

Figure 44. World Automobile A & C Electromagnetic Clutch Production Value Market Share by Voltage Rating in 2025

Figure 45. 12 V A/C Electromagnetic Clutch

Figure 46. 24 V A/C Electromagnetic Clutch

Figure 47. 48 V A/C Electromagnetic Clutch

Figure 48. World Automobile A & C Electromagnetic Clutch Production Market Share by Voltage Rating (2021-2032)

Figure 49. World Automobile A & C Electromagnetic Clutch Production Value Market Share by Voltage Rating (2021-2032)

Figure 50. World Automobile A & C Electromagnetic Clutch Average Price by Voltage Rating (2021-2032) & (US\$/Unit)

Figure 51. World Automobile A & C Electromagnetic Clutch Production Value by Control Method, (USD Million), 2021 & 2025 & 2032

Figure 52. World Automobile A & C Electromagnetic Clutch Production Value Market Share by Control Method in 2025

Figure 53. On-off Controlled A/C Clutch

Figure 54. ECU-controlled A/C Clutch

Figure 55. PWM Controlled A/C Clutch

Figure 56. Thermostat-controlled A/C Clutch

Figure 57. Pressure Switch-controlled A/C Clutch

Figure 58. World Automobile A & C Electromagnetic Clutch Production Market Share by Control Method (2021-2032)

Figure 59. World Automobile A & C Electromagnetic Clutch Production Value Market Share by Control Method (2021-2032)

Figure 60. World Automobile A & C Electromagnetic Clutch Average Price by Control Method (2021-2032) & (US\$/Unit)

Figure 61. World Automobile A & C Electromagnetic Clutch Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 62. World Automobile A & C Electromagnetic Clutch Production Value Market Share by Application in 2025

Figure 63. Passenger Vehicle

Figure 64. Commercial Vehicle

Figure 65. World Automobile A & C Electromagnetic Clutch Production Market Share by Application (2021-2032)

Figure 66. World Automobile A & C Electromagnetic Clutch Production Value Market Share by Application (2021-2032)

Figure 67. World Automobile A & C Electromagnetic Clutch Average Price by Application (2021-2032) & (US\$/Unit)

Figure 68. Automobile A & C Electromagnetic Clutch Industry Chain

Figure 69. Automobile A & C Electromagnetic Clutch Procurement Model

Figure 70. Automobile A & C Electromagnetic Clutch Sales Model

Figure 71. Automobile A & C Electromagnetic Clutch Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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