

Global Coupler Buffer Device Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Coupler Buffer Device market size was valued at US\$ 314 million in 2024 and is forecast to a readjusted size of USD 428 million by 2031 with a CAGR of 4.6% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

The coupler buffer device is a railway component used to connect vehicles, locomotives, or multiple units, transmitting traction and braking forces while mitigating longitudinal impact forces. It consists of a coupler, buffer, yoke, draft gear, and other components, forming a complete system installed within the draft beam at the end of the underframe. Its primary function is to ensure a secure connection between train cars and to absorb and cushion impacts caused by traction, braking, and collisions during train operation. The coupler is responsible for bearing and transmitting traction forces, while the buffer reduces impacts through elastic elements, hydraulic mechanisms, or friction systems, thereby improving the safety, stability, and comfort of train operations.

The coupler buffer device is a crucial component in railway coupling systems, designed to absorb impact energy during train acceleration, braking, and collisions, ensuring smooth operation and passenger safety. With the expansion of high-speed rail, heavy-haul freight, and urban rail transit, the demand for advanced coupler buffer systems is steadily increasing.

From a technical perspective, coupler buffer devices can be classified into mechanical,

hydraulic, and elastomer-based buffers. Mechanical buffers are simple and easy to maintain, making them widely used in freight trains and conventional passenger trains. Hydraulic buffers, known for their excellent energy absorption and smooth buffering performance, are widely applied in high-speed rail and modern passenger rail systems. Elastomer-based buffers, with their durability and low-maintenance advantages, are preferred in metro, light rail, and tram applications. In recent years, the emergence of smart buffer systems, integrating sensors for impact monitoring, wear prediction, and remote maintenance, has enhanced operational safety and efficiency.

From an application perspective, high-speed rail, heavy-haul rail, and urban transit systems are the primary market drivers. High-speed rail networks in China, Europe, and Japan demand high-strength, lightweight, and intelligent buffer solutions to ensure safety at high velocities. Heavy-haul freight rail, driven by the increasing demand for coal, minerals, and bulk commodities, requires robust buffers that can withstand extreme loads and minimize maintenance costs. In urban rail transit (metro, LRT, tram), population growth and the expansion of public transit networks are increasing demand for low-maintenance, high-durability buffers.

Regionally, China, Europe, and North America dominate the market. China leads in high-speed and urban rail investments, creating strong demand for advanced buffer systems. Europe, driven by strict safety standards and continuous technology upgrades, is adopting high-performance intelligent buffers. North America, with its extensive freight rail network, has a strong demand for high-durability and impact-resistant buffers. Meanwhile, emerging markets in Southeast Asia, the Middle East, and Africa are witnessing rising demand due to accelerated railway infrastructure development.

Looking forward, the technological evolution of coupler buffer devices will focus on high-strength materials, smart monitoring integration, and lightweight design. Advanced materials (such as composites and high-strength alloys) will improve durability and energy absorption, reducing maintenance costs. Intelligent sensor integration will enable real-time condition monitoring, enhancing railway safety. Additionally, modular and lightweight designs will enhance adaptability, meeting the diverse requirements of different rail systems.

This report is a detailed and comprehensive analysis for global Coupler Buffer Device market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and

product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Coupler Buffer Device market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Coupler Buffer Device market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Coupler Buffer Device market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Coupler Buffer Device market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

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

To assess the growth potential for Coupler Buffer Device

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Coupler Buffer Device market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include CRRC, Voith Group, Knorr-Bremse Group, Dellner, Wabtec Corporation, McConway & Torley, Nippon Steel, Texmaco Rail & Engineering, Huatie Group, etc.

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

Market Segmentation

Coupler Buffer Device market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Friction Buffer

Hydraulic Buffer

Rubber Buffer

Market segment by Application

Freight Trains

Passenger Trains

Urban Rail Transit

Others

Major players covered

CRRC

Voith Group

Knorr-Bremse Group

Dellner

Wabtec Corporation

McConway & Torley

Nippon Steel

Texmaco Rail & Engineering

Huatie Group

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

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

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

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

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

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

Chapter 1, to describe Coupler Buffer Device product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Coupler Buffer Device, with price, sales quantity, revenue, and global market share of Coupler Buffer Device from 2020 to 2025.

Chapter 3, the Coupler Buffer Device competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Coupler Buffer Device breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to

2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Coupler Buffer Device market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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

Chapter 13, the key raw materials and key suppliers, and industry chain of Coupler Buffer Device.

Chapter 14 and 15, to describe Coupler Buffer Device sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Coupler Buffer Device Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 Friction Buffer

1.3.3 Hydraulic Buffer

1.3.4 Rubber Buffer

1.4 Market Analysis by Application

1.4.1 Overview: Global Coupler Buffer Device Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Freight Trains

1.4.3 Passenger Trains

1.4.4 Urban Rail Transit

1.4.5 Others

1.5 Global Coupler Buffer Device Market Size & Forecast

1.5.1 Global Coupler Buffer Device Consumption Value (2020 & 2024 & 2031)

1.5.2 Global Coupler Buffer Device Sales Quantity (2020-2031)

1.5.3 Global Coupler Buffer Device Average Price (2020-2031)

2 MANUFACTURERS PROFILES

2.1 CRRC

2.1.1 CRRC Details

2.1.2 CRRC Major Business

2.1.3 CRRC Coupler Buffer Device Product and Services

2.1.4 CRRC Coupler Buffer Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 CRRC Recent Developments/Updates

2.2 Voith Group

2.2.1 Voith Group Details

2.2.2 Voith Group Major Business

2.2.3 Voith Group Coupler Buffer Device Product and Services

2.2.4 Voith Group Coupler Buffer Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

- 2.2.5 Voith Group Recent Developments/Updates
- 2.3 Knorr-Bremse Group
 - 2.3.1 Knorr-Bremse Group Details
 - 2.3.2 Knorr-Bremse Group Major Business
 - 2.3.3 Knorr-Bremse Group Coupler Buffer Device Product and Services
 - 2.3.4 Knorr-Bremse Group Coupler Buffer Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.3.5 Knorr-Bremse Group Recent Developments/Updates
- 2.4 Dellner
 - 2.4.1 Dellner Details
 - 2.4.2 Dellner Major Business
 - 2.4.3 Dellner Coupler Buffer Device Product and Services
 - 2.4.4 Dellner Coupler Buffer Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.4.5 Dellner Recent Developments/Updates
- 2.5 Wabtec Corporation
 - 2.5.1 Wabtec Corporation Details
 - 2.5.2 Wabtec Corporation Major Business
 - 2.5.3 Wabtec Corporation Coupler Buffer Device Product and Services
 - 2.5.4 Wabtec Corporation Coupler Buffer Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.5.5 Wabtec Corporation Recent Developments/Updates
- 2.6 McConway & Torley
 - 2.6.1 McConway & Torley Details
 - 2.6.2 McConway & Torley Major Business
 - 2.6.3 McConway & Torley Coupler Buffer Device Product and Services
 - 2.6.4 McConway & Torley Coupler Buffer Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.6.5 McConway & Torley Recent Developments/Updates
- 2.7 Nippon Steel
 - 2.7.1 Nippon Steel Details
 - 2.7.2 Nippon Steel Major Business
 - 2.7.3 Nippon Steel Coupler Buffer Device Product and Services
 - 2.7.4 Nippon Steel Coupler Buffer Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.7.5 Nippon Steel Recent Developments/Updates
- 2.8 Texmaco Rail & Engineering
 - 2.8.1 Texmaco Rail & Engineering Details
 - 2.8.2 Texmaco Rail & Engineering Major Business

- 2.8.3 Texmaco Rail & Engineering Coupler Buffer Device Product and Services
- 2.8.4 Texmaco Rail & Engineering Coupler Buffer Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.8.5 Texmaco Rail & Engineering Recent Developments/Updates
- 2.9 Huatie Group
 - 2.9.1 Huatie Group Details
 - 2.9.2 Huatie Group Major Business
 - 2.9.3 Huatie Group Coupler Buffer Device Product and Services
 - 2.9.4 Huatie Group Coupler Buffer Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.9.5 Huatie Group Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: COUPLER BUFFER DEVICE BY MANUFACTURER

- 3.1 Global Coupler Buffer Device Sales Quantity by Manufacturer (2020-2025)
- 3.2 Global Coupler Buffer Device Revenue by Manufacturer (2020-2025)
- 3.3 Global Coupler Buffer Device Average Price by Manufacturer (2020-2025)
- 3.4 Market Share Analysis (2024)
 - 3.4.1 Producer Shipments of Coupler Buffer Device by Manufacturer Revenue (\$MM) and Market Share (%): 2024
 - 3.4.2 Top 3 Coupler Buffer Device Manufacturer Market Share in 2024
 - 3.4.3 Top 6 Coupler Buffer Device Manufacturer Market Share in 2024
- 3.5 Coupler Buffer Device Market: Overall Company Footprint Analysis
 - 3.5.1 Coupler Buffer Device Market: Region Footprint
 - 3.5.2 Coupler Buffer Device Market: Company Product Type Footprint
 - 3.5.3 Coupler Buffer Device Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Coupler Buffer Device Market Size by Region
 - 4.1.1 Global Coupler Buffer Device Sales Quantity by Region (2020-2031)
 - 4.1.2 Global Coupler Buffer Device Consumption Value by Region (2020-2031)
 - 4.1.3 Global Coupler Buffer Device Average Price by Region (2020-2031)
- 4.2 North America Coupler Buffer Device Consumption Value (2020-2031)
- 4.3 Europe Coupler Buffer Device Consumption Value (2020-2031)
- 4.4 Asia-Pacific Coupler Buffer Device Consumption Value (2020-2031)

4.5 South America Coupler Buffer Device Consumption Value (2020-2031)

4.6 Middle East & Africa Coupler Buffer Device Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

5.1 Global Coupler Buffer Device Sales Quantity by Type (2020-2031)

5.2 Global Coupler Buffer Device Consumption Value by Type (2020-2031)

5.3 Global Coupler Buffer Device Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Coupler Buffer Device Sales Quantity by Application (2020-2031)

6.2 Global Coupler Buffer Device Consumption Value by Application (2020-2031)

6.3 Global Coupler Buffer Device Average Price by Application (2020-2031)

7 NORTH AMERICA

7.1 North America Coupler Buffer Device Sales Quantity by Type (2020-2031)

7.2 North America Coupler Buffer Device Sales Quantity by Application (2020-2031)

7.3 North America Coupler Buffer Device Market Size by Country

7.3.1 North America Coupler Buffer Device Sales Quantity by Country (2020-2031)

7.3.2 North America Coupler Buffer Device Consumption Value by Country (2020-2031)

7.3.3 United States Market Size and Forecast (2020-2031)

7.3.4 Canada Market Size and Forecast (2020-2031)

7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

8.1 Europe Coupler Buffer Device Sales Quantity by Type (2020-2031)

8.2 Europe Coupler Buffer Device Sales Quantity by Application (2020-2031)

8.3 Europe Coupler Buffer Device Market Size by Country

8.3.1 Europe Coupler Buffer Device Sales Quantity by Country (2020-2031)

8.3.2 Europe Coupler Buffer Device Consumption Value by Country (2020-2031)

8.3.3 Germany Market Size and Forecast (2020-2031)

8.3.4 France Market Size and Forecast (2020-2031)

8.3.5 United Kingdom Market Size and Forecast (2020-2031)

8.3.6 Russia Market Size and Forecast (2020-2031)

8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Coupler Buffer Device Sales Quantity by Type (2020-2031)
- 9.2 Asia-Pacific Coupler Buffer Device Sales Quantity by Application (2020-2031)
- 9.3 Asia-Pacific Coupler Buffer Device Market Size by Region
 - 9.3.1 Asia-Pacific Coupler Buffer Device Sales Quantity by Region (2020-2031)
 - 9.3.2 Asia-Pacific Coupler Buffer Device Consumption Value by Region (2020-2031)
 - 9.3.3 China Market Size and Forecast (2020-2031)
 - 9.3.4 Japan Market Size and Forecast (2020-2031)
 - 9.3.5 South Korea Market Size and Forecast (2020-2031)
 - 9.3.6 India Market Size and Forecast (2020-2031)
 - 9.3.7 Southeast Asia Market Size and Forecast (2020-2031)
 - 9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

- 10.1 South America Coupler Buffer Device Sales Quantity by Type (2020-2031)
- 10.2 South America Coupler Buffer Device Sales Quantity by Application (2020-2031)
- 10.3 South America Coupler Buffer Device Market Size by Country
 - 10.3.1 South America Coupler Buffer Device Sales Quantity by Country (2020-2031)
 - 10.3.2 South America Coupler Buffer Device Consumption Value by Country (2020-2031)
 - 10.3.3 Brazil Market Size and Forecast (2020-2031)
 - 10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Coupler Buffer Device Sales Quantity by Type (2020-2031)
- 11.2 Middle East & Africa Coupler Buffer Device Sales Quantity by Application (2020-2031)
- 11.3 Middle East & Africa Coupler Buffer Device Market Size by Country
 - 11.3.1 Middle East & Africa Coupler Buffer Device Sales Quantity by Country (2020-2031)
 - 11.3.2 Middle East & Africa Coupler Buffer Device Consumption Value by Country (2020-2031)
 - 11.3.3 Turkey Market Size and Forecast (2020-2031)
 - 11.3.4 Egypt Market Size and Forecast (2020-2031)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)

11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

- 12.1 Coupler Buffer Device Market Drivers
- 12.2 Coupler Buffer Device Market Restraints
- 12.3 Coupler Buffer Device Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Coupler Buffer Device and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Coupler Buffer Device
- 13.3 Coupler Buffer Device Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Coupler Buffer Device Typical Distributors
- 14.3 Coupler Buffer Device Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Coupler Buffer Device Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Coupler Buffer Device Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. CRRC Basic Information, Manufacturing Base and Competitors

Table 4. CRRC Major Business

Table 5. CRRC Coupler Buffer Device Product and Services

Table 6. CRRC Coupler Buffer Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. CRRC Recent Developments/Updates

Table 8. Voith Group Basic Information, Manufacturing Base and Competitors

Table 9. Voith Group Major Business

Table 10. Voith Group Coupler Buffer Device Product and Services

Table 11. Voith Group Coupler Buffer Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. Voith Group Recent Developments/Updates

Table 13. Knorr-Bremse Group Basic Information, Manufacturing Base and Competitors

Table 14. Knorr-Bremse Group Major Business

Table 15. Knorr-Bremse Group Coupler Buffer Device Product and Services

Table 16. Knorr-Bremse Group Coupler Buffer Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. Knorr-Bremse Group Recent Developments/Updates

Table 18. Dellner Basic Information, Manufacturing Base and Competitors

Table 19. Dellner Major Business

Table 20. Dellner Coupler Buffer Device Product and Services

Table 21. Dellner Coupler Buffer Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Dellner Recent Developments/Updates

Table 23. Wabtec Corporation Basic Information, Manufacturing Base and Competitors

Table 24. Wabtec Corporation Major Business

Table 25. Wabtec Corporation Coupler Buffer Device Product and Services

Table 26. Wabtec Corporation Coupler Buffer Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. Wabtec Corporation Recent Developments/Updates

- Table 28. McConway & Torley Basic Information, Manufacturing Base and Competitors
- Table 29. McConway & Torley Major Business
- Table 30. McConway & Torley Coupler Buffer Device Product and Services
- Table 31. McConway & Torley Coupler Buffer Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 32. McConway & Torley Recent Developments/Updates
- Table 33. Nippon Steel Basic Information, Manufacturing Base and Competitors
- Table 34. Nippon Steel Major Business
- Table 35. Nippon Steel Coupler Buffer Device Product and Services
- Table 36. Nippon Steel Coupler Buffer Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 37. Nippon Steel Recent Developments/Updates
- Table 38. Texmaco Rail & Engineering Basic Information, Manufacturing Base and Competitors
- Table 39. Texmaco Rail & Engineering Major Business
- Table 40. Texmaco Rail & Engineering Coupler Buffer Device Product and Services
- Table 41. Texmaco Rail & Engineering Coupler Buffer Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 42. Texmaco Rail & Engineering Recent Developments/Updates
- Table 43. Huatie Group Basic Information, Manufacturing Base and Competitors
- Table 44. Huatie Group Major Business
- Table 45. Huatie Group Coupler Buffer Device Product and Services
- Table 46. Huatie Group Coupler Buffer Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 47. Huatie Group Recent Developments/Updates
- Table 48. Global Coupler Buffer Device Sales Quantity by Manufacturer (2020-2025) & (K Units)
- Table 49. Global Coupler Buffer Device Revenue by Manufacturer (2020-2025) & (USD Million)
- Table 50. Global Coupler Buffer Device Average Price by Manufacturer (2020-2025) & (US\$/Unit)
- Table 51. Market Position of Manufacturers in Coupler Buffer Device, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024
- Table 52. Head Office and Coupler Buffer Device Production Site of Key Manufacturer
- Table 53. Coupler Buffer Device Market: Company Product Type Footprint
- Table 54. Coupler Buffer Device Market: Company Product Application Footprint
- Table 55. Coupler Buffer Device New Market Entrants and Barriers to Market Entry
- Table 56. Coupler Buffer Device Mergers, Acquisition, Agreements, and Collaborations

Table 57. Global Coupler Buffer Device Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 58. Global Coupler Buffer Device Sales Quantity by Region (2020-2025) & (K Units)

Table 59. Global Coupler Buffer Device Sales Quantity by Region (2026-2031) & (K Units)

Table 60. Global Coupler Buffer Device Consumption Value by Region (2020-2025) & (USD Million)

Table 61. Global Coupler Buffer Device Consumption Value by Region (2026-2031) & (USD Million)

Table 62. Global Coupler Buffer Device Average Price by Region (2020-2025) & (US\$/Unit)

Table 63. Global Coupler Buffer Device Average Price by Region (2026-2031) & (US\$/Unit)

Table 64. Global Coupler Buffer Device Sales Quantity by Type (2020-2025) & (K Units)

Table 65. Global Coupler Buffer Device Sales Quantity by Type (2026-2031) & (K Units)

Table 66. Global Coupler Buffer Device Consumption Value by Type (2020-2025) & (USD Million)

Table 67. Global Coupler Buffer Device Consumption Value by Type (2026-2031) & (USD Million)

Table 68. Global Coupler Buffer Device Average Price by Type (2020-2025) & (US\$/Unit)

Table 69. Global Coupler Buffer Device Average Price by Type (2026-2031) & (US\$/Unit)

Table 70. Global Coupler Buffer Device Sales Quantity by Application (2020-2025) & (K Units)

Table 71. Global Coupler Buffer Device Sales Quantity by Application (2026-2031) & (K Units)

Table 72. Global Coupler Buffer Device Consumption Value by Application (2020-2025) & (USD Million)

Table 73. Global Coupler Buffer Device Consumption Value by Application (2026-2031) & (USD Million)

Table 74. Global Coupler Buffer Device Average Price by Application (2020-2025) & (US\$/Unit)

Table 75. Global Coupler Buffer Device Average Price by Application (2026-2031) & (US\$/Unit)

Table 76. North America Coupler Buffer Device Sales Quantity by Type (2020-2025) & (K Units)

Table 77. North America Coupler Buffer Device Sales Quantity by Type (2026-2031) &

(K Units)

Table 78. North America Coupler Buffer Device Sales Quantity by Application (2020-2025) & (K Units)

Table 79. North America Coupler Buffer Device Sales Quantity by Application (2026-2031) & (K Units)

Table 80. North America Coupler Buffer Device Sales Quantity by Country (2020-2025) & (K Units)

Table 81. North America Coupler Buffer Device Sales Quantity by Country (2026-2031) & (K Units)

Table 82. North America Coupler Buffer Device Consumption Value by Country (2020-2025) & (USD Million)

Table 83. North America Coupler Buffer Device Consumption Value by Country (2026-2031) & (USD Million)

Table 84. Europe Coupler Buffer Device Sales Quantity by Type (2020-2025) & (K Units)

Table 85. Europe Coupler Buffer Device Sales Quantity by Type (2026-2031) & (K Units)

Table 86. Europe Coupler Buffer Device Sales Quantity by Application (2020-2025) & (K Units)

Table 87. Europe Coupler Buffer Device Sales Quantity by Application (2026-2031) & (K Units)

Table 88. Europe Coupler Buffer Device Sales Quantity by Country (2020-2025) & (K Units)

Table 89. Europe Coupler Buffer Device Sales Quantity by Country (2026-2031) & (K Units)

Table 90. Europe Coupler Buffer Device Consumption Value by Country (2020-2025) & (USD Million)

Table 91. Europe Coupler Buffer Device Consumption Value by Country (2026-2031) & (USD Million)

Table 92. Asia-Pacific Coupler Buffer Device Sales Quantity by Type (2020-2025) & (K Units)

Table 93. Asia-Pacific Coupler Buffer Device Sales Quantity by Type (2026-2031) & (K Units)

Table 94. Asia-Pacific Coupler Buffer Device Sales Quantity by Application (2020-2025) & (K Units)

Table 95. Asia-Pacific Coupler Buffer Device Sales Quantity by Application (2026-2031) & (K Units)

Table 96. Asia-Pacific Coupler Buffer Device Sales Quantity by Region (2020-2025) & (K Units)

Table 97. Asia-Pacific Coupler Buffer Device Sales Quantity by Region (2026-2031) & (K Units)

Table 98. Asia-Pacific Coupler Buffer Device Consumption Value by Region (2020-2025) & (USD Million)

Table 99. Asia-Pacific Coupler Buffer Device Consumption Value by Region (2026-2031) & (USD Million)

Table 100. South America Coupler Buffer Device Sales Quantity by Type (2020-2025) & (K Units)

Table 101. South America Coupler Buffer Device Sales Quantity by Type (2026-2031) & (K Units)

Table 102. South America Coupler Buffer Device Sales Quantity by Application (2020-2025) & (K Units)

Table 103. South America Coupler Buffer Device Sales Quantity by Application (2026-2031) & (K Units)

Table 104. South America Coupler Buffer Device Sales Quantity by Country (2020-2025) & (K Units)

Table 105. South America Coupler Buffer Device Sales Quantity by Country (2026-2031) & (K Units)

Table 106. South America Coupler Buffer Device Consumption Value by Country (2020-2025) & (USD Million)

Table 107. South America Coupler Buffer Device Consumption Value by Country (2026-2031) & (USD Million)

Table 108. Middle East & Africa Coupler Buffer Device Sales Quantity by Type (2020-2025) & (K Units)

Table 109. Middle East & Africa Coupler Buffer Device Sales Quantity by Type (2026-2031) & (K Units)

Table 110. Middle East & Africa Coupler Buffer Device Sales Quantity by Application (2020-2025) & (K Units)

Table 111. Middle East & Africa Coupler Buffer Device Sales Quantity by Application (2026-2031) & (K Units)

Table 112. Middle East & Africa Coupler Buffer Device Sales Quantity by Country (2020-2025) & (K Units)

Table 113. Middle East & Africa Coupler Buffer Device Sales Quantity by Country (2026-2031) & (K Units)

Table 114. Middle East & Africa Coupler Buffer Device Consumption Value by Country (2020-2025) & (USD Million)

Table 115. Middle East & Africa Coupler Buffer Device Consumption Value by Country (2026-2031) & (USD Million)

Table 116. Coupler Buffer Device Raw Material

Table 117. Key Manufacturers of Coupler Buffer Device Raw Materials

Table 118. Coupler Buffer Device Typical Distributors

Table 119. Coupler Buffer Device Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Coupler Buffer Device Picture

Figure 2. Global Coupler Buffer Device Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global Coupler Buffer Device Revenue Market Share by Type in 2024

Figure 4. Friction Buffer Examples

Figure 5. Hydraulic Buffer Examples

Figure 6. Rubber Buffer Examples

Figure 7. Global Coupler Buffer Device Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 8. Global Coupler Buffer Device Revenue Market Share by Application in 2024

Figure 9. Freight Trains Examples

Figure 10. Passenger Trains Examples

Figure 11. Urban Rail Transit Examples

Figure 12. Others Examples

Figure 13. Global Coupler Buffer Device Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 14. Global Coupler Buffer Device Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 15. Global Coupler Buffer Device Sales Quantity (2020-2031) & (K Units)

Figure 16. Global Coupler Buffer Device Price (2020-2031) & (US\$/Unit)

Figure 17. Global Coupler Buffer Device Sales Quantity Market Share by Manufacturer in 2024

Figure 18. Global Coupler Buffer Device Revenue Market Share by Manufacturer in 2024

Figure 19. Producer Shipments of Coupler Buffer Device by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 20. Top 3 Coupler Buffer Device Manufacturer (Revenue) Market Share in 2024

Figure 21. Top 6 Coupler Buffer Device Manufacturer (Revenue) Market Share in 2024

Figure 22. Global Coupler Buffer Device Sales Quantity Market Share by Region (2020-2031)

Figure 23. Global Coupler Buffer Device Consumption Value Market Share by Region (2020-2031)

Figure 24. North America Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Figure 25. Europe Coupler Buffer Device Consumption Value (2020-2031) & (USD

Million)

Figure 26. Asia-Pacific Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Figure 27. South America Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Figure 28. Middle East & Africa Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Figure 29. Global Coupler Buffer Device Sales Quantity Market Share by Type (2020-2031)

Figure 30. Global Coupler Buffer Device Consumption Value Market Share by Type (2020-2031)

Figure 31. Global Coupler Buffer Device Average Price by Type (2020-2031) & (US\$/Unit)

Figure 32. Global Coupler Buffer Device Sales Quantity Market Share by Application (2020-2031)

Figure 33. Global Coupler Buffer Device Revenue Market Share by Application (2020-2031)

Figure 34. Global Coupler Buffer Device Average Price by Application (2020-2031) & (US\$/Unit)

Figure 35. North America Coupler Buffer Device Sales Quantity Market Share by Type (2020-2031)

Figure 36. North America Coupler Buffer Device Sales Quantity Market Share by Application (2020-2031)

Figure 37. North America Coupler Buffer Device Sales Quantity Market Share by Country (2020-2031)

Figure 38. North America Coupler Buffer Device Consumption Value Market Share by Country (2020-2031)

Figure 39. United States Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Figure 40. Canada Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Figure 41. Mexico Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Figure 42. Europe Coupler Buffer Device Sales Quantity Market Share by Type (2020-2031)

Figure 43. Europe Coupler Buffer Device Sales Quantity Market Share by Application (2020-2031)

Figure 44. Europe Coupler Buffer Device Sales Quantity Market Share by Country (2020-2031)

Figure 45. Europe Coupler Buffer Device Consumption Value Market Share by Country (2020-2031)

Figure 46. Germany Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Figure 47. France Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Figure 48. United Kingdom Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Figure 49. Russia Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Figure 50. Italy Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Figure 51. Asia-Pacific Coupler Buffer Device Sales Quantity Market Share by Type (2020-2031)

Figure 52. Asia-Pacific Coupler Buffer Device Sales Quantity Market Share by Application (2020-2031)

Figure 53. Asia-Pacific Coupler Buffer Device Sales Quantity Market Share by Region (2020-2031)

Figure 54. Asia-Pacific Coupler Buffer Device Consumption Value Market Share by Region (2020-2031)

Figure 55. China Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Figure 56. Japan Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Figure 57. South Korea Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Figure 58. India Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Figure 59. Southeast Asia Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Figure 60. Australia Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Figure 61. South America Coupler Buffer Device Sales Quantity Market Share by Type (2020-2031)

Figure 62. South America Coupler Buffer Device Sales Quantity Market Share by Application (2020-2031)

Figure 63. South America Coupler Buffer Device Sales Quantity Market Share by Country (2020-2031)

Figure 64. South America Coupler Buffer Device Consumption Value Market Share by Country (2020-2031)

Figure 65. Brazil Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Million)

Figure 66. Argentina Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Figure 67. Middle East & Africa Coupler Buffer Device Sales Quantity Market Share by Type (2020-2031)

Figure 68. Middle East & Africa Coupler Buffer Device Sales Quantity Market Share by Application (2020-2031)

Figure 69. Middle East & Africa Coupler Buffer Device Sales Quantity Market Share by Country (2020-2031)

Figure 70. Middle East & Africa Coupler Buffer Device Consumption Value Market Share by Country (2020-2031)

Figure 71. Turkey Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Figure 72. Egypt Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Figure 73. Saudi Arabia Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Figure 74. South Africa Coupler Buffer Device Consumption Value (2020-2031) & (USD Million)

Figure 75. Coupler Buffer Device Market Drivers

Figure 76. Coupler Buffer Device Market Restraints

Figure 77. Coupler Buffer Device Market Trends

Figure 78. Porters Five Forces Analysis

Figure 79. Manufacturing Cost Structure Analysis of Coupler Buffer Device in 2024

Figure 80. Manufacturing Process Analysis of Coupler Buffer Device

Figure 81. Coupler Buffer Device Industrial Chain

Figure 82. Sales Channel: Direct to End-User vs Distributors

Figure 83. Direct Channel Pros & Cons

Figure 84. Indirect Channel Pros & Cons

Figure 85. Methodology

Figure 86. Research Process and Data Source

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