

Global Cable-Driven System Market Growth 2026-2032

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Abstracts

The global Cable-Driven System market size is predicted to grow from US\$ 4120 million in 2025 to US\$ 8634 million in 2032; it is expected to grow at a CAGR of 11.2% from 2026 to 2032.

A Cable-Driven System is a mechanical transmission system that uses flexible cables (such as steel wires, synthetic fibers, or tendons) to transmit force and motion from actuators (motors or drives) to a remote load or end-effector. Instead of rigid linkages, it relies on tensioned cables routed through pulleys or guides to achieve motion control, enabling lightweight, high-speed, and long-distance force transmission. It is commonly used in robotics, aerospace mechanisms, rehabilitation devices, and parallel manipulators. In 2025, global Cable-Driven System production reached approximately 234 K units, with an average global market price of around US\$ 18,000 per unit. Annual production capacity is 312 K units. Gross Profit Margin: 42.6%. The cable-driven system industry chain includes three layers: upstream components (steel cables, fibers, motors, sensors), midstream system integrators (robot and motion system manufacturers), and downstream applications (industrial automation, humanoid robots, medical rehab, and aerospace systems). Most value is created in system integration and control technologies rather than raw materials. Cable-driven systems are a niche enabling technology rather than a standalone mass market. Their main value is providing lightweight, flexible motion for advanced robotics such as humanoids and large-workspace systems. Future growth will mainly come from AI-driven robotics and human-like motion applications.

United States market for Cable-Driven System 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 Cable-Driven System 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 Cable-Driven System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Cable-Driven System players cover Fanuc Corporation, Abb Robotics, Kuka Ag, Yaskawa Electric, Nachi-Fujikoshi, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Cable-Driven System and breaks down the forecast by Structural Configuration, 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 Cable-Driven System.

This report presents a comprehensive overview, market shares, and growth opportunities of Cable-Driven System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Structural Configuration:

Single-Cable Drive Systems

Multi-Cable Parallel Systems

Tendon-Driven Systems

Pulley-Based Cable Transmission Systems

Segmentation by Load Capacity Level:

Micro Load (5kN)

Segmentation by Precision Level:

Ultra Precision (≤ 0.01 mm)

High Precision (≤ 0.1 mm)

Standard Precision (≤ 1 mm)

Low Precision (> 1 mm)

Segmentation by Application:

Industrial

Medical

Aerospace & Defense

Research & Laboratory

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Fanuc Corporation

Abb Robotics

Kuka Ag

Yaskawa Electric

Nachi-Fujikoshi

Staubli International

Denso Corporation

Comau S.P.A

Epson Robots

Kawasaki Heavy Industries

Mitsubishi Electric

Estun Automation

Siasun Robot & Automation

Giraffe Robotics

Barrett Technology

Shadow Robot Company

Festo

Carnegie Robotics

Hocomma

Efort Intelligent Equipment

Key Questions Addressed in this Report

What is the 10-year outlook for the global Cable-Driven System market?

What factors are driving Cable-Driven System market growth, globally and by region?

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

How do Cable-Driven System market opportunities vary by end market size?

How does Cable-Driven System break out by Structural Configuration, by Application?

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 Cable-Driven System Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Cable-Driven System by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Cable-Driven System by Country/Region, 2021, 2025 & 2032
- 2.2 Cable-Driven System Segment by Structural Configuration
 - 2.2.1 Single-Cable Drive Systems
 - 2.2.2 Multi-Cable Parallel Systems
 - 2.2.3 Tendon-Driven Systems
 - 2.2.4 Pulley-Based Cable Transmission Systems
 - 2.2.5 Cable-Driven System Sales by Structural Configuration
 - 2.2.5.1 Global Cable-Driven System Sales Market Share by Structural Configuration (2021-2026)
 - 2.2.5.2 Global Cable-Driven System Revenue and Market Share by Structural Configuration (2021-2026)
 - 2.2.5.3 Global Cable-Driven System Sale Price by Structural Configuration (2021-2026)
- 2.3 Cable-Driven System Segment by Load Capacity Level
 - 2.3.1 Micro Load (5kN)
 - 2.3.5 Cable-Driven System Sales by Load Capacity Level
 - 2.3.5.1 Global Cable-Driven System Sales Market Share by Load Capacity Level (2021-2026)
 - 2.3.5.2 Global Cable-Driven System Revenue and Market Share by Load Capacity

Level (2021-2026)

2.3.5.3 Global Cable-Driven System Sale Price by Load Capacity Level (2021-2026)

2.4 Cable-Driven System Segment by Precision Level

2.4.1 Ultra Precision (≤ 0.01 mm)

2.4.2 High Precision (≤ 0.1 mm)

2.4.3 Standard Precision (≤ 1 mm)

2.4.4 Low Precision (> 1 mm)

2.4.5 Cable-Driven System Sales by Precision Level

2.4.5.1 Global Cable-Driven System Sales Market Share by Precision Level (2021-2026)

2.4.5.2 Global Cable-Driven System Revenue and Market Share by Precision Level (2021-2026)

2.4.5.3 Global Cable-Driven System Sale Price by Precision Level (2021-2026)

2.5 Cable-Driven System Segment by Application

2.5.1 Industrial

2.5.2 Medical

2.5.3 Aerospace & Defense

2.5.4 Research & Laboratory

2.5.5 Others

2.5.6 Cable-Driven System Sales by Application

2.5.6.1 Global Cable-Driven System Sale Market Share by Application (2021-2026)

2.5.6.2 Global Cable-Driven System Revenue and Market Share by Application (2021-2026)

2.5.6.3 Global Cable-Driven System Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Cable-Driven System Breakdown Data by Company

3.1.1 Global Cable-Driven System Annual Sales by Company (2021-2026)

3.1.2 Global Cable-Driven System Sales Market Share by Company (2021-2026)

3.2 Global Cable-Driven System Annual Revenue by Company (2021-2026)

3.2.1 Global Cable-Driven System Revenue by Company (2021-2026)

3.2.2 Global Cable-Driven System Revenue Market Share by Company (2021-2026)

3.3 Global Cable-Driven System Sale Price by Company

3.4 Key Manufacturers Cable-Driven System Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Cable-Driven System Product Location Distribution

3.4.2 Players Cable-Driven System 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

4 WORLD HISTORIC REVIEW FOR CABLE-DRIVEN SYSTEM BY GEOGRAPHIC REGION

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

5 AMERICAS

- 5.1 Americas Cable-Driven System Sales by Country
 - 5.1.1 Americas Cable-Driven System Sales by Country (2021-2026)
 - 5.1.2 Americas Cable-Driven System Revenue by Country (2021-2026)
- 5.2 Americas Cable-Driven System Sales by Structural Configuration (2021-2026)
- 5.3 Americas Cable-Driven System Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Cable-Driven System Sales by Region
 - 6.1.1 APAC Cable-Driven System Sales by Region (2021-2026)
 - 6.1.2 APAC Cable-Driven System Revenue by Region (2021-2026)
- 6.2 APAC Cable-Driven System Sales by Structural Configuration (2021-2026)

6.3 APAC Cable-Driven System 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

7 EUROPE

7.1 Europe Cable-Driven System by Country

7.1.1 Europe Cable-Driven System Sales by Country (2021-2026)

7.1.2 Europe Cable-Driven System Revenue by Country (2021-2026)

7.2 Europe Cable-Driven System Sales by Structural Configuration (2021-2026)

7.3 Europe Cable-Driven System 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 Cable-Driven System by Country

8.1.1 Middle East & Africa Cable-Driven System Sales by Country (2021-2026)

8.1.2 Middle East & Africa Cable-Driven System Revenue by Country (2021-2026)

8.2 Middle East & Africa Cable-Driven System Sales by Structural Configuration (2021-2026)

8.3 Middle East & Africa Cable-Driven System 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 Cable-Driven System

10.3 Manufacturing Process Analysis of Cable-Driven System

10.4 Industry Chain Structure of Cable-Driven System

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Cable-Driven System Distributors

11.3 Cable-Driven System Customer

12 WORLD FORECAST REVIEW FOR CABLE-DRIVEN SYSTEM BY GEOGRAPHIC REGION

12.1 Global Cable-Driven System Market Size Forecast by Region

12.1.1 Global Cable-Driven System Forecast by Region (2027-2032)

12.1.2 Global Cable-Driven System 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 Cable-Driven System Forecast by Structural Configuration (2027-2032)

12.7 Global Cable-Driven System Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Fanuc Corporation

13.1.1 Fanuc Corporation Company Information

13.1.2 Fanuc Corporation Cable-Driven System Product Portfolios and Specifications

13.1.3 Fanuc Corporation Cable-Driven System Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Fanuc Corporation Main Business Overview

- 13.1.5 Fanuc Corporation Latest Developments
- 13.2 Abb Robotics
 - 13.2.1 Abb Robotics Company Information
 - 13.2.2 Abb Robotics Cable-Driven System Product Portfolios and Specifications
 - 13.2.3 Abb Robotics Cable-Driven System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 Abb Robotics Main Business Overview
 - 13.2.5 Abb Robotics Latest Developments
- 13.3 Kuka Ag
 - 13.3.1 Kuka Ag Company Information
 - 13.3.2 Kuka Ag Cable-Driven System Product Portfolios and Specifications
 - 13.3.3 Kuka Ag Cable-Driven System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 Kuka Ag Main Business Overview
 - 13.3.5 Kuka Ag Latest Developments
- 13.4 Yaskawa Electric
 - 13.4.1 Yaskawa Electric Company Information
 - 13.4.2 Yaskawa Electric Cable-Driven System Product Portfolios and Specifications
 - 13.4.3 Yaskawa Electric Cable-Driven System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Yaskawa Electric Main Business Overview
 - 13.4.5 Yaskawa Electric Latest Developments
- 13.5 Nachi-Fujikoshi
 - 13.5.1 Nachi-Fujikoshi Company Information
 - 13.5.2 Nachi-Fujikoshi Cable-Driven System Product Portfolios and Specifications
 - 13.5.3 Nachi-Fujikoshi Cable-Driven System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Nachi-Fujikoshi Main Business Overview
 - 13.5.5 Nachi-Fujikoshi Latest Developments
- 13.6 Staubli International
 - 13.6.1 Staubli International Company Information
 - 13.6.2 Staubli International Cable-Driven System Product Portfolios and Specifications
 - 13.6.3 Staubli International Cable-Driven System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Staubli International Main Business Overview
 - 13.6.5 Staubli International Latest Developments
- 13.7 Denso Corporation
 - 13.7.1 Denso Corporation Company Information
 - 13.7.2 Denso Corporation Cable-Driven System Product Portfolios and Specifications

13.7.3 Denso Corporation Cable-Driven System Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Denso Corporation Main Business Overview

13.7.5 Denso Corporation Latest Developments

13.8 Comau S.P.A

13.8.1 Comau S.P.A Company Information

13.8.2 Comau S.P.A Cable-Driven System Product Portfolios and Specifications

13.8.3 Comau S.P.A Cable-Driven System Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Comau S.P.A Main Business Overview

13.8.5 Comau S.P.A Latest Developments

13.9 Epson Robots

13.9.1 Epson Robots Company Information

13.9.2 Epson Robots Cable-Driven System Product Portfolios and Specifications

13.9.3 Epson Robots Cable-Driven System Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Epson Robots Main Business Overview

13.9.5 Epson Robots Latest Developments

13.10 Kawasaki Heavy Industries

13.10.1 Kawasaki Heavy Industries Company Information

13.10.2 Kawasaki Heavy Industries Cable-Driven System Product Portfolios and Specifications

13.10.3 Kawasaki Heavy Industries Cable-Driven System Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Kawasaki Heavy Industries Main Business Overview

13.10.5 Kawasaki Heavy Industries Latest Developments

13.11 Mitsubishi Electric

13.11.1 Mitsubishi Electric Company Information

13.11.2 Mitsubishi Electric Cable-Driven System Product Portfolios and Specifications

13.11.3 Mitsubishi Electric Cable-Driven System 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 Estun Automation

13.12.1 Estun Automation Company Information

13.12.2 Estun Automation Cable-Driven System Product Portfolios and Specifications

13.12.3 Estun Automation Cable-Driven System Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Estun Automation Main Business Overview

- 13.12.5 Estun Automation Latest Developments
- 13.13 Siasun Robot & Automation
 - 13.13.1 Siasun Robot & Automation Company Information
 - 13.13.2 Siasun Robot & Automation Cable-Driven System Product Portfolios and Specifications
 - 13.13.3 Siasun Robot & Automation Cable-Driven System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.13.4 Siasun Robot & Automation Main Business Overview
 - 13.13.5 Siasun Robot & Automation Latest Developments
- 13.14 Giraffe Robotics
 - 13.14.1 Giraffe Robotics Company Information
 - 13.14.2 Giraffe Robotics Cable-Driven System Product Portfolios and Specifications
 - 13.14.3 Giraffe Robotics Cable-Driven System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.14.4 Giraffe Robotics Main Business Overview
 - 13.14.5 Giraffe Robotics Latest Developments
- 13.15 Barrett Technology
 - 13.15.1 Barrett Technology Company Information
 - 13.15.2 Barrett Technology Cable-Driven System Product Portfolios and Specifications
 - 13.15.3 Barrett Technology Cable-Driven System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.15.4 Barrett Technology Main Business Overview
 - 13.15.5 Barrett Technology Latest Developments
- 13.16 Shadow Robot Company
 - 13.16.1 Shadow Robot Company Company Information
 - 13.16.2 Shadow Robot Company Cable-Driven System Product Portfolios and Specifications
 - 13.16.3 Shadow Robot Company Cable-Driven System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.16.4 Shadow Robot Company Main Business Overview
 - 13.16.5 Shadow Robot Company Latest Developments
- 13.17 Festo
 - 13.17.1 Festo Company Information
 - 13.17.2 Festo Cable-Driven System Product Portfolios and Specifications
 - 13.17.3 Festo Cable-Driven System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.17.4 Festo Main Business Overview
 - 13.17.5 Festo Latest Developments
- 13.18 Carnegie Robotics

- 13.18.1 Carnegie Robotics Company Information
- 13.18.2 Carnegie Robotics Cable-Driven System Product Portfolios and Specifications
- 13.18.3 Carnegie Robotics Cable-Driven System Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.18.4 Carnegie Robotics Main Business Overview
- 13.18.5 Carnegie Robotics Latest Developments
- 13.19 Hocoma
 - 13.19.1 Hocoma Company Information
 - 13.19.2 Hocoma Cable-Driven System Product Portfolios and Specifications
 - 13.19.3 Hocoma Cable-Driven System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.19.4 Hocoma Main Business Overview
 - 13.19.5 Hocoma Latest Developments
- 13.20 Efort Intelligent Equipment
 - 13.20.1 Efort Intelligent Equipment Company Information
 - 13.20.2 Efort Intelligent Equipment Cable-Driven System Product Portfolios and Specifications
 - 13.20.3 Efort Intelligent Equipment Cable-Driven System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.20.4 Efort Intelligent Equipment Main Business Overview
 - 13.20.5 Efort Intelligent Equipment Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Cable-Driven System Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Cable-Driven System Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Single-Cable Drive Systems
- Table 4. Major Players of Multi-Cable Parallel Systems
- Table 5. Major Players of Tendon-Driven Systems
- Table 6. Major Players of Pulley-Based Cable Transmission Systems
- Table 7. Global Cable-Driven System Sales by Structural Configuration (2021-2026) & (K Units)
- Table 8. Global Cable-Driven System Sales Market Share by Structural Configuration (2021-2026)
- Table 9. Global Cable-Driven System Revenue by Structural Configuration (2021-2026) & (\$ million)
- Table 10. Global Cable-Driven System Revenue Market Share by Structural Configuration (2021-2026)
- Table 11. Global Cable-Driven System Sale Price by Structural Configuration (2021-2026) & (K US\$/Unit)
- Table 12. Major Players of Micro Load (5kN)
- Table 16. Global Cable-Driven System Sales by Load Capacity Level (2021-2026) & (K Units)
- Table 17. Global Cable-Driven System Sales Market Share by Load Capacity Level (2021-2026)
- Table 18. Global Cable-Driven System Revenue by Load Capacity Level (2021-2026) & (\$ million)
- Table 19. Global Cable-Driven System Revenue Market Share by Load Capacity Level (2021-2026)
- Table 20. Global Cable-Driven System Sale Price by Load Capacity Level (2021-2026) & (K US\$/Unit)
- Table 21. Major Players of Ultra Precision (≤ 0.01 mm)
- Table 22. Major Players of High Precision (≤ 0.1 mm)
- Table 23. Major Players of Standard Precision (≤ 1 mm)
- Table 24. Major Players of Low Precision (> 1 mm)
- Table 25. Global Cable-Driven System Sales by Precision Level (2021-2026) & (K Units)

Table 26. Global Cable-Driven System Sales Market Share by Precision Level (2021-2026)

Table 27. Global Cable-Driven System Revenue by Precision Level (2021-2026) & (\$ million)

Table 28. Global Cable-Driven System Revenue Market Share by Precision Level (2021-2026)

Table 29. Global Cable-Driven System Sale Price by Precision Level (2021-2026) & (K US\$/Unit)

Table 30. Global Cable-Driven System Sale by Application (2021-2026) & (K Units)

Table 31. Global Cable-Driven System Sale Market Share by Application (2021-2026)

Table 32. Global Cable-Driven System Revenue by Application (2021-2026) & (\$ million)

Table 33. Global Cable-Driven System Revenue Market Share by Application (2021-2026)

Table 34. Global Cable-Driven System Sale Price by Application (2021-2026) & (K US\$/Unit)

Table 35. Global Cable-Driven System Sales by Company (2021-2026) & (K Units)

Table 36. Global Cable-Driven System Sales Market Share by Company (2021-2026)

Table 37. Global Cable-Driven System Revenue by Company (2021-2026) & (\$ millions)

Table 38. Global Cable-Driven System Revenue Market Share by Company (2021-2026)

Table 39. Global Cable-Driven System Sale Price by Company (2021-2026) & (K US\$/Unit)

Table 40. Key Manufacturers Cable-Driven System Producing Area Distribution and Sales Area

Table 41. Players Cable-Driven System Products Offered

Table 42. Cable-Driven System Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 43. New Products and Potential Entrants

Table 44. Market M&A Activity & Strategy

Table 45. Global Cable-Driven System Sales by Geographic Region (2021-2026) & (K Units)

Table 46. Global Cable-Driven System Sales Market Share Geographic Region (2021-2026)

Table 47. Global Cable-Driven System Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 48. Global Cable-Driven System Revenue Market Share by Geographic Region (2021-2026)

Table 49. Global Cable-Driven System Sales by Country/Region (2021-2026) & (K Units)

Table 50. Global Cable-Driven System Sales Market Share by Country/Region (2021-2026)

Table 51. Global Cable-Driven System Revenue by Country/Region (2021-2026) & (\$ millions)

Table 52. Global Cable-Driven System Revenue Market Share by Country/Region (2021-2026)

Table 53. Americas Cable-Driven System Sales by Country (2021-2026) & (K Units)

Table 54. Americas Cable-Driven System Sales Market Share by Country (2021-2026)

Table 55. Americas Cable-Driven System Revenue by Country (2021-2026) & (\$ millions)

Table 56. Americas Cable-Driven System Sales by Structural Configuration (2021-2026) & (K Units)

Table 57. Americas Cable-Driven System Sales by Application (2021-2026) & (K Units)

Table 58. APAC Cable-Driven System Sales by Region (2021-2026) & (K Units)

Table 59. APAC Cable-Driven System Sales Market Share by Region (2021-2026)

Table 60. APAC Cable-Driven System Revenue by Region (2021-2026) & (\$ millions)

Table 61. APAC Cable-Driven System Sales by Structural Configuration (2021-2026) & (K Units)

Table 62. APAC Cable-Driven System Sales by Application (2021-2026) & (K Units)

Table 63. Europe Cable-Driven System Sales by Country (2021-2026) & (K Units)

Table 64. Europe Cable-Driven System Revenue by Country (2021-2026) & (\$ millions)

Table 65. Europe Cable-Driven System Sales by Structural Configuration (2021-2026) & (K Units)

Table 66. Europe Cable-Driven System Sales by Application (2021-2026) & (K Units)

Table 67. Middle East & Africa Cable-Driven System Sales by Country (2021-2026) & (K Units)

Table 68. Middle East & Africa Cable-Driven System Revenue Market Share by Country (2021-2026)

Table 69. Middle East & Africa Cable-Driven System Sales by Structural Configuration (2021-2026) & (K Units)

Table 70. Middle East & Africa Cable-Driven System Sales by Application (2021-2026) & (K Units)

Table 71. Key Market Drivers & Growth Opportunities of Cable-Driven System

Table 72. Key Market Challenges & Risks of Cable-Driven System

Table 73. Key Industry Trends of Cable-Driven System

Table 74. Cable-Driven System Raw Material

Table 75. Key Suppliers of Raw Materials

Table 76. Cable-Driven System Distributors List

Table 77. Cable-Driven System Customer List

Table 78. Global Cable-Driven System Sales Forecast by Region (2027-2032) & (K Units)

Table 79. Global Cable-Driven System Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 80. Americas Cable-Driven System Sales Forecast by Country (2027-2032) & (K Units)

Table 81. Americas Cable-Driven System Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 82. APAC Cable-Driven System Sales Forecast by Region (2027-2032) & (K Units)

Table 83. APAC Cable-Driven System Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 84. Europe Cable-Driven System Sales Forecast by Country (2027-2032) & (K Units)

Table 85. Europe Cable-Driven System Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 86. Middle East & Africa Cable-Driven System Sales Forecast by Country (2027-2032) & (K Units)

Table 87. Middle East & Africa Cable-Driven System Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 88. Global Cable-Driven System Sales Forecast by Structural Configuration (2027-2032) & (K Units)

Table 89. Global Cable-Driven System Revenue Forecast by Structural Configuration (2027-2032) & (\$ millions)

Table 90. Global Cable-Driven System Sales Forecast by Application (2027-2032) & (K Units)

Table 91. Global Cable-Driven System Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 92. Fanuc Corporation Basic Information, Cable-Driven System Manufacturing Base, Sales Area and Its Competitors

Table 93. Fanuc Corporation Cable-Driven System Product Portfolios and Specifications

Table 94. Fanuc Corporation Cable-Driven System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 95. Fanuc Corporation Main Business

Table 96. Fanuc Corporation Latest Developments

Table 97. Abb Robotics Basic Information, Cable-Driven System Manufacturing Base,

Sales Area and Its Competitors

Table 98. Abb Robotics Cable-Driven System Product Portfolios and Specifications

Table 99. Abb Robotics Cable-Driven System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 100. Abb Robotics Main Business

Table 101. Abb Robotics Latest Developments

Table 102. Kuka Ag Basic Information, Cable-Driven System Manufacturing Base, Sales Area and Its Competitors

Table 103. Kuka Ag Cable-Driven System Product Portfolios and Specifications

Table 104. Kuka Ag Cable-Driven System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 105. Kuka Ag Main Business

Table 106. Kuka Ag Latest Developments

Table 107. Yaskawa Electric Basic Information, Cable-Driven System Manufacturing Base, Sales Area and Its Competitors

Table 108. Yaskawa Electric Cable-Driven System Product Portfolios and Specifications

Table 109. Yaskawa Electric Cable-Driven System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 110. Yaskawa Electric Main Business

Table 111. Yaskawa Electric Latest Developments

Table 112. Nachi-Fujikoshi Basic Information, Cable-Driven System Manufacturing Base, Sales Area and Its Competitors

Table 113. Nachi-Fujikoshi Cable-Driven System Product Portfolios and Specifications

Table 114. Nachi-Fujikoshi Cable-Driven System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 115. Nachi-Fujikoshi Main Business

Table 116. Nachi-Fujikoshi Latest Developments

Table 117. Staubli International Basic Information, Cable-Driven System Manufacturing Base, Sales Area and Its Competitors

Table 118. Staubli International Cable-Driven System Product Portfolios and Specifications

Table 119. Staubli International Cable-Driven System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 120. Staubli International Main Business

Table 121. Staubli International Latest Developments

Table 122. Denso Corporation Basic Information, Cable-Driven System Manufacturing Base, Sales Area and Its Competitors

Table 123. Denso Corporation Cable-Driven System Product Portfolios and Specifications

Table 124. Denso Corporation Cable-Driven System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 125. Denso Corporation Main Business

Table 126. Denso Corporation Latest Developments

Table 127. Comau S.P.A Basic Information, Cable-Driven System Manufacturing Base, Sales Area and Its Competitors

Table 128. Comau S.P.A Cable-Driven System Product Portfolios and Specifications

Table 129. Comau S.P.A Cable-Driven System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 130. Comau S.P.A Main Business

Table 131. Comau S.P.A Latest Developments

Table 132. Epson Robots Basic Information, Cable-Driven System Manufacturing Base, Sales Area and Its Competitors

Table 133. Epson Robots Cable-Driven System Product Portfolios and Specifications

Table 134. Epson Robots Cable-Driven System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 135. Epson Robots Main Business

Table 136. Epson Robots Latest Developments

Table 137. Kawasaki Heavy Industries Basic Information, Cable-Driven System Manufacturing Base, Sales Area and Its Competitors

Table 138. Kawasaki Heavy Industries Cable-Driven System Product Portfolios and Specifications

Table 139. Kawasaki Heavy Industries Cable-Driven System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 140. Kawasaki Heavy Industries Main Business

Table 141. Kawasaki Heavy Industries Latest Developments

Table 142. Mitsubishi Electric Basic Information, Cable-Driven System Manufacturing Base, Sales Area and Its Competitors

Table 143. Mitsubishi Electric Cable-Driven System Product Portfolios and Specifications

Table 144. Mitsubishi Electric Cable-Driven System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 145. Mitsubishi Electric Main Business

Table 146. Mitsubishi Electric Latest Developments

Table 147. Estun Automation Basic Information, Cable-Driven System Manufacturing Base, Sales Area and Its Competitors

Table 148. Estun Automation Cable-Driven System Product Portfolios and Specifications

Table 149. Estun Automation Cable-Driven System Sales (K Units), Revenue (\$

Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 150. Estun Automation Main Business

Table 151. Estun Automation Latest Developments

Table 152. Siasun Robot & Automation Basic Information, Cable-Driven System Manufacturing Base, Sales Area and Its Competitors

Table 153. Siasun Robot & Automation Cable-Driven System Product Portfolios and Specifications

Table 154. Siasun Robot & Automation Cable-Driven System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 155. Siasun Robot & Automation Main Business

Table 156. Siasun Robot & Automation Latest Developments

Table 157. Giraffe Robotics Basic Information, Cable-Driven System Manufacturing Base, Sales Area and Its Competitors

Table 158. Giraffe Robotics Cable-Driven System Product Portfolios and Specifications

Table 159. Giraffe Robotics Cable-Driven System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 160. Giraffe Robotics Main Business

Table 161. Giraffe Robotics Latest Developments

Table 162. Barrett Technology Basic Information, Cable-Driven System Manufacturing Base, Sales Area and Its Competitors

Table 163. Barrett Technology Cable-Driven System Product Portfolios and Specifications

Table 164. Barrett Technology Cable-Driven System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 165. Barrett Technology Main Business

Table 166. Barrett Technology Latest Developments

Table 167. Shadow Robot Company Basic Information, Cable-Driven System Manufacturing Base, Sales Area and Its Competitors

Table 168. Shadow Robot Company Cable-Driven System Product Portfolios and Specifications

Table 169. Shadow Robot Company Cable-Driven System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 170. Shadow Robot Company Main Business

Table 171. Shadow Robot Company Latest Developments

Table 172. Festo Basic Information, Cable-Driven System Manufacturing Base, Sales Area and Its Competitors

Table 173. Festo Cable-Driven System Product Portfolios and Specifications

Table 174. Festo Cable-Driven System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 175. Festo Main Business

Table 176. Festo Latest Developments

Table 177. Carnegie Robotics Basic Information, Cable-Driven System Manufacturing Base, Sales Area and Its Competitors

Table 178. Carnegie Robotics Cable-Driven System Product Portfolios and Specifications

Table 179. Carnegie Robotics Cable-Driven System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 180. Carnegie Robotics Main Business

Table 181. Carnegie Robotics Latest Developments

Table 182. Hocoma Basic Information, Cable-Driven System Manufacturing Base, Sales Area and Its Competitors

Table 183. Hocoma Cable-Driven System Product Portfolios and Specifications

Table 184. Hocoma Cable-Driven System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 185. Hocoma Main Business

Table 186. Hocoma Latest Developments

Table 187. Efort Intelligent Equipment Basic Information, Cable-Driven System Manufacturing Base, Sales Area and Its Competitors

Table 188. Efort Intelligent Equipment Cable-Driven System Product Portfolios and Specifications

Table 189. Efort Intelligent Equipment Cable-Driven System Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 190. Efort Intelligent Equipment Main Business

Table 191. Efort Intelligent Equipment Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Cable-Driven System
- Figure 2. Cable-Driven System Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Cable-Driven System Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Cable-Driven System Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Cable-Driven System Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Cable-Driven System Sales Market Share by Country/Region (2025)
- Figure 10. Cable-Driven System Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Single-Cable Drive Systems
- Figure 12. Product Picture of Multi-Cable Parallel Systems
- Figure 13. Product Picture of Tendon-Driven Systems
- Figure 14. Product Picture of Pulley-Based Cable Transmission Systems
- Figure 15. Global Cable-Driven System Sales Market Share by Structural Configuration in 2026
- Figure 16. Global Cable-Driven System Revenue Market Share by Structural Configuration (2021-2026)
- Figure 17. Product Picture of Micro Load (5kN)
- Figure 21. Global Cable-Driven System Sales Market Share by Load Capacity Level in 2026
- Figure 22. Global Cable-Driven System Revenue Market Share by Load Capacity Level (2021-2026)
- Figure 23. Product Picture of Ultra Precision (± 0.01 mm)
- Figure 24. Product Picture of High Precision (± 0.1 mm)
- Figure 25. Product Picture of Standard Precision (± 1 mm)
- Figure 26. Product Picture of Low Precision (>1 mm)
- Figure 27. Global Cable-Driven System Sales Market Share by Precision Level in 2026
- Figure 28. Global Cable-Driven System Revenue Market Share by Precision Level (2021-2026)
- Figure 29. Cable-Driven System Consumed in Industrial
- Figure 30. Global Cable-Driven System Market: Industrial (2021-2026) & (K Units)
- Figure 31. Cable-Driven System Consumed in Medical

- Figure 32. Global Cable-Driven System Market: Medical (2021-2026) & (K Units)
- Figure 33. Cable-Driven System Consumed in Aerospace & Defense
- Figure 34. Global Cable-Driven System Market: Aerospace & Defense (2021-2026) & (K Units)
- Figure 35. Cable-Driven System Consumed in Research & Laboratory
- Figure 36. Global Cable-Driven System Market: Research & Laboratory (2021-2026) & (K Units)
- Figure 37. Cable-Driven System Consumed in Others
- Figure 38. Global Cable-Driven System Market: Others (2021-2026) & (K Units)
- Figure 39. Global Cable-Driven System Sale Market Share by Application (2025)
- Figure 40. Global Cable-Driven System Revenue Market Share by Application in 2025
- Figure 41. Cable-Driven System Sales by Company in 2025 (K Units)
- Figure 42. Global Cable-Driven System Sales Market Share by Company in 2025
- Figure 43. Cable-Driven System Revenue by Company in 2025 (\$ millions)
- Figure 44. Global Cable-Driven System Revenue Market Share by Company in 2025
- Figure 45. Global Cable-Driven System Sales Market Share by Geographic Region (2021-2026)
- Figure 46. Global Cable-Driven System Revenue Market Share by Geographic Region in 2025
- Figure 47. Americas Cable-Driven System Sales 2021-2026 (K Units)
- Figure 48. Americas Cable-Driven System Revenue 2021-2026 (\$ millions)
- Figure 49. APAC Cable-Driven System Sales 2021-2026 (K Units)
- Figure 50. APAC Cable-Driven System Revenue 2021-2026 (\$ millions)
- Figure 51. Europe Cable-Driven System Sales 2021-2026 (K Units)
- Figure 52. Europe Cable-Driven System Revenue 2021-2026 (\$ millions)
- Figure 53. Middle East & Africa Cable-Driven System Sales 2021-2026 (K Units)
- Figure 54. Middle East & Africa Cable-Driven System Revenue 2021-2026 (\$ millions)
- Figure 55. Americas Cable-Driven System Sales Market Share by Country in 2025
- Figure 56. Americas Cable-Driven System Revenue Market Share by Country (2021-2026)
- Figure 57. Americas Cable-Driven System Sales Market Share by Structural Configuration (2021-2026)
- Figure 58. Americas Cable-Driven System Sales Market Share by Application (2021-2026)
- Figure 59. United States Cable-Driven System Revenue Growth 2021-2026 (\$ millions)
- Figure 60. Canada Cable-Driven System Revenue Growth 2021-2026 (\$ millions)
- Figure 61. Mexico Cable-Driven System Revenue Growth 2021-2026 (\$ millions)
- Figure 62. Brazil Cable-Driven System Revenue Growth 2021-2026 (\$ millions)
- Figure 63. APAC Cable-Driven System Sales Market Share by Region in 2025

- Figure 64. APAC Cable-Driven System Revenue Market Share by Region (2021-2026)
- Figure 65. APAC Cable-Driven System Sales Market Share by Structural Configuration (2021-2026)
- Figure 66. APAC Cable-Driven System Sales Market Share by Application (2021-2026)
- Figure 67. China Cable-Driven System Revenue Growth 2021-2026 (\$ millions)
- Figure 68. Japan Cable-Driven System Revenue Growth 2021-2026 (\$ millions)
- Figure 69. South Korea Cable-Driven System Revenue Growth 2021-2026 (\$ millions)
- Figure 70. Southeast Asia Cable-Driven System Revenue Growth 2021-2026 (\$ millions)
- Figure 71. India Cable-Driven System Revenue Growth 2021-2026 (\$ millions)
- Figure 72. Australia Cable-Driven System Revenue Growth 2021-2026 (\$ millions)
- Figure 73. China Taiwan Cable-Driven System Revenue Growth 2021-2026 (\$ millions)
- Figure 74. Europe Cable-Driven System Sales Market Share by Country in 2025
- Figure 75. Europe Cable-Driven System Revenue Market Share by Country (2021-2026)
- Figure 76. Europe Cable-Driven System Sales Market Share by Structural Configuration (2021-2026)
- Figure 77. Europe Cable-Driven System Sales Market Share by Application (2021-2026)
- Figure 78. Germany Cable-Driven System Revenue Growth 2021-2026 (\$ millions)
- Figure 79. France Cable-Driven System Revenue Growth 2021-2026 (\$ millions)
- Figure 80. UK Cable-Driven System Revenue Growth 2021-2026 (\$ millions)
- Figure 81. Italy Cable-Driven System Revenue Growth 2021-2026 (\$ millions)
- Figure 82. Russia Cable-Driven System Revenue Growth 2021-2026 (\$ millions)
- Figure 83. Middle East & Africa Cable-Driven System Sales Market Share by Country (2021-2026)
- Figure 84. Middle East & Africa Cable-Driven System Sales Market Share by Structural Configuration (2021-2026)
- Figure 85. Middle East & Africa Cable-Driven System Sales Market Share by Application (2021-2026)
- Figure 86. Egypt Cable-Driven System Revenue Growth 2021-2026 (\$ millions)
- Figure 87. South Africa Cable-Driven System Revenue Growth 2021-2026 (\$ millions)
- Figure 88. Israel Cable-Driven System Revenue Growth 2021-2026 (\$ millions)
- Figure 89. Turkey Cable-Driven System Revenue Growth 2021-2026 (\$ millions)
- Figure 90. GCC Countries Cable-Driven System Revenue Growth 2021-2026 (\$ millions)
- Figure 91. Manufacturing Cost Structure Analysis of Cable-Driven System in 2026
- Figure 92. Manufacturing Process Analysis of Cable-Driven System
- Figure 93. Industry Chain Structure of Cable-Driven System

Figure 94. Channels of Distribution

Figure 95. Global Cable-Driven System Sales Market Forecast by Region (2027-2032)

Figure 96. Global Cable-Driven System Revenue Market Share Forecast by Region (2027-2032)

Figure 97. Global Cable-Driven System Sales Market Share Forecast by Structural Configuration (2027-2032)

Figure 98. Global Cable-Driven System Revenue Market Share Forecast by Structural Configuration (2027-2032)

Figure 99. Global Cable-Driven System Sales Market Share Forecast by Application (2027-2032)

Figure 100. Global Cable-Driven System Revenue Market Share Forecast by Application (2027-2032)

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