

Global Needle-free Infusion Connectors Market Growth 2025-2031

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Abstracts

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

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

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

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

This Insight Report provides a comprehensive analysis of the global Mechanical Quantity Sensor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Mechanical Quantity Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Mechanical Quantity Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Mechanical Quantity Sensor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Mechanical Quantity Sensor.

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

Segmentation by Type:

Strain Gauge Type

Piezoresistive Type

Piezoelectric Type

Capacitive Type

Others

Segmentation by Application:

Industrial Control

Automobile

Consumer Electronics

Transportation

Medical

Robot

Equipment Manufacturing

New Energy

Semiconductor

Aerospace

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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

Sensata Technologies

Kistler

WIKA

TE Connectivity

Amphenol

MinebeaMitsumi

Nissha

Honeywell

Vishay Precision Group (VPG)

Novanta

Panasonic

HBK (Spectris)

Flintec

Futek

Tekscan

Keli Sensing Technology (Ningbo)

ZEMIC

Memsensing Microsystems

Key Questions Addressed in this Report

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

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

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

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

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

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 Needle-free Infusion Connectors Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for Needle-free Infusion Connectors by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for Needle-free Infusion Connectors by Country/Region, 2020, 2024 & 2031
- 2.2 Needle-free Infusion Connectors Segment by Type
 - 2.2.1 Positive Pressure Connector
 - 2.2.2 Negative Pressure Connector
 - 2.2.3 Balance Pessure Connector
- 2.3 Needle-free Infusion Connectors Sales by Type
 - 2.3.1 Global Needle-free Infusion Connectors Sales Market Share by Type (2020-2025)
 - 2.3.2 Global Needle-free Infusion Connectors Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global Needle-free Infusion Connectors Sale Price by Type (2020-2025)
- 2.4 Needle-free Infusion Connectors Segment by Application
 - 2.4.1 Hospital
 - 2.4.2 Clinic
- 2.5 Needle-free Infusion Connectors Sales by Application
 - 2.5.1 Global Needle-free Infusion Connectors Sale Market Share by Application (2020-2025)
 - 2.5.2 Global Needle-free Infusion Connectors Revenue and Market Share by Application (2020-2025)

2.5.3 Global Needle-free Infusion Connectors Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Needle-free Infusion Connectors Breakdown Data by Company

3.1.1 Global Needle-free Infusion Connectors Annual Sales by Company (2020-2025)

3.1.2 Global Needle-free Infusion Connectors Sales Market Share by Company (2020-2025)

3.2 Global Needle-free Infusion Connectors Annual Revenue by Company (2020-2025)

3.2.1 Global Needle-free Infusion Connectors Revenue by Company (2020-2025)

3.2.2 Global Needle-free Infusion Connectors Revenue Market Share by Company (2020-2025)

3.3 Global Needle-free Infusion Connectors Sale Price by Company

3.4 Key Manufacturers Needle-free Infusion Connectors Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Needle-free Infusion Connectors Product Location Distribution

3.4.2 Players Needle-free Infusion Connectors Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR NEEDLE-FREE INFUSION CONNECTORS BY GEOGRAPHIC REGION

4.1 World Historic Needle-free Infusion Connectors Market Size by Geographic Region (2020-2025)

4.1.1 Global Needle-free Infusion Connectors Annual Sales by Geographic Region (2020-2025)

4.1.2 Global Needle-free Infusion Connectors Annual Revenue by Geographic Region (2020-2025)

4.2 World Historic Needle-free Infusion Connectors Market Size by Country/Region (2020-2025)

4.2.1 Global Needle-free Infusion Connectors Annual Sales by Country/Region (2020-2025)

4.2.2 Global Needle-free Infusion Connectors Annual Revenue by Country/Region (2020-2025)

- 4.3 Americas Needle-free Infusion Connectors Sales Growth
- 4.4 APAC Needle-free Infusion Connectors Sales Growth
- 4.5 Europe Needle-free Infusion Connectors Sales Growth
- 4.6 Middle East & Africa Needle-free Infusion Connectors Sales Growth

5 AMERICAS

- 5.1 Americas Needle-free Infusion Connectors Sales by Country
 - 5.1.1 Americas Needle-free Infusion Connectors Sales by Country (2020-2025)
 - 5.1.2 Americas Needle-free Infusion Connectors Revenue by Country (2020-2025)
- 5.2 Americas Needle-free Infusion Connectors Sales by Type (2020-2025)
- 5.3 Americas Needle-free Infusion Connectors Sales by Application (2020-2025)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Needle-free Infusion Connectors Sales by Region
 - 6.1.1 APAC Needle-free Infusion Connectors Sales by Region (2020-2025)
 - 6.1.2 APAC Needle-free Infusion Connectors Revenue by Region (2020-2025)
- 6.2 APAC Needle-free Infusion Connectors Sales by Type (2020-2025)
- 6.3 APAC Needle-free Infusion Connectors Sales by Application (2020-2025)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Needle-free Infusion Connectors by Country
 - 7.1.1 Europe Needle-free Infusion Connectors Sales by Country (2020-2025)
 - 7.1.2 Europe Needle-free Infusion Connectors Revenue by Country (2020-2025)
- 7.2 Europe Needle-free Infusion Connectors Sales by Type (2020-2025)
- 7.3 Europe Needle-free Infusion Connectors Sales by Application (2020-2025)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Needle-free Infusion Connectors by Country

8.1.1 Middle East & Africa Needle-free Infusion Connectors Sales by Country
(2020-2025)

8.1.2 Middle East & Africa Needle-free Infusion Connectors Revenue by Country
(2020-2025)

8.2 Middle East & Africa Needle-free Infusion Connectors Sales by Type (2020-2025)

8.3 Middle East & Africa Needle-free Infusion Connectors Sales by Application
(2020-2025)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Needle-free Infusion Connectors

10.3 Manufacturing Process Analysis of Needle-free Infusion Connectors

10.4 Industry Chain Structure of Needle-free Infusion Connectors

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

- 11.1.2 Indirect Channels
- 11.2 Needle-free Infusion Connectors Distributors
- 11.3 Needle-free Infusion Connectors Customer

12 WORLD FORECAST REVIEW FOR NEEDLE-FREE INFUSION CONNECTORS BY GEOGRAPHIC REGION

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

13 KEY PLAYERS ANALYSIS

- 13.1 BD
 - 13.1.1 BD Company Information
 - 13.1.2 BD Needle-free Infusion Connectors Product Portfolios and Specifications
 - 13.1.3 BD Needle-free Infusion Connectors Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.1.4 BD Main Business Overview
 - 13.1.5 BD Latest Developments
- 13.2 B. Braun
 - 13.2.1 B. Braun Company Information
 - 13.2.2 B. Braun Needle-free Infusion Connectors Product Portfolios and Specifications
 - 13.2.3 B. Braun Needle-free Infusion Connectors Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.2.4 B. Braun Main Business Overview
 - 13.2.5 B. Braun Latest Developments
- 13.3 ICU Medical
 - 13.3.1 ICU Medical Company Information
 - 13.3.2 ICU Medical Needle-free Infusion Connectors Product Portfolios and Specifications
 - 13.3.3 ICU Medical Needle-free Infusion Connectors Sales, Revenue, Price and Gross

Margin (2020-2025)

13.3.4 ICU Medical Main Business Overview

13.3.5 ICU Medical Latest Developments

13.4 Terumo Medical

13.4.1 Terumo Medical Company Information

13.4.2 Terumo Medical Needle-free Infusion Connectors Product Portfolios and Specifications

13.4.3 Terumo Medical Needle-free Infusion Connectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.4.4 Terumo Medical Main Business Overview

13.4.5 Terumo Medical Latest Developments

13.5 Vygon

13.5.1 Vygon Company Information

13.5.2 Vygon Needle-free Infusion Connectors Product Portfolios and Specifications

13.5.3 Vygon Needle-free Infusion Connectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.5.4 Vygon Main Business Overview

13.5.5 Vygon Latest Developments

13.6 Henan Tuoren Best Medical Device

13.6.1 Henan Tuoren Best Medical Device Company Information

13.6.2 Henan Tuoren Best Medical Device Needle-free Infusion Connectors Product Portfolios and Specifications

13.6.3 Henan Tuoren Best Medical Device Needle-free Infusion Connectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.6.4 Henan Tuoren Best Medical Device Main Business Overview

13.6.5 Henan Tuoren Best Medical Device Latest Developments

13.7 Guangdong Baihe Medical Technology

13.7.1 Guangdong Baihe Medical Technology Company Information

13.7.2 Guangdong Baihe Medical Technology Needle-free Infusion Connectors Product Portfolios and Specifications

13.7.3 Guangdong Baihe Medical Technology Needle-free Infusion Connectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.7.4 Guangdong Baihe Medical Technology Main Business Overview

13.7.5 Guangdong Baihe Medical Technology Latest Developments

13.8 Super Health Medical

13.8.1 Super Health Medical Company Information

13.8.2 Super Health Medical Needle-free Infusion Connectors Product Portfolios and Specifications

13.8.3 Super Health Medical Needle-free Infusion Connectors Sales, Revenue, Price

and Gross Margin (2020-2025)

13.8.4 Super Health Medical Main Business Overview

13.8.5 Super Health Medical Latest Developments

13.9 Weigao Group

13.9.1 Weigao Group Company Information

13.9.2 Weigao Group Needle-free Infusion Connectors Product Portfolios and Specifications

13.9.3 Weigao Group Needle-free Infusion Connectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.9.4 Weigao Group Main Business Overview

13.9.5 Weigao Group Latest Developments

13.10 JiangXi HuaLi Medical

13.10.1 JiangXi HuaLi Medical Company Information

13.10.2 JiangXi HuaLi Medical Needle-free Infusion Connectors Product Portfolios and Specifications

13.10.3 JiangXi HuaLi Medical Needle-free Infusion Connectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.10.4 JiangXi HuaLi Medical Main Business Overview

13.10.5 JiangXi HuaLi Medical Latest Developments

13.11 Shenzhen Antmed

13.11.1 Shenzhen Antmed Company Information

13.11.2 Shenzhen Antmed Needle-free Infusion Connectors Product Portfolios and Specifications

13.11.3 Shenzhen Antmed Needle-free Infusion Connectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.11.4 Shenzhen Antmed Main Business Overview

13.11.5 Shenzhen Antmed Latest Developments

13.12 Suzhou Linhwa Medical

13.12.1 Suzhou Linhwa Medical Company Information

13.12.2 Suzhou Linhwa Medical Needle-free Infusion Connectors Product Portfolios and Specifications

13.12.3 Suzhou Linhwa Medical Needle-free Infusion Connectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.12.4 Suzhou Linhwa Medical Main Business Overview

13.12.5 Suzhou Linhwa Medical Latest Developments

13.13 HaoLang Medical

13.13.1 HaoLang Medical Company Information

13.13.2 HaoLang Medical Needle-free Infusion Connectors Product Portfolios and Specifications

13.13.3 HaoLang Medical Needle-free Infusion Connectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.13.4 HaoLang Medical Main Business Overview

13.13.5 HaoLang Medical Latest Developments

13.14 Shinva Ande Healthcare

13.14.1 Shinva Ande Healthcare Company Information

13.14.2 Shinva Ande Healthcare Needle-free Infusion Connectors Product Portfolios and Specifications

13.14.3 Shinva Ande Healthcare Needle-free Infusion Connectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.14.4 Shinva Ande Healthcare Main Business Overview

13.14.5 Shinva Ande Healthcare Latest Developments

13.15 Foshan Special Medical

13.15.1 Foshan Special Medical Company Information

13.15.2 Foshan Special Medical Needle-free Infusion Connectors Product Portfolios and Specifications

13.15.3 Foshan Special Medical Needle-free Infusion Connectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.15.4 Foshan Special Medical Main Business Overview

13.15.5 Foshan Special Medical Latest Developments

13.16 Beijing Fert Technology

13.16.1 Beijing Fert Technology Company Information

13.16.2 Beijing Fert Technology Needle-free Infusion Connectors Product Portfolios and Specifications

13.16.3 Beijing Fert Technology Needle-free Infusion Connectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.16.4 Beijing Fert Technology Main Business Overview

13.16.5 Beijing Fert Technology Latest Developments

13.17 Lepu Medical Technology

13.17.1 Lepu Medical Technology Company Information

13.17.2 Lepu Medical Technology Needle-free Infusion Connectors Product Portfolios and Specifications

13.17.3 Lepu Medical Technology Needle-free Infusion Connectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.17.4 Lepu Medical Technology Main Business Overview

13.17.5 Lepu Medical Technology Latest Developments

13.18 Guangdong Aidi Medical Technology

13.18.1 Guangdong Aidi Medical Technology Company Information

13.18.2 Guangdong Aidi Medical Technology Needle-free Infusion Connectors Product

Portfolios and Specifications

13.18.3 Guangdong Aidi Medical Technology Needle-free Infusion Connectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.18.4 Guangdong Aidi Medical Technology Main Business Overview

13.18.5 Guangdong Aidi Medical Technology Latest Developments

13.19 Zhengzhou Diall Medical Technology

13.19.1 Zhengzhou Diall Medical Technology Company Information

13.19.2 Zhengzhou Diall Medical Technology Needle-free Infusion Connectors Product Portfolios and Specifications

13.19.3 Zhengzhou Diall Medical Technology Needle-free Infusion Connectors Sales, Revenue, Price and Gross Margin (2020-2025)

13.19.4 Zhengzhou Diall Medical Technology Main Business Overview

13.19.5 Zhengzhou Diall Medical Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Needle-free Infusion Connectors Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. Needle-free Infusion Connectors Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of Positive Pressure Connector

Table 4. Major Players of Negative Pressure Connector

Table 5. Major Players of Balance Pessure Connector

Table 6. Global Needle-free Infusion Connectors Sales by Type (2020-2025) & (K Units)

Table 7. Global Needle-free Infusion Connectors Sales Market Share by Type (2020-2025)

Table 8. Global Needle-free Infusion Connectors Revenue by Type (2020-2025) & (\$ million)

Table 9. Global Needle-free Infusion Connectors Revenue Market Share by Type (2020-2025)

Table 10. Global Needle-free Infusion Connectors Sale Price by Type (2020-2025) & (US\$/Unit)

Table 11. Global Needle-free Infusion Connectors Sale by Application (2020-2025) & (K Units)

Table 12. Global Needle-free Infusion Connectors Sale Market Share by Application (2020-2025)

Table 13. Global Needle-free Infusion Connectors Revenue by Application (2020-2025) & (\$ million)

Table 14. Global Needle-free Infusion Connectors Revenue Market Share by Application (2020-2025)

Table 15. Global Needle-free Infusion Connectors Sale Price by Application (2020-2025) & (US\$/Unit)

Table 16. Global Needle-free Infusion Connectors Sales by Company (2020-2025) & (K Units)

Table 17. Global Needle-free Infusion Connectors Sales Market Share by Company (2020-2025)

Table 18. Global Needle-free Infusion Connectors Revenue by Company (2020-2025) & (\$ millions)

Table 19. Global Needle-free Infusion Connectors Revenue Market Share by Company (2020-2025)

Table 20. Global Needle-free Infusion Connectors Sale Price by Company (2020-2025)

& (US\$/Unit)

Table 21. Key Manufacturers Needle-free Infusion Connectors Producing Area
Distribution and Sales Area

Table 22. Players Needle-free Infusion Connectors Products Offered

Table 23. Needle-free Infusion Connectors Concentration Ratio (CR3, CR5 and CR10)
& (2023-2025)

Table 24. New Products and Potential Entrants

Table 25. Market M&A Activity & Strategy

Table 26. Global Needle-free Infusion Connectors Sales by Geographic Region
(2020-2025) & (K Units)

Table 27. Global Needle-free Infusion Connectors Sales Market Share Geographic
Region (2020-2025)

Table 28. Global Needle-free Infusion Connectors Revenue by Geographic Region
(2020-2025) & (\$ millions)

Table 29. Global Needle-free Infusion Connectors Revenue Market Share by
Geographic Region (2020-2025)

Table 30. Global Needle-free Infusion Connectors Sales by Country/Region
(2020-2025) & (K Units)

Table 31. Global Needle-free Infusion Connectors Sales Market Share by
Country/Region (2020-2025)

Table 32. Global Needle-free Infusion Connectors Revenue by Country/Region
(2020-2025) & (\$ millions)

Table 33. Global Needle-free Infusion Connectors Revenue Market Share by
Country/Region (2020-2025)

Table 34. Americas Needle-free Infusion Connectors Sales by Country (2020-2025) &
(K Units)

Table 35. Americas Needle-free Infusion Connectors Sales Market Share by Country
(2020-2025)

Table 36. Americas Needle-free Infusion Connectors Revenue by Country (2020-2025)
& (\$ millions)

Table 37. Americas Needle-free Infusion Connectors Sales by Type (2020-2025) & (K
Units)

Table 38. Americas Needle-free Infusion Connectors Sales by Application (2020-2025)
& (K Units)

Table 39. APAC Needle-free Infusion Connectors Sales by Region (2020-2025) & (K
Units)

Table 40. APAC Needle-free Infusion Connectors Sales Market Share by Region
(2020-2025)

Table 41. APAC Needle-free Infusion Connectors Revenue by Region (2020-2025) & (\$

millions)

Table 42. APAC Needle-free Infusion Connectors Sales by Type (2020-2025) & (K Units)

Table 43. APAC Needle-free Infusion Connectors Sales by Application (2020-2025) & (K Units)

Table 44. Europe Needle-free Infusion Connectors Sales by Country (2020-2025) & (K Units)

Table 45. Europe Needle-free Infusion Connectors Revenue by Country (2020-2025) & (\$ millions)

Table 46. Europe Needle-free Infusion Connectors Sales by Type (2020-2025) & (K Units)

Table 47. Europe Needle-free Infusion Connectors Sales by Application (2020-2025) & (K Units)

Table 48. Middle East & Africa Needle-free Infusion Connectors Sales by Country (2020-2025) & (K Units)

Table 49. Middle East & Africa Needle-free Infusion Connectors Revenue Market Share by Country (2020-2025)

Table 50. Middle East & Africa Needle-free Infusion Connectors Sales by Type (2020-2025) & (K Units)

Table 51. Middle East & Africa Needle-free Infusion Connectors Sales by Application (2020-2025) & (K Units)

Table 52. Key Market Drivers & Growth Opportunities of Needle-free Infusion Connectors

Table 53. Key Market Challenges & Risks of Needle-free Infusion Connectors

Table 54. Key Industry Trends of Needle-free Infusion Connectors

Table 55. Needle-free Infusion Connectors Raw Material

Table 56. Key Suppliers of Raw Materials

Table 57. Needle-free Infusion Connectors Distributors List

Table 58. Needle-free Infusion Connectors Customer List

Table 59. Global Needle-free Infusion Connectors Sales Forecast by Region (2026-2031) & (K Units)

Table 60. Global Needle-free Infusion Connectors Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 61. Americas Needle-free Infusion Connectors Sales Forecast by Country (2026-2031) & (K Units)

Table 62. Americas Needle-free Infusion Connectors Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 63. APAC Needle-free Infusion Connectors Sales Forecast by Region (2026-2031) & (K Units)

Table 64. APAC Needle-free Infusion Connectors Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 65. Europe Needle-free Infusion Connectors Sales Forecast by Country (2026-2031) & (K Units)

Table 66. Europe Needle-free Infusion Connectors Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 67. Middle East & Africa Needle-free Infusion Connectors Sales Forecast by Country (2026-2031) & (K Units)

Table 68. Middle East & Africa Needle-free Infusion Connectors Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 69. Global Needle-free Infusion Connectors Sales Forecast by Type (2026-2031) & (K Units)

Table 70. Global Needle-free Infusion Connectors Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 71. Global Needle-free Infusion Connectors Sales Forecast by Application (2026-2031) & (K Units)

Table 72. Global Needle-free Infusion Connectors Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 73. BD Basic Information, Needle-free Infusion Connectors Manufacturing Base, Sales Area and Its Competitors

Table 74. BD Needle-free Infusion Connectors Product Portfolios and Specifications

Table 75. BD Needle-free Infusion Connectors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 76. BD Main Business

Table 77. BD Latest Developments

Table 78. B. Braun Basic Information, Needle-free Infusion Connectors Manufacturing Base, Sales Area and Its Competitors

Table 79. B. Braun Needle-free Infusion Connectors Product Portfolios and Specifications

Table 80. B. Braun Needle-free Infusion Connectors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 81. B. Braun Main Business

Table 82. B. Braun Latest Developments

Table 83. ICU Medical Basic Information, Needle-free Infusion Connectors Manufacturing Base, Sales Area and Its Competitors

Table 84. ICU Medical Needle-free Infusion Connectors Product Portfolios and Specifications

Table 85. ICU Medical Needle-free Infusion Connectors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 86. ICU Medical Main Business

Table 87. ICU Medical Latest Developments

Table 88. Terumo Medical Basic Information, Needle-free Infusion Connectors Manufacturing Base, Sales Area and Its Competitors

Table 89. Terumo Medical Needle-free Infusion Connectors Product Portfolios and Specifications

Table 90. Terumo Medical Needle-free Infusion Connectors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 91. Terumo Medical Main Business

Table 92. Terumo Medical Latest Developments

Table 93. Vygon Basic Information, Needle-free Infusion Connectors Manufacturing Base, Sales Area and Its Competitors

Table 94. Vygon Needle-free Infusion Connectors Product Portfolios and Specifications

Table 95. Vygon Needle-free Infusion Connectors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 96. Vygon Main Business

Table 97. Vygon Latest Developments

Table 98. Henan Tuoren Best Medical Device Basic Information, Needle-free Infusion Connectors Manufacturing Base, Sales Area and Its Competitors

Table 99. Henan Tuoren Best Medical Device Needle-free Infusion Connectors Product Portfolios and Specifications

Table 100. Henan Tuoren Best Medical Device Needle-free Infusion Connectors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 101. Henan Tuoren Best Medical Device Main Business

Table 102. Henan Tuoren Best Medical Device Latest Developments

Table 103. Guangdong Baihe Medical Technology Basic Information, Needle-free Infusion Connectors Manufacturing Base, Sales Area and Its Competitors

Table 104. Guangdong Baihe Medical Technology Needle-free Infusion Connectors Product Portfolios and Specifications

Table 105. Guangdong Baihe Medical Technology Needle-free Infusion Connectors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 106. Guangdong Baihe Medical Technology Main Business

Table 107. Guangdong Baihe Medical Technology Latest Developments

Table 108. Super Health Medical Basic Information, Needle-free Infusion Connectors Manufacturing Base, Sales Area and Its Competitors

Table 109. Super Health Medical Needle-free Infusion Connectors Product Portfolios and Specifications

Table 110. Super Health Medical Needle-free Infusion Connectors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 111. Super Health Medical Main Business

Table 112. Super Health Medical Latest Developments

Table 113. Weigao Group Basic Information, Needle-free Infusion Connectors Manufacturing Base, Sales Area and Its Competitors

Table 114. Weigao Group Needle-free Infusion Connectors Product Portfolios and Specifications

Table 115. Weigao Group Needle-free Infusion Connectors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 116. Weigao Group Main Business

Table 117. Weigao Group Latest Developments

Table 118. JiangXi HuaLi Medical Basic Information, Needle-free Infusion Connectors Manufacturing Base, Sales Area and Its Competitors

Table 119. JiangXi HuaLi Medical Needle-free Infusion Connectors Product Portfolios and Specifications

Table 120. JiangXi HuaLi Medical Needle-free Infusion Connectors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 121. JiangXi HuaLi Medical Main Business

Table 122. JiangXi HuaLi Medical Latest Developments

Table 123. Shenzhen Antmed Basic Information, Needle-free Infusion Connectors Manufacturing Base, Sales Area and Its Competitors

Table 124. Shenzhen Antmed Needle-free Infusion Connectors Product Portfolios and Specifications

Table 125. Shenzhen Antmed Needle-free Infusion Connectors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 126. Shenzhen Antmed Main Business

Table 127. Shenzhen Antmed Latest Developments

Table 128. Suzhou Linhwa Medical Basic Information, Needle-free Infusion Connectors Manufacturing Base, Sales Area and Its Competitors

Table 129. Suzhou Linhwa Medical Needle-free Infusion Connectors Product Portfolios and Specifications

Table 130. Suzhou Linhwa Medical Needle-free Infusion Connectors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 131. Suzhou Linhwa Medical Main Business

Table 132. Suzhou Linhwa Medical Latest Developments

Table 133. HaoLang Medical Basic Information, Needle-free Infusion Connectors Manufacturing Base, Sales Area and Its Competitors

Table 134. HaoLang Medical Needle-free Infusion Connectors Product Portfolios and Specifications

Table 135. HaoLang Medical Needle-free Infusion Connectors Sales (K Units), Revenue

(\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 136. HaoLang Medical Main Business

Table 137. HaoLang Medical Latest Developments

Table 138. Shinva Ande Healthcare Basic Information, Needle-free Infusion Connectors Manufacturing Base, Sales Area and Its Competitors

Table 139. Shinva Ande Healthcare Needle-free Infusion Connectors Product Portfolios and Specifications

Table 140. Shinva Ande Healthcare Needle-free Infusion Connectors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 141. Shinva Ande Healthcare Main Business

Table 142. Shinva Ande Healthcare Latest Developments

Table 143. Foshan Special Medical Basic Information, Needle-free Infusion Connectors Manufacturing Base, Sales Area and Its Competitors

Table 144. Foshan Special Medical Needle-free Infusion Connectors Product Portfolios and Specifications

Table 145. Foshan Special Medical Needle-free Infusion Connectors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 146. Foshan Special Medical Main Business

Table 147. Foshan Special Medical Latest Developments

Table 148. Beijing Fert Technology Basic Information, Needle-free Infusion Connectors Manufacturing Base, Sales Area and Its Competitors

Table 149. Beijing Fert Technology Needle-free Infusion Connectors Product Portfolios and Specifications

Table 150. Beijing Fert Technology Needle-free Infusion Connectors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 151. Beijing Fert Technology Main Business

Table 152. Beijing Fert Technology Latest Developments

Table 153. Lepu Medical Technology Basic Information, Needle-free Infusion Connectors Manufacturing Base, Sales Area and Its Competitors

Table 154. Lepu Medical Technology Needle-free Infusion Connectors Product Portfolios and Specifications

Table 155. Lepu Medical Technology Needle-free Infusion Connectors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 156. Lepu Medical Technology Main Business

Table 157. Lepu Medical Technology Latest Developments

Table 158. Guangdong Aidi Medical Technology Basic Information, Needle-free Infusion Connectors Manufacturing Base, Sales Area and Its Competitors

Table 159. Guangdong Aidi Medical Technology Needle-free Infusion Connectors Product Portfolios and Specifications

Table 160. Guangdong Aidi Medical Technology Needle-free Infusion Connectors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 161. Guangdong Aidi Medical Technology Main Business

Table 162. Guangdong Aidi Medical Technology Latest Developments

Table 163. Zhengzhou Diall Medical Technology Basic Information, Needle-free Infusion Connectors Manufacturing Base, Sales Area and Its Competitors

Table 164. Zhengzhou Diall Medical Technology Needle-free Infusion Connectors Product Portfolios and Specifications

Table 165. Zhengzhou Diall Medical Technology Needle-free Infusion Connectors Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 166. Zhengzhou Diall Medical Technology Main Business

Table 167. Zhengzhou Diall Medical Technology Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Needle-free Infusion Connectors
- Figure 2. Needle-free Infusion Connectors Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Needle-free Infusion Connectors Sales Growth Rate 2020-2031 (K Units)
- Figure 7. Global Needle-free Infusion Connectors Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. Needle-free Infusion Connectors Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. Needle-free Infusion Connectors Sales Market Share by Country/Region (2024)
- Figure 10. Needle-free Infusion Connectors Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Positive Pressure Connector
- Figure 12. Product Picture of Negative Pressure Connector
- Figure 13. Product Picture of Balance Pressure Connector
- Figure 14. Global Needle-free Infusion Connectors Sales Market Share by Type in 2025
- Figure 15. Global Needle-free Infusion Connectors Revenue Market Share by Type (2020-2025)
- Figure 16. Needle-free Infusion Connectors Consumed in Hospital
- Figure 17. Global Needle-free Infusion Connectors Market: Hospital (2020-2025) & (K Units)
- Figure 18. Needle-free Infusion Connectors Consumed in Clinic
- Figure 19. Global Needle-free Infusion Connectors Market: Clinic (2020-2025) & (K Units)
- Figure 20. Global Needle-free Infusion Connectors Sales Market Share by Application (2024)
- Figure 21. Global Needle-free Infusion Connectors Revenue Market Share by Application in 2025
- Figure 22. Needle-free Infusion Connectors Sales by Company in 2025 (K Units)
- Figure 23. Global Needle-free Infusion Connectors Sales Market Share by Company in 2025
- Figure 24. Needle-free Infusion Connectors Revenue by Company in 2025 (\$ millions)

Figure 25. Global Needle-free Infusion Connectors Revenue Market Share by Company in 2025

Figure 26. Global Needle-free Infusion Connectors Sales Market Share by Geographic Region (2020-2025)

Figure 27. Global Needle-free Infusion Connectors Revenue Market Share by Geographic Region in 2025

Figure 28. Americas Needle-free Infusion Connectors Sales 2020-2025 (K Units)

Figure 29. Americas Needle-free Infusion Connectors Revenue 2020-2025 (\$ millions)

Figure 30. APAC Needle-free Infusion Connectors Sales 2020-2025 (K Units)

Figure 31. APAC Needle-free Infusion Connectors Revenue 2020-2025 (\$ millions)

Figure 32. Europe Needle-free Infusion Connectors Sales 2020-2025 (K Units)

Figure 33. Europe Needle-free Infusion Connectors Revenue 2020-2025 (\$ millions)

Figure 34. Middle East & Africa Needle-free Infusion Connectors Sales 2020-2025 (K Units)

Figure 35. Middle East & Africa Needle-free Infusion Connectors Revenue 2020-2025 (\$ millions)

Figure 36. Americas Needle-free Infusion Connectors Sales Market Share by Country in 2025

Figure 37. Americas Needle-free Infusion Connectors Revenue Market Share by Country (2020-2025)

Figure 38. Americas Needle-free Infusion Connectors Sales Market Share by Type (2020-2025)

Figure 39. Americas Needle-free Infusion Connectors Sales Market Share by Application (2020-2025)

Figure 40. United States Needle-free Infusion Connectors Revenue Growth 2020-2025 (\$ millions)

Figure 41. Canada Needle-free Infusion Connectors Revenue Growth 2020-2025 (\$ millions)

Figure 42. Mexico Needle-free Infusion Connectors Revenue Growth 2020-2025 (\$ millions)

Figure 43. Brazil Needle-free Infusion Connectors Revenue Growth 2020-2025 (\$ millions)

Figure 44. APAC Needle-free Infusion Connectors Sales Market Share by Region in 2025

Figure 45. APAC Needle-free Infusion Connectors Revenue Market Share by Region (2020-2025)

Figure 46. APAC Needle-free Infusion Connectors Sales Market Share by Type (2020-2025)

Figure 47. APAC Needle-free Infusion Connectors Sales Market Share by Application

(2020-2025)

Figure 48. China Needle-free Infusion Connectors Revenue Growth 2020-2025 (\$ millions)

Figure 49. Japan Needle-free Infusion Connectors Revenue Growth 2020-2025 (\$ millions)

Figure 50. South Korea Needle-free Infusion Connectors Revenue Growth 2020-2025 (\$ millions)

Figure 51. Southeast Asia Needle-free Infusion Connectors Revenue Growth 2020-2025 (\$ millions)

Figure 52. India Needle-free Infusion Connectors Revenue Growth 2020-2025 (\$ millions)

Figure 53. Australia Needle-free Infusion Connectors Revenue Growth 2020-2025 (\$ millions)

Figure 54. China Taiwan Needle-free Infusion Connectors Revenue Growth 2020-2025 (\$ millions)

Figure 55. Europe Needle-free Infusion Connectors Sales Market Share by Country in 2025

Figure 56. Europe Needle-free Infusion Connectors Revenue Market Share by Country (2020-2025)

Figure 57. Europe Needle-free Infusion Connectors Sales Market Share by Type (2020-2025)

Figure 58. Europe Needle-free Infusion Connectors Sales Market Share by Application (2020-2025)

Figure 59. Germany Needle-free Infusion Connectors Revenue Growth 2020-2025 (\$ millions)

Figure 60. France Needle-free Infusion Connectors Revenue Growth 2020-2025 (\$ millions)

Figure 61. UK Needle-free Infusion Connectors Revenue Growth 2020-2025 (\$ millions)

Figure 62. Italy Needle-free Infusion Connectors Revenue Growth 2020-2025 (\$ millions)

Figure 63. Russia Needle-free Infusion Connectors Revenue Growth 2020-2025 (\$ millions)

Figure 64. Middle East & Africa Needle-free Infusion Connectors Sales Market Share by Country (2020-2025)

Figure 65. Middle East & Africa Needle-free Infusion Connectors Sales Market Share by Type (2020-2025)

Figure 66. Middle East & Africa Needle-free Infusion Connectors Sales Market Share by Application (2020-2025)

Figure 67. Egypt Needle-free Infusion Connectors Revenue Growth 2020-2025 (\$

millions)

Figure 68. South Africa Needle-free Infusion Connectors Revenue Growth 2020-2025 (\$ millions)

Figure 69. Israel Needle-free Infusion Connectors Revenue Growth 2020-2025 (\$ millions)

Figure 70. Turkey Needle-free Infusion Connectors Revenue Growth 2020-2025 (\$ millions)

Figure 71. GCC Countries Needle-free Infusion Connectors Revenue Growth 2020-2025 (\$ millions)

Figure 72. Manufacturing Cost Structure Analysis of Needle-free Infusion Connectors in 2025

Figure 73. Manufacturing Process Analysis of Needle-free Infusion Connectors

Figure 74. Industry Chain Structure of Needle-free Infusion Connectors

Figure 75. Channels of Distribution

Figure 76. Global Needle-free Infusion Connectors Sales Market Forecast by Region (2026-2031)

Figure 77. Global Needle-free Infusion Connectors Revenue Market Share Forecast by Region (2026-2031)

Figure 78. Global Needle-free Infusion Connectors Sales Market Share Forecast by Type (2026-2031)

Figure 79. Global Needle-free Infusion Connectors Revenue Market Share Forecast by Type (2026-2031)

Figure 80. Global Needle-free Infusion Connectors Sales Market Share Forecast by Application (2026-2031)

Figure 81. Global Needle-free Infusion Connectors Revenue Market Share Forecast by Application (2026-2031)

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