

Global Screw Locking Articulated Arm Robot Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Screw Locking Articulated Arm Robot market size is expected to reach \$ 3882 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

A Screw Locking Articulated Arm Robot is a multi-joint industrial robot equipped with an intelligent screwdriving system that performs automated fastener pickup, positioning, driving, and torque-controlled tightening across complex three-dimensional paths, enabling flexible, high-precision fastening of products with multiple screw points and varied orientations in automated or semi-automated assembly lines.

Upstream, Screw Locking Articulated Arm Robots depend on articulated robot bodies, servo motors, reducers, robot controllers, smart electric screwdrivers, torque and angle sensors, screw feeders, vision systems, safety devices, and fastening software; midstream, robot OEMs and automation integrators combine articulated robots with screwdriving units, fixtures, conveyors, PLCs, and MES interfaces to form flexible screw locking cells or in-line stations; downstream, electronics, automotive, battery, appliance, medical, and industrial equipment manufacturers adopt these robots to improve fastening consistency, reduce manual labor, and enable digital quality traceability.

Projects under construction and planned typically include six-axis screw locking robot cells for smartphone and notebook assembly, articulated robot fastening stations for automotive cockpit and door modules, battery pack and power electronics screw locking lines with full torque traceability, medical device assembly cells with cleanroom adaptation, white goods assembly upgrades replacing manual fastening, and standardized articulated screw locking workcells for SMEs seeking flexible automation across multiple product platforms.

2025 Global Market sales Volume: 185,000 Units. Average Global Market Price: US\$ 12,200 Per Unit. Market Average Gross Profit Margin: 38%.

This report studies the global Screw Locking Articulated Arm Robot production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Screw Locking Articulated Arm Robot total production and demand, 2021-2032, (K Units)

Global Screw Locking Articulated Arm Robot total production value, 2021-2032, (USD Million)

Global Screw Locking Articulated Arm Robot production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Screw Locking Articulated Arm Robot consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Screw Locking Articulated Arm Robot domestic production, consumption, key domestic manufacturers and share

Global Screw Locking Articulated Arm Robot production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Screw Locking Articulated Arm Robot production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Screw Locking Articulated Arm Robot production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Screw Locking Articulated Arm Robot market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Inovance Group, Guangdong Huayan Robotics Co, DELTA, Estun, KYUSHU NITTO SEIKO CO, SIASUN DUCO, QUICK, JiangSu Teamrobot Technology Ltd, AUBO (BEIJING) ROBOTICS TECHNOLOGY CO, NITTOSEIKO CO, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Screw Locking Articulated Arm Robot market

Detailed Segmentation:

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

Global Screw Locking Articulated Arm Robot Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Screw Locking Articulated Arm Robot Market, Segmentation by Type:

Four-Axis Articulated Robot

Five-Axis Articulated Robot

Six-Axis Articulated Robot

Seven-Axis Articulated Robot

Global Screw Locking Articulated Arm Robot Market, Segmentation by Payload Capacity:

Micro Payload (Under 3 Kg)

Light Payload (3–10 Kg)

Medium Payload (11–20 Kg)

Heavy Payload (Over 20 Kg)

Global Screw Locking Articulated Arm Robot Market, Segmentation by Installation Mode:

Bench-Top System

Fixed Cell System

In-Line Conveyor Integrated System

Mobile Workstation System

Global Screw Locking Articulated Arm Robot Market, Segmentation by Application:

Consumer Electronics

Home Appliance

Automotive

New Energy and Battery

Medical Device

Industrial Equipment

Others

Companies Profiled:

Inovance Group

Guangdong Huayan Robotics Co

DELTA

Estun

KYUSHU NITTO SEIKO CO

SIASUN DUCO

QUICK

JiangSu Teamrobot Technology Ltd

AUBO (BEIJING) ROBOTICS TECHNOLOGY CO

NITTOSEIKO CO

I.C.T

Elite Robots

Musashi Engineering, Inc

Shanghai Turin Smart Robot Co

Key Questions Answered:

1. How big is the global Screw Locking Articulated Arm Robot market?
2. What is the demand of the global Screw Locking Articulated Arm Robot market?
3. What is the year over year growth of the global Screw Locking Articulated Arm Robot market?
4. What is the production and production value of the global Screw Locking Articulated Arm Robot market?
5. Who are the key producers in the global Screw Locking Articulated Arm Robot market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Screw Locking Articulated Arm Robot Introduction
- 1.2 World Screw Locking Articulated Arm Robot Supply & Forecast
 - 1.2.1 World Screw Locking Articulated Arm Robot Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Screw Locking Articulated Arm Robot Production (2021-2032)
 - 1.2.3 World Screw Locking Articulated Arm Robot Pricing Trends (2021-2032)
- 1.3 World Screw Locking Articulated Arm Robot Production by Region (Based on Production Site)
 - 1.3.1 World Screw Locking Articulated Arm Robot Production Value by Region (2021-2032)
 - 1.3.2 World Screw Locking Articulated Arm Robot Production by Region (2021-2032)
 - 1.3.3 World Screw Locking Articulated Arm Robot Average Price by Region (2021-2032)
 - 1.3.4 North America Screw Locking Articulated Arm Robot Production (2021-2032)
 - 1.3.5 Europe Screw Locking Articulated Arm Robot Production (2021-2032)
 - 1.3.6 China Screw Locking Articulated Arm Robot Production (2021-2032)
 - 1.3.7 Japan Screw Locking Articulated Arm Robot Production (2021-2032)
 - 1.3.8 Southeast Asia Screw Locking Articulated Arm Robot Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Screw Locking Articulated Arm Robot Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Screw Locking Articulated Arm Robot Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Screw Locking Articulated Arm Robot Demand (2021-2032)
- 2.2 World Screw Locking Articulated Arm Robot Consumption by Region
 - 2.2.1 World Screw Locking Articulated Arm Robot Consumption by Region (2021-2026)
 - 2.2.2 World Screw Locking Articulated Arm Robot Consumption Forecast by Region (2027-2032)
- 2.3 United States Screw Locking Articulated Arm Robot Consumption (2021-2032)
- 2.4 China Screw Locking Articulated Arm Robot Consumption (2021-2032)
- 2.5 Europe Screw Locking Articulated Arm Robot Consumption (2021-2032)
- 2.6 Japan Screw Locking Articulated Arm Robot Consumption (2021-2032)

- 2.7 South Korea Screw Locking Articulated Arm Robot Consumption (2021-2032)
- 2.8 ASEAN Screw Locking Articulated Arm Robot Consumption (2021-2032)
- 2.9 India Screw Locking Articulated Arm Robot Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Screw Locking Articulated Arm Robot Production Value Comparison
 - 4.1.1 United States VS China: Screw Locking Articulated Arm Robot Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Screw Locking Articulated Arm Robot Production Value

Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Screw Locking Articulated Arm Robot Production Comparison

4.2.1 United States VS China: Screw Locking Articulated Arm Robot Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Screw Locking Articulated Arm Robot Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Screw Locking Articulated Arm Robot Consumption Comparison

4.3.1 United States VS China: Screw Locking Articulated Arm Robot Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Screw Locking Articulated Arm Robot Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Screw Locking Articulated Arm Robot Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Screw Locking Articulated Arm Robot Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Screw Locking Articulated Arm Robot Production Value (2021-2026)

4.4.3 United States Based Manufacturers Screw Locking Articulated Arm Robot Production (2021-2026)

4.5 China Based Screw Locking Articulated Arm Robot Manufacturers and Market Share

4.5.1 China Based Screw Locking Articulated Arm Robot Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Screw Locking Articulated Arm Robot Production Value (2021-2026)

4.5.3 China Based Manufacturers Screw Locking Articulated Arm Robot Production (2021-2026)

4.6 Rest of World Based Screw Locking Articulated Arm Robot Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Screw Locking Articulated Arm Robot Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Screw Locking Articulated Arm Robot Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Screw Locking Articulated Arm Robot Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Screw Locking Articulated Arm Robot Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Four-Axis Articulated Robot

5.2.2 Five-Axis Articulated Robot

5.2.3 Six-Axis Articulated Robot

5.2.4 Seven-Axis Articulated Robot

5.3 Market Segment by Type

5.3.1 World Screw Locking Articulated Arm Robot Production by Type (2021-2032)

5.3.2 World Screw Locking Articulated Arm Robot Production Value by Type (2021-2032)

5.3.3 World Screw Locking Articulated Arm Robot Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PAYLOAD CAPACITY

6.1 World Screw Locking Articulated Arm Robot Market Size Overview by Payload Capacity: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Payload Capacity

6.2.1 Micro Payload (Under 3 Kg)

6.2.2 Light Payload (3–10 Kg)

6.2.3 Medium Payload (11–20 Kg)

6.2.4 Heavy Payload (Over 20 Kg)

6.3 Market Segment by Payload Capacity

6.3.1 World Screw Locking Articulated Arm Robot Production by Payload Capacity (2021-2032)

6.3.2 World Screw Locking Articulated Arm Robot Production Value by Payload Capacity (2021-2032)

6.3.3 World Screw Locking Articulated Arm Robot Average Price by Payload Capacity (2021-2032)

7 MARKET ANALYSIS BY INSTALLATION MODE

7.1 World Screw Locking Articulated Arm Robot Market Size Overview by Installation Mode: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Installation Mode

7.2.1 Bench-Top System

7.2.2 Fixed Cell System

7.2.3 In-Line Conveyor Integrated System

7.2.4 Mobile Workstation System

7.3 Market Segment by Installation Mode

7.3.1 World Screw Locking Articulated Arm Robot Production by Installation Mode (2021-2032)

7.3.2 World Screw Locking Articulated Arm Robot Production Value by Installation Mode (2021-2032)

7.3.3 World Screw Locking Articulated Arm Robot Average Price by Installation Mode (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Screw Locking Articulated Arm Robot Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Consumer Electronics

8.2.2 Home Appliance

8.2.3 Automotive

8.2.4 New Energy and Battery

8.2.5 Medical Device

8.2.6 Industrial Equipment

8.2.7 Others

8.3 Market Segment by Application

8.3.1 World Screw Locking Articulated Arm Robot Production by Application (2021-2032)

8.3.2 World Screw Locking Articulated Arm Robot Production Value by Application (2021-2032)

8.3.3 World Screw Locking Articulated Arm Robot Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Inovance Group

9.1.1 Inovance Group Details

9.1.2 Inovance Group Major Business

9.1.3 Inovance Group Screw Locking Articulated Arm Robot Product and Services

9.1.4 Inovance Group Screw Locking Articulated Arm Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Inovance Group Recent Developments/Updates

9.1.6 Inovance Group Competitive Strengths & Weaknesses

9.2 Guangdong Huayan Robotics Co

9.2.1 Guangdong Huayan Robotics Co Details

9.2.2 Guangdong Huayan Robotics Co Major Business

9.2.3 Guangdong Huayan Robotics Co Screw Locking Articulated Arm Robot Product and Services

9.2.4 Guangdong Huayan Robotics Co Screw Locking Articulated Arm Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Guangdong Huayan Robotics Co Recent Developments/Updates

9.2.6 Guangdong Huayan Robotics Co Competitive Strengths & Weaknesses

9.3 DELTA

9.3.1 DELTA Details

9.3.2 DELTA Major Business

9.3.3 DELTA Screw Locking Articulated Arm Robot Product and Services

9.3.4 DELTA Screw Locking Articulated Arm Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 DELTA Recent Developments/Updates

9.3.6 DELTA Competitive Strengths & Weaknesses

9.4 Estun

9.4.1 Estun Details

9.4.2 Estun Major Business

9.4.3 Estun Screw Locking Articulated Arm Robot Product and Services

9.4.4 Estun Screw Locking Articulated Arm Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Estun Recent Developments/Updates

9.4.6 Estun Competitive Strengths & Weaknesses

9.5 KYUSHU NITTO SEIKO CO

9.5.1 KYUSHU NITTO SEIKO CO Details

9.5.2 KYUSHU NITTO SEIKO CO Major Business

9.5.3 KYUSHU NITTO SEIKO CO Screw Locking Articulated Arm Robot Product and Services

9.5.4 KYUSHU NITTO SEIKO CO Screw Locking Articulated Arm Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 KYUSHU NITTO SEIKO CO Recent Developments/Updates

9.5.6 KYUSHU NITTO SEIKO CO Competitive Strengths & Weaknesses

9.6 SIASUN DUCO

9.6.1 SIASUN DUCO Details

9.6.2 SIASUN DUCO Major Business

9.6.3 SIASUN DUCO Screw Locking Articulated Arm Robot Product and Services

9.6.4 SIASUN DUCO Screw Locking Articulated Arm Robot Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.6.5 SIASUN DUCO Recent Developments/Updates

9.6.6 SIASUN DUCO Competitive Strengths & Weaknesses

9.7 QUICK

9.7.1 QUICK Details

9.7.2 QUICK Major Business

9.7.3 QUICK Screw Locking Articulated Arm Robot Product and Services

9.7.4 QUICK Screw Locking Articulated Arm Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 QUICK Recent Developments/Updates

9.7.6 QUICK Competitive Strengths & Weaknesses

9.8 JiangSu Teamrobot Technology Ltd

9.8.1 JiangSu Teamrobot Technology Ltd Details

9.8.2 JiangSu Teamrobot Technology Ltd Major Business

9.8.3 JiangSu Teamrobot Technology Ltd Screw Locking Articulated Arm Robot Product and Services

9.8.4 JiangSu Teamrobot Technology Ltd Screw Locking Articulated Arm Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 JiangSu Teamrobot Technology Ltd Recent Developments/Updates

9.8.6 JiangSu Teamrobot Technology Ltd Competitive Strengths & Weaknesses

9.9 AUBO (BEIJING) ROBOTICS TECHNOLOGY CO

9.9.1 AUBO (BEIJING) ROBOTICS TECHNOLOGY CO Details

9.9.2 AUBO (BEIJING) ROBOTICS TECHNOLOGY CO Major Business

9.9.3 AUBO (BEIJING) ROBOTICS TECHNOLOGY CO Screw Locking Articulated Arm Robot Product and Services

9.9.4 AUBO (BEIJING) ROBOTICS TECHNOLOGY CO Screw Locking Articulated Arm Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 AUBO (BEIJING) ROBOTICS TECHNOLOGY CO Recent Developments/Updates

9.9.6 AUBO (BEIJING) ROBOTICS TECHNOLOGY CO Competitive Strengths & Weaknesses

9.10 NITTOSEIKO CO

9.10.1 NITTOSEIKO CO Details

9.10.2 NITTOSEIKO CO Major Business

9.10.3 NITTOSEIKO CO Screw Locking Articulated Arm Robot Product and Services

9.10.4 NITTOSEIKO CO Screw Locking Articulated Arm Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 NITTOSEIKO CO Recent Developments/Updates

9.10.6 NITTOSEIKO CO Competitive Strengths & Weaknesses

9.11 I.C.T

9.11.1 I.C.T Details

9.11.2 I.C.T Major Business

9.11.3 I.C.T Screw Locking Articulated Arm Robot Product and Services

9.11.4 I.C.T Screw Locking Articulated Arm Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 I.C.T Recent Developments/Updates

9.11.6 I.C.T Competitive Strengths & Weaknesses

9.12 Elite Robots

9.12.1 Elite Robots Details

9.12.2 Elite Robots Major Business

9.12.3 Elite Robots Screw Locking Articulated Arm Robot Product and Services

9.12.4 Elite Robots Screw Locking Articulated Arm Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Elite Robots Recent Developments/Updates

9.12.6 Elite Robots Competitive Strengths & Weaknesses

9.13 Musashi Engineering, Inc

9.13.1 Musashi Engineering, Inc Details

9.13.2 Musashi Engineering, Inc Major Business

9.13.3 Musashi Engineering, Inc Screw Locking Articulated Arm Robot Product and Services

9.13.4 Musashi Engineering, Inc Screw Locking Articulated Arm Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Musashi Engineering, Inc Recent Developments/Updates

9.13.6 Musashi Engineering, Inc Competitive Strengths & Weaknesses

9.14 Shanghai Turin Smart Robot Co

9.14.1 Shanghai Turin Smart Robot Co Details

9.14.2 Shanghai Turin Smart Robot Co Major Business

9.14.3 Shanghai Turin Smart Robot Co Screw Locking Articulated Arm Robot Product and Services

9.14.4 Shanghai Turin Smart Robot Co Screw Locking Articulated Arm Robot Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Shanghai Turin Smart Robot Co Recent Developments/Updates

9.14.6 Shanghai Turin Smart Robot Co Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Screw Locking Articulated Arm Robot Industry Chain

10.2 Screw Locking Articulated Arm Robot Upstream Analysis

- 10.2.1 Screw Locking Articulated Arm Robot Core Raw Materials
- 10.2.2 Main Manufacturers of Screw Locking Articulated Arm Robot Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Screw Locking Articulated Arm Robot Production Mode
- 10.6 Screw Locking Articulated Arm Robot Procurement Model
- 10.7 Screw Locking Articulated Arm Robot Industry Sales Model and Sales Channels
 - 10.7.1 Screw Locking Articulated Arm Robot Sales Model
 - 10.7.2 Screw Locking Articulated Arm Robot Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Screw Locking Articulated Arm Robot Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Screw Locking Articulated Arm Robot Production Value by Region (2021-2026) & (USD Million)

Table 3. World Screw Locking Articulated Arm Robot Production Value by Region (2027-2032) & (USD Million)

Table 4. World Screw Locking Articulated Arm Robot Production Value Market Share by Region (2021-2026)

Table 5. World Screw Locking Articulated Arm Robot Production Value Market Share by Region (2027-2032)

Table 6. World Screw Locking Articulated Arm Robot Production by Region (2021-2026) & (K Units)

Table 7. World Screw Locking Articulated Arm Robot Production by Region (2027-2032) & (K Units)

Table 8. World Screw Locking Articulated Arm Robot Production Market Share by Region (2021-2026)

Table 9. World Screw Locking Articulated Arm Robot Production Market Share by Region (2027-2032)

Table 10. World Screw Locking Articulated Arm Robot Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Screw Locking Articulated Arm Robot Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Screw Locking Articulated Arm Robot Major Market Trends

Table 13. World Screw Locking Articulated Arm Robot Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Screw Locking Articulated Arm Robot Consumption by Region (2021-2026) & (K Units)

Table 15. World Screw Locking Articulated Arm Robot Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Screw Locking Articulated Arm Robot Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Screw Locking Articulated Arm Robot Producers in 2025

Table 18. World Screw Locking Articulated Arm Robot Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Screw Locking Articulated Arm Robot Producers in 2025

Table 20. World Screw Locking Articulated Arm Robot Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Screw Locking Articulated Arm Robot Company Evaluation Quadrant

Table 22. World Screw Locking Articulated Arm Robot Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Screw Locking Articulated Arm Robot Production Site of Key Manufacturer

Table 24. Screw Locking Articulated Arm Robot Market: Company Product Type Footprint

Table 25. Screw Locking Articulated Arm Robot Market: Company Product Application Footprint

Table 26. Screw Locking Articulated Arm Robot Competitive Factors

Table 27. Screw Locking Articulated Arm Robot New Entrant and Capacity Expansion Plans

Table 28. Screw Locking Articulated Arm Robot Mergers & Acquisitions Activity

Table 29. United States VS China Screw Locking Articulated Arm Robot Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Screw Locking Articulated Arm Robot Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Screw Locking Articulated Arm Robot Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Screw Locking Articulated Arm Robot Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Screw Locking Articulated Arm Robot Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Screw Locking Articulated Arm Robot Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Screw Locking Articulated Arm Robot Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Screw Locking Articulated Arm Robot Production Market Share (2021-2026)

Table 37. China Based Screw Locking Articulated Arm Robot Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Screw Locking Articulated Arm Robot Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Screw Locking Articulated Arm Robot Production Value Market Share (2021-2026)

- Table 40. China Based Manufacturers Screw Locking Articulated Arm Robot Production, (2021-2026) & (K Units)
- Table 41. China Based Manufacturers Screw Locking Articulated Arm Robot Production Market Share (2021-2026)
- Table 42. Rest of World Based Screw Locking Articulated Arm Robot Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers Screw Locking Articulated Arm Robot Production Value, (2021-2026) & (USD Million)
- Table 44. Rest of World Based Manufacturers Screw Locking Articulated Arm Robot Production Value Market Share (2021-2026)
- Table 45. Rest of World Based Manufacturers Screw Locking Articulated Arm Robot Production, (2021-2026) & (K Units)
- Table 46. Rest of World Based Manufacturers Screw Locking Articulated Arm Robot Production Market Share (2021-2026)
- Table 47. World Screw Locking Articulated Arm Robot Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 48. World Screw Locking Articulated Arm Robot Production by Type (2021-2026) & (K Units)
- Table 49. World Screw Locking Articulated Arm Robot Production by Type (2027-2032) & (K Units)
- Table 50. World Screw Locking Articulated Arm Robot Production Value by Type (2021-2026) & (USD Million)
- Table 51. World Screw Locking Articulated Arm Robot Production Value by Type (2027-2032) & (USD Million)
- Table 52. World Screw Locking Articulated Arm Robot Average Price by Type (2021-2026) & (US\$/Unit)
- Table 53. World Screw Locking Articulated Arm Robot Average Price by Type (2027-2032) & (US\$/Unit)
- Table 54. World Screw Locking Articulated Arm Robot Production Value by Payload Capacity, (USD Million), 2021 & 2025 & 2032
- Table 55. World Screw Locking Articulated Arm Robot Production by Payload Capacity (2021-2026) & (K Units)
- Table 56. World Screw Locking Articulated Arm Robot Production by Payload Capacity (2027-2032) & (K Units)
- Table 57. World Screw Locking Articulated Arm Robot Production Value by Payload Capacity (2021-2026) & (USD Million)
- Table 58. World Screw Locking Articulated Arm Robot Production Value by Payload Capacity (2027-2032) & (USD Million)
- Table 59. World Screw Locking Articulated Arm Robot Average Price by Payload

Capacity (2021-2026) & (US\$/Unit)

Table 60. World Screw Locking Articulated Arm Robot Average Price by Payload

Capacity (2027-2032) & (US\$/Unit)

Table 61. World Screw Locking Articulated Arm Robot Production Value by Installation Mode, (USD Million), 2021 & 2025 & 2032

Table 62. World Screw Locking Articulated Arm Robot Production by Installation Mode (2021-2026) & (K Units)

Table 63. World Screw Locking Articulated Arm Robot Production by Installation Mode (2027-2032) & (K Units)

Table 64. World Screw Locking Articulated Arm Robot Production Value by Installation Mode (2021-2026) & (USD Million)

Table 65. World Screw Locking Articulated Arm Robot Production Value by Installation Mode (2027-2032) & (USD Million)

Table 66. World Screw Locking Articulated Arm Robot Average Price by Installation Mode (2021-2026) & (US\$/Unit)

Table 67. World Screw Locking Articulated Arm Robot Average Price by Installation Mode (2027-2032) & (US\$/Unit)

Table 68. World Screw Locking Articulated Arm Robot Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Screw Locking Articulated Arm Robot Production by Application (2021-2026) & (K Units)

Table 70. World Screw Locking Articulated Arm Robot Production by Application (2027-2032) & (K Units)

Table 71. World Screw Locking Articulated Arm Robot Production Value by Application (2021-2026) & (USD Million)

Table 72. World Screw Locking Articulated Arm Robot Production Value by Application (2027-2032) & (USD Million)

Table 73. World Screw Locking Articulated Arm Robot Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Screw Locking Articulated Arm Robot Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Inovance Group Basic Information, Manufacturing Base and Competitors

Table 76. Inovance Group Major Business

Table 77. Inovance Group Screw Locking Articulated Arm Robot Product and Services

Table 78. Inovance Group Screw Locking Articulated Arm Robot Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Inovance Group Recent Developments/Updates

Table 80. Inovance Group Competitive Strengths & Weaknesses

Table 81. Guangdong Huayan Robotics Co Basic Information, Manufacturing Base and Competitors

Table 82. Guangdong Huayan Robotics Co Major Business

Table 83. Guangdong Huayan Robotics Co Screw Locking Articulated Arm Robot Product and Services

Table 84. Guangdong Huayan Robotics Co Screw Locking Articulated Arm Robot Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Guangdong Huayan Robotics Co Recent Developments/Updates

Table 86. Guangdong Huayan Robotics Co Competitive Strengths & Weaknesses

Table 87. DELTA Basic Information, Manufacturing Base and Competitors

Table 88. DELTA Major Business

Table 89. DELTA Screw Locking Articulated Arm Robot Product and Services

Table 90. DELTA Screw Locking Articulated Arm Robot Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. DELTA Recent Developments/Updates

Table 92. DELTA Competitive Strengths & Weaknesses

Table 93. Estun Basic Information, Manufacturing Base and Competitors

Table 94. Estun Major Business

Table 95. Estun Screw Locking Articulated Arm Robot Product and Services

Table 96. Estun Screw Locking Articulated Arm Robot Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Estun Recent Developments/Updates

Table 98. Estun Competitive Strengths & Weaknesses

Table 99. KYUSHU NITTO SEIKO CO Basic Information, Manufacturing Base and Competitors

Table 100. KYUSHU NITTO SEIKO CO Major Business

Table 101. KYUSHU NITTO SEIKO CO Screw Locking Articulated Arm Robot Product and Services

Table 102. KYUSHU NITTO SEIKO CO Screw Locking Articulated Arm Robot Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. KYUSHU NITTO SEIKO CO Recent Developments/Updates

Table 104. KYUSHU NITTO SEIKO CO Competitive Strengths & Weaknesses

Table 105. SIASUN DUCO Basic Information, Manufacturing Base and Competitors

Table 106. SIASUN DUCO Major Business

Table 107. SIASUN DUCO Screw Locking Articulated Arm Robot Product and Services

Table 108. SIASUN DUCO Screw Locking Articulated Arm Robot Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. SIASUN DUCO Recent Developments/Updates

Table 110. SIASUN DUCO Competitive Strengths & Weaknesses

Table 111. QUICK Basic Information, Manufacturing Base and Competitors

Table 112. QUICK Major Business

Table 113. QUICK Screw Locking Articulated Arm Robot Product and Services

Table 114. QUICK Screw Locking Articulated Arm Robot Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. QUICK Recent Developments/Updates

Table 116. QUICK Competitive Strengths & Weaknesses

Table 117. JiangSu Teamrobot Technology Ltd Basic Information, Manufacturing Base and Competitors

Table 118. JiangSu Teamrobot Technology Ltd Major Business

Table 119. JiangSu Teamrobot Technology Ltd Screw Locking Articulated Arm Robot Product and Services

Table 120. JiangSu Teamrobot Technology Ltd Screw Locking Articulated Arm Robot Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. JiangSu Teamrobot Technology Ltd Recent Developments/Updates

Table 122. JiangSu Teamrobot Technology Ltd Competitive Strengths & Weaknesses

Table 123. AUBO (BEIJING) ROBOTICS TECHNOLOGY CO Basic Information, Manufacturing Base and Competitors

Table 124. AUBO (BEIJING) ROBOTICS TECHNOLOGY CO Major Business

Table 125. AUBO (BEIJING) ROBOTICS TECHNOLOGY CO Screw Locking Articulated Arm Robot Product and Services

Table 126. AUBO (BEIJING) ROBOTICS TECHNOLOGY CO Screw Locking Articulated Arm Robot Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. AUBO (BEIJING) ROBOTICS TECHNOLOGY CO Recent Developments/Updates

Table 128. AUBO (BEIJING) ROBOTICS TECHNOLOGY CO Competitive Strengths & Weaknesses

Table 129. NITTOSEIKO CO Basic Information, Manufacturing Base and Competitors

Table 130. NITTOSEIKO CO Major Business

Table 131. NITTOSEIKO CO Screw Locking Articulated Arm Robot Product and Services

Table 132. NITTOSEIKO CO Screw Locking Articulated Arm Robot Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. NITTOSEIKO CO Recent Developments/Updates

Table 134. NITTOSEIKO CO Competitive Strengths & Weaknesses

Table 135. I.C.T Basic Information, Manufacturing Base and Competitors

Table 136. I.C.T Major Business

Table 137. I.C.T Screw Locking Articulated Arm Robot Product and Services

Table 138. I.C.T Screw Locking Articulated Arm Robot Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. I.C.T Recent Developments/Updates

Table 140. I.C.T Competitive Strengths & Weaknesses

Table 141. Elite Robots Basic Information, Manufacturing Base and Competitors

Table 142. Elite Robots Major Business

Table 143. Elite Robots Screw Locking Articulated Arm Robot Product and Services

Table 144. Elite Robots Screw Locking Articulated Arm Robot Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Elite Robots Recent Developments/Updates

Table 146. Elite Robots Competitive Strengths & Weaknesses

Table 147. Musashi Engineering, Inc Basic Information, Manufacturing Base and Competitors

Table 148. Musashi Engineering, Inc Major Business

Table 149. Musashi Engineering, Inc Screw Locking Articulated Arm Robot Product and Services

Table 150. Musashi Engineering, Inc Screw Locking Articulated Arm Robot Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Musashi Engineering, Inc Recent Developments/Updates

Table 152. Musashi Engineering, Inc Competitive Strengths & Weaknesses

Table 153. Shanghai Turin Smart Robot Co Basic Information, Manufacturing Base and Competitors

Table 154. Shanghai Turin Smart Robot Co Major Business

Table 155. Shanghai Turin Smart Robot Co Screw Locking Articulated Arm Robot Product and Services

Table 156. Shanghai Turin Smart Robot Co Screw Locking Articulated Arm Robot Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Shanghai Turin Smart Robot Co Recent Developments/Updates

Table 158. Shanghai Turin Smart Robot Co Competitive Strengths & Weaknesses

Table 159. Global Key Players of Screw Locking Articulated Arm Robot Upstream (Raw Materials)

Table 160. Global Screw Locking Articulated Arm Robot Typical Customers

Table 161. Screw Locking Articulated Arm Robot Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Screw Locking Articulated Arm Robot Picture

Figure 2. World Screw Locking Articulated Arm Robot Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Screw Locking Articulated Arm Robot Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Screw Locking Articulated Arm Robot Production (2021-2032) & (K Units)

Figure 5. World Screw Locking Articulated Arm Robot Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Screw Locking Articulated Arm Robot Production Value Market Share by Region (2021-2032)

Figure 7. World Screw Locking Articulated Arm Robot Production Market Share by Region (2021-2032)

Figure 8. North America Screw Locking Articulated Arm Robot Production (2021-2032) & (K Units)

Figure 9. Europe Screw Locking Articulated Arm Robot Production (2021-2032) & (K Units)

Figure 10. China Screw Locking Articulated Arm Robot Production (2021-2032) & (K Units)

Figure 11. Japan Screw Locking Articulated Arm Robot Production (2021-2032) & (K Units)

Figure 12. Southeast Asia Screw Locking Articulated Arm Robot Production (2021-2032) & (K Units)

Figure 13. Screw Locking Articulated Arm Robot Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Screw Locking Articulated Arm Robot Consumption (2021-2032) & (K Units)

Figure 16. World Screw Locking Articulated Arm Robot Consumption Market Share by Region (2021-2032)

Figure 17. United States Screw Locking Articulated Arm Robot Consumption (2021-2032) & (K Units)

Figure 18. China Screw Locking Articulated Arm Robot Consumption (2021-2032) & (K Units)

Figure 19. Europe Screw Locking Articulated Arm Robot Consumption (2021-2032) & (K Units)

- Figure 20. Japan Screw Locking Articulated Arm Robot Consumption (2021-2032) & (K Units)
- Figure 21. South Korea Screw Locking Articulated Arm Robot Consumption (2021-2032) & (K Units)
- Figure 22. ASEAN Screw Locking Articulated Arm Robot Consumption (2021-2032) & (K Units)
- Figure 23. India Screw Locking Articulated Arm Robot Consumption (2021-2032) & (K Units)
- Figure 24. Producer Shipments of Screw Locking Articulated Arm Robot by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 25. Global Four-firm Concentration Ratios (CR4) for Screw Locking Articulated Arm Robot Markets in 2025
- Figure 26. Global Four-firm Concentration Ratios (CR8) for Screw Locking Articulated Arm Robot Markets in 2025
- Figure 27. United States VS China: Screw Locking Articulated Arm Robot Production Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 28. United States VS China: Screw Locking Articulated Arm Robot Production Market Share Comparison (2021 & 2025 & 2032)
- Figure 29. United States VS China: Screw Locking Articulated Arm Robot Consumption Market Share Comparison (2021 & 2025 & 2032)
- Figure 30. United States Based Manufacturers Screw Locking Articulated Arm Robot Production Market Share 2025
- Figure 31. China Based Manufacturers Screw Locking Articulated Arm Robot Production Market Share 2025
- Figure 32. Rest of World Based Manufacturers Screw Locking Articulated Arm Robot Production Market Share 2025
- Figure 33. World Screw Locking Articulated Arm Robot Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 34. World Screw Locking Articulated Arm Robot Production Value Market Share by Type in 2025
- Figure 35. Four-Axis Articulated Robot
- Figure 36. Five-Axis Articulated Robot
- Figure 37. Six-Axis Articulated Robot
- Figure 38. Seven-Axis Articulated Robot
- Figure 39. World Screw Locking Articulated Arm Robot Production Market Share by Type (2021-2032)
- Figure 40. World Screw Locking Articulated Arm Robot Production Value Market Share by Type (2021-2032)
- Figure 41. World Screw Locking Articulated Arm Robot Average Price by Type

(2021-2032) & (US\$/Unit)

Figure 42. World Screw Locking Articulated Arm Robot Production Value by Payload Capacity, (USD Million), 2021 & 2025 & 2032

Figure 43. World Screw Locking Articulated Arm Robot Production Value Market Share by Payload Capacity in 2025

Figure 44. Micro Payload (Under 3 Kg)

Figure 45. Light Payload (3–10 Kg)

Figure 46. Medium Payload (11–20 Kg)

Figure 47. Heavy Payload (Over 20 Kg)

Figure 48. World Screw Locking Articulated Arm Robot Production Market Share by Payload Capacity (2021-2032)

Figure 49. World Screw Locking Articulated Arm Robot Production Value Market Share by Payload Capacity (2021-2032)

Figure 50. World Screw Locking Articulated Arm Robot Average Price by Payload Capacity (2021-2032) & (US\$/Unit)

Figure 51. World Screw Locking Articulated Arm Robot Production Value by Installation Mode, (USD Million), 2021 & 2025 & 2032

Figure 52. World Screw Locking Articulated Arm Robot Production Value Market Share by Installation Mode in 2025

Figure 53. Bench-Top System

Figure 54. Fixed Cell System

Figure 55. In-Line Conveyor Integrated System

Figure 56. Mobile Workstation System

Figure 57. World Screw Locking Articulated Arm Robot Production Market Share by Installation Mode (2021-2032)

Figure 58. World Screw Locking Articulated Arm Robot Production Value Market Share by Installation Mode (2021-2032)

Figure 59. World Screw Locking Articulated Arm Robot Average Price by Installation Mode (2021-2032) & (US\$/Unit)

Figure 60. World Screw Locking Articulated Arm Robot Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 61. World Screw Locking Articulated Arm Robot Production Value Market Share by Application in 2025

Figure 62. Consumer Electronics

Figure 63. Home Appliance

Figure 64. Automotive

Figure 65. New Energy and Battery

Figure 66. Medical Device

Figure 67. Industrial Equipment

Figure 68. Others

Figure 69. World Screw Locking Articulated Arm Robot Production Market Share by Application (2021-2032)

Figure 70. World Screw Locking Articulated Arm Robot Production Value Market Share by Application (2021-2032)

Figure 71. World Screw Locking Articulated Arm Robot Average Price by Application (2021-2032) & (US\$/Unit)

Figure 72. Screw Locking Articulated Arm Robot Industry Chain

Figure 73. Screw Locking Articulated Arm Robot Procurement Model

Figure 74. Screw Locking Articulated Arm Robot Sales Model

Figure 75. Screw Locking Articulated Arm Robot Sales Channels, Direct Sales, and Distribution

Figure 76. Methodology

Figure 77. Research Process and Data Source

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