+357 96 030922
info@marketpublishers.com

Robotic Machine Tending Systems Market Forecasts to 2034 – Global Analysis By Product (Robotic CNC Machine Tending Systems, Robotic Lathe Tending Systems, Robotic Milling Machine Tending Systems, Robotic Press Tending Systems and Robotic Injection Molding Tending Systems), Component, Robot Type, Application, End User and By Geography

https://marketpublishers.com/r/R9D02E083479EN.html
Date: September 2026
Pages: 200
Price: US$ 4,150.00 (Single User License)
ID: R9D02E083479EN

Abstracts

According to Stratistics MRC, the Global Robotic Machine Tending Systems Market is accounted for $11.5 billion in 2026 and is expected to reach $25.8 billion by 2034 growing at a CAGR of 10.6% during the forecast period. Robotic machine tending systems refer to automated solutions that use industrial robots to load and unload workpieces from machine tools such as CNC machines, lathes, mills, and presses, enabling lights-out manufacturing and reducing human intervention. These systems integrate robotic arms, end-of-arm tooling, grippers, vision systems, and controllers to handle parts with precision and consistency. They are designed to improve productivity, enhance safety, and address labor shortages in manufacturing environments.

Market Dynamics:

Driver:

Rising Labor Costs and Workforce Shortages

Escalating labor costs and persistent shortages of skilled machine operators in manufacturing industries are driving the adoption of robotic machine tending systems to automate repetitive and physically demanding tasks. The need to maintain continuous

+357 96 030922
info@marketpublishers.com

production throughput with minimal human intervention is pushing manufacturers to invest in automated solutions. The proven ability of robotic systems to improve productivity, reduce errors, and operate in lights-out environments is accelerating market growth across diverse industrial sectors.

Restraint:

High Capital Investment and Integration Complexity

The significant upfront costs associated with purchasing robotic systems, end-of-arm tooling, and integration services pose a barrier for small and medium-sized enterprises with limited capital budgets. The complexity of integrating robotic machine tending systems with existing machinery, control systems, and factory infrastructure requires specialized expertise. The need for ongoing maintenance, programming updates, and downtime during installation can also deter potential adopters and slow market penetration.

Opportunity:

Expansion of Collaborative Robotics

The growing availability of collaborative robots that can safely operate alongside human workers presents a significant opportunity to expand machine tending applications into smaller shops and flexible production lines. Collaborative robots offer easier programming, lower safety infrastructure requirements, and quicker deployment than traditional industrial robots. The development of user-friendly interfaces and plug-and-play solutions is enabling broader adoption among non-robotics experts, thereby opening new market segments.

Threat:

Competition from Alternative Automation Solutions

Intense competition from alternative automation technologies, such as dedicated transfer systems, specialized feeding equipment, and manual labor in low-cost regions, poses a threat to market growth. The rapid pace of technological change and the emergence of new robotic vendors with disruptive pricing strategies can erode market share. The risk of technological obsolescence and the potential for integration failures leading to costly downtime are ongoing concerns for potential adopters.

+357 96 030922
info@marketpublishers.com

Covid-19 Impact:

The pandemic initially disrupted supply chains for robotic components and delayed factory automation projects due to lockdowns and travel restrictions. During the mid-pandemic period, the focus on contactless operations and resilient manufacturing drove accelerated adoption of robotic machine tending. Post-pandemic, the market has sustained strong growth with increased investment in automation to address persistent labor shortages.

The robotic CNC machine tending systems segment is expected to be the largest during the forecast period

The robotic CNC machine tending systems segment is expected to account for the largest market share during the forecast period, due to the widespread use of CNC machines across diverse manufacturing industries and the critical need to maximize their utilization through automated loading and unloading operations. This segment benefits from the high volume of CNC machines installed globally and the proven ROI of automation. The continuous advancement in robot precision and speed further reinforces its dominance as the most established and widely adopted machine tending application.

The grippers segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the grippers segment is predicted to witness the highest growth rate, driven by the rapid innovation in end-of-arm tooling technologies, including adaptive, collaborative, and multi-functional grippers that can handle diverse part geometries and materials. The development of intelligent grippers with integrated force sensing and vision capabilities is expanding their application range. The increasing demand for flexible manufacturing and the need for quick changeovers are in turn accelerating the adoption of advanced gripper technologies.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, due to the strong focus on manufacturing automation, high labor costs, and the presence of major automotive and aerospace industries in the United States. The availability of advanced robotic technologies and supportive government policies

+357 96 030922
info@marketpublishers.com

further reinforce the region's market leadership.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, due to the rapid industrialization, growing adoption of automation, and expanding manufacturing base in countries like China, Japan, and India. Government initiatives to promote smart manufacturing and the rising labor costs are key drivers of market growth in this region.

Key players in the market

Some of the key players in Robotic Machine Tending Systems Market include FANUC Corporation, ABB Ltd., Yaskawa Electric Corporation, KUKA AG, Comau S.p.A., Universal Robots A/S, St?ubli International AG, Omron Corporation, Robotics Industries Association, Rockwell Automation, Inc., Siemens AG, Schneider Electric SE, Honeywell International Inc., Nachi-Fujikoshi Corporation, Denso Corporation, Kawasaki Heavy Industries, Ltd., Teradyne, Inc. and Hyundai Robotics.

Key Developments:

In Aug 2026, FANUC launched a high-speed robot for CNC machine tending, integrating vision guidance for precise part positioning, automated error correction, improved cycle times, and enhanced production accuracy.

In July 2026, Universal Robots partnered with a leading gripper manufacturer to develop collaborative machine tending solutions, supporting flexible automation, rapid deployment, and efficient small-batch manufacturing operations.

In July 2026, KUKA introduced a modular machine tending system featuring quick-change end-of-arm tooling, enabling rapid adaptation to different part types, production requirements, and high-mix manufacturing environments.

Products Covered:

Robotic CNC Machine Tending Systems

Robotic Lathe Tending Systems

+357 96 030922
info@marketpublishers.com

Robotic Milling Machine Tending Systems

Robotic Press Tending Systems

Robotic Injection Molding Tending Systems

Components Covered:

Industrial Robots

Robot Arms

End-of-Arm Tooling

Grippers

Vision Systems

Robot Controllers

Robot Types Covered:

Articulated Robots

Collaborative Robots

SCARA Robots

Cartesian Robots

Delta Robots

Applications Covered:

Loading and Unloading

+357 96 030922
info@marketpublishers.com

CNC Machine Tending

Part Handling

Material Transfer

Assembly

Inspection

End Users Covered:

Automotive

Metalworking

Aerospace and Defense

Electronics

Industrial Machinery

Medical Devices

Regions Covered:

North America
- United States
- Canada
- Mexico

Europe
- United Kingdom

+357 96 030922
info@marketpublishers.com

- Germany
- France
- Italy
- Spain
- Netherlands
- Belgium
- Sweden
- Switzerland
- Poland
- Rest of Europe

Asia Pacific
- China
- Japan
- India
- South Korea
- Australia
- Indonesia
- Thailand
- Malaysia
- Singapore

+357 96 030922
info@marketpublishers.com

- Vietnam
- Rest of Asia Pacific

South America
- Brazil
- Argentina
- Colombia
- Chile
- Peru
- Rest of South America

Rest of the World (RoW)
- Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East
- Africa

South Africa

Egypt

+357 96 030922
info@marketpublishers.com

Morocco

Rest of Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

+357 96 030922
info@marketpublishers.com

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

+357 96 030922
info@marketpublishers.com

Contents

1 EXECUTIVE SUMMARY

1.1 Market Snapshot and Key Highlights
1.2 Growth Drivers, Challenges, and Opportunities
1.3 Competitive Landscape Overview
1.4 Strategic Insights and Recommendations

2 RESEARCH FRAMEWORK

2.1 Study Objectives and Scope
2.2 Stakeholder Analysis
2.3 Research Assumptions and Limitations
2.4 Research Methodology
  2.4.1 Data Collection (Primary and Secondary)
  2.4.2 Data Modeling and Estimation Techniques
  2.4.3 Data Validation and Triangulation
  2.4.4 Analytical and Forecasting Approach

3 MARKET DYNAMICS AND TREND ANALYSIS

3.1 Market Definition and Structure
3.2 Key Market Drivers
3.3 Market Restraints and Challenges
3.4 Growth Opportunities and Investment Hotspots
3.5 Industry Threats and Risk Assessment
3.6 Technology and Innovation Landscape
3.7 Emerging and High-Growth Markets
3.8 Regulatory and Policy Environment
3.9 Impact of COVID-19 and Recovery Outlook

4 COMPETITIVE AND STRATEGIC ASSESSMENT

4.1 Porter's Five Forces Analysis
  4.1.1 Supplier Bargaining Power
  4.1.2 Buyer Bargaining Power
  4.1.3 Threat of Substitutes
  4.1.4 Threat of New Entrants

+357 96 030922
info@marketpublishers.com

4.1.5 Competitive Rivalry
4.2 Market Share Analysis of Key Players
4.3 Product Benchmarking and Performance Comparison

5 GLOBAL ROBOTIC MACHINE TENDING SYSTEMS MARKET, BY PRODUCT

5.1 Robotic CNC Machine Tending Systems
5.2 Robotic Lathe Tending Systems
5.3 Robotic Milling Machine Tending Systems
5.4 Robotic Press Tending Systems
5.5 Robotic Injection Molding Tending Systems

6 GLOBAL ROBOTIC MACHINE TENDING SYSTEMS MARKET, BY COMPONENT

6.1 Industrial Robots
6.2 Robot Arms
6.3 End-of-Arm Tooling
6.4 Grippers
6.5 Vision Systems
6.6 Robot Controllers

7 GLOBAL ROBOTIC MACHINE TENDING SYSTEMS MARKET, BY ROBOT TYPE

7.1 Articulated Robots
7.2 Collaborative Robots
7.3 SCARA Robots
7.4 Cartesian Robots
7.5 Delta Robots

8 GLOBAL ROBOTIC MACHINE TENDING SYSTEMS MARKET, BY APPLICATION

8.1 Loading and Unloading
8.2 CNC Machine Tending
8.3 Part Handling
8.4 Material Transfer
8.5 Assembly
8.6 Inspection

9 GLOBAL ROBOTIC MACHINE TENDING SYSTEMS MARKET, BY END USER

+357 96 030922
info@marketpublishers.com

9.1 Automotive
9.2 Metalworking
9.3 Aerospace and Defense
9.4 Electronics
9.5 Industrial Machinery
9.6 Medical Devices

10 GLOBAL ROBOTIC MACHINE TENDING SYSTEMS MARKET, BY GEOGRAPHY

10.1 North America
  10.1.1 United States
  10.1.2 Canada
  10.1.3 Mexico
10.2 Europe
  10.2.1 United Kingdom
  10.2.2 Germany
  10.2.3 France
  10.2.4 Italy
  10.2.5 Spain
  10.2.6 Netherlands
  10.2.7 Belgium
  10.2.8 Sweden
  10.2.9 Switzerland
  10.2.10 Poland
  10.2.11 Rest of Europe
10.3 Asia Pacific
  10.3.1 China
  10.3.2 Japan
  10.3.3 India
  10.3.4 South Korea
  10.3.5 Australia
  10.3.6 Indonesia
  10.3.7 Thailand
  10.3.8 Malaysia
  10.3.9 Singapore
  10.3.10 Vietnam
  10.3.11 Rest of Asia Pacific
10.4 South America

+357 96 030922
info@marketpublishers.com

10.4.1 Brazil
10.4.2 Argentina
10.4.3 Colombia
10.4.4 Chile
10.4.5 Peru
10.4.6 Rest of South America
10.5 Rest of the World (RoW)
10.5.1 Middle East
10.5.1.1 Saudi Arabia
10.5.1.2 United Arab Emirates
10.5.1.3 Qatar
10.5.1.4 Israel
10.5.1.5 Rest of Middle East
10.5.2 Africa
10.5.2.1 South Africa
10.5.2.2 Egypt
10.5.2.3 Morocco
10.5.2.4 Rest of Africa

11 STRATEGIC MARKET INTELLIGENCE

11.1 Industry Value Network and Supply Chain Assessment
11.2 White-Space and Opportunity Mapping
11.3 Product Evolution and Market Life Cycle Analysis
11.4 Channel, Distributor, and Go-to-Market Assessment

12 INDUSTRY DEVELOPMENTS AND STRATEGIC INITIATIVES

12.1 Mergers and Acquisitions
12.2 Partnerships, Alliances, and Joint Ventures
12.3 New Product Launches and Certifications
12.4 Capacity Expansion and Investments
12.5 Other Strategic Initiatives

13 COMPANY PROFILES

13.1 FANUC Corporation
13.2 ABB Ltd.
13.3 Yaskawa Electric Corporation

+357 96 030922
info@marketpublishers.com

13.4 KUKA AG
13.5 Comau S.p.A.
13.6 Universal Robots A/S
13.7 St?ubli International AG
13.8 Omron Corporation
13.9 Robotics Industries Association
13.10 Rockwell Automation, Inc.
13.11 Siemens AG
13.12 Schneider Electric SE
13.13 Honeywell International Inc.
13.14 Nachi-Fujikoshi Corporation
13.15 Denso Corporation
13.16 Kawasaki Heavy Industries, Ltd.
13.17 Teradyne, Inc.
13.18 Hyundai Robotics

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1 Global Robotic Machine Tending Systems Market Outlook, By Region (2023-2034) ($MN)
Table 2 Global Robotic Machine Tending Systems Market Outlook, By Product (2023-2034) ($MN)
Table 3 Global Robotic Machine Tending Systems Market Outlook, By Robotic CNC Machine Tending Systems (2023-2034) ($MN)
Table 4 Global Robotic Machine Tending Systems Market Outlook, By Robotic Lathe Tending Systems (2023-2034) ($MN)
Table 5 Global Robotic Machine Tending Systems Market Outlook, By Robotic Milling Machine Tending Systems (2023-2034) ($MN)
Table 6 Global Robotic Machine Tending Systems Market Outlook, By Robotic Press Tending Systems (2023-2034) ($MN)
Table 7 Global Robotic Machine Tending Systems Market Outlook, By Robotic Injection Molding Tending Systems (2023-2034) ($MN)
Table 8 Global Robotic Machine Tending Systems Market Outlook, By Component (2023-2034) ($MN)
Table 9 Global Robotic Machine Tending Systems Market Outlook, By Industrial Robots (2023-2034) ($MN)
Table 10 Global Robotic Machine Tending Systems Market Outlook, By Robot Arms (2023-2034) ($MN)
Table 11 Global Robotic Machine Tending Systems Market Outlook, By End-of-Arm Tooling (2023-2034) ($MN)
Table 12 Global Robotic Machine Tending Systems Market Outlook, By Grippers (2023-2034) ($MN)
Table 13 Global Robotic Machine Tending Systems Market Outlook, By Vision Systems (2023-2034) ($MN)
Table 14 Global Robotic Machine Tending Systems Market Outlook, By Robot Controllers (2023-2034) ($MN)
Table 15 Global Robotic Machine Tending Systems Market Outlook, By Robot Type (2023-2034) ($MN)
Table 16 Global Robotic Machine Tending Systems Market Outlook, By Articulated Robots (2023-2034) ($MN)
Table 17 Global Robotic Machine Tending Systems Market Outlook, By Collaborative Robots (2023-2034) ($MN)
Table 18 Global Robotic Machine Tending Systems Market Outlook, By SCARA Robots

+357 96 030922
info@marketpublishers.com

(2023-2034) ($MN)
Table 19 Global Robotic Machine Tending Systems Market Outlook, By Cartesian Robots (2023-2034) ($MN)
Table 20 Global Robotic Machine Tending Systems Market Outlook, By Delta Robots (2023-2034) ($MN)
Table 21 Global Robotic Machine Tending Systems Market Outlook, By Application (2023-2034) ($MN)
Table 22 Global Robotic Machine Tending Systems Market Outlook, By Loading and Unloading (2023-2034) ($MN)
Table 23 Global Robotic Machine Tending Systems Market Outlook, By CNC Machine Tending (2023-2034) ($MN)
Table 24 Global Robotic Machine Tending Systems Market Outlook, By Part Handling (2023-2034) ($MN)
Table 25 Global Robotic Machine Tending Systems Market Outlook, By Material Transfer (2023-2034) ($MN)
Table 26 Global Robotic Machine Tending Systems Market Outlook, By Assembly (2023-2034) ($MN)
Table 27 Global Robotic Machine Tending Systems Market Outlook, By Inspection (2023-2034) ($MN)
Table 28 Global Robotic Machine Tending Systems Market Outlook, By End User (2023-2034) ($MN)
Table 29 Global Robotic Machine Tending Systems Market Outlook, By Automotive (2023-2034) ($MN)
Table 30 Global Robotic Machine Tending Systems Market Outlook, By Metalworking (2023-2034) ($MN)
Table 31 Global Robotic Machine Tending Systems Market Outlook, By Aerospace and Defense (2023-2034) ($MN)
Table 32 Global Robotic Machine Tending Systems Market Outlook, By Electronics (2023-2034) ($MN)
Table 33 Global Robotic Machine Tending Systems Market Outlook, By Industrial Machinery (2023-2034) ($MN)
Table 34 Global Robotic Machine Tending Systems Market Outlook, By Medical Devices (2023-2034) ($MN)
Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) Regions are also represented in the same manner as above.

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Robotic Machine Tending Systems Market Forecasts to 2034 – Global Analysis By Product (Robotic CNC Machine Tending Systems, Robotic Lathe Tending Systems, Robotic Milling Machine Tending Systems, Robotic Press Tending Systems and Robotic Injection Molding Tending Systems), Component, Robot Type, Application, End User and By Geography

Product link: https://marketpublishers.com/r/R9D02E083479EN.html

Price: US$ 4,150.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/R9D02E083479EN.html