

Robotics Sanding And Polishing Market By Technology (Surface Polishing, Edge Polishing, Precision Polishing) , By Distribution Channel (Online Sales, Direct sales, Independent distributors) By Application (Automotive, Electronics, Hardware & Tool, Household Products, Aerospace, Medical Devices) : Global Opportunity Analysis and Industry Forecast, 2024-2032

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Abstracts

The global robotics sanding and polishing market was valued at \$240.5 million in 2023, and is projected to reach \$750.0 million by 2032, growing at a CAGR of 13.5% from 2024 to 2032.

Robotics sanding and polishing is the automated process of refining surfaces using robotic systems. Its key components include a robotic arm that manipulates sanding or polishing tools with precision, an end effector that attaches to the arm and holds sanding or polishing pads, sensors that detect surface variations to ensure consistent results, a control system that coordinates arm movement and tool pressure, sanding or polishing tools such as abrasive pads or polishing compounds, workpiece fixturing to hold the object in place during the process, and safety systems to prevent collisions and ensure worker safety. These components work together to optimize efficiency, consistency, and quality in sanding and polishing tasks.

The growth of the global robotics sanding and polishing market is experiencing significant growth driven by factors such as rise in demand for automation in manufacturing industries to enhance efficiency and consistency. Moreover, rise in

the focus on sustainable manufacturing practices and the need for improved workplace safety are expected to drive the adoption of robotics sanding and polishing systems. The market is poised for growth as industries increasingly recognize the benefits of automation in enhancing productivity, quality, and safety standards.

However, high initial investment costs and the need for skilled personnel for operation hinder the market expansion. Challenges include adapting robotic systems to various surface types and complexities and integrating them seamlessly into existing production lines. On the other hand, advancements in robotic technology, including artificial intelligence and machine learning, enabling robots to adapt to different surfaces and tasks effectively, presenting lucrative opportunities for the market to grow. For instance, in April 2023, Kane Robotics today announced the launch of its collaborative robot (cobot) solution, the GRITTM cobot. Developed by aeronautics and composite experts, GRIT dramatically improves productivity, reduces health risks and solves labor shortages for aerospace maintenance, repair and overhaul (MRO) companies.

Segmentation Overview

The robotics sanding and polishing market is segmented by technology, distribution channel, application, and region. Depending on technology, the market is divided into surface polishing, edge polishing, and precision polishing. As per distribution channel, it is segregated into online sales, direct sales, and independent distributors. According to the application, the market is fragmented into automotive, electronics, hardware & tool, household products, aerospace, and medical devices. Region wise, it is analyzed across North America, Europe, Asia-Pacific, Latin America, Middle East and Africa.

Key Findings

By technology, the surface polishing segment held the highest share in the market in 2023.

Depending on distribution channel, the direct sales segment accounted for the largest share in the market in 2023.

According to the application, the automotive segment gained the maximum market share in 2023.

Region wise, Asia-Pacific dominated the robotics sanding and polishing market in 2023.

Competitive Analysis

The major players operating in the robotics sanding and polishing market include ABB Group, KUKA AG, FANUC Corporation, Yaskawa Electric Corporation, Kawasaki Heavy Industries, Ltd., Comau S.p.A. (Subsidiary of Stellantis N.V.), Epson Robots (Seiki-Epson Corporation), Stäubli International AG, Omron Corporation, and Mitsubishi Electric Corporation. Other players in the robotics sanding and polishing market include Universal Robots A/S (Subsidiary of Teradyne, Inc.), Nachi-Fujikoshi Corp., DENSO Corporation, and CMA Robotics S.p.A. These players are adopting several strategies, including product development & innovation, mergers & acquisitions, to maintain their foothold in the market.

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Analysis of raw material in a product (by %)

Investment Opportunities

New Product Development/ Product Matrix of Key Players

Strategic Recommendations

Additional company profiles with specific client's interest

Expanded list for Company Profiles

Historic market data

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

Market share analysis of players at global/region/country level

SWOT Analysis

Key Market Segments

By Technology

Surface Polishing

Edge Polishing

Precision Polishing

By Distribution Channel

Online Sales

Direct sales

Independent distributors

By Application

Automotive

Electronics

Hardware Tool

Household Products

Aerospace

Medical Devices

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Italy

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

Latin America

Brazil

Argentina

Chile

Rest of Latin America

Middle East and Africa

Saudi Arab

UAE

Nigeria

South Africa

Rest Of Middle East and Africa

Key Market Players

ABB Group

KUKA AG

FANUC Corporation

Yaskawa Electric Corporation

Kawasaki Heavy Industries, Ltd.

Epson Robots

Staubli International AG

Omron Corporation.

Mitsubishi Electric Corporation

Comau S.p.A.

Contents

CHAPTER 1: INTRODUCTION

- 1.1. Report Description
- 1.2. Key Market Segments
- 1.3. Key Benefits
- 1.4. Research Methodology
 - 1.4.1. Primary Research
 - 1.4.2. Secondary Research
 - 1.4.3. Analyst Tools and Models

CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. CXO Perspective

CHAPTER 3: MARKET LANDSCAPE

- 3.1. Market Definition and Scope
- 3.2. Key Findings
 - 3.2.1. Top Investment Pockets
 - 3.2.2. Top Winning Strategies
- 3.3. Porter's Five Forces Analysis
 - 3.3.1. Bargaining Power of Suppliers
 - 3.3.2. Threat of New Entrants
 - 3.3.3. Threat of Substitutes
 - 3.3.4. Competitive Rivalry
 - 3.3.5. Bargaining Power among Buyers
- 3.4. Market Dynamics
 - 3.4.1. Drivers
 - 3.4.2. Restraints
 - 3.4.3. Opportunities

CHAPTER 4: ADVOCACY SOFTWARE MARKET, BY TYPE

- 4.1. Market Overview
 - 4.1.1 Market Size and Forecast, By Type
- 4.2. On-premise
 - 4.2.1. Key Market Trends, Growth Factors and Opportunities

- 4.2.2. Market Size and Forecast, By Region
- 4.2.3. Market Share Analysis, By Country
- 4.3. Cloud-based
 - 4.3.1. Key Market Trends, Growth Factors and Opportunities
 - 4.3.2. Market Size and Forecast, By Region
 - 4.3.3. Market Share Analysis, By Country

CHAPTER 5: ADVOCACY SOFTWARE MARKET, BY APPLICATION

- 5.1. Market Overview
 - 5.1.1 Market Size and Forecast, By Application
- 5.2. Large Enterprise
 - 5.2.1. Key Market Trends, Growth Factors and Opportunities
 - 5.2.2. Market Size and Forecast, By Region
 - 5.2.3. Market Share Analysis, By Country
- 5.3. Small And Medium-sized Enterprise
 - 5.3.1. Key Market Trends, Growth Factors and Opportunities
 - 5.3.2. Market Size and Forecast, By Region
 - 5.3.3. Market Share Analysis, By Country
- 5.4. Tax Association
 - 5.4.1. Key Market Trends, Growth Factors and Opportunities
 - 5.4.2. Market Size and Forecast, By Region
 - 5.4.3. Market Share Analysis, By Country
- 5.5. Non-profit
 - 5.5.1. Key Market Trends, Growth Factors and Opportunities
 - 5.5.2. Market Size and Forecast, By Region
 - 5.5.3. Market Share Analysis, By Country

CHAPTER 6: ADVOCACY SOFTWARE MARKET, BY REGION

- 6.1. Market Overview
 - 6.1.1 Market Size and Forecast, By Region
- 6.2. North America
 - 6.2.1. Key Market Trends and Opportunities
 - 6.2.2. Market Size and Forecast, By Type
 - 6.2.3. Market Size and Forecast, By Application
 - 6.2.4. Market Size and Forecast, By Country
 - 6.2.5. U.S. Advocacy Software Market
 - 6.2.5.1. Market Size and Forecast, By Type

- 6.2.5.2. Market Size and Forecast, By Application
- 6.2.6. Canada Advocacy Software Market
 - 6.2.6.1. Market Size and Forecast, By Type
 - 6.2.6.2. Market Size and Forecast, By Application
- 6.3. Europe
 - 6.3.1. Key Market Trends and Opportunities
 - 6.3.2. Market Size and Forecast, By Type
 - 6.3.3. Market Size and Forecast, By Application
 - 6.3.4. Market Size and Forecast, By Country
 - 6.3.5. UK Advocacy Software Market
 - 6.3.5.1. Market Size and Forecast, By Type
 - 6.3.5.2. Market Size and Forecast, By Application
 - 6.3.6. Germany Advocacy Software Market
 - 6.3.6.1. Market Size and Forecast, By Type
 - 6.3.6.2. Market Size and Forecast, By Application
 - 6.3.7. France Advocacy Software Market
 - 6.3.7.1. Market Size and Forecast, By Type
 - 6.3.7.2. Market Size and Forecast, By Application
 - 6.3.8. Italy Advocacy Software Market
 - 6.3.8.1. Market Size and Forecast, By Type
 - 6.3.8.2. Market Size and Forecast, By Application
 - 6.3.9. Spain Advocacy Software Market
 - 6.3.9.1. Market Size and Forecast, By Type
 - 6.3.9.2. Market Size and Forecast, By Application
 - 6.3.10. Rest of Europe Advocacy Software Market
 - 6.3.10.1. Market Size and Forecast, By Type
 - 6.3.10.2. Market Size and Forecast, By Application
- 6.4. Asia-Pacific
 - 6.4.1. Key Market Trends and Opportunities
 - 6.4.2. Market Size and Forecast, By Type
 - 6.4.3. Market Size and Forecast, By Application
 - 6.4.4. Market Size and Forecast, By Country
 - 6.4.5. China Advocacy Software Market
 - 6.4.5.1. Market Size and Forecast, By Type
 - 6.4.5.2. Market Size and Forecast, By Application
 - 6.4.6. Japan Advocacy Software Market
 - 6.4.6.1. Market Size and Forecast, By Type
 - 6.4.6.2. Market Size and Forecast, By Application
 - 6.4.7. India Advocacy Software Market

- 6.4.7.1. Market Size and Forecast, By Type
- 6.4.7.2. Market Size and Forecast, By Application
- 6.4.8. South Korea Advocacy Software Market
 - 6.4.8.1. Market Size and Forecast, By Type
 - 6.4.8.2. Market Size and Forecast, By Application
- 6.4.9. Australia Advocacy Software Market
 - 6.4.9.1. Market Size and Forecast, By Type
 - 6.4.9.2. Market Size and Forecast, By Application
- 6.4.10. Rest of Asia-Pacific Advocacy Software Market
 - 6.4.10.1. Market Size and Forecast, By Type
 - 6.4.10.2. Market Size and Forecast, By Application
- 6.5. Latin America
 - 6.5.1. Key Market Trends and Opportunities
 - 6.5.2. Market Size and Forecast, By Type
 - 6.5.3. Market Size and Forecast, By Application
 - 6.5.4. Market Size and Forecast, By Country
 - 6.5.5. Brazil Advocacy Software Market
 - 6.5.5.1. Market Size and Forecast, By Type
 - 6.5.5.2. Market Size and Forecast, By Application
 - 6.5.6. Argentina Advocacy Software Market
 - 6.5.6.1. Market Size and Forecast, By Type
 - 6.5.6.2. Market Size and Forecast, By Application
 - 6.5.7. Mexico Advocacy Software Market
 - 6.5.7.1. Market Size and Forecast, By Type
 - 6.5.7.2. Market Size and Forecast, By Application
 - 6.5.8. REST of Latin America Advocacy Software Market
 - 6.5.8.1. Market Size and Forecast, By Type
 - 6.5.8.2. Market Size and Forecast, By Application
- 6.6. Middle East And Africa
 - 6.6.1. Key Market Trends and Opportunities
 - 6.6.2. Market Size and Forecast, By Type
 - 6.6.3. Market Size and Forecast, By Application
 - 6.6.4. Market Size and Forecast, By Country
 - 6.6.5. GCC Countries Advocacy Software Market
 - 6.6.5.1. Market Size and Forecast, By Type
 - 6.6.5.2. Market Size and Forecast, By Application
 - 6.6.6. South Africa Advocacy Software Market
 - 6.6.6.1. Market Size and Forecast, By Type
 - 6.6.6.2. Market Size and Forecast, By Application

- 6.6.7. Rest of Middle East And Africa Advocacy Software Market
 - 6.6.7.1. Market Size and Forecast, By Type
 - 6.6.7.2. Market Size and Forecast, By Application

CHAPTER 7: COMPETITIVE LANDSCAPE

- 7.1. Introduction
- 7.2. Top Winning Strategies
- 7.3. Product Mapping of Top 10 Player
- 7.4. Competitive Dashboard
- 7.5. Competitive Heatmap
- 7.6. Top Player Positioning, 2023

CHAPTER 8: COMPANY PROFILES

- 8.1. One Click Politics
 - 8.1.1. Company Overview
 - 8.1.2. Key Executives
 - 8.1.3. Company Snapshot
 - 8.1.4. Operating Business Segments
 - 8.1.5. Product Portfolio
 - 8.1.6. Business Performance
 - 8.1.7. Key Strategic Moves and Developments
- 8.2. The Soft Edge, Inc
 - 8.2.1. Company Overview
 - 8.2.2. Key Executives
 - 8.2.3. Company Snapshot
 - 8.2.4. Operating Business Segments
 - 8.2.5. Product Portfolio
 - 8.2.6. Business Performance
 - 8.2.7. Key Strategic Moves and Developments
- 8.3. FiscalNote, Inc.
 - 8.3.1. Company Overview
 - 8.3.2. Key Executives
 - 8.3.3. Company Snapshot
 - 8.3.4. Operating Business Segments
 - 8.3.5. Product Portfolio
 - 8.3.6. Business Performance
 - 8.3.7. Key Strategic Moves and Developments

- 8.4. Capitol Impact, LLC
 - 8.4.1. Company Overview
 - 8.4.2. Key Executives
 - 8.4.3. Company Snapshot
 - 8.4.4. Operating Business Segments
 - 8.4.5. Product Portfolio
 - 8.4.6. Business Performance
 - 8.4.7. Key Strategic Moves and Developments
- 8.5. Blackbaud, Inc.
 - 8.5.1. Company Overview
 - 8.5.2. Key Executives
 - 8.5.3. Company Snapshot
 - 8.5.4. Operating Business Segments
 - 8.5.5. Product Portfolio
 - 8.5.6. Business Performance
 - 8.5.7. Key Strategic Moves and Developments
- 8.6. Social Annex, Inc.
 - 8.6.1. Company Overview
 - 8.6.2. Key Executives
 - 8.6.3. Company Snapshot
 - 8.6.4. Operating Business Segments
 - 8.6.5. Product Portfolio
 - 8.6.6. Business Performance
 - 8.6.7. Key Strategic Moves and Developments
- 8.7. RAP INDEX
 - 8.7.1. Company Overview
 - 8.7.2. Key Executives
 - 8.7.3. Company Snapshot
 - 8.7.4. Operating Business Segments
 - 8.7.5. Product Portfolio
 - 8.7.6. Business Performance
 - 8.7.7. Key Strategic Moves and Developments
- 8.8. PostBeyond Inc.
 - 8.8.1. Company Overview
 - 8.8.2. Key Executives
 - 8.8.3. Company Snapshot
 - 8.8.4. Operating Business Segments
 - 8.8.5. Product Portfolio
 - 8.8.6. Business Performance

8.8.7. Key Strategic Moves and Developments

8.9. Inluitive Corporation

8.9.1. Company Overview

8.9.2. Key Executives

8.9.3. Company Snapshot

8.9.4. Operating Business Segments

8.9.5. Product Portfolio

8.9.6. Business Performance

8.9.7. Key Strategic Moves and Developments

8.10. SparkInfluence

8.10.1. Company Overview

8.10.2. Key Executives

8.10.3. Company Snapshot

8.10.4. Operating Business Segments

8.10.5. Product Portfolio

8.10.6. Business Performance

8.10.7. Key Strategic Moves and Developments

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