

Global Robotic Abrasive Belt Grinding Machine Market Growth 2026-2032

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Abstracts

The global Robotic Abrasive Belt Grinding Machine market size is predicted to grow from US\$ 146 million in 2025 to US\$ 264 million in 2032; it is expected to grow at a CAGR of 8.8% from 2026 to 2032.

A Robotic Abrasive Belt Grinding Machine is an automated material-removal and surface-finishing system that uses a continuous coated-abrasive belt as the primary grinding medium while an industrial robot or robotized multi-axis mechanism controls the relative motion between the abrasive tool and the workpiece. Typical configurations combine an industrial robot with a stationary belt-grinding backstand or robot-mounted belt-grinding end effector, contact wheels, abrasive-belt tensioning and tracking mechanisms, force or compliance control, PLC/HMI controls, safety guarding and dust extraction. More advanced systems integrate automatic belt changing, abrasive wear monitoring and compensation, force/torque sensing, dimensional measurement, 3D vision or laser scanning, automatic loading and unloading, and offline robot programming. The market primarily covers part-to-tool configurations, in which a robot presents a workpiece to fixed grinding stations, and tool-to-part configurations, in which a robot carries the belt-grinding tool over a fixtured component. These machines are used for stock removal, weld blending, deburring, edge grinding, surface finishing and pre-polishing of castings, forgings, automotive parts, aerospace and energy components, hardware, tools and medical implants.

Key Findings

In 2025, global Robotic Abrasive Belt Grinding Machine production reached approximately 4,675 Units. The average price is approximately \$32,000

Europe hosts the densest cluster of specialized robotic abrasive belt grinding OEMs and multi-station cell suppliers

China is developing a broader domestic supply base for force-controlled belt grinders and integrated robotic finishing cells

Complete turnkey cells and dedicated force-controlled belt grinding modules coexist within a fragmented multi-tier supply structure

Foundry automotive aerospace hardware tools and medical components form the principal commercial application base

Market Trends

The Robotic Abrasive Belt Grinding Machine industry is moving from basic robotized replacement of manual grinding toward closed-loop process control and increasingly autonomous abrasive management. Product differentiation is shifting toward active and passive compliance, programmable contact force, abrasive wear compensation, automatic belt replacement, process measurement and simpler robot programming. Acme has commercialized robotic cells with programmable belt pressure and automatic media-wear compensation, while FerRobotics applies active force control to maintain stable contact pressure during demanding surface-finishing operations. Suhner has developed robot-mounted belt-grinding heads that combine automatic belt replacement with belt-status monitoring, and FUJIYA TECH has introduced dedicated robotic belt grinders together with automatic belt-changing units. These developments indicate that suppliers are increasingly treating the abrasive belt, force-control unit, robot and software as an integrated process platform rather than independent components. Another important direction is reducing the engineering burden for high-mix and lower-volume production through offline programming, dimensional scanning and easier changeover, allowing robotic belt grinding to address applications that previously depended heavily on skilled manual operators.

Market Dynamics

Drivers

Demand for Robotic Abrasive Belt Grinding Machine systems is principally driven by the need to improve finishing consistency, reduce dependence on experienced manual grinders and lower worker exposure to dust, vibration and repetitive high-force

operations. Belt grinding is especially difficult to automate with conventional rigid equipment because abrasive wear, geometric variation and changing contact conditions directly affect material removal and surface quality, increasing the value of force-controlled robotic solutions. The expanding global industrial-robot ecosystem also lowers implementation barriers by increasing the availability of robot hardware, programming expertise, safety systems and automation engineering resources. The International Federation of Robotics reported 542,000 industrial robot installations worldwide in 2024, with Asia accounting for 74% of new deployments, providing a broad automation foundation for specialized processes such as robotic grinding. Applications where consistency, traceability and labor availability are particularly important, including medical implants, aerospace components and precision castings, provide additional demand support.

Restraints

The principal restraint is the relatively high engineering content required to convert a manual grinding process into a repeatable automated cycle. Robot trajectory alone cannot determine finishing quality; abrasive grade, belt speed, contact-wheel hardness, contact pressure, part tolerances, abrasive wear and fixture accuracy must be coordinated. This creates higher commissioning costs and longer process-development cycles than for simpler robotic handling applications. High-mix production can also weaken the return on investment when each new component requires extensive programming or process trials. Abrasive belts remain consumable process elements whose cutting characteristics change throughout their service life, while casting and forging dimensional variation can cause unstable material removal unless the machine uses appropriate force control, sensing or measurement. These factors restrict adoption among small manufacturers with limited automation engineering capabilities and make application knowledge a significant barrier to entry for equipment suppliers. The growing use of automatic wear compensation, scanning and simplified programming is reducing these constraints, but it has not eliminated the underlying process complexity.

Opportunities

The strongest opportunities lie in automating finishing processes that remain labor-intensive because component geometry, product mix or quality requirements are poorly suited to conventional dedicated grinding machinery. Aerospace maintenance and repair, orthopedic implants, complex castings, forged components, weld finishing and high-value precision metal parts are particularly attractive because the economic cost of inconsistent manual processing can be high. Acme has demonstrated automated belt

grinding in high-mix aerospace MRO applications using automated tool-path generation and abrasive-life management, while FerRobotics has applied active belt grinding to orthopedic implant finishing. A second opportunity is the productization of modular robotic grinding equipment. Automatic belt magazines, robot-mountable belt heads, force-control modules and standardized enclosed cells allow system builders and end users to assemble solutions with less custom engineering. Chinese suppliers are also expanding from individual force sensors and robot integration toward proprietary force-controlled belt grinders, automatic abrasive-changing systems and complete finishing workstations, opening opportunities in cost-sensitive manufacturing markets and local replacement of imported equipment.

Challenges

The long-term challenge is achieving predictable material removal across changing abrasive conditions and increasingly diverse workpieces without excessive manual process tuning. Unlike many robotic handling operations, abrasive belt grinding involves continuous interaction between a deformable abrasive medium and a workpiece whose geometry and surface condition may vary from part to part. Suppliers therefore need capabilities spanning mechanical engineering, robot programming, force control, grinding-process knowledge and application validation. Competition from alternative finishing technologies also remains relevant: grinding wheels, abrasive discs, orbital sanding, milling, brushing and dedicated CNC finishing equipment may provide better economics for particular geometries or production volumes. At the same time, the industry remains fragmented, and a significant proportion of projects are customized, limiting economies of scale and making service capability important. Suppliers must balance increasingly sophisticated sensing and automation features against total system cost, ease of maintenance and operator usability if robotic belt grinding is to expand beyond large manufacturers and specialist high-value production environments.

Industry Chain Analysis

The upstream industry chain consists of industrial robots and controllers, servo drives and motors, coated-abrasive belts, contact wheels and rollers, force/torque sensors, pneumatic and electric compliance mechanisms, machine frames, fixtures, PLCs, safety components, vision and laser-measurement hardware, dust-extraction systems and automation software. Abrasive belts are recurring consumables, while robot hardware, force-control equipment, grinding stations and safety systems represent the major equipment-value components. Belt tracking, tensioning, contact-wheel design and force-control accuracy have a direct effect on process stability, meaning upstream component

selection influences both initial machine cost and lifetime operating economics. Modern products increasingly combine mechanical equipment with abrasive-management and process-control software; for example, automatic belt changers, belt-status monitoring, programmable pressure and wear compensation are becoming part of the equipment architecture.

The midstream consists of specialist Robotic Abrasive Belt Grinding Machine OEMs, robotic finishing equipment manufacturers and specialized module providers that integrate mechanical grinding units, robots, controls, sensing, tooling and software into production-ready systems. Value creation is concentrated in process development, force-control performance, tooling design, trajectory programming, abrasive-life management and application engineering rather than in robot hardware alone. Downstream customers include foundries, forging plants, automotive suppliers, aerospace and energy manufacturers, hardware and sanitary-fitting producers, tool makers, medical-device manufacturers and general metal-processing companies. After-sales service, process re-optimization, abrasive selection, spare parts and software support can remain important throughout the equipment life cycle because production quality depends on maintaining stable grinding parameters.

Segment Insights

From a product-architecture perspective, the market is divided primarily between part-to-tool systems and tool-to-part systems. Part-to-tool configurations use a robot to manipulate the workpiece against stationary abrasive-belt stations and are particularly suitable for small and medium components that require several sequential grinding or polishing operations. Berger's robotic cells demonstrate multi-station architectures incorporating multiple belt-grinding stations, measuring equipment and other finishing processes. Tool-to-part systems use a robot-mounted belt grinder and are better suited to larger components, fixed workpieces, localized weld removal and applications requiring access to complex surfaces. The two architectures are complementary rather than direct substitutes, and some suppliers support both configurations.

In terms of technology, force-controlled systems and automated abrasive-management configurations represent the higher-value direction of product development. Active force control is particularly important where geometry varies or surface-finish consistency is critical, while automatic belt replacement and wear compensation increase unattended operating time. Integrated multi-station cells generally carry higher system value because they combine robots, multiple grinding stations, measurement, loading systems, safety equipment and software. Dedicated robot-mounted belt grinders and

backstands form a more modular segment with lower entry cost and broader integration flexibility. The coexistence of complete cells and specialized modules explains why the industry contains both turnkey machine builders and component-oriented technology suppliers.

Downstream Market Opportunities

Downstream demand is strongest where belt grinding combines significant manual labor content with high requirements for repeatability, ergonomics or surface quality. Foundry and forging applications provide opportunities in gate removal, flash grinding, deburring and surface blending, while automotive and general metalworking customers increasingly use robotic systems for weld treatment and component finishing. Aerospace and energy applications offer higher-value opportunities because complex geometries, expensive materials and stringent quality requirements justify advanced sensing and process control. Medical implants are another technically attractive segment, as cobalt-chromium, titanium and similar components require highly repeatable finishing of curved surfaces while manual processes depend heavily on operator skill. Hardware, sanitary fittings, tools and cutlery remain important established markets for multi-station part-to-tool cells. Over time, improvements in programming simplicity and automatic abrasive management are expected to expand the addressable customer base toward higher-mix production and smaller manufacturing batches.

Regional Insights

Europe has the densest concentration of established specialist Robotic Abrasive Belt Grinding Machine OEMs, particularly in Germany, Spain and Italy, where manufacturers have developed long-standing expertise in grinding, polishing, tooling and multi-station automation. North America has a smaller but technically strong supplier base oriented toward high-value aerospace, medical, automotive and foundry applications. Asia is increasingly important both as a demand center and as a supply base. The International Federation of Robotics reported that Asia represented 74% of global industrial robot installations in 2024, while China alone accounted for 54% of global deployments, creating a large installed automation ecosystem that supports downstream robotic process applications.

China is showing particularly active supplier development in force-controlled grinding, abrasive-changing systems and integrated finishing workstations. Domestic companies have moved beyond robot integration toward proprietary belt-grinding modules and process-control products, including stationary and robot-mounted force-controlled belt

machines. Japan and Taiwan maintain more specialized positions, particularly in compact robot-mounted belt grinders, pneumatic tools and standardized robotic grinding modules. South Korea, Southeast Asia and the Middle East currently have fewer clearly identified dedicated OEMs under the narrow market definition and rely more heavily on imported equipment, local integration and broader automation suppliers.

Competitive Landscape Analysis

The competitive landscape is fragmented and technology-driven, with 28 companies retained in the core formal supplier pool rather than a market dominated by a small number of large robot manufacturers. European specialists such as Berger, SHL, IMM, MEPSA, Autopulit, COSMAP and Arcos compete primarily through grinding-process expertise, specialized mechanical engineering and turnkey multi-station capability, while North American companies such as Acme combine proprietary belt-grinding heads with application engineering for demanding industries. A second competitive layer consists of specialist force-control and robotic grinding module providers such as FerRobotics, PushCorp and Suhner, whose technologies can either form part of complete machines or be integrated by other automation suppliers. China is developing a broader domestic equipment tier represented by suppliers with proprietary force-controlled belt grinders, abrasive-changing stations and integrated workstations, increasing competition in standardized and cost-sensitive applications. Competitive differentiation is therefore increasingly based on force-control accuracy, process repeatability, automatic abrasive management, programming efficiency and application know-how rather than robot-brand selection. Portfolio specialization is also reshaping the supplier base: Grind Master states that its RoboFinish robotic business transitioned to DiFACTO in 2024, illustrating the movement of robotic finishing capabilities toward more focused automation organizations.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Robotic Abrasive

Belt Grinding Machine 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 Robotic Abrasive Belt Grinding Machine portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Robotic Abrasive Belt Grinding Machine market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Robotic Abrasive Belt Grinding Machine 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 Robotic Abrasive Belt Grinding Machine.

This report presents a comprehensive overview, market shares, and growth opportunities of Robotic Abrasive Belt Grinding Machine market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Part-to-Tool Systems

Tool-to-Part Systems

Others

Segmentation by Force-Control Technology:

Passive Compliance

Active Force Control

Robot-native Force/Torque Control

Hybrid Force Control

Segmentation by Application Load Specifications:

Light-duty: ?10 kg

Medium-duty: 10–50 kg

Heavy-duty: >50 kg

Segmentation by Application:

Automotive and Transportation

Foundry and Forging

Aerospace and Energy

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.

Acme Manufacturing Company

SHL AG

Berger Gruppe

MEPSA

Autopulit

IMM Maschinenbau

COSMAP

Arcos

FerRobotics

PushCorp

ACT Robots

Yamaha Fine Technologies

EFORT

Wuxi Yinglian Technology Co., Ltd.

DiFACTO

MESH Automation

Sunrise Instruments

Guangdong LXD Robotics Co., Ltd.

Suhner

Hangzhou Moz Robot Co., Ltd.

Peitian Robot

AMD Machines

DS Technology

Dynabrade

ARAI

FUJIYA TECH

Nitto Kohki

Key Questions Addressed in this Report

What is the 10-year outlook for the global Robotic Abrasive Belt Grinding Machine market?

What factors are driving Robotic Abrasive Belt Grinding Machine market growth, globally and by region?

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

How do Robotic Abrasive Belt Grinding Machine market opportunities vary by end market size?

How does Robotic Abrasive Belt Grinding Machine 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 Robotic Abrasive Belt Grinding Machine Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Robotic Abrasive Belt Grinding Machine by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Robotic Abrasive Belt Grinding Machine by Country/Region, 2021, 2025 & 2032
- 2.2 Robotic Abrasive Belt Grinding Machine Segment by Type
 - 2.2.1 Part-to-Tool Systems
 - 2.2.2 Tool-to-Part Systems
 - 2.2.3 Others
 - 2.2.4 Robotic Abrasive Belt Grinding Machine Sales by Type
 - 2.2.4.1 Global Robotic Abrasive Belt Grinding Machine Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Robotic Abrasive Belt Grinding Machine Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Robotic Abrasive Belt Grinding Machine Sale Price by Type (2021-2026)
- 2.3 Robotic Abrasive Belt Grinding Machine Segment by Force-Control Technology
 - 2.3.1 Passive Compliance
 - 2.3.2 Active Force Control
 - 2.3.3 Robot-native Force/Torque Control
 - 2.3.4 Hybrid Force Control
 - 2.3.5 Robotic Abrasive Belt Grinding Machine Sales by Force-Control Technology
 - 2.3.5.1 Global Robotic Abrasive Belt Grinding Machine Sales Market Share by Force-

Control Technology (2021-2026)

2.3.5.2 Global Robotic Abrasive Belt Grinding Machine Revenue and Market Share by Force-Control Technology (2021-2026)

2.3.5.3 Global Robotic Abrasive Belt Grinding Machine Sale Price by Force-Control Technology (2021-2026)

2.4 Robotic Abrasive Belt Grinding Machine Segment by Application Load Specifications

2.4.1 Light-duty: ≤10 kg

2.4.2 Medium-duty: 10–50 kg

2.4.3 Heavy-duty: >50 kg

2.4.4 Robotic Abrasive Belt Grinding Machine Sales by Application Load Specifications

2.4.4.1 Global Robotic Abrasive Belt Grinding Machine Sales Market Share by Application Load Specifications (2021-2026)

2.4.4.2 Global Robotic Abrasive Belt Grinding Machine Revenue and Market Share by Application Load Specifications (2021-2026)

2.4.4.3 Global Robotic Abrasive Belt Grinding Machine Sale Price by Application Load Specifications (2021-2026)

2.5 Robotic Abrasive Belt Grinding Machine Segment by Application

2.5.1 Automotive and Transportation

2.5.2 Foundry and Forging

2.5.3 Aerospace and Energy

2.5.4 Others

2.5.5 Robotic Abrasive Belt Grinding Machine Sales by Application

2.5.5.1 Global Robotic Abrasive Belt Grinding Machine Sales Market Share by Application (2021-2026)

2.5.5.2 Global Robotic Abrasive Belt Grinding Machine Revenue and Market Share by Application (2021-2026)

2.5.5.3 Global Robotic Abrasive Belt Grinding Machine Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Robotic Abrasive Belt Grinding Machine Breakdown Data by Company

3.1.1 Global Robotic Abrasive Belt Grinding Machine Annual Sales by Company (2021-2026)

3.1.2 Global Robotic Abrasive Belt Grinding Machine Sales Market Share by Company (2021-2026)

3.2 Global Robotic Abrasive Belt Grinding Machine Annual Revenue by Company (2021-2026)

3.2.1 Global Robotic Abrasive Belt Grinding Machine Revenue by Company (2021-2026)

3.2.2 Global Robotic Abrasive Belt Grinding Machine Revenue Market Share by Company (2021-2026)

3.3 Global Robotic Abrasive Belt Grinding Machine Sale Price by Company

3.4 Key Manufacturers Robotic Abrasive Belt Grinding Machine Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Robotic Abrasive Belt Grinding Machine Product Location Distribution

3.4.2 Players Robotic Abrasive Belt Grinding Machine Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR ROBOTIC ABRASIVE BELT GRINDING MACHINE BY GEOGRAPHIC REGION

4.1 World Historic Robotic Abrasive Belt Grinding Machine Market Size by Geographic Region (2021-2026)

4.1.1 Global Robotic Abrasive Belt Grinding Machine Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Robotic Abrasive Belt Grinding Machine Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Robotic Abrasive Belt Grinding Machine Market Size by Country/Region (2021-2026)

4.2.1 Global Robotic Abrasive Belt Grinding Machine Annual Sales by Country/Region (2021-2026)

4.2.2 Global Robotic Abrasive Belt Grinding Machine Annual Revenue by Country/Region (2021-2026)

4.3 Americas Robotic Abrasive Belt Grinding Machine Sales Growth

4.4 APAC Robotic Abrasive Belt Grinding Machine Sales Growth

4.5 Europe Robotic Abrasive Belt Grinding Machine Sales Growth

4.6 Middle East & Africa Robotic Abrasive Belt Grinding Machine Sales Growth

5 AMERICAS

5.1 Americas Robotic Abrasive Belt Grinding Machine Sales by Country

- 5.1.1 Americas Robotic Abrasive Belt Grinding Machine Sales by Country (2021-2026)
- 5.1.2 Americas Robotic Abrasive Belt Grinding Machine Revenue by Country (2021-2026)
- 5.2 Americas Robotic Abrasive Belt Grinding Machine Sales by Type (2021-2026)
- 5.3 Americas Robotic Abrasive Belt Grinding Machine Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Robotic Abrasive Belt Grinding Machine Sales by Region
 - 6.1.1 APAC Robotic Abrasive Belt Grinding Machine Sales by Region (2021-2026)
 - 6.1.2 APAC Robotic Abrasive Belt Grinding Machine Revenue by Region (2021-2026)
- 6.2 APAC Robotic Abrasive Belt Grinding Machine Sales by Type (2021-2026)
- 6.3 APAC Robotic Abrasive Belt Grinding Machine Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Robotic Abrasive Belt Grinding Machine by Country
 - 7.1.1 Europe Robotic Abrasive Belt Grinding Machine Sales by Country (2021-2026)
 - 7.1.2 Europe Robotic Abrasive Belt Grinding Machine Revenue by Country (2021-2026)
- 7.2 Europe Robotic Abrasive Belt Grinding Machine Sales by Type (2021-2026)
- 7.3 Europe Robotic Abrasive Belt Grinding Machine Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Robotic Abrasive Belt Grinding Machine by Country

8.1.1 Middle East & Africa Robotic Abrasive Belt Grinding Machine Sales by Country (2021-2026)

8.1.2 Middle East & Africa Robotic Abrasive Belt Grinding Machine Revenue by Country (2021-2026)

8.2 Middle East & Africa Robotic Abrasive Belt Grinding Machine Sales by Type (2021-2026)

8.3 Middle East & Africa Robotic Abrasive Belt Grinding Machine Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Robotic Abrasive Belt Grinding Machine

10.3 Manufacturing Process Analysis of Robotic Abrasive Belt Grinding Machine

10.4 Industry Chain Structure of Robotic Abrasive Belt Grinding Machine

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Robotic Abrasive Belt Grinding Machine Distributors

11.3 Robotic Abrasive Belt Grinding Machine Customer

12 WORLD FORECAST REVIEW FOR ROBOTIC ABRASIVE BELT GRINDING

MACHINE BY GEOGRAPHIC REGION

12.1 Global Robotic Abrasive Belt Grinding Machine Market Size Forecast by Region

12.1.1 Global Robotic Abrasive Belt Grinding Machine Forecast by Region (2027-2032)

12.1.2 Global Robotic Abrasive Belt Grinding Machine Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Robotic Abrasive Belt Grinding Machine Forecast by Type (2027-2032)

12.7 Global Robotic Abrasive Belt Grinding Machine Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Acme Manufacturing Company

13.1.1 Acme Manufacturing Company Company Information

13.1.2 Acme Manufacturing Company Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

13.1.3 Acme Manufacturing Company Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Acme Manufacturing Company Main Business Overview

13.1.5 Acme Manufacturing Company Latest Developments

13.2 SHL AG

13.2.1 SHL AG Company Information

13.2.2 SHL AG Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

13.2.3 SHL AG Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 SHL AG Main Business Overview

13.2.5 SHL AG Latest Developments

13.3 Berger Gruppe

13.3.1 Berger Gruppe Company Information

13.3.2 Berger Gruppe Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

13.3.3 Berger Gruppe Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.3.4 Berger Gruppe Main Business Overview
- 13.3.5 Berger Gruppe Latest Developments
- 13.4 MEPSA
 - 13.4.1 MEPSA Company Information
 - 13.4.2 MEPSA Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications
 - 13.4.3 MEPSA Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 MEPSA Main Business Overview
 - 13.4.5 MEPSA Latest Developments
- 13.5 Autopulit
 - 13.5.1 Autopulit Company Information
 - 13.5.2 Autopulit Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications
 - 13.5.3 Autopulit Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Autopulit Main Business Overview
 - 13.5.5 Autopulit Latest Developments
- 13.6 IMM Maschinenbau
 - 13.6.1 IMM Maschinenbau Company Information
 - 13.6.2 IMM Maschinenbau Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications
 - 13.6.3 IMM Maschinenbau Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 IMM Maschinenbau Main Business Overview
 - 13.6.5 IMM Maschinenbau Latest Developments
- 13.7 COSMAP
 - 13.7.1 COSMAP Company Information
 - 13.7.2 COSMAP Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications
 - 13.7.3 COSMAP Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 COSMAP Main Business Overview
 - 13.7.5 COSMAP Latest Developments
- 13.8 Arcos
 - 13.8.1 Arcos Company Information
 - 13.8.2 Arcos Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications
 - 13.8.3 Arcos Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and

Gross Margin (2021-2026)

13.8.4 Arcos Main Business Overview

13.8.5 Arcos Latest Developments

13.9 FerRobotics

13.9.1 FerRobotics Company Information

13.9.2 FerRobotics Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

13.9.3 FerRobotics Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 FerRobotics Main Business Overview

13.9.5 FerRobotics Latest Developments

13.10 PushCorp

13.10.1 PushCorp Company Information

13.10.2 PushCorp Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

13.10.3 PushCorp Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 PushCorp Main Business Overview

13.10.5 PushCorp Latest Developments

13.11 ACT Robots

13.11.1 ACT Robots Company Information

13.11.2 ACT Robots Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

13.11.3 ACT Robots Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 ACT Robots Main Business Overview

13.11.5 ACT Robots Latest Developments

13.12 Yamaha Fine Technologies

13.12.1 Yamaha Fine Technologies Company Information

13.12.2 Yamaha Fine Technologies Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

13.12.3 Yamaha Fine Technologies Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Yamaha Fine Technologies Main Business Overview

13.12.5 Yamaha Fine Technologies Latest Developments

13.13 EFORT

13.13.1 EFORT Company Information

13.13.2 EFORT Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

13.13.3 EFORT Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 EFORT Main Business Overview

13.13.5 EFORT Latest Developments

13.14 Wuxi Yinglian Technology Co., Ltd.

13.14.1 Wuxi Yinglian Technology Co., Ltd. Company Information

13.14.2 Wuxi Yinglian Technology Co., Ltd. Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

13.14.3 Wuxi Yinglian Technology Co., Ltd. Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Wuxi Yinglian Technology Co., Ltd. Main Business Overview

13.14.5 Wuxi Yinglian Technology Co., Ltd. Latest Developments

13.15 DiFACTO

13.15.1 DiFACTO Company Information

13.15.2 DiFACTO Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

13.15.3 DiFACTO Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 DiFACTO Main Business Overview

13.15.5 DiFACTO Latest Developments

13.16 MESH Automation

13.16.1 MESH Automation Company Information

13.16.2 MESH Automation Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

13.16.3 MESH Automation Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 MESH Automation Main Business Overview

13.16.5 MESH Automation Latest Developments

13.17 Sunrise Instruments

13.17.1 Sunrise Instruments Company Information

13.17.2 Sunrise Instruments Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

13.17.3 Sunrise Instruments Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.17.4 Sunrise Instruments Main Business Overview

13.17.5 Sunrise Instruments Latest Developments

13.18 Guangdong LXD Robotics Co., Ltd.

13.18.1 Guangdong LXD Robotics Co., Ltd. Company Information

13.18.2 Guangdong LXD Robotics Co., Ltd. Robotic Abrasive Belt Grinding Machine

Product Portfolios and Specifications

13.18.3 Guangdong LXD Robotics Co., Ltd. Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.18.4 Guangdong LXD Robotics Co., Ltd. Main Business Overview

13.18.5 Guangdong LXD Robotics Co., Ltd. Latest Developments

13.19 Suhner

13.19.1 Suhner Company Information

13.19.2 Suhner Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

13.19.3 Suhner Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.19.4 Suhner Main Business Overview

13.19.5 Suhner Latest Developments

13.20 Hangzhou Moz Robot Co., Ltd.

13.20.1 Hangzhou Moz Robot Co., Ltd. Company Information

13.20.2 Hangzhou Moz Robot Co., Ltd. Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

13.20.3 Hangzhou Moz Robot Co., Ltd. Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.20.4 Hangzhou Moz Robot Co., Ltd. Main Business Overview

13.20.5 Hangzhou Moz Robot Co., Ltd. Latest Developments

13.21 Peitian Robot

13.21.1 Peitian Robot Company Information

13.21.2 Peitian Robot Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

13.21.3 Peitian Robot Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.21.4 Peitian Robot Main Business Overview

13.21.5 Peitian Robot Latest Developments

13.22 AMD Machines

13.22.1 AMD Machines Company Information

13.22.2 AMD Machines Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

13.22.3 AMD Machines Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.22.4 AMD Machines Main Business Overview

13.22.5 AMD Machines Latest Developments

13.23 DS Technology

13.23.1 DS Technology Company Information

13.23.2 DS Technology Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

13.23.3 DS Technology Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.23.4 DS Technology Main Business Overview

13.23.5 DS Technology Latest Developments

13.24 Dynabrade

13.24.1 Dynabrade Company Information

13.24.2 Dynabrade Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

13.24.3 Dynabrade Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.24.4 Dynabrade Main Business Overview

13.24.5 Dynabrade Latest Developments

13.25 ARAIS

13.25.1 ARAIS Company Information

13.25.2 ARAIS Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

13.25.3 ARAIS Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.25.4 ARAIS Main Business Overview

13.25.5 ARAIS Latest Developments

13.26 FUJIYA TECH

13.26.1 FUJIYA TECH Company Information

13.26.2 FUJIYA TECH Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

13.26.3 FUJIYA TECH Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.26.4 FUJIYA TECH Main Business Overview

13.26.5 FUJIYA TECH Latest Developments

13.27 Nitto Kohki

13.27.1 Nitto Kohki Company Information

13.27.2 Nitto Kohki Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

13.27.3 Nitto Kohki Robotic Abrasive Belt Grinding Machine Sales, Revenue, Price and Gross Margin (2021-2026)

13.27.4 Nitto Kohki Main Business Overview

13.27.5 Nitto Kohki Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Robotic Abrasive Belt Grinding Machine Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Robotic Abrasive Belt Grinding Machine Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Part-to-Tool Systems
- Table 4. Major Players of Tool-to-Part Systems
- Table 5. Major Players of Others
- Table 6. Global Robotic Abrasive Belt Grinding Machine Sales by Type (2021-2026) & (Units)
- Table 7. Global Robotic Abrasive Belt Grinding Machine Sales Market Share by Type (2021-2026)
- Table 8. Global Robotic Abrasive Belt Grinding Machine Revenue by Type (2021-2026) & (\$ million)
- Table 9. Global Robotic Abrasive Belt Grinding Machine Revenue Market Share by Type (2021-2026)
- Table 10. Global Robotic Abrasive Belt Grinding Machine Sale Price by Type (2021-2026) & (US\$/Unit)
- Table 11. Major Players of Passive Compliance
- Table 12. Major Players of Active Force Control
- Table 13. Major Players of Robot-native Force/Torque Control
- Table 14. Major Players of Hybrid Force Control
- Table 15. Global Robotic Abrasive Belt Grinding Machine Sales by Force-Control Technology (2021-2026) & (Units)
- Table 16. Global Robotic Abrasive Belt Grinding Machine Sales Market Share by Force-Control Technology (2021-2026)
- Table 17. Global Robotic Abrasive Belt Grinding Machine Revenue by Force-Control Technology (2021-2026) & (\$ million)
- Table 18. Global Robotic Abrasive Belt Grinding Machine Revenue Market Share by Force-Control Technology (2021-2026)
- Table 19. Global Robotic Abrasive Belt Grinding Machine Sale Price by Force-Control Technology (2021-2026) & (US\$/Unit)
- Table 20. Major Players of Light-duty: ≤10 kg
- Table 21. Major Players of Medium-duty: 10–50 kg
- Table 22. Major Players of Heavy-duty: >50 kg
- Table 23. Global Robotic Abrasive Belt Grinding Machine Sales by Application Load

Specifications (2021-2026) & (Units)

Table 24. Global Robotic Abrasive Belt Grinding Machine Sales Market Share by Application Load Specifications (2021-2026)

Table 25. Global Robotic Abrasive Belt Grinding Machine Revenue by Application Load Specifications (2021-2026) & (\$ million)

Table 26. Global Robotic Abrasive Belt Grinding Machine Revenue Market Share by Application Load Specifications (2021-2026)

Table 27. Global Robotic Abrasive Belt Grinding Machine Sale Price by Application Load Specifications (2021-2026) & (US\$/Unit)

Table 28. Global Robotic Abrasive Belt Grinding Machine Sale by Application (2021-2026) & (Units)

Table 29. Global Robotic Abrasive Belt Grinding Machine Sale Market Share by Application (2021-2026)

Table 30. Global Robotic Abrasive Belt Grinding Machine Revenue by Application (2021-2026) & (\$ million)

Table 31. Global Robotic Abrasive Belt Grinding Machine Revenue Market Share by Application (2021-2026)

Table 32. Global Robotic Abrasive Belt Grinding Machine Sale Price by Application (2021-2026) & (US\$/Unit)

Table 33. Global Robotic Abrasive Belt Grinding Machine Sales by Company (2021-2026) & (Units)

Table 34. Global Robotic Abrasive Belt Grinding Machine Sales Market Share by Company (2021-2026)

Table 35. Global Robotic Abrasive Belt Grinding Machine Revenue by Company (2021-2026) & (\$ millions)

Table 36. Global Robotic Abrasive Belt Grinding Machine Revenue Market Share by Company (2021-2026)

Table 37. Global Robotic Abrasive Belt Grinding Machine Sale Price by Company (2021-2026) & (US\$/Unit)

Table 38. Key Manufacturers Robotic Abrasive Belt Grinding Machine Producing Area Distribution and Sales Area

Table 39. Players Robotic Abrasive Belt Grinding Machine Products Offered

Table 40. Robotic Abrasive Belt Grinding Machine Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 41. New Products and Potential Entrants

Table 42. Market M&A Activity & Strategy

Table 43. Global Robotic Abrasive Belt Grinding Machine Sales by Geographic Region (2021-2026) & (Units)

Table 44. Global Robotic Abrasive Belt Grinding Machine Sales Market Share

Geographic Region (2021-2026)

Table 45. Global Robotic Abrasive Belt Grinding Machine Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 46. Global Robotic Abrasive Belt Grinding Machine Revenue Market Share by Geographic Region (2021-2026)

Table 47. Global Robotic Abrasive Belt Grinding Machine Sales by Country/Region (2021-2026) & (Units)

Table 48. Global Robotic Abrasive Belt Grinding Machine Sales Market Share by Country/Region (2021-2026)

Table 49. Global Robotic Abrasive Belt Grinding Machine Revenue by Country/Region (2021-2026) & (\$ millions)

Table 50. Global Robotic Abrasive Belt Grinding Machine Revenue Market Share by Country/Region (2021-2026)

Table 51. Americas Robotic Abrasive Belt Grinding Machine Sales by Country (2021-2026) & (Units)

Table 52. Americas Robotic Abrasive Belt Grinding Machine Sales Market Share by Country (2021-2026)

Table 53. Americas Robotic Abrasive Belt Grinding Machine Revenue by Country (2021-2026) & (\$ millions)

Table 54. Americas Robotic Abrasive Belt Grinding Machine Sales by Type (2021-2026) & (Units)

Table 55. Americas Robotic Abrasive Belt Grinding Machine Sales by Application (2021-2026) & (Units)

Table 56. APAC Robotic Abrasive Belt Grinding Machine Sales by Region (2021-2026) & (Units)

Table 57. APAC Robotic Abrasive Belt Grinding Machine Sales Market Share by Region (2021-2026)

Table 58. APAC Robotic Abrasive Belt Grinding Machine Revenue by Region (2021-2026) & (\$ millions)

Table 59. APAC Robotic Abrasive Belt Grinding Machine Sales by Type (2021-2026) & (Units)

Table 60. APAC Robotic Abrasive Belt Grinding Machine Sales by Application (2021-2026) & (Units)

Table 61. Europe Robotic Abrasive Belt Grinding Machine Sales by Country (2021-2026) & (Units)

Table 62. Europe Robotic Abrasive Belt Grinding Machine Revenue by Country (2021-2026) & (\$ millions)

Table 63. Europe Robotic Abrasive Belt Grinding Machine Sales by Type (2021-2026) & (Units)

Table 64. Europe Robotic Abrasive Belt Grinding Machine Sales by Application (2021-2026) & (Units)

Table 65. Middle East & Africa Robotic Abrasive Belt Grinding Machine Sales by Country (2021-2026) & (Units)

Table 66. Middle East & Africa Robotic Abrasive Belt Grinding Machine Revenue Market Share by Country (2021-2026)

Table 67. Middle East & Africa Robotic Abrasive Belt Grinding Machine Sales by Type (2021-2026) & (Units)

Table 68. Middle East & Africa Robotic Abrasive Belt Grinding Machine Sales by Application (2021-2026) & (Units)

Table 69. Key Market Drivers & Growth Opportunities of Robotic Abrasive Belt Grinding Machine

Table 70. Key Market Challenges & Risks of Robotic Abrasive Belt Grinding Machine

Table 71. Key Industry Trends of Robotic Abrasive Belt Grinding Machine

Table 72. Robotic Abrasive Belt Grinding Machine Raw Material

Table 73. Key Suppliers of Raw Materials

Table 74. Robotic Abrasive Belt Grinding Machine Distributors List

Table 75. Robotic Abrasive Belt Grinding Machine Customer List

Table 76. Global Robotic Abrasive Belt Grinding Machine Sales Forecast by Region (2027-2032) & (Units)

Table 77. Global Robotic Abrasive Belt Grinding Machine Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 78. Americas Robotic Abrasive Belt Grinding Machine Sales Forecast by Country (2027-2032) & (Units)

Table 79. Americas Robotic Abrasive Belt Grinding Machine Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 80. APAC Robotic Abrasive Belt Grinding Machine Sales Forecast by Region (2027-2032) & (Units)

Table 81. APAC Robotic Abrasive Belt Grinding Machine Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 82. Europe Robotic Abrasive Belt Grinding Machine Sales Forecast by Country (2027-2032) & (Units)

Table 83. Europe Robotic Abrasive Belt Grinding Machine Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 84. Middle East & Africa Robotic Abrasive Belt Grinding Machine Sales Forecast by Country (2027-2032) & (Units)

Table 85. Middle East & Africa Robotic Abrasive Belt Grinding Machine Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 86. Global Robotic Abrasive Belt Grinding Machine Sales Forecast by Type

(2027-2032) & (Units)

Table 87. Global Robotic Abrasive Belt Grinding Machine Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 88. Global Robotic Abrasive Belt Grinding Machine Sales Forecast by Application (2027-2032) & (Units)

Table 89. Global Robotic Abrasive Belt Grinding Machine Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 90. Acme Manufacturing Company Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors

Table 91. Acme Manufacturing Company Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

Table 92. Acme Manufacturing Company Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 93. Acme Manufacturing Company Main Business

Table 94. Acme Manufacturing Company Latest Developments

Table 95. SHL AG Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors

Table 96. SHL AG Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

Table 97. SHL AG Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 98. SHL AG Main Business

Table 99. SHL AG Latest Developments

Table 100. Berger Gruppe Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors

Table 101. Berger Gruppe Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

Table 102. Berger Gruppe Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 103. Berger Gruppe Main Business

Table 104. Berger Gruppe Latest Developments

Table 105. MEPSA Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors

Table 106. MEPSA Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

Table 107. MEPSA Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 108. MEPSA Main Business

Table 109. MEPSA Latest Developments

Table 110. Autopulit Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors

Table 111. Autopulit Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

Table 112. Autopulit Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 113. Autopulit Main Business

Table 114. Autopulit Latest Developments

Table 115. IMM Maschinenbau Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors

Table 116. IMM Maschinenbau Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

Table 117. IMM Maschinenbau Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 118. IMM Maschinenbau Main Business

Table 119. IMM Maschinenbau Latest Developments

Table 120. COSMAP Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors

Table 121. COSMAP Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

Table 122. COSMAP Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 123. COSMAP Main Business

Table 124. COSMAP Latest Developments

Table 125. Arcos Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors

Table 126. Arcos Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

Table 127. Arcos Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 128. Arcos Main Business

Table 129. Arcos Latest Developments

Table 130. FerRobotics Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors

Table 131. FerRobotics Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

Table 132. FerRobotics Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 133. FerRobotics Main Business

Table 134. FerRobotics Latest Developments

Table 135. PushCorp Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors

Table 136. PushCorp Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

Table 137. PushCorp Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 138. PushCorp Main Business

Table 139. PushCorp Latest Developments

Table 140. ACT Robots Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors

Table 141. ACT Robots Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

Table 142. ACT Robots Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 143. ACT Robots Main Business

Table 144. ACT Robots Latest Developments

Table 145. Yamaha Fine Technologies Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors

Table 146. Yamaha Fine Technologies Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

Table 147. Yamaha Fine Technologies Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 148. Yamaha Fine Technologies Main Business

Table 149. Yamaha Fine Technologies Latest Developments

Table 150. EFORT Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors

Table 151. EFORT Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

Table 152. EFORT Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 153. EFORT Main Business

Table 154. EFORT Latest Developments

Table 155. Wuxi Yinglian Technology Co., Ltd. Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors

Table 156. Wuxi Yinglian Technology Co., Ltd. Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

Table 157. Wuxi Yinglian Technology Co., Ltd. Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 158. Wuxi Yinglian Technology Co., Ltd. Main Business
Table 159. Wuxi Yinglian Technology Co., Ltd. Latest Developments
Table 160. DiFACTO Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors
Table 161. DiFACTO Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications
Table 162. DiFACTO Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 163. DiFACTO Main Business
Table 164. DiFACTO Latest Developments
Table 165. MESH Automation Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors
Table 166. MESH Automation Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications
Table 167. MESH Automation Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 168. MESH Automation Main Business
Table 169. MESH Automation Latest Developments
Table 170. Sunrise Instruments Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors
Table 171. Sunrise Instruments Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications
Table 172. Sunrise Instruments Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 173. Sunrise Instruments Main Business
Table 174. Sunrise Instruments Latest Developments
Table 175. Guangdong LXD Robotics Co., Ltd. Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors
Table 176. Guangdong LXD Robotics Co., Ltd. Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications
Table 177. Guangdong LXD Robotics Co., Ltd. Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 178. Guangdong LXD Robotics Co., Ltd. Main Business
Table 179. Guangdong LXD Robotics Co., Ltd. Latest Developments
Table 180. Suhner Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors
Table 181. Suhner Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications
Table 182. Suhner Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$

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

Table 183. Suhner Main Business

Table 184. Suhner Latest Developments

Table 185. Hangzhou Moz Robot Co., Ltd. Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors

Table 186. Hangzhou Moz Robot Co., Ltd. Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

Table 187. Hangzhou Moz Robot Co., Ltd. Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 188. Hangzhou Moz Robot Co., Ltd. Main Business

Table 189. Hangzhou Moz Robot Co., Ltd. Latest Developments

Table 190. Peitian Robot Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors

Table 191. Peitian Robot Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

Table 192. Peitian Robot Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 193. Peitian Robot Main Business

Table 194. Peitian Robot Latest Developments

Table 195. AMD Machines Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors

Table 196. AMD Machines Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

Table 197. AMD Machines Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 198. AMD Machines Main Business

Table 199. AMD Machines Latest Developments

Table 200. DS Technology Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors

Table 201. DS Technology Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

Table 202. DS Technology Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 203. DS Technology Main Business

Table 204. DS Technology Latest Developments

Table 205. Dynabrade Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors

Table 206. Dynabrade Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

Table 207. Dynabrade Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 208. Dynabrade Main Business

Table 209. Dynabrade Latest Developments

Table 210. ARAIS Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors

Table 211. ARAIS Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

Table 212. ARAIS Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 213. ARAIS Main Business

Table 214. ARAIS Latest Developments

Table 215. FUJIYA TECH Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors

Table 216. FUJIYA TECH Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

Table 217. FUJIYA TECH Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 218. FUJIYA TECH Main Business

Table 219. FUJIYA TECH Latest Developments

Table 220. Nitto Kohki Basic Information, Robotic Abrasive Belt Grinding Machine Manufacturing Base, Sales Area and Its Competitors

Table 221. Nitto Kohki Robotic Abrasive Belt Grinding Machine Product Portfolios and Specifications

Table 222. Nitto Kohki Robotic Abrasive Belt Grinding Machine Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 223. Nitto Kohki Main Business

Table 224. Nitto Kohki Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Robotic Abrasive Belt Grinding Machine
- Figure 2. Robotic Abrasive Belt Grinding Machine Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Robotic Abrasive Belt Grinding Machine Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Robotic Abrasive Belt Grinding Machine Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Robotic Abrasive Belt Grinding Machine Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Robotic Abrasive Belt Grinding Machine Sales Market Share by Country/Region (2025)
- Figure 10. Robotic Abrasive Belt Grinding Machine Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Part-to-Tool Systems
- Figure 12. Product Picture of Tool-to-Part Systems
- Figure 13. Product Picture of Others
- Figure 14. Global Robotic Abrasive Belt Grinding Machine Sales Market Share by Type in 2026
- Figure 15. Global Robotic Abrasive Belt Grinding Machine Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Passive Compliance
- Figure 17. Product Picture of Active Force Control
- Figure 18. Product Picture of Robot-native Force/Torque Control
- Figure 19. Product Picture of Hybrid Force Control
- Figure 20. Global Robotic Abrasive Belt Grinding Machine Sales Market Share by Force-Control Technology in 2026
- Figure 21. Global Robotic Abrasive Belt Grinding Machine Revenue Market Share by Force-Control Technology (2021-2026)
- Figure 22. Product Picture of Light-duty: ?10 kg
- Figure 23. Product Picture of Medium-duty: 10–50 kg
- Figure 24. Product Picture of Heavy-duty: >50 kg
- Figure 25. Global Robotic Abrasive Belt Grinding Machine Sales Market Share by Application Load Specifications in 2026

Figure 26. Global Robotic Abrasive Belt Grinding Machine Revenue Market Share by Application Load Specifications (2021-2026)

Figure 27. Robotic Abrasive Belt Grinding Machine Consumed in Automotive and Transportation

Figure 28. Global Robotic Abrasive Belt Grinding Machine Market: Automotive and Transportation (2021-2026) & (Units)

Figure 29. Robotic Abrasive Belt Grinding Machine Consumed in Foundry and Forging

Figure 30. Global Robotic Abrasive Belt Grinding Machine Market: Foundry and Forging (2021-2026) & (Units)

Figure 31. Robotic Abrasive Belt Grinding Machine Consumed in Aerospace and Energy

Figure 32. Global Robotic Abrasive Belt Grinding Machine Market: Aerospace and Energy (2021-2026) & (Units)

Figure 33. Robotic Abrasive Belt Grinding Machine Consumed in Others

Figure 34. Global Robotic Abrasive Belt Grinding Machine Market: Others (2021-2026) & (Units)

Figure 35. Global Robotic Abrasive Belt Grinding Machine Sale Market Share by Application (2025)

Figure 36. Global Robotic Abrasive Belt Grinding Machine Revenue Market Share by Application in 2025

Figure 37. Robotic Abrasive Belt Grinding Machine Sales by Company in 2025 (Units)

Figure 38. Global Robotic Abrasive Belt Grinding Machine Sales Market Share by Company in 2025

Figure 39. Robotic Abrasive Belt Grinding Machine Revenue by Company in 2025 (\$ millions)

Figure 40. Global Robotic Abrasive Belt Grinding Machine Revenue Market Share by Company in 2025

Figure 41. Global Robotic Abrasive Belt Grinding Machine Sales Market Share by Geographic Region (2021-2026)

Figure 42. Global Robotic Abrasive Belt Grinding Machine Revenue Market Share by Geographic Region in 2025

Figure 43. Americas Robotic Abrasive Belt Grinding Machine Sales 2021-2026 (Units)

Figure 44. Americas Robotic Abrasive Belt Grinding Machine Revenue 2021-2026 (\$ millions)

Figure 45. APAC Robotic Abrasive Belt Grinding Machine Sales 2021-2026 (Units)

Figure 46. APAC Robotic Abrasive Belt Grinding Machine Revenue 2021-2026 (\$ millions)

Figure 47. Europe Robotic Abrasive Belt Grinding Machine Sales 2021-2026 (Units)

Figure 48. Europe Robotic Abrasive Belt Grinding Machine Revenue 2021-2026 (\$

millions)

Figure 49. Middle East & Africa Robotic Abrasive Belt Grinding Machine Sales
2021-2026 (Units)

Figure 50. Middle East & Africa Robotic Abrasive Belt Grinding Machine Revenue
2021-2026 (\$ millions)

Figure 51. Americas Robotic Abrasive Belt Grinding Machine Sales Market Share by
Country in 2025

Figure 52. Americas Robotic Abrasive Belt Grinding Machine Revenue Market Share by
Country (2021-2026)

Figure 53. Americas Robotic Abrasive Belt Grinding Machine Sales Market Share by
Type (2021-2026)

Figure 54. Americas Robotic Abrasive Belt Grinding Machine Sales Market Share by
Application (2021-2026)

Figure 55. United States Robotic Abrasive Belt Grinding Machine Revenue Growth
2021-2026 (\$ millions)

Figure 56. Canada Robotic Abrasive Belt Grinding Machine Revenue Growth
2021-2026 (\$ millions)

Figure 57. Mexico Robotic Abrasive Belt Grinding Machine Revenue Growth 2021-2026
(\$ millions)

Figure 58. Brazil Robotic Abrasive Belt Grinding Machine Revenue Growth 2021-2026
(\$ millions)

Figure 59. APAC Robotic Abrasive Belt Grinding Machine Sales Market Share by
Region in 2025

Figure 60. APAC Robotic Abrasive Belt Grinding Machine Revenue Market Share by
Region (2021-2026)

Figure 61. APAC Robotic Abrasive Belt Grinding Machine Sales Market Share by Type
(2021-2026)

Figure 62. APAC Robotic Abrasive Belt Grinding Machine Sales Market Share by
Application (2021-2026)

Figure 63. China Robotic Abrasive Belt Grinding Machine Revenue Growth 2021-2026
(\$ millions)

Figure 64. Japan Robotic Abrasive Belt Grinding Machine Revenue Growth 2021-2026
(\$ millions)

Figure 65. South Korea Robotic Abrasive Belt Grinding Machine Revenue Growth
2021-2026 (\$ millions)

Figure 66. Southeast Asia Robotic Abrasive Belt Grinding Machine Revenue Growth
2021-2026 (\$ millions)

Figure 67. India Robotic Abrasive Belt Grinding Machine Revenue Growth 2021-2026 (\$
millions)

Figure 68. Australia Robotic Abrasive Belt Grinding Machine Revenue Growth 2021-2026 (\$ millions)

Figure 69. China Taiwan Robotic Abrasive Belt Grinding Machine Revenue Growth 2021-2026 (\$ millions)

Figure 70. Europe Robotic Abrasive Belt Grinding Machine Sales Market Share by Country in 2025

Figure 71. Europe Robotic Abrasive Belt Grinding Machine Revenue Market Share by Country (2021-2026)

Figure 72. Europe Robotic Abrasive Belt Grinding Machine Sales Market Share by Type (2021-2026)

Figure 73. Europe Robotic Abrasive Belt Grinding Machine Sales Market Share by Application (2021-2026)

Figure 74. Germany Robotic Abrasive Belt Grinding Machine Revenue Growth 2021-2026 (\$ millions)

Figure 75. France Robotic Abrasive Belt Grinding Machine Revenue Growth 2021-2026 (\$ millions)

Figure 76. UK Robotic Abrasive Belt Grinding Machine Revenue Growth 2021-2026 (\$ millions)

Figure 77. Italy Robotic Abrasive Belt Grinding Machine Revenue Growth 2021-2026 (\$ millions)

Figure 78. Russia Robotic Abrasive Belt Grinding Machine Revenue Growth 2021-2026 (\$ millions)

Figure 79. Middle East & Africa Robotic Abrasive Belt Grinding Machine Sales Market Share by Country (2021-2026)

Figure 80. Middle East & Africa Robotic Abrasive Belt Grinding Machine Sales Market Share by Type (2021-2026)

Figure 81. Middle East & Africa Robotic Abrasive Belt Grinding Machine Sales Market Share by Application (2021-2026)

Figure 82. Egypt Robotic Abrasive Belt Grinding Machine Revenue Growth 2021-2026 (\$ millions)

Figure 83. South Africa Robotic Abrasive Belt Grinding Machine Revenue Growth 2021-2026 (\$ millions)

Figure 84. Israel Robotic Abrasive Belt Grinding Machine Revenue Growth 2021-2026 (\$ millions)

Figure 85. Turkey Robotic Abrasive Belt Grinding Machine Revenue Growth 2021-2026 (\$ millions)

Figure 86. GCC Countries Robotic Abrasive Belt Grinding Machine Revenue Growth 2021-2026 (\$ millions)

Figure 87. Manufacturing Cost Structure Analysis of Robotic Abrasive Belt Grinding

Machine in 2026

Figure 88. Manufacturing Process Analysis of Robotic Abrasive Belt Grinding Machine

Figure 89. Industry Chain Structure of Robotic Abrasive Belt Grinding Machine

Figure 90. Channels of Distribution

Figure 91. Global Robotic Abrasive Belt Grinding Machine Sales Market Forecast by Region (2027-2032)

Figure 92. Global Robotic Abrasive Belt Grinding Machine Revenue Market Share Forecast by Region (2027-2032)

Figure 93. Global Robotic Abrasive Belt Grinding Machine Sales Market Share Forecast by Type (2027-2032)

Figure 94. Global Robotic Abrasive Belt Grinding Machine Revenue Market Share Forecast by Type (2027-2032)

Figure 95. Global Robotic Abrasive Belt Grinding Machine Sales Market Share Forecast by Application (2027-2032)

Figure 96. Global Robotic Abrasive Belt Grinding Machine Revenue Market Share Forecast by Application (2027-2032)

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