

Global End Effectors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global End Effectors market size was valued at US\$ million in 2025 and is forecast to a readjusted size of US\$ million by 2032 with a CAGR of %during review period.

In 2024, global End Effectors capacity 4,500 k Units, sales reached approximately 4,380 k Units, with an average market price of around 156 USD/Unit, industrial gross margin 35%.

End effectors sit at the true point-of-value in a robotic cell: they are the hands and tools that translate robot motion into process outcomes. Typical end effectors include mechanical grippers, vacuum cups, soft grippers, magnetic and electric grippers on the one hand, and process tools such as weld torches, sanding units, spray guns and dispensers on the other, complemented by tool changers, force/torque sensors and vision modules. The competitive landscape is led by a group of specialized end-effector players?among them SCHUNK, Zimmer Group, Piab, Schmalz, Destaco, ATI (now under Novanta), Robotiq, OnRobot, SMC and Festo?that position themselves around specific robot brands, interface standards and vertical applications, rather than competing on robots themselves.

Along the value chain, end effectors form the bridge between robot hardware/control and the actual process. Upstream, they rely on precision-machined structures, seals, sensors and pneumatic or electric actuators; midstream activities are the design, manufacturing and integration of grippers, vacuum systems and tool changers; downstream, end effectors unlock concrete use cases such as automotive body welding and painting, precision electronics and semiconductor assembly, e-commerce and warehouse picking, food and beverage packaging, pharma and lab automation, and

surgical robots. As factories push for flexible automation and higher takt times, the density and sophistication of end effectors per line are rising in automotive and electronics, while new demand is emerging in food, healthcare and agriculture where gentle, hygienic and easily washable tooling is critical.

Technologically, the End Effectors / end-effector market is shifting from rigid, application-specific tools toward modular, reconfigurable and intelligent systems. Grippers remain the core product category, but soft and adaptive grippers, multi-zone vacuum heads and compound tools with integrated force/torque or tactile sensing are growing fast, particularly in collaborative robot and high-mix, low-volume environments. Tool changers are another high-growth pocket: by allowing one robot to swap between gripping, welding, deburring and inspection tools within seconds, they boost asset utilization and flexibility, and they also pull through more content in sensors, cabling and safety. This dynamic is turning end effectors from simple components into platforms?with standardized interfaces, configuration software and pre-engineered process kits?that can be rolled out across global manufacturing networks.

Strategic moves over the last few years illustrate how central end effectors have become to automation portfolios. One example is Novanta?s acquisition of ATI Industrial Automation, which brought together high-performance tool changers, material-removal tools and force/torque sensors with servo and motion-control platforms for demanding industrial and medical-robot applications. Another is Piab?s acquisition of vacuum-gripping specialist Joulin, adding a strong franchise in heavy wood and panel handling, plus a loyal installed base, to a broader automation group that has since been integrating selected Joulin grippers into its own product family while keeping the Joulin brand alive in core segments. Together with a steady stream of new launches from players such as Schunk, Zimmer, Robotiq and OnRobot for e-commerce packaging, semiconductor handling and cobots, these moves show End Effectors evolving from standalone parts toward vertically tailored solution bundles.

Looking forward, the End Effectors / end-effector market is expected to keep expanding along two dimensions: deeper verticalization and higher intelligence. On the demand side, automotive, battery and power-semiconductor manufacturing, consumer electronics, and e-commerce intralogistics will remain anchor segments, while food, pharma and medical robotics add incremental growth driven by hygiene, safety and soft-handling constraints. On the supply side, the spread of collaborative robots and the integration of vision and AI are turning end effectors into smart devices with sensing, embedded firmware and cloud-configurable behaviors; modular quick-change systems and standardized interfaces become key tools for locking in robot ecosystems and life-

time customer value. In such an environment, vendors that can offer broad end-effector portfolios, vertical application kits and global support are positioned to capture an outsized share of the next wave of automation spending.

This report is a detailed and comprehensive analysis for global End Effectors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global End Effectors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global End Effectors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global End Effectors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global End Effectors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for End Effectors

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global End Effectors market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Schunk, Festo, SMC, Robotiq, Zimmer, Destaco, ATI Industrial Automation, EMI Corp, IAI Automation, Effecto, etc.

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

Market Segmentation

End Effectors market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Pneumatic Type

Electric Type

Market segment by Material

Rigid Type

Soft Type

Market segment by Application

Automobile

Electronics and Semiconductor

Food and Beverage

Logistics

Pharmaceutical

Medical

Cosmetics

Others

Major players covered

Schunk

Festo

SMC

Robotiq

Zimmer

Destaco

ATI Industrial Automation

EMI Corp

IAI Automation

Effecto

Schmalz

Piab

IPR

FIPA

Bastian Solutions

Soft Robot Tech (SRT)

Rochu

Shenzhen Elephant Robotics

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe End Effectors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of End Effectors, with price, sales quantity, revenue, and global market share of End Effectors from 2021 to 2026.

Chapter 3, the End Effectors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the End Effectors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market

share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and End Effectors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of End Effectors.

Chapter 14 and 15, to describe End Effectors sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global End Effectors Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Pneumatic Type

1.3.3 Electric Type

1.4 Market Analysis by Material

1.4.1 Overview: Global End Effectors Consumption Value by Material: 2021 Versus 2025 Versus 2032

1.4.2 Rigid Type

1.4.3 Soft Type

1.5 Market Analysis by Application

1.5.1 Overview: Global End Effectors Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.5.2 Automobile

1.5.3 Electronics and Semiconductor

1.5.4 Food and Beverage

1.5.5 Logistics

1.5.6 Pharmaceutical

1.5.7 Medical

1.5.8 Cosmetics

1.5.9 Others

1.6 Global End Effectors Market Size & Forecast

1.6.1 Global End Effectors Consumption Value (2021 & 2025 & 2032)

1.6.2 Global End Effectors Sales Quantity (2021-2032)

1.6.3 Global End Effectors Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Schunk

2.1.1 Schunk Details

2.1.2 Schunk Major Business

2.1.3 Schunk End Effectors Product and Services

2.1.4 Schunk End Effectors Sales Quantity, Average Price, Revenue, Gross Margin

and Market Share (2021-2026)

2.1.5 Schunk Recent Developments/Updates

2.2 Festo

2.2.1 Festo Details

2.2.2 Festo Major Business

2.2.3 Festo End Effectors Product and Services

2.2.4 Festo End Effectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Festo Recent Developments/Updates

2.3 SMC

2.3.1 SMC Details

2.3.2 SMC Major Business

2.3.3 SMC End Effectors Product and Services

2.3.4 SMC End Effectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 SMC Recent Developments/Updates

2.4 Robotiq

2.4.1 Robotiq Details

2.4.2 Robotiq Major Business

2.4.3 Robotiq End Effectors Product and Services

2.4.4 Robotiq End Effectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Robotiq Recent Developments/Updates

2.5 Zimmer

2.5.1 Zimmer Details

2.5.2 Zimmer Major Business

2.5.3 Zimmer End Effectors Product and Services

2.5.4 Zimmer End Effectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Zimmer Recent Developments/Updates

2.6 Destaco

2.6.1 Destaco Details

2.6.2 Destaco Major Business

2.6.3 Destaco End Effectors Product and Services

2.6.4 Destaco End Effectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Destaco Recent Developments/Updates

2.7 ATI Industrial Automation

2.7.1 ATI Industrial Automation Details

- 2.7.2 ATI Industrial Automation Major Business
- 2.7.3 ATI Industrial Automation End Effectors Product and Services
- 2.7.4 ATI Industrial Automation End Effectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.7.5 ATI Industrial Automation Recent Developments/Updates
- 2.8 EMI Corp
 - 2.8.1 EMI Corp Details
 - 2.8.2 EMI Corp Major Business
 - 2.8.3 EMI Corp End Effectors Product and Services
 - 2.8.4 EMI Corp End Effectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 EMI Corp Recent Developments/Updates
- 2.9 IAI Automation
 - 2.9.1 IAI Automation Details
 - 2.9.2 IAI Automation Major Business
 - 2.9.3 IAI Automation End Effectors Product and Services
 - 2.9.4 IAI Automation End Effectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 IAI Automation Recent Developments/Updates
- 2.10 Effecto
 - 2.10.1 Effecto Details
 - 2.10.2 Effecto Major Business
 - 2.10.3 Effecto End Effectors Product and Services
 - 2.10.4 Effecto End Effectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 Effecto Recent Developments/Updates
- 2.11 Schmalz
 - 2.11.1 Schmalz Details
 - 2.11.2 Schmalz Major Business
 - 2.11.3 Schmalz End Effectors Product and Services
 - 2.11.4 Schmalz End Effectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.11.5 Schmalz Recent Developments/Updates
- 2.12 Piab
 - 2.12.1 Piab Details
 - 2.12.2 Piab Major Business
 - 2.12.3 Piab End Effectors Product and Services
 - 2.12.4 Piab End Effectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.12.5 Piab Recent Developments/Updates
- 2.13 IPR
 - 2.13.1 IPR Details
 - 2.13.2 IPR Major Business
 - 2.13.3 IPR End Effectors Product and Services
 - 2.13.4 IPR End Effectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.13.5 IPR Recent Developments/Updates
- 2.14 FIPA
 - 2.14.1 FIPA Details
 - 2.14.2 FIPA Major Business
 - 2.14.3 FIPA End Effectors Product and Services
 - 2.14.4 FIPA End Effectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.14.5 FIPA Recent Developments/Updates
- 2.15 Bastian Solutions
 - 2.15.1 Bastian Solutions Details
 - 2.15.2 Bastian Solutions Major Business
 - 2.15.3 Bastian Solutions End Effectors Product and Services
 - 2.15.4 Bastian Solutions End Effectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.15.5 Bastian Solutions Recent Developments/Updates
- 2.16 Soft Robot Tech (SRT)
 - 2.16.1 Soft Robot Tech (SRT) Details
 - 2.16.2 Soft Robot Tech (SRT) Major Business
 - 2.16.3 Soft Robot Tech (SRT) End Effectors Product and Services
 - 2.16.4 Soft Robot Tech (SRT) End Effectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.16.5 Soft Robot Tech (SRT) Recent Developments/Updates
- 2.17 Rochu
 - 2.17.1 Rochu Details
 - 2.17.2 Rochu Major Business
 - 2.17.3 Rochu End Effectors Product and Services
 - 2.17.4 Rochu End Effectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.17.5 Rochu Recent Developments/Updates
- 2.18 Shenzhen Elephant Robotics
 - 2.18.1 Shenzhen Elephant Robotics Details
 - 2.18.2 Shenzhen Elephant Robotics Major Business

- 2.18.3 Shenzhen Elephant Robotics End Effectors Product and Services
- 2.18.4 Shenzhen Elephant Robotics End Effectors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.18.5 Shenzhen Elephant Robotics Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: END EFFECTORS BY MANUFACTURER

- 3.1 Global End Effectors Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global End Effectors Revenue by Manufacturer (2021-2026)
- 3.3 Global End Effectors Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of End Effectors by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 End Effectors Manufacturer Market Share in 2025
 - 3.4.3 Top 6 End Effectors Manufacturer Market Share in 2025
- 3.5 End Effectors Market: Overall Company Footprint Analysis
 - 3.5.1 End Effectors Market: Region Footprint
 - 3.5.2 End Effectors Market: Company Product Type Footprint
 - 3.5.3 End Effectors Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global End Effectors Market Size by Region
 - 4.1.1 Global End Effectors Sales Quantity by Region (2021-2032)
 - 4.1.2 Global End Effectors Consumption Value by Region (2021-2032)
 - 4.1.3 Global End Effectors Average Price by Region (2021-2032)
- 4.2 North America End Effectors Consumption Value (2021-2032)
- 4.3 Europe End Effectors Consumption Value (2021-2032)
- 4.4 Asia-Pacific End Effectors Consumption Value (2021-2032)
- 4.5 South America End Effectors Consumption Value (2021-2032)
- 4.6 Middle East & Africa End Effectors Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global End Effectors Sales Quantity by Type (2021-2032)
- 5.2 Global End Effectors Consumption Value by Type (2021-2032)
- 5.3 Global End Effectors Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global End Effectors Sales Quantity by Application (2021-2032)
- 6.2 Global End Effectors Consumption Value by Application (2021-2032)
- 6.3 Global End Effectors Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America End Effectors Sales Quantity by Type (2021-2032)
- 7.2 North America End Effectors Sales Quantity by Application (2021-2032)
- 7.3 North America End Effectors Market Size by Country
 - 7.3.1 North America End Effectors Sales Quantity by Country (2021-2032)
 - 7.3.2 North America End Effectors Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)
 - 7.3.4 Canada Market Size and Forecast (2021-2032)
 - 7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe End Effectors Sales Quantity by Type (2021-2032)
- 8.2 Europe End Effectors Sales Quantity by Application (2021-2032)
- 8.3 Europe End Effectors Market Size by Country
 - 8.3.1 Europe End Effectors Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe End Effectors Consumption Value by Country (2021-2032)
 - 8.3.3 Germany Market Size and Forecast (2021-2032)
 - 8.3.4 France Market Size and Forecast (2021-2032)
 - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
 - 8.3.6 Russia Market Size and Forecast (2021-2032)
 - 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific End Effectors Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific End Effectors Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific End Effectors Market Size by Region
 - 9.3.1 Asia-Pacific End Effectors Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific End Effectors Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)

- 9.3.4 Japan Market Size and Forecast (2021-2032)
- 9.3.5 South Korea Market Size and Forecast (2021-2032)
- 9.3.6 India Market Size and Forecast (2021-2032)
- 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
- 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America End Effectors Sales Quantity by Type (2021-2032)
- 10.2 South America End Effectors Sales Quantity by Application (2021-2032)
- 10.3 South America End Effectors Market Size by Country
 - 10.3.1 South America End Effectors Sales Quantity by Country (2021-2032)
 - 10.3.2 South America End Effectors Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa End Effectors Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa End Effectors Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa End Effectors Market Size by Country
 - 11.3.1 Middle East & Africa End Effectors Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa End Effectors Consumption Value by Country (2021-2032)
 - 11.3.3 Turkey Market Size and Forecast (2021-2032)
 - 11.3.4 Egypt Market Size and Forecast (2021-2032)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
 - 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 End Effectors Market Drivers
- 12.2 End Effectors Market Restraints
- 12.3 End Effectors Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of End Effectors and Key Manufacturers

13.2 Manufacturing Costs Percentage of End Effectors

13.3 End Effectors Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 End Effectors Typical Distributors

14.3 End Effectors Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global End Effectors Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global End Effectors Consumption Value by Material, (USD Million), 2021 & 2025 & 2032

Table 3. Global End Effectors Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. Schunk Basic Information, Manufacturing Base and Competitors

Table 5. Schunk Major Business

Table 6. Schunk End Effectors Product and Services

Table 7. Schunk End Effectors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 8. Schunk Recent Developments/Updates

Table 9. Festo Basic Information, Manufacturing Base and Competitors

Table 10. Festo Major Business

Table 11. Festo End Effectors Product and Services

Table 12. Festo End Effectors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 13. Festo Recent Developments/Updates

Table 14. SMC Basic Information, Manufacturing Base and Competitors

Table 15. SMC Major Business

Table 16. SMC End Effectors Product and Services

Table 17. SMC End Effectors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 18. SMC Recent Developments/Updates

Table 19. Robotiq Basic Information, Manufacturing Base and Competitors

Table 20. Robotiq Major Business

Table 21. Robotiq End Effectors Product and Services

Table 22. Robotiq End Effectors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 23. Robotiq Recent Developments/Updates

Table 24. Zimmer Basic Information, Manufacturing Base and Competitors

Table 25. Zimmer Major Business

Table 26. Zimmer End Effectors Product and Services

Table 27. Zimmer End Effectors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

- Table 28. Zimmer Recent Developments/Updates
- Table 29. Destaco Basic Information, Manufacturing Base and Competitors
- Table 30. Destaco Major Business
- Table 31. Destaco End Effectors Product and Services
- Table 32. Destaco End Effectors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 33. Destaco Recent Developments/Updates
- Table 34. ATI Industrial Automation Basic Information, Manufacturing Base and Competitors
- Table 35. ATI Industrial Automation Major Business
- Table 36. ATI Industrial Automation End Effectors Product and Services
- Table 37. ATI Industrial Automation End Effectors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 38. ATI Industrial Automation Recent Developments/Updates
- Table 39. EMI Corp Basic Information, Manufacturing Base and Competitors
- Table 40. EMI Corp Major Business
- Table 41. EMI Corp End Effectors Product and Services
- Table 42. EMI Corp End Effectors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 43. EMI Corp Recent Developments/Updates
- Table 44. IAI Automation Basic Information, Manufacturing Base and Competitors
- Table 45. IAI Automation Major Business
- Table 46. IAI Automation End Effectors Product and Services
- Table 47. IAI Automation End Effectors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 48. IAI Automation Recent Developments/Updates
- Table 49. Effecto Basic Information, Manufacturing Base and Competitors
- Table 50. Effecto Major Business
- Table 51. Effecto End Effectors Product and Services
- Table 52. Effecto End Effectors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 53. Effecto Recent Developments/Updates
- Table 54. Schmalz Basic Information, Manufacturing Base and Competitors
- Table 55. Schmalz Major Business
- Table 56. Schmalz End Effectors Product and Services
- Table 57. Schmalz End Effectors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 58. Schmalz Recent Developments/Updates
- Table 59. Piab Basic Information, Manufacturing Base and Competitors

- Table 60. Piab Major Business
- Table 61. Piab End Effectors Product and Services
- Table 62. Piab End Effectors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 63. Piab Recent Developments/Updates
- Table 64. IPR Basic Information, Manufacturing Base and Competitors
- Table 65. IPR Major Business
- Table 66. IPR End Effectors Product and Services
- Table 67. IPR End Effectors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 68. IPR Recent Developments/Updates
- Table 69. FIPA Basic Information, Manufacturing Base and Competitors
- Table 70. FIPA Major Business
- Table 71. FIPA End Effectors Product and Services
- Table 72. FIPA End Effectors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 73. FIPA Recent Developments/Updates
- Table 74. Bastian Solutions Basic Information, Manufacturing Base and Competitors
- Table 75. Bastian Solutions Major Business
- Table 76. Bastian Solutions End Effectors Product and Services
- Table 77. Bastian Solutions End Effectors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 78. Bastian Solutions Recent Developments/Updates
- Table 79. Soft Robot Tech (SRT) Basic Information, Manufacturing Base and Competitors
- Table 80. Soft Robot Tech (SRT) Major Business
- Table 81. Soft Robot Tech (SRT) End Effectors Product and Services
- Table 82. Soft Robot Tech (SRT) End Effectors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 83. Soft Robot Tech (SRT) Recent Developments/Updates
- Table 84. Rochu Basic Information, Manufacturing Base and Competitors
- Table 85. Rochu Major Business
- Table 86. Rochu End Effectors Product and Services
- Table 87. Rochu End Effectors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 88. Rochu Recent Developments/Updates
- Table 89. Shenzhen Elephant Robotics Basic Information, Manufacturing Base and Competitors
- Table 90. Shenzhen Elephant Robotics Major Business

- Table 91. Shenzhen Elephant Robotics End Effectors Product and Services
- Table 92. Shenzhen Elephant Robotics End Effectors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 93. Shenzhen Elephant Robotics Recent Developments/Updates
- Table 94. Global End Effectors Sales Quantity by Manufacturer (2021-2026) & (K Units)
- Table 95. Global End Effectors Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 96. Global End Effectors Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 97. Market Position of Manufacturers in End Effectors, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
- Table 98. Head Office and End Effectors Production Site of Key Manufacturer
- Table 99. End Effectors Market: Company Product Type Footprint
- Table 100. End Effectors Market: Company Product Application Footprint
- Table 101. End Effectors New Market Entrants and Barriers to Market Entry
- Table 102. End Effectors Mergers, Acquisition, Agreements, and Collaborations
- Table 103. Global End Effectors Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
- Table 104. Global End Effectors Sales Quantity by Region (2021-2026) & (K Units)
- Table 105. Global End Effectors Sales Quantity by Region (2027-2032) & (K Units)
- Table 106. Global End Effectors Consumption Value by Region (2021-2026) & (USD Million)
- Table 107. Global End Effectors Consumption Value by Region (2027-2032) & (USD Million)
- Table 108. Global End Effectors Average Price by Region (2021-2026) & (US\$/Unit)
- Table 109. Global End Effectors Average Price by Region (2027-2032) & (US\$/Unit)
- Table 110. Global End Effectors Sales Quantity by Type (2021-2026) & (K Units)
- Table 111. Global End Effectors Sales Quantity by Type (2027-2032) & (K Units)
- Table 112. Global End Effectors Consumption Value by Type (2021-2026) & (USD Million)
- Table 113. Global End Effectors Consumption Value by Type (2027-2032) & (USD Million)
- Table 114. Global End Effectors Average Price by Type (2021-2026) & (US\$/Unit)
- Table 115. Global End Effectors Average Price by Type (2027-2032) & (US\$/Unit)
- Table 116. Global End Effectors Sales Quantity by Application (2021-2026) & (K Units)
- Table 117. Global End Effectors Sales Quantity by Application (2027-2032) & (K Units)
- Table 118. Global End Effectors Consumption Value by Application (2021-2026) & (USD Million)
- Table 119. Global End Effectors Consumption Value by Application (2027-2032) & (USD Million)

Table 120. Global End Effectors Average Price by Application (2021-2026) & (US\$/Unit)

Table 121. Global End Effectors Average Price by Application (2027-2032) & (US\$/Unit)

Table 122. North America End Effectors Sales Quantity by Type (2021-2026) & (K Units)

Table 123. North America End Effectors Sales Quantity by Type (2027-2032) & (K Units)

Table 124. North America End Effectors Sales Quantity by Application (2021-2026) & (K Units)

Table 125. North America End Effectors Sales Quantity by Application (2027-2032) & (K Units)

Table 126. North America End Effectors Sales Quantity by Country (2021-2026) & (K Units)

Table 127. North America End Effectors Sales Quantity by Country (2027-2032) & (K Units)

Table 128. North America End Effectors Consumption Value by Country (2021-2026) & (USD Million)

Table 129. North America End Effectors Consumption Value by Country (2027-2032) & (USD Million)

Table 130. Europe End Effectors Sales Quantity by Type (2021-2026) & (K Units)

Table 131. Europe End Effectors Sales Quantity by Type (2027-2032) & (K Units)

Table 132. Europe End Effectors Sales Quantity by Application (2021-2026) & (K Units)

Table 133. Europe End Effectors Sales Quantity by Application (2027-2032) & (K Units)

Table 134. Europe End Effectors Sales Quantity by Country (2021-2026) & (K Units)

Table 135. Europe End Effectors Sales Quantity by Country (2027-2032) & (K Units)

Table 136. Europe End Effectors Consumption Value by Country (2021-2026) & (USD Million)

Table 137. Europe End Effectors Consumption Value by Country (2027-2032) & (USD Million)

Table 138. Asia-Pacific End Effectors Sales Quantity by Type (2021-2026) & (K Units)

Table 139. Asia-Pacific End Effectors Sales Quantity by Type (2027-2032) & (K Units)

Table 140. Asia-Pacific End Effectors Sales Quantity by Application (2021-2026) & (K Units)

Table 141. Asia-Pacific End Effectors Sales Quantity by Application (2027-2032) & (K Units)

Table 142. Asia-Pacific End Effectors Sales Quantity by Region (2021-2026) & (K Units)

Table 143. Asia-Pacific End Effectors Sales Quantity by Region (2027-2032) & (K Units)

Table 144. Asia-Pacific End Effectors Consumption Value by Region (2021-2026) & (USD Million)

Table 145. Asia-Pacific End Effectors Consumption Value by Region (2027-2032) &

(USD Million)

Table 146. South America End Effectors Sales Quantity by Type (2021-2026) & (K Units)

Table 147. South America End Effectors Sales Quantity by Type (2027-2032) & (K Units)

Table 148. South America End Effectors Sales Quantity by Application (2021-2026) & (K Units)

Table 149. South America End Effectors Sales Quantity by Application (2027-2032) & (K Units)

Table 150. South America End Effectors Sales Quantity by Country (2021-2026) & (K Units)

Table 151. South America End Effectors Sales Quantity by Country (2027-2032) & (K Units)

Table 152. South America End Effectors Consumption Value by Country (2021-2026) & (USD Million)

Table 153. South America End Effectors Consumption Value by Country (2027-2032) & (USD Million)

Table 154. Middle East & Africa End Effectors Sales Quantity by Type (2021-2026) & (K Units)

Table 155. Middle East & Africa End Effectors Sales Quantity by Type (2027-2032) & (K Units)

Table 156. Middle East & Africa End Effectors Sales Quantity by Application (2021-2026) & (K Units)

Table 157. Middle East & Africa End Effectors Sales Quantity by Application (2027-2032) & (K Units)

Table 158. Middle East & Africa End Effectors Sales Quantity by Country (2021-2026) & (K Units)

Table 159. Middle East & Africa End Effectors Sales Quantity by Country (2027-2032) & (K Units)

Table 160. Middle East & Africa End Effectors Consumption Value by Country (2021-2026) & (USD Million)

Table 161. Middle East & Africa End Effectors Consumption Value by Country (2027-2032) & (USD Million)

Table 162. End Effectors Raw Material

Table 163. Key Manufacturers of End Effectors Raw Materials

Table 164. End Effectors Typical Distributors

Table 165. End Effectors Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. End Effectors Picture
- Figure 2. Global End Effectors Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global End Effectors Revenue Market Share by Type in 2025
- Figure 4. Pneumatic Type Examples
- Figure 5. Electric Type Examples
- Figure 6. Global End Effectors Revenue by Material, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global End Effectors Revenue Market Share by Material in 2025
- Figure 8. Rigid Type Examples
- Figure 9. Soft Type Examples
- Figure 10. Global End Effectors Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 11. Global End Effectors Revenue Market Share by Application in 2025
- Figure 12. Automobile Examples
- Figure 13. Electronics and Semiconductor Examples
- Figure 14. Food and Beverage Examples
- Figure 15. Logistics Examples
- Figure 16. Pharmaceutical Examples
- Figure 17. Medical Examples
- Figure 18. Cosmetics Examples
- Figure 19. Others Examples
- Figure 20. Others Examples
- Figure 21. Global End Effectors Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 22. Global End Effectors Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 23. Global End Effectors Sales Quantity (2021-2032) & (K Units)
- Figure 24. Global End Effectors Price (2021-2032) & (US\$/Unit)
- Figure 25. Global End Effectors Sales Quantity Market Share by Manufacturer in 2025
- Figure 26. Global End Effectors Revenue Market Share by Manufacturer in 2025
- Figure 27. Producer Shipments of End Effectors by Manufacturer Sales (\$MM) and Market Share (%): 2025
- Figure 28. Top 3 End Effectors Manufacturer (Revenue) Market Share in 2025
- Figure 29. Top 6 End Effectors Manufacturer (Revenue) Market Share in 2025
- Figure 30. Global End Effectors Sales Quantity Market Share by Region (2021-2032)
- Figure 31. Global End Effectors Consumption Value Market Share by Region

(2021-2032)

Figure 32. North America End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 33. Europe End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 34. Asia-Pacific End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 35. South America End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 36. Middle East & Africa End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 37. Global End Effectors Sales Quantity Market Share by Type (2021-2032)

Figure 38. Global End Effectors Consumption Value Market Share by Type (2021-2032)

Figure 39. Global End Effectors Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. Global End Effectors Sales Quantity Market Share by Application (2021-2032)

Figure 41. Global End Effectors Revenue Market Share by Application (2021-2032)

Figure 42. Global End Effectors Average Price by Application (2021-2032) & (US\$/Unit)

Figure 43. North America End Effectors Sales Quantity Market Share by Type (2021-2032)

Figure 44. North America End Effectors Sales Quantity Market Share by Application (2021-2032)

Figure 45. North America End Effectors Sales Quantity Market Share by Country (2021-2032)

Figure 46. North America End Effectors Consumption Value Market Share by Country (2021-2032)

Figure 47. United States End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 48. Canada End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 49. Mexico End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 50. Europe End Effectors Sales Quantity Market Share by Type (2021-2032)

Figure 51. Europe End Effectors Sales Quantity Market Share by Application (2021-2032)

Figure 52. Europe End Effectors Sales Quantity Market Share by Country (2021-2032)

Figure 53. Europe End Effectors Consumption Value Market Share by Country (2021-2032)

Figure 54. Germany End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 55. France End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 56. United Kingdom End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 57. Russia End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 58. Italy End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 59. Asia-Pacific End Effectors Sales Quantity Market Share by Type (2021-2032)

Figure 60. Asia-Pacific End Effectors Sales Quantity Market Share by Application (2021-2032)

Figure 61. Asia-Pacific End Effectors Sales Quantity Market Share by Region (2021-2032)

Figure 62. Asia-Pacific End Effectors Consumption Value Market Share by Region (2021-2032)

Figure 63. China End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 64. Japan End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 65. South Korea End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 66. India End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 67. Southeast Asia End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 68. Australia End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 69. South America End Effectors Sales Quantity Market Share by Type (2021-2032)

Figure 70. South America End Effectors Sales Quantity Market Share by Application (2021-2032)

Figure 71. South America End Effectors Sales Quantity Market Share by Country (2021-2032)

Figure 72. South America End Effectors Consumption Value Market Share by Country (2021-2032)

Figure 73. Brazil End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 74. Argentina End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 75. Middle East & Africa End Effectors Sales Quantity Market Share by Type (2021-2032)

Figure 76. Middle East & Africa End Effectors Sales Quantity Market Share by Application (2021-2032)

Figure 77. Middle East & Africa End Effectors Sales Quantity Market Share by Country (2021-2032)

Figure 78. Middle East & Africa End Effectors Consumption Value Market Share by Country (2021-2032)

Figure 79. Turkey End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 80. Egypt End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 81. Saudi Arabia End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 82. South Africa End Effectors Consumption Value (2021-2032) & (USD Million)

Figure 83. End Effectors Market Drivers

Figure 84. End Effectors Market Restraints

Figure 85. End Effectors Market Trends

Figure 86. Porters Five Forces Analysis

Figure 87. Manufacturing Cost Structure Analysis of End Effectors in 2025

Figure 88. Manufacturing Process Analysis of End Effectors

Figure 89. End Effectors Industrial Chain

Figure 90. Sales Channel: Direct to End-User vs Distributors

Figure 91. Direct Channel Pros & Cons

Figure 92. Indirect Channel Pros & Cons

Figure 93. Methodology

Figure 94. Research Process and Data Source

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