

# **Global Soft Flexible Grippers Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030**

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## **Abstracts**

According to our (Global Info Research) latest study, the global Soft Flexible Grippers market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

A soft flexible gripper is a robotic end-effector designed with compliant and deformable materials, enabling it to adapt to various shapes and sizes of objects during grasping and manipulation tasks. Unlike rigid grippers, these devices leverage flexibility to conform to the contours of objects, providing a more versatile and gentle approach to handling items. This technology is particularly useful in applications where a delicate touch is required, such as handling fragile or irregularly shaped objects in industries like manufacturing, logistics, and healthcare. The soft flexible gripper enhances dexterity and adaptability in robotic systems, contributing to improved efficiency and precision in object manipulation tasks.

Soft grippers represent a growing market within the field of robotics and automation, offering advantages over traditional rigid grippers in terms of adaptability, versatility, and safety. These grippers, often made from flexible materials such as elastomers, mimic the compliance and dexterity of the human hand, making them suitable for handling delicate objects and complex shapes. The market for soft grippers is expected to witness substantial growth due to increasing demand across industries like manufacturing, e-commerce, and healthcare. Future developments are anticipated to focus on enhancing gripping efficiency, improving sensory feedback for better object recognition, and integrating smart materials and technologies for increased automation. Additionally, advancements in soft robotics, artificial intelligence, and machine learning are likely to contribute to the evolution of soft grippers, enabling them to perform

intricate tasks with greater precision. The market outlook suggests a promising trajectory for soft grippers, as they continue to play a pivotal role in the progression of flexible and adaptable robotic systems.

The Global Info Research report includes an overview of the development of the Soft Flexible Grippers industry chain, the market status of Food (Actuation, Controlled Stiffness), Industrial (Actuation, Controlled Stiffness), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Soft Flexible Grippers.

Regionally, the report analyzes the Soft Flexible Grippers markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Soft Flexible Grippers market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Soft Flexible Grippers market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Soft Flexible Grippers industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Actuation, Controlled Stiffness).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Soft Flexible Grippers market.

**Regional Analysis:** The report involves examining the Soft Flexible Grippers market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Soft Flexible Grippers market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Soft Flexible Grippers:

**Company Analysis:** Report covers individual Soft Flexible Grippers manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Soft Flexible Grippers. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Food, Industrial).

**Technology Analysis:** Report covers specific technologies relevant to Soft Flexible Grippers. It assesses the current state, advancements, and potential future developments in Soft Flexible Grippers areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Soft Flexible Grippers market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Soft Flexible Grippers market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

#### Actuation

Controlled Stiffness

Controlled Adhesion

#### Market segment by Application

Food

Industrial

Automobile

Others

#### Major players covered

ONROBOT

Soft Robotics Tech

SoftGripping

ROCHU

Ubiros

Applied Robotics

PIAB

Empire Robotics

iCobots

#### 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 Soft Flexible Grippers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Soft Flexible Grippers, with price, sales, revenue and global market share of Soft Flexible Grippers from 2019 to 2024.

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

Chapter 4, the Soft Flexible Grippers breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Soft Flexible Grippers market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Soft Flexible

Grippers.

Chapter 14 and 15, to describe Soft Flexible Grippers sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Soft Flexible Grippers
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
  - 1.3.1 Overview: Global Soft Flexible Grippers Consumption Value by Type: 2019 Versus 2023 Versus 2030
  - 1.3.2 Actuation
  - 1.3.3 Controlled Stiffness
  - 1.3.4 Controlled Adhesion
- 1.4 Market Analysis by Application
  - 1.4.1 Overview: Global Soft Flexible Grippers Consumption Value by Application: 2019 Versus 2023 Versus 2030
  - 1.4.2 Food
  - 1.4.3 Industrial
  - 1.4.4 Automobile
  - 1.4.5 Others
- 1.5 Global Soft Flexible Grippers Market Size & Forecast
  - 1.5.1 Global Soft Flexible Grippers Consumption Value (2019 & 2023 & 2030)
  - 1.5.2 Global Soft Flexible Grippers Sales Quantity (2019-2030)
  - 1.5.3 Global Soft Flexible Grippers Average Price (2019-2030)

### 2 MANUFACTURERS PROFILES

- 2.1 ONROBOT
  - 2.1.1 ONROBOT Details
  - 2.1.2 ONROBOT Major Business
  - 2.1.3 ONROBOT Soft Flexible Grippers Product and Services
  - 2.1.4 ONROBOT Soft Flexible Grippers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.1.5 ONROBOT Recent Developments/Updates
- 2.2 Soft Robotics Tech
  - 2.2.1 Soft Robotics Tech Details
  - 2.2.2 Soft Robotics Tech Major Business
  - 2.2.3 Soft Robotics Tech Soft Flexible Grippers Product and Services
  - 2.2.4 Soft Robotics Tech Soft Flexible Grippers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

- 2.2.5 Soft Robotics Tech Recent Developments/Updates
- 2.3 SoftGripping
  - 2.3.1 SoftGripping Details
  - 2.3.2 SoftGripping Major Business
  - 2.3.3 SoftGripping Soft Flexible Grippers Product and Services
  - 2.3.4 SoftGripping Soft Flexible Grippers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.3.5 SoftGripping Recent Developments/Updates
- 2.4 ROCHU
  - 2.4.1 ROCHU Details
  - 2.4.2 ROCHU Major Business
  - 2.4.3 ROCHU Soft Flexible Grippers Product and Services
  - 2.4.4 ROCHU Soft Flexible Grippers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.4.5 ROCHU Recent Developments/Updates
- 2.5 Ubiros
  - 2.5.1 Ubiros Details
  - 2.5.2 Ubiros Major Business
  - 2.5.3 Ubiros Soft Flexible Grippers Product and Services
  - 2.5.4 Ubiros Soft Flexible Grippers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.5.5 Ubiros Recent Developments/Updates
- 2.6 Applied Robotics
  - 2.6.1 Applied Robotics Details
  - 2.6.2 Applied Robotics Major Business
  - 2.6.3 Applied Robotics Soft Flexible Grippers Product and Services
  - 2.6.4 Applied Robotics Soft Flexible Grippers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.6.5 Applied Robotics Recent Developments/Updates
- 2.7 PIAB
  - 2.7.1 PIAB Details
  - 2.7.2 PIAB Major Business
  - 2.7.3 PIAB Soft Flexible Grippers Product and Services
  - 2.7.4 PIAB Soft Flexible Grippers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.7.5 PIAB Recent Developments/Updates
- 2.8 Empire Robotics
  - 2.8.1 Empire Robotics Details
  - 2.8.2 Empire Robotics Major Business



- 2.8.3 Empire Robotics Soft Flexible Grippers Product and Services
- 2.8.4 Empire Robotics Soft Flexible Grippers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.8.5 Empire Robotics Recent Developments/Updates
- 2.9 iCobots
  - 2.9.1 iCobots Details
  - 2.9.2 iCobots Major Business
  - 2.9.3 iCobots Soft Flexible Grippers Product and Services
  - 2.9.4 iCobots Soft Flexible Grippers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.9.5 iCobots Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: SOFT FLEXIBLE GRIPPERS BY MANUFACTURER**

- 3.1 Global Soft Flexible Grippers Sales Quantity by Manufacturer (2019-2024)
- 3.2 Global Soft Flexible Grippers Revenue by Manufacturer (2019-2024)
- 3.3 Global Soft Flexible Grippers Average Price by Manufacturer (2019-2024)
- 3.4 Market Share Analysis (2023)
  - 3.4.1 Producer Shipments of Soft Flexible Grippers by Manufacturer Revenue (\$MM) and Market Share (%): 2023
  - 3.4.2 Top 3 Soft Flexible Grippers Manufacturer Market Share in 2023
  - 3.4.2 Top 6 Soft Flexible Grippers Manufacturer Market Share in 2023
- 3.5 Soft Flexible Grippers Market: Overall Company Footprint Analysis
  - 3.5.1 Soft Flexible Grippers Market: Region Footprint
  - 3.5.2 Soft Flexible Grippers Market: Company Product Type Footprint
  - 3.5.3 Soft Flexible Grippers 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 Soft Flexible Grippers Market Size by Region
  - 4.1.1 Global Soft Flexible Grippers Sales Quantity by Region (2019-2030)
  - 4.1.2 Global Soft Flexible Grippers Consumption Value by Region (2019-2030)
  - 4.1.3 Global Soft Flexible Grippers Average Price by Region (2019-2030)
- 4.2 North America Soft Flexible Grippers Consumption Value (2019-2030)
- 4.3 Europe Soft Flexible Grippers Consumption Value (2019-2030)
- 4.4 Asia-Pacific Soft Flexible Grippers Consumption Value (2019-2030)

4.5 South America Soft Flexible Grippers Consumption Value (2019-2030)

4.6 Middle East and Africa Soft Flexible Grippers Consumption Value (2019-2030)

## **5 MARKET SEGMENT BY TYPE**

5.1 Global Soft Flexible Grippers Sales Quantity by Type (2019-2030)

5.2 Global Soft Flexible Grippers Consumption Value by Type (2019-2030)

5.3 Global Soft Flexible Grippers Average Price by Type (2019-2030)

## **6 MARKET SEGMENT BY APPLICATION**

6.1 Global Soft Flexible Grippers Sales Quantity by Application (2019-2030)

6.2 Global Soft Flexible Grippers Consumption Value by Application (2019-2030)

6.3 Global Soft Flexible Grippers Average Price by Application (2019-2030)

## **7 NORTH AMERICA**

7.1 North America Soft Flexible Grippers Sales Quantity by Type (2019-2030)

7.2 North America Soft Flexible Grippers Sales Quantity by Application (2019-2030)

7.3 North America Soft Flexible Grippers Market Size by Country

7.3.1 North America Soft Flexible Grippers Sales Quantity by Country (2019-2030)

7.3.2 North America Soft Flexible Grippers Consumption Value by Country  
(2019-2030)

7.3.3 United States Market Size and Forecast (2019-2030)

7.3.4 Canada Market Size and Forecast (2019-2030)

7.3.5 Mexico Market Size and Forecast (2019-2030)

## **8 EUROPE**

8.1 Europe Soft Flexible Grippers Sales Quantity by Type (2019-2030)

8.2 Europe Soft Flexible Grippers Sales Quantity by Application (2019-2030)

8.3 Europe Soft Flexible Grippers Market Size by Country

8.3.1 Europe Soft Flexible Grippers Sales Quantity by Country (2019-2030)

8.3.2 Europe Soft Flexible Grippers Consumption Value by Country (2019-2030)

8.3.3 Germany Market Size and Forecast (2019-2030)

8.3.4 France Market Size and Forecast (2019-2030)

8.3.5 United Kingdom Market Size and Forecast (2019-2030)

8.3.6 Russia Market Size and Forecast (2019-2030)

8.3.7 Italy Market Size and Forecast (2019-2030)

## **9 ASIA-PACIFIC**

- 9.1 Asia-Pacific Soft Flexible Grippers Sales Quantity by Type (2019-2030)
- 9.2 Asia-Pacific Soft Flexible Grippers Sales Quantity by Application (2019-2030)
- 9.3 Asia-Pacific Soft Flexible Grippers Market Size by Region
  - 9.3.1 Asia-Pacific Soft Flexible Grippers Sales Quantity by Region (2019-2030)
  - 9.3.2 Asia-Pacific Soft Flexible Grippers Consumption Value by Region (2019-2030)
  - 9.3.3 China Market Size and Forecast (2019-2030)
  - 9.3.4 Japan Market Size and Forecast (2019-2030)
  - 9.3.5 Korea Market Size and Forecast (2019-2030)
  - 9.3.6 India Market Size and Forecast (2019-2030)
  - 9.3.7 Southeast Asia Market Size and Forecast (2019-2030)
  - 9.3.8 Australia Market Size and Forecast (2019-2030)

## **10 SOUTH AMERICA**

- 10.1 South America Soft Flexible Grippers Sales Quantity by Type (2019-2030)
- 10.2 South America Soft Flexible Grippers Sales Quantity by Application (2019-2030)
- 10.3 South America Soft Flexible Grippers Market Size by Country
  - 10.3.1 South America Soft Flexible Grippers Sales Quantity by Country (2019-2030)
  - 10.3.2 South America Soft Flexible Grippers Consumption Value by Country (2019-2030)
  - 10.3.3 Brazil Market Size and Forecast (2019-2030)
  - 10.3.4 Argentina Market Size and Forecast (2019-2030)

## **11 MIDDLE EAST & AFRICA**

- 11.1 Middle East & Africa Soft Flexible Grippers Sales Quantity by Type (2019-2030)
- 11.2 Middle East & Africa Soft Flexible Grippers Sales Quantity by Application (2019-2030)
- 11.3 Middle East & Africa Soft Flexible Grippers Market Size by Country
  - 11.3.1 Middle East & Africa Soft Flexible Grippers Sales Quantity by Country (2019-2030)
  - 11.3.2 Middle East & Africa Soft Flexible Grippers Consumption Value by Country (2019-2030)
  - 11.3.3 Turkey Market Size and Forecast (2019-2030)
  - 11.3.4 Egypt Market Size and Forecast (2019-2030)
  - 11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)

### 11.3.6 South Africa Market Size and Forecast (2019-2030)

## **12 MARKET DYNAMICS**

- 12.1 Soft Flexible Grippers Market Drivers
- 12.2 Soft Flexible Grippers Market Restraints
- 12.3 Soft Flexible Grippers 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 Soft Flexible Grippers and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Soft Flexible Grippers
- 13.3 Soft Flexible Grippers Production Process
- 13.4 Soft Flexible Grippers Industrial Chain

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 Soft Flexible Grippers Typical Distributors
- 14.3 Soft Flexible Grippers 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 Soft Flexible Grippers Consumption Value by Type, (USD Million), 2019 & 2023 & 2030
- Table 2. Global Soft Flexible Grippers Consumption Value by Application, (USD Million), 2019 & 2023 & 2030
- Table 3. ONROBOT Basic Information, Manufacturing Base and Competitors
- Table 4. ONROBOT Major Business
- Table 5. ONROBOT Soft Flexible Grippers Product and Services
- Table 6. ONROBOT Soft Flexible Grippers Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 7. ONROBOT Recent Developments/Updates
- Table 8. Soft Robotics Tech Basic Information, Manufacturing Base and Competitors
- Table 9. Soft Robotics Tech Major Business
- Table 10. Soft Robotics Tech Soft Flexible Grippers Product and Services
- Table 11. Soft Robotics Tech Soft Flexible Grippers Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 12. Soft Robotics Tech Recent Developments/Updates
- Table 13. SoftGripping Basic Information, Manufacturing Base and Competitors
- Table 14. SoftGripping Major Business
- Table 15. SoftGripping Soft Flexible Grippers Product and Services
- Table 16. SoftGripping Soft Flexible Grippers Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 17. SoftGripping Recent Developments/Updates
- Table 18. ROCHU Basic Information, Manufacturing Base and Competitors
- Table 19. ROCHU Major Business
- Table 20. ROCHU Soft Flexible Grippers Product and Services
- Table 21. ROCHU Soft Flexible Grippers Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 22. ROCHU Recent Developments/Updates
- Table 23. Ubiros Basic Information, Manufacturing Base and Competitors
- Table 24. Ubiros Major Business
- Table 25. Ubiros Soft Flexible Grippers Product and Services
- Table 26. Ubiros Soft Flexible Grippers Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 27. Ubiros Recent Developments/Updates
- Table 28. Applied Robotics Basic Information, Manufacturing Base and Competitors

Table 29. Applied Robotics Major Business
Table 30. Applied Robotics Soft Flexible Grippers Product and Services
Table 31. Applied Robotics Soft Flexible Grippers Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
Table 32. Applied Robotics Recent Developments/Updates
Table 33. PIAB Basic Information, Manufacturing Base and Competitors
Table 34. PIAB Major Business
Table 35. PIAB Soft Flexible Grippers Product and Services
Table 36. PIAB Soft Flexible Grippers Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
Table 37. PIAB Recent Developments/Updates
Table 38. Empire Robotics Basic Information, Manufacturing Base and Competitors
Table 39. Empire Robotics Major Business
Table 40. Empire Robotics Soft Flexible Grippers Product and Services
Table 41. Empire Robotics Soft Flexible Grippers Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
Table 42. Empire Robotics Recent Developments/Updates
Table 43. iCobots Basic Information, Manufacturing Base and Competitors
Table 44. iCobots Major Business
Table 45. iCobots Soft Flexible Grippers Product and Services
Table 46. iCobots Soft Flexible Grippers Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
Table 47. iCobots Recent Developments/Updates
Table 48. Global Soft Flexible Grippers Sales Quantity by Manufacturer (2019-2024) & (K Units)
Table 49. Global Soft Flexible Grippers Revenue by Manufacturer (2019-2024) & (USD Million)
Table 50. Global Soft Flexible Grippers Average Price by Manufacturer (2019-2024) & (US\$/Unit)
Table 51. Market Position of Manufacturers in Soft Flexible Grippers, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023
Table 52. Head Office and Soft Flexible Grippers Production Site of Key Manufacturer
Table 53. Soft Flexible Grippers Market: Company Product Type Footprint
Table 54. Soft Flexible Grippers Market: Company Product Application Footprint
Table 55. Soft Flexible Grippers New Market Entrants and Barriers to Market Entry
Table 56. Soft Flexible Grippers Mergers, Acquisition, Agreements, and Collaborations
Table 57. Global Soft Flexible Grippers Sales Quantity by Region (2019-2024) & (K Units)
Table 58. Global Soft Flexible Grippers Sales Quantity by Region (2025-2030) & (K



Units)

Table 59. Global Soft Flexible Grippers Consumption Value by Region (2019-2024) & (USD Million)

Table 60. Global Soft Flexible Grippers Consumption Value by Region (2025-2030) & (USD Million)

Table 61. Global Soft Flexible Grippers Average Price by Region (2019-2024) & (US\$/Unit)

Table 62. Global Soft Flexible Grippers Average Price by Region (2025-2030) & (US\$/Unit)

Table 63. Global Soft Flexible Grippers Sales Quantity by Type (2019-2024) & (K Units)

Table 64. Global Soft Flexible Grippers Sales Quantity by Type (2025-2030) & (K Units)

Table 65. Global Soft Flexible Grippers Consumption Value by Type (2019-2024) & (USD Million)

Table 66. Global Soft Flexible Grippers Consumption Value by Type (2025-2030) & (USD Million)

Table 67. Global Soft Flexible Grippers Average Price by Type (2019-2024) & (US\$/Unit)

Table 68. Global Soft Flexible Grippers Average Price by Type (2025-2030) & (US\$/Unit)

Table 69. Global Soft Flexible Grippers Sales Quantity by Application (2019-2024) & (K Units)

Table 70. Global Soft Flexible Grippers Sales Quantity by Application (2025-2030) & (K Units)

Table 71. Global Soft Flexible Grippers Consumption Value by Application (2019-2024) & (USD Million)

Table 72. Global Soft Flexible Grippers Consumption Value by Application (2025-2030) & (USD Million)

Table 73. Global Soft Flexible Grippers Average Price by Application (2019-2024) & (US\$/Unit)

Table 74. Global Soft Flexible Grippers Average Price by Application (2025-2030) & (US\$/Unit)

Table 75. North America Soft Flexible Grippers Sales Quantity by Type (2019-2024) & (K Units)

Table 76. North America Soft Flexible Grippers Sales Quantity by Type (2025-2030) & (K Units)

Table 77. North America Soft Flexible Grippers Sales Quantity by Application (2019-2024) & (K Units)

Table 78. North America Soft Flexible Grippers Sales Quantity by Application (2025-2030) & (K Units)

Table 79. North America Soft Flexible Grippers Sales Quantity by Country (2019-2024) & (K Units)

Table 80. North America Soft Flexible Grippers Sales Quantity by Country (2025-2030) & (K Units)

Table 81. North America Soft Flexible Grippers Consumption Value by Country (2019-2024) & (USD Million)

Table 82. North America Soft Flexible Grippers Consumption Value by Country (2025-2030) & (USD Million)

Table 83. Europe Soft Flexible Grippers Sales Quantity by Type (2019-2024) & (K Units)

Table 84. Europe Soft Flexible Grippers Sales Quantity by Type (2025-2030) & (K Units)

Table 85. Europe Soft Flexible Grippers Sales Quantity by Application (2019-2024) & (K Units)

Table 86. Europe Soft Flexible Grippers Sales Quantity by Application (2025-2030) & (K Units)

Table 87. Europe Soft Flexible Grippers Sales Quantity by Country (2019-2024) & (K Units)

Table 88. Europe Soft Flexible Grippers Sales Quantity by Country (2025-2030) & (K Units)

Table 89. Europe Soft Flexible Grippers Consumption Value by Country (2019-2024) & (USD Million)

Table 90. Europe Soft Flexible Grippers Consumption Value by Country (2025-2030) & (USD Million)

Table 91. Asia-Pacific Soft Flexible Grippers Sales Quantity by Type (2019-2024) & (K Units)

Table 92. Asia-Pacific Soft Flexible Grippers Sales Quantity by Type (2025-2030) & (K Units)

Table 93. Asia-Pacific Soft Flexible Grippers Sales Quantity by Application (2019-2024) & (K Units)

Table 94. Asia-Pacific Soft Flexible Grippers Sales Quantity by Application (2025-2030) & (K Units)

Table 95. Asia-Pacific Soft Flexible Grippers Sales Quantity by Region (2019-2024) & (K Units)

Table 96. Asia-Pacific Soft Flexible Grippers Sales Quantity by Region (2025-2030) & (K Units)

Table 97. Asia-Pacific Soft Flexible Grippers Consumption Value by Region (2019-2024) & (USD Million)

Table 98. Asia-Pacific Soft Flexible Grippers Consumption Value by Region



(2025-2030) & (USD Million)

Table 99. South America Soft Flexible Grippers Sales Quantity by Type (2019-2024) & (K Units)

Table 100. South America Soft Flexible Grippers Sales Quantity by Type (2025-2030) & (K Units)

Table 101. South America Soft Flexible Grippers Sales Quantity by Application (2019-2024) & (K Units)

Table 102. South America Soft Flexible Grippers Sales Quantity by Application (2025-2030) & (K Units)

Table 103. South America Soft Flexible Grippers Sales Quantity by Country (2019-2024) & (K Units)

Table 104. South America Soft Flexible Grippers Sales Quantity by Country (2025-2030) & (K Units)

Table 105. South America Soft Flexible Grippers Consumption Value by Country (2019-2024) & (USD Million)

Table 106. South America Soft Flexible Grippers Consumption Value by Country (2025-2030) & (USD Million)

Table 107. Middle East & Africa Soft Flexible Grippers Sales Quantity by Type (2019-2024) & (K Units)

Table 108. Middle East & Africa Soft Flexible Grippers Sales Quantity by Type (2025-2030) & (K Units)

Table 109. Middle East & Africa Soft Flexible Grippers Sales Quantity by Application (2019-2024) & (K Units)

Table 110. Middle East & Africa Soft Flexible Grippers Sales Quantity by Application (2025-2030) & (K Units)

Table 111. Middle East & Africa Soft Flexible Grippers Sales Quantity by Region (2019-2024) & (K Units)

Table 112. Middle East & Africa Soft Flexible Grippers Sales Quantity by Region (2025-2030) & (K Units)

Table 113. Middle East & Africa Soft Flexible Grippers Consumption Value by Region (2019-2024) & (USD Million)

Table 114. Middle East & Africa Soft Flexible Grippers Consumption Value by Region (2025-2030) & (USD Million)

Table 115. Soft Flexible Grippers Raw Material

Table 116. Key Manufacturers of Soft Flexible Grippers Raw Materials

Table 117. Soft Flexible Grippers Typical Distributors

Table 118. Soft Flexible Grippers Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Soft Flexible Grippers Picture

Figure 2. Global Soft Flexible Grippers Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global Soft Flexible Grippers Consumption Value Market Share by Type in 2023

Figure 4. Actuation Examples

Figure 5. Controlled Stiffness Examples

Figure 6. Controlled Adhesion Examples

Figure 7. Global Soft Flexible Grippers Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 8. Global Soft Flexible Grippers Consumption Value Market Share by Application in 2023

Figure 9. Food Examples

Figure 10. Industrial Examples

Figure 11. Automobile Examples

Figure 12. Others Examples

Figure 13. Global Soft Flexible Grippers Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 14. Global Soft Flexible Grippers Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 15. Global Soft Flexible Grippers Sales Quantity (2019-2030) & (K Units)

Figure 16. Global Soft Flexible Grippers Average Price (2019-2030) & (US\$/Unit)

Figure 17. Global Soft Flexible Grippers Sales Quantity Market Share by Manufacturer in 2023

Figure 18. Global Soft Flexible Grippers Consumption Value Market Share by Manufacturer in 2023

Figure 19. Producer Shipments of Soft Flexible Grippers by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023

Figure 20. Top 3 Soft Flexible Grippers Manufacturer (Consumption Value) Market Share in 2023

Figure 21. Top 6 Soft Flexible Grippers Manufacturer (Consumption Value) Market Share in 2023

Figure 22. Global Soft Flexible Grippers Sales Quantity Market Share by Region (2019-2030)

Figure 23. Global Soft Flexible Grippers Consumption Value Market Share by Region

(2019-2030)

Figure 24. North America Soft Flexible Grippers Consumption Value (2019-2030) & (USD Million)

Figure 25. Europe Soft Flexible Grippers Consumption Value (2019-2030) & (USD Million)

Figure 26. Asia-Pacific Soft Flexible Grippers Consumption Value (2019-2030) & (USD Million)

Figure 27. South America Soft Flexible Grippers Consumption Value (2019-2030) & (USD Million)

Figure 28. Middle East & Africa Soft Flexible Grippers Consumption Value (2019-2030) & (USD Million)

Figure 29. Global Soft Flexible Grippers Sales Quantity Market Share by Type (2019-2030)

Figure 30. Global Soft Flexible Grippers Consumption Value Market Share by Type (2019-2030)

Figure 31. Global Soft Flexible Grippers Average Price by Type (2019-2030) & (US\$/Unit)

Figure 32. Global Soft Flexible Grippers Sales Quantity Market Share by Application (2019-2030)

Figure 33. Global Soft Flexible Grippers Consumption Value Market Share by Application (2019-2030)

Figure 34. Global Soft Flexible Grippers Average Price by Application (2019-2030) & (US\$/Unit)

Figure 35. North America Soft Flexible Grippers Sales Quantity Market Share by Type (2019-2030)

Figure 36. North America Soft Flexible Grippers Sales Quantity Market Share by Application (2019-2030)

Figure 37. North America Soft Flexible Grippers Sales Quantity Market Share by Country (2019-2030)

Figure 38. North America Soft Flexible Grippers Consumption Value Market Share by Country (2019-2030)

Figure 39. United States Soft Flexible Grippers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 40. Canada Soft Flexible Grippers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 41. Mexico Soft Flexible Grippers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 42. Europe Soft Flexible Grippers Sales Quantity Market Share by Type (2019-2030)

Figure 43. Europe Soft Flexible Grippers Sales Quantity Market Share by Application (2019-2030)

Figure 44. Europe Soft Flexible Grippers Sales Quantity Market Share by Country (2019-2030)

Figure 45. Europe Soft Flexible Grippers Consumption Value Market Share by Country (2019-2030)

Figure 46. Germany Soft Flexible Grippers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 47. France Soft Flexible Grippers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 48. United Kingdom Soft Flexible Grippers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 49. Russia Soft Flexible Grippers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 50. Italy Soft Flexible Grippers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 51. Asia-Pacific Soft Flexible Grippers Sales Quantity Market Share by Type (2019-2030)

Figure 52. Asia-Pacific Soft Flexible Grippers Sales Quantity Market Share by Application (2019-2030)

Figure 53. Asia-Pacific Soft Flexible Grippers Sales Quantity Market Share by Region (2019-2030)

Figure 54. Asia-Pacific Soft Flexible Grippers Consumption Value Market Share by Region (2019-2030)

Figure 55. China Soft Flexible Grippers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 56. Japan Soft Flexible Grippers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 57. Korea Soft Flexible Grippers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 58. India Soft Flexible Grippers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 59. Southeast Asia Soft Flexible Grippers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 60. Australia Soft Flexible Grippers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 61. South America Soft Flexible Grippers Sales Quantity Market Share by Type (2019-2030)

Figure 62. South America Soft Flexible Grippers Sales Quantity Market Share by

Application (2019-2030)

Figure 63. South America Soft Flexible Grippers Sales Quantity Market Share by Country (2019-2030)

Figure 64. South America Soft Flexible Grippers Consumption Value Market Share by Country (2019-2030)

Figure 65. Brazil Soft Flexible Grippers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 66. Argentina Soft Flexible Grippers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 67. Middle East & Africa Soft Flexible Grippers Sales Quantity Market Share by Type (2019-2030)

Figure 68. Middle East & Africa Soft Flexible Grippers Sales Quantity Market Share by Application (2019-2030)

Figure 69. Middle East & Africa Soft Flexible Grippers Sales Quantity Market Share by Region (2019-2030)

Figure 70. Middle East & Africa Soft Flexible Grippers Consumption Value Market Share by Region (2019-2030)

Figure 71. Turkey Soft Flexible Grippers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 72. Egypt Soft Flexible Grippers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 73. Saudi Arabia Soft Flexible Grippers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 74. South Africa Soft Flexible Grippers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 75. Soft Flexible Grippers Market Drivers

Figure 76. Soft Flexible Grippers Market Restraints

Figure 77. Soft Flexible Grippers Market Trends

Figure 78. Porters Five Forces Analysis

Figure 79. Manufacturing Cost Structure Analysis of Soft Flexible Grippers in 2023

Figure 80. Manufacturing Process Analysis of Soft Flexible Grippers

Figure 81. Soft Flexible Grippers Industrial Chain

Figure 82. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 83. Direct Channel Pros & Cons

Figure 84. Indirect Channel Pros & Cons

Figure 85. Methodology

Figure 86. Research Process and Data Source

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