

Global CNC Glass Scale Market Growth 2025-2031

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Abstracts

The global CNC Glass Scale market size is predicted to grow from US\$ 295 million in 2025 to US\$ 397 million in 2031; it is expected to grow at a CAGR of 5.1% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

This report studies the glass linear scales for CNC machine tools., linear scales also called linear encoders. Linear encoders measure the position of linear axes without intervening mechanical elements. This eliminates a series of potential error sources such as backlash, pitch error, or heating of the recirculating ball screw. Wherever rigorous position accuracy and high machining speeds are needed, linear encoders are essential.

Currently the key manufacturers of CNC Glass Scales include HEIDENHAIN, Fagor Automation, Renishaw, Mitutoyo, TR-Electronic GmbH, TR-Electronic GmbH, and Givi Misure. Among them, HEIDENHAIN is the world's largest linear encoders manufacturer, accounting for more than 50% of the global market share.

CNC machine tools are the largest application market for optical scales. According to our research, the global CNC machine tool market size was US\$ 60 billion in 2023 and is expected to reach US\$90 billion in 2030. The global key manufacturers of CNC machine tools include Yamazaki Mazak, Trumpf, Okuma Corporation, Makino, JTEKT Corporation, DMG Mori Seiki, DN Solutions, Grob-Werke, Haas Automation, Hermle, etc. In 2023, the global top five players had a share approximately 20 % in terms of revenue.

LP Information, Inc. (LPI) ' newest research report, the “CNC Glass Scale Industry Forecast” looks at past sales and reviews total world CNC Glass Scale sales in 2024, providing a comprehensive analysis by region and market sector of projected CNC Glass Scale sales for 2025 through 2031. With CNC Glass Scale sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world CNC Glass Scale industry.

This Insight Report provides a comprehensive analysis of the global CNC Glass Scale 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 CNC Glass Scale portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global CNC Glass Scale market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for CNC Glass Scale 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 CNC Glass Scale.

This report presents a comprehensive overview, market shares, and growth opportunities of CNC Glass Scale market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Absolute Linear Encoders

Incremental Linear Encoders

Segmentation by Application:

CNC Machining Centers

CNC Lathes

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.

HEIDENHAIN

Fagor Automation

Renishaw

Mitutoyo

TR-Electronic GmbH

Precizika Metrology

Givi Misure

Elbo Controlli Srl

Celera Motion (MICROE)

Atek Electronic Sensor Technologies

SINO/Guangzhou Lokshun CNC Equipment

SOXIN

Changchun Yuheng Optics

Dongguan Ouxin Precision Instrument

Key Questions Addressed in this Report

What is the 10-year outlook for the global CNC Glass Scale market?

What factors are driving CNC Glass Scale market growth, globally and by region?

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

How do CNC Glass Scale market opportunities vary by end market size?

How does CNC Glass Scale 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 CNC Glass Scale Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for CNC Glass Scale by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for CNC Glass Scale by Country/Region, 2020, 2024 & 2031
- 2.2 CNC Glass Scale Segment by Type
 - 2.2.1 Absolute Linear Encoders
 - 2.2.2 Incremental Linear Encoders
- 2.3 CNC Glass Scale Sales by Type
 - 2.3.1 Global CNC Glass Scale Sales Market Share by Type (2020-2025)
 - 2.3.2 Global CNC Glass Scale Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global CNC Glass Scale Sale Price by Type (2020-2025)
- 2.4 CNC Glass Scale Segment by Application
 - 2.4.1 CNC Machining Centers
 - 2.4.2 CNC Lathes
- 2.5 CNC Glass Scale Sales by Application
 - 2.5.1 Global CNC Glass Scale Sale Market Share by Application (2020-2025)
 - 2.5.2 Global CNC Glass Scale Revenue and Market Share by Application (2020-2025)
 - 2.5.3 Global CNC Glass Scale Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

- 3.1 Global CNC Glass Scale Breakdown Data by Company

- 3.1.1 Global CNC Glass Scale Annual Sales by Company (2020-2025)
- 3.1.2 Global CNC Glass Scale Sales Market Share by Company (2020-2025)
- 3.2 Global CNC Glass Scale Annual Revenue by Company (2020-2025)
 - 3.2.1 Global CNC Glass Scale Revenue by Company (2020-2025)
 - 3.2.2 Global CNC Glass Scale Revenue Market Share by Company (2020-2025)
- 3.3 Global CNC Glass Scale Sale Price by Company
- 3.4 Key Manufacturers CNC Glass Scale Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers CNC Glass Scale Product Location Distribution
 - 3.4.2 Players CNC Glass Scale Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR CNC GLASS SCALE BY GEOGRAPHIC REGION

- 4.1 World Historic CNC Glass Scale Market Size by Geographic Region (2020-2025)
 - 4.1.1 Global CNC Glass Scale Annual Sales by Geographic Region (2020-2025)
 - 4.1.2 Global CNC Glass Scale Annual Revenue by Geographic Region (2020-2025)
- 4.2 World Historic CNC Glass Scale Market Size by Country/Region (2020-2025)
 - 4.2.1 Global CNC Glass Scale Annual Sales by Country/Region (2020-2025)
 - 4.2.2 Global CNC Glass Scale Annual Revenue by Country/Region (2020-2025)
- 4.3 Americas CNC Glass Scale Sales Growth
- 4.4 APAC CNC Glass Scale Sales Growth
- 4.5 Europe CNC Glass Scale Sales Growth
- 4.6 Middle East & Africa CNC Glass Scale Sales Growth

5 AMERICAS

- 5.1 Americas CNC Glass Scale Sales by Country
 - 5.1.1 Americas CNC Glass Scale Sales by Country (2020-2025)
 - 5.1.2 Americas CNC Glass Scale Revenue by Country (2020-2025)
- 5.2 Americas CNC Glass Scale Sales by Type (2020-2025)
- 5.3 Americas CNC Glass Scale Sales by Application (2020-2025)
- 5.4 United States
- 5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC CNC Glass Scale Sales by Region

6.1.1 APAC CNC Glass Scale Sales by Region (2020-2025)

6.1.2 APAC CNC Glass Scale Revenue by Region (2020-2025)

6.2 APAC CNC Glass Scale Sales by Type (2020-2025)

6.3 APAC CNC Glass Scale Sales by Application (2020-2025)

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 CNC Glass Scale by Country

7.1.1 Europe CNC Glass Scale Sales by Country (2020-2025)

7.1.2 Europe CNC Glass Scale Revenue by Country (2020-2025)

7.2 Europe CNC Glass Scale Sales by Type (2020-2025)

7.3 Europe CNC Glass Scale Sales by Application (2020-2025)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa CNC Glass Scale by Country

8.1.1 Middle East & Africa CNC Glass Scale Sales by Country (2020-2025)

8.1.2 Middle East & Africa CNC Glass Scale Revenue by Country (2020-2025)

8.2 Middle East & Africa CNC Glass Scale Sales by Type (2020-2025)

8.3 Middle East & Africa CNC Glass Scale Sales by Application (2020-2025)

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 CNC Glass Scale

10.3 Manufacturing Process Analysis of CNC Glass Scale

10.4 Industry Chain Structure of CNC Glass Scale

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 CNC Glass Scale Distributors

11.3 CNC Glass Scale Customer

12 WORLD FORECAST REVIEW FOR CNC GLASS SCALE BY GEOGRAPHIC REGION

12.1 Global CNC Glass Scale Market Size Forecast by Region

12.1.1 Global CNC Glass Scale Forecast by Region (2026-2031)

12.1.2 Global CNC Glass Scale Annual Revenue Forecast by Region (2026-2031)

12.2 Americas Forecast by Country (2026-2031)

12.3 APAC Forecast by Region (2026-2031)

12.4 Europe Forecast by Country (2026-2031)

12.5 Middle East & Africa Forecast by Country (2026-2031)

12.6 Global CNC Glass Scale Forecast by Type (2026-2031)

12.7 Global CNC Glass Scale Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 HEIDENHAIN

13.1.1 HEIDENHAIN Company Information

13.1.2 HEIDENHAIN CNC Glass Scale Product Portfolios and Specifications

13.1.3 HEIDENHAIN CNC Glass Scale Sales, Revenue, Price and Gross Margin
(2020-2025)

13.1.4 HEIDENHAIN Main Business Overview

13.1.5 HEIDENHAIN Latest Developments

13.2 Fagor Automation

13.2.1 Fagor Automation Company Information

13.2.2 Fagor Automation CNC Glass Scale Product Portfolios and Specifications

13.2.3 Fagor Automation CNC Glass Scale Sales, Revenue, Price and Gross Margin
(2020-2025)

13.2.4 Fagor Automation Main Business Overview

13.2.5 Fagor Automation Latest Developments

13.3 Renishaw

13.3.1 Renishaw Company Information

13.3.2 Renishaw CNC Glass Scale Product Portfolios and Specifications

13.3.3 Renishaw CNC Glass Scale Sales, Revenue, Price and Gross Margin
(2020-2025)

13.3.4 Renishaw Main Business Overview

13.3.5 Renishaw Latest Developments

13.4 Mitutoyo

13.4.1 Mitutoyo Company Information

13.4.2 Mitutoyo CNC Glass Scale Product Portfolios and Specifications

13.4.3 Mitutoyo CNC Glass Scale Sales, Revenue, Price and Gross Margin
(2020-2025)

13.4.4 Mitutoyo Main Business Overview

13.4.5 Mitutoyo Latest Developments

13.5 TR-Electronic GmbH

13.5.1 TR-Electronic GmbH Company Information

13.5.2 TR-Electronic GmbH CNC Glass Scale Product Portfolios and Specifications

13.5.3 TR-Electronic GmbH CNC Glass Scale Sales, Revenue, Price and Gross
Margin (2020-2025)

13.5.4 TR-Electronic GmbH Main Business Overview

13.5.5 TR-Electronic GmbH Latest Developments

13.6 Precizika Metrology

13.6.1 Precizika Metrology Company Information

- 13.6.2 Precizika Metrology CNC Glass Scale Product Portfolios and Specifications
- 13.6.3 Precizika Metrology CNC Glass Scale Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.6.4 Precizika Metrology Main Business Overview
- 13.6.5 Precizika Metrology Latest Developments
- 13.7 Givi Misure
 - 13.7.1 Givi Misure Company Information
 - 13.7.2 Givi Misure CNC Glass Scale Product Portfolios and Specifications
 - 13.7.3 Givi Misure CNC Glass Scale Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.7.4 Givi Misure Main Business Overview
 - 13.7.5 Givi Misure Latest Developments
- 13.8 Elbo Controlli Srl
 - 13.8.1 Elbo Controlli Srl Company Information
 - 13.8.2 Elbo Controlli Srl CNC Glass Scale Product Portfolios and Specifications
 - 13.8.3 Elbo Controlli Srl CNC Glass Scale Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.8.4 Elbo Controlli Srl Main Business Overview
 - 13.8.5 Elbo Controlli Srl Latest Developments
- 13.9 Celera Motion (MICROE)
 - 13.9.1 Celera Motion (MICROE) Company Information
 - 13.9.2 Celera Motion (MICROE) CNC Glass Scale Product Portfolios and Specifications
 - 13.9.3 Celera Motion (MICROE) CNC Glass Scale Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.9.4 Celera Motion (MICROE) Main Business Overview
 - 13.9.5 Celera Motion (MICROE) Latest Developments
- 13.10 Atek Electronic Sensor Technologies
 - 13.10.1 Atek Electronic Sensor Technologies Company Information
 - 13.10.2 Atek Electronic Sensor Technologies CNC Glass Scale Product Portfolios and Specifications
 - 13.10.3 Atek Electronic Sensor Technologies CNC Glass Scale Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.10.4 Atek Electronic Sensor Technologies Main Business Overview
 - 13.10.5 Atek Electronic Sensor Technologies Latest Developments
- 13.11 SINO/Guangzhou Lokshun CNC Equipment
 - 13.11.1 SINO/Guangzhou Lokshun CNC Equipment Company Information
 - 13.11.2 SINO/Guangzhou Lokshun CNC Equipment CNC Glass Scale Product Portfolios and Specifications

13.11.3 SINO/Guangzhou Lokshun CNC Equipment CNC Glass Scale Sales, Revenue, Price and Gross Margin (2020-2025)

13.11.4 SINO/Guangzhou Lokshun CNC Equipment Main Business Overview

13.11.5 SINO/Guangzhou Lokshun CNC Equipment Latest Developments

13.12 SOXIN

13.12.1 SOXIN Company Information

13.12.2 SOXIN CNC Glass Scale Product Portfolios and Specifications

13.12.3 SOXIN CNC Glass Scale Sales, Revenue, Price and Gross Margin (2020-2025)

13.12.4 SOXIN Main Business Overview

13.12.5 SOXIN Latest Developments

13.13 Changchun Yuheng Optics

13.13.1 Changchun Yuheng Optics Company Information

13.13.2 Changchun Yuheng Optics CNC Glass Scale Product Portfolios and Specifications

13.13.3 Changchun Yuheng Optics CNC Glass Scale Sales, Revenue, Price and Gross Margin (2020-2025)

13.13.4 Changchun Yuheng Optics Main Business Overview

13.13.5 Changchun Yuheng Optics Latest Developments

13.14 Dongguan Ouxin Precision Instrument

13.14.1 Dongguan Ouxin Precision Instrument Company Information

13.14.2 Dongguan Ouxin Precision Instrument CNC Glass Scale Product Portfolios and Specifications

13.14.3 Dongguan Ouxin Precision Instrument CNC Glass Scale Sales, Revenue, Price and Gross Margin (2020-2025)

13.14.4 Dongguan Ouxin Precision Instrument Main Business Overview

13.14.5 Dongguan Ouxin Precision Instrument Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. CNC Glass Scale Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Table 2. CNC Glass Scale Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)
- Table 3. Major Players of Absolute Linear Encoders
- Table 4. Major Players of Incremental Linear Encoders
- Table 5. Global CNC Glass Scale Sales by Type (2020-2025) & (K Units)
- Table 6. Global CNC Glass Scale Sales Market Share by Type (2020-2025)
- Table 7. Global CNC Glass Scale Revenue by Type (2020-2025) & (\$ million)
- Table 8. Global CNC Glass Scale Revenue Market Share by Type (2020-2025)
- Table 9. Global CNC Glass Scale Sale Price by Type (2020-2025) & (US\$/Unit)
- Table 10. Global CNC Glass Scale Sale by Application (2020-2025) & (K Units)
- Table 11. Global CNC Glass Scale Sale Market Share by Application (2020-2025)
- Table 12. Global CNC Glass Scale Revenue by Application (2020-2025) & (\$ million)
- Table 13. Global CNC Glass Scale Revenue Market Share by Application (2020-2025)
- Table 14. Global CNC Glass Scale Sale Price by Application (2020-2025) & (US\$/Unit)
- Table 15. Global CNC Glass Scale Sales by Company (2020-2025) & (K Units)
- Table 16. Global CNC Glass Scale Sales Market Share by Company (2020-2025)
- Table 17. Global CNC Glass Scale Revenue by Company (2020-2025) & (\$ millions)
- Table 18. Global CNC Glass Scale Revenue Market Share by Company (2020-2025)
- Table 19. Global CNC Glass Scale Sale Price by Company (2020-2025) & (US\$/Unit)
- Table 20. Key Manufacturers CNC Glass Scale Producing Area Distribution and Sales Area
- Table 21. Players CNC Glass Scale Products Offered
- Table 22. CNC Glass Scale Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
- Table 23. New Products and Potential Entrants
- Table 24. Market M&A Activity & Strategy
- Table 25. Global CNC Glass Scale Sales by Geographic Region (2020-2025) & (K Units)
- Table 26. Global CNC Glass Scale Sales Market Share Geographic Region (2020-2025)
- Table 27. Global CNC Glass Scale Revenue by Geographic Region (2020-2025) & (\$ millions)
- Table 28. Global CNC Glass Scale Revenue Market Share by Geographic Region (2020-2025)

Table 29. Global CNC Glass Scale Sales by Country/Region (2020-2025) & (K Units)
Table 30. Global CNC Glass Scale Sales Market Share by Country/Region (2020-2025)
Table 31. Global CNC Glass Scale Revenue by Country/Region (2020-2025) & (\$ millions)
Table 32. Global CNC Glass Scale Revenue Market Share by Country/Region (2020-2025)
Table 33. Americas CNC Glass Scale Sales by Country (2020-2025) & (K Units)
Table 34. Americas CNC Glass Scale Sales Market Share by Country (2020-2025)
Table 35. Americas CNC Glass Scale Revenue by Country (2020-2025) & (\$ millions)
Table 36. Americas CNC Glass Scale Sales by Type (2020-2025) & (K Units)
Table 37. Americas CNC Glass Scale Sales by Application (2020-2025) & (K Units)
Table 38. APAC CNC Glass Scale Sales by Region (2020-2025) & (K Units)
Table 39. APAC CNC Glass Scale Sales Market Share by Region (2020-2025)
Table 40. APAC CNC Glass Scale Revenue by Region (2020-2025) & (\$ millions)
Table 41. APAC CNC Glass Scale Sales by Type (2020-2025) & (K Units)
Table 42. APAC CNC Glass Scale Sales by Application (2020-2025) & (K Units)
Table 43. Europe CNC Glass Scale Sales by Country (2020-2025) & (K Units)
Table 44. Europe CNC Glass Scale Revenue by Country (2020-2025) & (\$ millions)
Table 45. Europe CNC Glass Scale Sales by Type (2020-2025) & (K Units)
Table 46. Europe CNC Glass Scale Sales by Application (2020-2025) & (K Units)
Table 47. Middle East & Africa CNC Glass Scale Sales by Country (2020-2025) & (K Units)
Table 48. Middle East & Africa CNC Glass Scale Revenue Market Share by Country (2020-2025)
Table 49. Middle East & Africa CNC Glass Scale Sales by Type (2020-2025) & (K Units)
Table 50. Middle East & Africa CNC Glass Scale Sales by Application (2020-2025) & (K Units)
Table 51. Key Market Drivers & Growth Opportunities of CNC Glass Scale
Table 52. Key Market Challenges & Risks of CNC Glass Scale
Table 53. Key Industry Trends of CNC Glass Scale
Table 54. CNC Glass Scale Raw Material
Table 55. Key Suppliers of Raw Materials
Table 56. CNC Glass Scale Distributors List
Table 57. CNC Glass Scale Customer List
Table 58. Global CNC Glass Scale Sales Forecast by Region (2026-2031) & (K Units)
Table 59. Global CNC Glass Scale Revenue Forecast by Region (2026-2031) & (\$ millions)
Table 60. Americas CNC Glass Scale Sales Forecast by Country (2026-2031) & (K Units)

Table 61. Americas CNC Glass Scale Annual Revenue Forecast by Country (2026-2031) & (\$ millions)
Table 62. APAC CNC Glass Scale Sales Forecast by Region (2026-2031) & (K Units)
Table 63. APAC CNC Glass Scale Annual Revenue Forecast by Region (2026-2031) & (\$ millions)
Table 64. Europe CNC Glass Scale Sales Forecast by Country (2026-2031) & (K Units)
Table 65. Europe CNC Glass Scale Revenue Forecast by Country (2026-2031) & (\$ millions)
Table 66. Middle East & Africa CNC Glass Scale Sales Forecast by Country (2026-2031) & (K Units)
Table 67. Middle East & Africa CNC Glass Scale Revenue Forecast by Country (2026-2031) & (\$ millions)
Table 68. Global CNC Glass Scale Sales Forecast by Type (2026-2031) & (K Units)
Table 69. Global CNC Glass Scale Revenue Forecast by Type (2026-2031) & (\$ millions)
Table 70. Global CNC Glass Scale Sales Forecast by Application (2026-2031) & (K Units)
Table 71. Global CNC Glass Scale Revenue Forecast by Application (2026-2031) & (\$ millions)
Table 72. HEIDENHAIN Basic Information, CNC Glass Scale Manufacturing Base, Sales Area and Its Competitors
Table 73. HEIDENHAIN CNC Glass Scale Product Portfolios and Specifications
Table 74. HEIDENHAIN CNC Glass Scale Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
Table 75. HEIDENHAIN Main Business
Table 76. HEIDENHAIN Latest Developments
Table 77. Fagor Automation Basic Information, CNC Glass Scale Manufacturing Base, Sales Area and Its Competitors
Table 78. Fagor Automation CNC Glass Scale Product Portfolios and Specifications
Table 79. Fagor Automation CNC Glass Scale Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
Table 80. Fagor Automation Main Business
Table 81. Fagor Automation Latest Developments
Table 82. Renishaw Basic Information, CNC Glass Scale Manufacturing Base, Sales Area and Its Competitors
Table 83. Renishaw CNC Glass Scale Product Portfolios and Specifications
Table 84. Renishaw CNC Glass Scale Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
Table 85. Renishaw Main Business

Table 86. Renishaw Latest Developments
Table 87. Mitutoyo Basic Information, CNC Glass Scale Manufacturing Base, Sales Area and Its Competitors
Table 88. Mitutoyo CNC Glass Scale Product Portfolios and Specifications
Table 89. Mitutoyo CNC Glass Scale Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
Table 90. Mitutoyo Main Business
Table 91. Mitutoyo Latest Developments
Table 92. TR-Electronic GmbH Basic Information, CNC Glass Scale Manufacturing Base, Sales Area and Its Competitors
Table 93. TR-Electronic GmbH CNC Glass Scale Product Portfolios and Specifications
Table 94. TR-Electronic GmbH CNC Glass Scale Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
Table 95. TR-Electronic GmbH Main Business
Table 96. TR-Electronic GmbH Latest Developments
Table 97. Precizika Metrology Basic Information, CNC Glass Scale Manufacturing Base, Sales Area and Its Competitors
Table 98. Precizika Metrology CNC Glass Scale Product Portfolios and Specifications
Table 99. Precizika Metrology CNC Glass Scale Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
Table 100. Precizika Metrology Main Business
Table 101. Precizika Metrology Latest Developments
Table 102. Givi Misure Basic Information, CNC Glass Scale Manufacturing Base, Sales Area and Its Competitors
Table 103. Givi Misure CNC Glass Scale Product Portfolios and Specifications
Table 104. Givi Misure CNC Glass Scale Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
Table 105. Givi Misure Main Business
Table 106. Givi Misure Latest Developments
Table 107. Elbo Controlli Srl Basic Information, CNC Glass Scale Manufacturing Base, Sales Area and Its Competitors
Table 108. Elbo Controlli Srl CNC Glass Scale Product Portfolios and Specifications
Table 109. Elbo Controlli Srl CNC Glass Scale Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)
Table 110. Elbo Controlli Srl Main Business
Table 111. Elbo Controlli Srl Latest Developments
Table 112. Celera Motion (MICROE) Basic Information, CNC Glass Scale Manufacturing Base, Sales Area and Its Competitors
Table 113. Celera Motion (MICROE) CNC Glass Scale Product Portfolios and

Specifications

Table 114. Celera Motion (MICROE) CNC Glass Scale Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 115. Celera Motion (MICROE) Main Business

Table 116. Celera Motion (MICROE) Latest Developments

Table 117. Atek Electronic Sensor Technologies Basic Information, CNC Glass Scale Manufacturing Base, Sales Area and Its Competitors

Table 118. Atek Electronic Sensor Technologies CNC Glass Scale Product Portfolios and Specifications

Table 119. Atek Electronic Sensor Technologies CNC Glass Scale Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 120. Atek Electronic Sensor Technologies Main Business

Table 121. Atek Electronic Sensor Technologies Latest Developments

Table 122. SINO/Guangzhou Lokshun CNC Equipment Basic Information, CNC Glass Scale Manufacturing Base, Sales Area and Its Competitors

Table 123. SINO/Guangzhou Lokshun CNC Equipment CNC Glass Scale Product Portfolios and Specifications

Table 124. SINO/Guangzhou Lokshun CNC Equipment CNC Glass Scale Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 125. SINO/Guangzhou Lokshun CNC Equipment Main Business

Table 126. SINO/Guangzhou Lokshun CNC Equipment Latest Developments

Table 127. SOXIN Basic Information, CNC Glass Scale Manufacturing Base, Sales Area and Its Competitors

Table 128. SOXIN CNC Glass Scale Product Portfolios and Specifications

Table 129. SOXIN CNC Glass Scale Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 130. SOXIN Main Business

Table 131. SOXIN Latest Developments

Table 132. Changchun Yuheng Optics Basic Information, CNC Glass Scale Manufacturing Base, Sales Area and Its Competitors

Table 133. Changchun Yuheng Optics CNC Glass Scale Product Portfolios and Specifications

Table 134. Changchun Yuheng Optics CNC Glass Scale Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 135. Changchun Yuheng Optics Main Business

Table 136. Changchun Yuheng Optics Latest Developments

Table 137. Dongguan Ouxin Precision Instrument Basic Information, CNC Glass Scale Manufacturing Base, Sales Area and Its Competitors

Table 138. Dongguan Ouxin Precision Instrument CNC Glass Scale Product Portfolios

and Specifications

Table 139. Dongguan Ouxin Precision Instrument CNC Glass Scale Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 140. Dongguan Ouxin Precision Instrument Main Business

Table 141. Dongguan Ouxin Precision Instrument Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of CNC Glass Scale
- Figure 2. CNC Glass Scale Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global CNC Glass Scale Sales Growth Rate 2020-2031 (K Units)
- Figure 7. Global CNC Glass Scale Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. CNC Glass Scale Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. CNC Glass Scale Sales Market Share by Country/Region (2024)
- Figure 10. CNC Glass Scale Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Absolute Linear Encoders
- Figure 12. Product Picture of Incremental Linear Encoders
- Figure 13. Global CNC Glass Scale Sales Market Share by Type in 2025
- Figure 14. Global CNC Glass Scale Revenue Market Share by Type (2020-2025)
- Figure 15. CNC Glass Scale Consumed in CNC Machining Centers
- Figure 16. Global CNC Glass Scale Market: CNC Machining Centers (2020-2025) & (K Units)
- Figure 17. CNC Glass Scale Consumed in CNC Lathes
- Figure 18. Global CNC Glass Scale Market: CNC Lathes (2020-2025) & (K Units)
- Figure 19. Global CNC Glass Scale Sale Market Share by Application (2024)
- Figure 20. Global CNC Glass Scale Revenue Market Share by Application in 2025
- Figure 21. CNC Glass Scale Sales by Company in 2025 (K Units)
- Figure 22. Global CNC Glass Scale Sales Market Share by Company in 2025
- Figure 23. CNC Glass Scale Revenue by Company in 2025 (\$ millions)
- Figure 24. Global CNC Glass Scale Revenue Market Share by Company in 2025
- Figure 25. Global CNC Glass Scale Sales Market Share by Geographic Region (2020-2025)
- Figure 26. Global CNC Glass Scale Revenue Market Share by Geographic Region in 2025
- Figure 27. Americas CNC Glass Scale Sales 2020-2025 (K Units)
- Figure 28. Americas CNC Glass Scale Revenue 2020-2025 (\$ millions)
- Figure 29. APAC CNC Glass Scale Sales 2020-2025 (K Units)
- Figure 30. APAC CNC Glass Scale Revenue 2020-2025 (\$ millions)

- Figure 31. Europe CNC Glass Scale Sales 2020-2025 (K Units)
- Figure 32. Europe CNC Glass Scale Revenue 2020-2025 (\$ millions)
- Figure 33. Middle East & Africa CNC Glass Scale Sales 2020-2025 (K Units)
- Figure 34. Middle East & Africa CNC Glass Scale Revenue 2020-2025 (\$ millions)
- Figure 35. Americas CNC Glass Scale Sales Market Share by Country in 2025
- Figure 36. Americas CNC Glass Scale Revenue Market Share by Country (2020-2025)
- Figure 37. Americas CNC Glass Scale Sales Market Share by Type (2020-2025)
- Figure 38. Americas CNC Glass Scale Sales Market Share by Application (2020-2025)
- Figure 39. United States CNC Glass Scale Revenue Growth 2020-2025 (\$ millions)
- Figure 40. Canada CNC Glass Scale Revenue Growth 2020-2025 (\$ millions)
- Figure 41. Mexico CNC Glass Scale Revenue Growth 2020-2025 (\$ millions)
- Figure 42. Brazil CNC Glass Scale Revenue Growth 2020-2025 (\$ millions)
- Figure 43. APAC CNC Glass Scale Sales Market Share by Region in 2025
- Figure 44. APAC CNC Glass Scale Revenue Market Share by Region (2020-2025)
- Figure 45. APAC CNC Glass Scale Sales Market Share by Type (2020-2025)
- Figure 46. APAC CNC Glass Scale Sales Market Share by Application (2020-2025)
- Figure 47. China CNC Glass Scale Revenue Growth 2020-2025 (\$ millions)
- Figure 48. Japan CNC Glass Scale Revenue Growth 2020-2025 (\$ millions)
- Figure 49. South Korea CNC Glass Scale Revenue Growth 2020-2025 (\$ millions)
- Figure 50. Southeast Asia CNC Glass Scale Revenue Growth 2020-2025 (\$ millions)
- Figure 51. India CNC Glass Scale Revenue Growth 2020-2025 (\$ millions)
- Figure 52. Australia CNC Glass Scale Revenue Growth 2020-2025 (\$ millions)
- Figure 53. China Taiwan CNC Glass Scale Revenue Growth 2020-2025 (\$ millions)
- Figure 54. Europe CNC Glass Scale Sales Market Share by Country in 2025
- Figure 55. Europe CNC Glass Scale Revenue Market Share by Country (2020-2025)
- Figure 56. Europe CNC Glass Scale Sales Market Share by Type (2020-2025)
- Figure 57. Europe CNC Glass Scale Sales Market Share by Application (2020-2025)
- Figure 58. Germany CNC Glass Scale Revenue Growth 2020-2025 (\$ millions)
- Figure 59. France CNC Glass Scale Revenue Growth 2020-2025 (\$ millions)
- Figure 60. UK CNC Glass Scale Revenue Growth 2020-2025 (\$ millions)
- Figure 61. Italy CNC Glass Scale Revenue Growth 2020-2025 (\$ millions)
- Figure 62. Russia CNC Glass Scale Revenue Growth 2020-2025 (\$ millions)
- Figure 63. Middle East & Africa CNC Glass Scale Sales Market Share by Country (2020-2025)
- Figure 64. Middle East & Africa CNC Glass Scale Sales Market Share by Type (2020-2025)
- Figure 65. Middle East & Africa CNC Glass Scale Sales Market Share by Application (2020-2025)
- Figure 66. Egypt CNC Glass Scale Revenue Growth 2020-2025 (\$ millions)

Figure 67. South Africa CNC Glass Scale Revenue Growth 2020-2025 (\$ millions)

Figure 68. Israel CNC Glass Scale Revenue Growth 2020-2025 (\$ millions)

Figure 69. Turkey CNC Glass Scale Revenue Growth 2020-2025 (\$ millions)

Figure 70. GCC Countries CNC Glass Scale Revenue Growth 2020-2025 (\$ millions)

Figure 71. Manufacturing Cost Structure Analysis of CNC Glass Scale in 2025

Figure 72. Manufacturing Process Analysis of CNC Glass Scale

Figure 73. Industry Chain Structure of CNC Glass Scale

Figure 74. Channels of Distribution

Figure 75. Global CNC Glass Scale Sales Market Forecast by Region (2026-2031)

Figure 76. Global CNC Glass Scale Revenue Market Share Forecast by Region
(2026-2031)

Figure 77. Global CNC Glass Scale Sales Market Share Forecast by Type (2026-2031)

Figure 78. Global CNC Glass Scale Revenue Market Share Forecast by Type
(2026-2031)

Figure 79. Global CNC Glass Scale Sales Market Share Forecast by Application
(2026-2031)

Figure 80. Global CNC Glass Scale Revenue Market Share Forecast by Application
(2026-2031)

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