

Global High-precision Hydraulic Expanding Mandrel Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High-precision Hydraulic Expanding Mandrel market size is expected to reach \$ 976 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

In 2025, global output of high-precision hydraulic expanding mandrels reaches 1,150,000 units, with an average selling price of 520 USD per unit, total capacity of 1,380,000 units, and a gross margin of 45%.

A high-precision hydraulic expanding mandrel is a workholding device that uses a hydraulic system to drive sleeves or elastic elements to achieve uniform radial expansion for internal clamping. It is mainly used on CNC machines, grinding machines, and automated production lines for accurate positioning and clamping of tubes, sleeves, and hollow components, offering high clamping accuracy, stable repeatability, minimal workpiece deformation, and suitability for high-speed machining. It is widely applied in automotive components, aerospace, precision machinery, and metalworking industries.

Upstream mainly includes high-strength alloy steel and stainless steel, sealing materials, hydraulic components (seals and micro hydraulic chambers), precision machining equipment, and heat treatment services. The midstream consists of manufacturers responsible for design, precision machining, assembly, and testing of hydraulic expanding mandrels, with core capabilities focused on accuracy control and long-term reliability. Downstream applications span automotive and new energy component manufacturing, aerospace precision machining, and machine tool and automation line integration, with customers typically sourcing through machine tool OEMs or specialized workholding suppliers.

This report studies the global High-precision Hydraulic Expanding Mandrel production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-precision Hydraulic Expanding Mandrel and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of High-precision Hydraulic Expanding Mandrel that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High-precision Hydraulic Expanding Mandrel total production and demand, 2021-2032, (K Units)

Global High-precision Hydraulic Expanding Mandrel total production value, 2021-2032, (USD Million)

Global High-precision Hydraulic Expanding Mandrel production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global High-precision Hydraulic Expanding Mandrel consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: High-precision Hydraulic Expanding Mandrel domestic production, consumption, key domestic manufacturers and share

Global High-precision Hydraulic Expanding Mandrel production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global High-precision Hydraulic Expanding Mandrel production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global High-precision Hydraulic Expanding Mandrel production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global High-precision Hydraulic Expanding Mandrel market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Positrol, Schunk, Shree Precision, Hainbuch GmbH, SMW Autoblok, Rotary Engineering Corporation, Goriziane, Drewco Corporation, Speedgrip Chuck Company, Industrial Tools Corporation, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High-precision Hydraulic Expanding Mandrel market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global High-precision Hydraulic Expanding Mandrel Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-precision Hydraulic Expanding Mandrel Market, Segmentation by Type:

Electric

Pneumatic

Global High-precision Hydraulic Expanding Mandrel Market, Segmentation by Structural

Design:

Solid

Segmented

Global High-precision Hydraulic Expanding Mandrel Market, Segmentation by Clamping Mechanism:

Radial Expansion Type

Axial Tension Type

Global High-precision Hydraulic Expanding Mandrel Market, Segmentation by Machine Tool Type:

Lathe

Grinding Machine / Machining Center

Global High-precision Hydraulic Expanding Mandrel Market, Segmentation by Application:

Cutting Tool

Abrasive Tool

Companies Profiled:

Positrol

Schunk

Shree Precision

Hainbuch GmbH

SMW Autoblok

Rotary Engineering Corporation

Goriziane

Drewco Corporation

Speedgrip Chuck Company

Industrial Tools Corporation

Euro-Tech Corporation

Key Questions Answered:

1. How big is the global High-precision Hydraulic Expanding Mandrel market?
2. What is the demand of the global High-precision Hydraulic Expanding Mandrel market?
3. What is the year over year growth of the global High-precision Hydraulic Expanding Mandrel market?
4. What is the production and production value of the global High-precision Hydraulic Expanding Mandrel market?
5. Who are the key producers in the global High-precision Hydraulic Expanding Mandrel market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 High-precision Hydraulic Expanding Mandrel Introduction
- 1.2 World High-precision Hydraulic Expanding Mandrel Supply & Forecast
 - 1.2.1 World High-precision Hydraulic Expanding Mandrel Production Value (2021 & 2025 & 2032)
 - 1.2.2 World High-precision Hydraulic Expanding Mandrel Production (2021-2032)
 - 1.2.3 World High-precision Hydraulic Expanding Mandrel Pricing Trends (2021-2032)
- 1.3 World High-precision Hydraulic Expanding Mandrel Production by Region (Based on Production Site)
 - 1.3.1 World High-precision Hydraulic Expanding Mandrel Production Value by Region (2021-2032)
 - 1.3.2 World High-precision Hydraulic Expanding Mandrel Production by Region (2021-2032)
 - 1.3.3 World High-precision Hydraulic Expanding Mandrel Average Price by Region (2021-2032)
 - 1.3.4 North America High-precision Hydraulic Expanding Mandrel Production (2021-2032)
 - 1.3.5 Europe High-precision Hydraulic Expanding Mandrel Production (2021-2032)
 - 1.3.6 China High-precision Hydraulic Expanding Mandrel Production (2021-2032)
 - 1.3.7 Japan High-precision Hydraulic Expanding Mandrel Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 High-precision Hydraulic Expanding Mandrel Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 High-precision Hydraulic Expanding Mandrel Major Market Trends

2 DEMAND SUMMARY

- 2.1 World High-precision Hydraulic Expanding Mandrel Demand (2021-2032)
- 2.2 World High-precision Hydraulic Expanding Mandrel Consumption by Region
 - 2.2.1 World High-precision Hydraulic Expanding Mandrel Consumption by Region (2021-2026)
 - 2.2.2 World High-precision Hydraulic Expanding Mandrel Consumption Forecast by Region (2027-2032)
- 2.3 United States High-precision Hydraulic Expanding Mandrel Consumption (2021-2032)
- 2.4 China High-precision Hydraulic Expanding Mandrel Consumption (2021-2032)

- 2.5 Europe High-precision Hydraulic Expanding Mandrel Consumption (2021-2032)
- 2.6 Japan High-precision Hydraulic Expanding Mandrel Consumption (2021-2032)
- 2.7 South Korea High-precision Hydraulic Expanding Mandrel Consumption (2021-2032)
- 2.8 ASEAN High-precision Hydraulic Expanding Mandrel Consumption (2021-2032)
- 2.9 India High-precision Hydraulic Expanding Mandrel Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World High-precision Hydraulic Expanding Mandrel Production Value by Manufacturer (2021-2026)
- 3.2 World High-precision Hydraulic Expanding Mandrel Production by Manufacturer (2021-2026)
- 3.3 World High-precision Hydraulic Expanding Mandrel Average Price by Manufacturer (2021-2026)
- 3.4 High-precision Hydraulic Expanding Mandrel Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global High-precision Hydraulic Expanding Mandrel Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for High-precision Hydraulic Expanding Mandrel in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for High-precision Hydraulic Expanding Mandrel in 2025
- 3.6 High-precision Hydraulic Expanding Mandrel Market: Overall Company Footprint Analysis
 - 3.6.1 High-precision Hydraulic Expanding Mandrel Market: Region Footprint
 - 3.6.2 High-precision Hydraulic Expanding Mandrel Market: Company Product Type Footprint
 - 3.6.3 High-precision Hydraulic Expanding Mandrel Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: High-precision Hydraulic Expanding Mandrel Production Value Comparison

4.1.1 United States VS China: High-precision Hydraulic Expanding Mandrel Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: High-precision Hydraulic Expanding Mandrel Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: High-precision Hydraulic Expanding Mandrel Production Comparison

4.2.1 United States VS China: High-precision Hydraulic Expanding Mandrel Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: High-precision Hydraulic Expanding Mandrel Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: High-precision Hydraulic Expanding Mandrel Consumption Comparison

4.3.1 United States VS China: High-precision Hydraulic Expanding Mandrel Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: High-precision Hydraulic Expanding Mandrel Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based High-precision Hydraulic Expanding Mandrel Manufacturers and Market Share, 2021-2026

4.4.1 United States Based High-precision Hydraulic Expanding Mandrel Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers High-precision Hydraulic Expanding Mandrel Production Value (2021-2026)

4.4.3 United States Based Manufacturers High-precision Hydraulic Expanding Mandrel Production (2021-2026)

4.5 China Based High-precision Hydraulic Expanding Mandrel Manufacturers and Market Share

4.5.1 China Based High-precision Hydraulic Expanding Mandrel Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers High-precision Hydraulic Expanding Mandrel Production Value (2021-2026)

4.5.3 China Based Manufacturers High-precision Hydraulic Expanding Mandrel Production (2021-2026)

4.6 Rest of World Based High-precision Hydraulic Expanding Mandrel Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based High-precision Hydraulic Expanding Mandrel Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers High-precision Hydraulic Expanding Mandrel

Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers High-precision Hydraulic Expanding Mandrel Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World High-precision Hydraulic Expanding Mandrel Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Electric

5.2.2 Pneumatic

5.3 Market Segment by Type

5.3.1 World High-precision Hydraulic Expanding Mandrel Production by Type (2021-2032)

5.3.2 World High-precision Hydraulic Expanding Mandrel Production Value by Type (2021-2032)

5.3.3 World High-precision Hydraulic Expanding Mandrel Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY STRUCTURAL DESIGN

6.1 World High-precision Hydraulic Expanding Mandrel Market Size Overview by Structural Design: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Structural Design

6.2.1 Solid

6.2.2 Segmented

6.3 Market Segment by Structural Design

6.3.1 World High-precision Hydraulic Expanding Mandrel Production by Structural Design (2021-2032)

6.3.2 World High-precision Hydraulic Expanding Mandrel Production Value by Structural Design (2021-2032)

6.3.3 World High-precision Hydraulic Expanding Mandrel Average Price by Structural Design (2021-2032)

7 MARKET ANALYSIS BY CLAMPING MECHANISM

7.1 World High-precision Hydraulic Expanding Mandrel Market Size Overview by Clamping Mechanism: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Clamping Mechanism

7.2.1 Radial Expansion Type

7.2.2 Axial Tension Type

7.3 Market Segment by Clamping Mechanism

7.3.1 World High-precision Hydraulic Expanding Mandrel Production by Clamping Mechanism (2021-2032)

7.3.2 World High-precision Hydraulic Expanding Mandrel Production Value by Clamping Mechanism (2021-2032)

7.3.3 World High-precision Hydraulic Expanding Mandrel Average Price by Clamping Mechanism (2021-2032)

8 MARKET ANALYSIS BY MACHINE TOOL TYPE

8.1 World High-precision Hydraulic Expanding Mandrel Market Size Overview by Machine Tool Type: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Machine Tool Type

8.2.1 Lathe

8.2.2 Grinding Machine / Machining Center

8.3 Market Segment by Machine Tool Type

8.3.1 World High-precision Hydraulic Expanding Mandrel Production by Machine Tool Type (2021-2032)

8.3.2 World High-precision Hydraulic Expanding Mandrel Production Value by Machine Tool Type (2021-2032)

8.3.3 World High-precision Hydraulic Expanding Mandrel Average Price by Machine Tool Type (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World High-precision Hydraulic Expanding Mandrel Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 Cutting Tool

9.2.2 Abrasive Tool

9.3 Market Segment by Application

9.3.1 World High-precision Hydraulic Expanding Mandrel Production by Application (2021-2032)

9.3.2 World High-precision Hydraulic Expanding Mandrel Production Value by Application (2021-2032)

9.3.3 World High-precision Hydraulic Expanding Mandrel Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 Positrol

10.1.1 Positrol Details

10.1.2 Positrol Major Business

10.1.3 Positrol High-precision Hydraulic Expanding Mandrel Product and Services

10.1.4 Positrol High-precision Hydraulic Expanding Mandrel Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.1.5 Positrol Recent Developments/Updates

10.1.6 Positrol Competitive Strengths & Weaknesses

10.2 Schunk

10.2.1 Schunk Details

10.2.2 Schunk Major Business

10.2.3 Schunk High-precision Hydraulic Expanding Mandrel Product and Services

10.2.4 Schunk High-precision Hydraulic Expanding Mandrel Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.2.5 Schunk Recent Developments/Updates

10.2.6 Schunk Competitive Strengths & Weaknesses

10.3 Shree Precision

10.3.1 Shree Precision Details

10.3.2 Shree Precision Major Business

10.3.3 Shree Precision High-precision Hydraulic Expanding Mandrel Product and Services

10.3.4 Shree Precision High-precision Hydraulic Expanding Mandrel Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.3.5 Shree Precision Recent Developments/Updates

10.3.6 Shree Precision Competitive Strengths & Weaknesses

10.4 Hainbuch GmbH

10.4.1 Hainbuch GmbH Details

10.4.2 Hainbuch GmbH Major Business

10.4.3 Hainbuch GmbH High-precision Hydraulic Expanding Mandrel Product and Services

10.4.4 Hainbuch GmbH High-precision Hydraulic Expanding Mandrel Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.4.5 Hainbuch GmbH Recent Developments/Updates

10.4.6 Hainbuch GmbH Competitive Strengths & Weaknesses

10.5 SMW Autoblok

10.5.1 SMW Autoblok Details

- 10.5.2 SMW Autoblok Major Business
- 10.5.3 SMW Autoblok High-precision Hydraulic Expanding Mandrel Product and Services
- 10.5.4 SMW Autoblok High-precision Hydraulic Expanding Mandrel Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.5.5 SMW Autoblok Recent Developments/Updates
- 10.5.6 SMW Autoblok Competitive Strengths & Weaknesses
- 10.6 Rotary Engineering Corporation
 - 10.6.1 Rotary Engineering Corporation Details
 - 10.6.2 Rotary Engineering Corporation Major Business
 - 10.6.3 Rotary Engineering Corporation High-precision Hydraulic Expanding Mandrel Product and Services
 - 10.6.4 Rotary Engineering Corporation High-precision Hydraulic Expanding Mandrel Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.6.5 Rotary Engineering Corporation Recent Developments/Updates
 - 10.6.6 Rotary Engineering Corporation Competitive Strengths & Weaknesses
- 10.7 Goriziane
 - 10.7.1 Goriziane Details
 - 10.7.2 Goriziane Major Business
 - 10.7.3 Goriziane High-precision Hydraulic Expanding Mandrel Product and Services
 - 10.7.4 Goriziane High-precision Hydraulic Expanding Mandrel Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.7.5 Goriziane Recent Developments/Updates
 - 10.7.6 Goriziane Competitive Strengths & Weaknesses
- 10.8 Drewco Corporation
 - 10.8.1 Drewco Corporation Details
 - 10.8.2 Drewco Corporation Major Business
 - 10.8.3 Drewco Corporation High-precision Hydraulic Expanding Mandrel Product and Services
 - 10.8.4 Drewco Corporation High-precision Hydraulic Expanding Mandrel Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.8.5 Drewco Corporation Recent Developments/Updates
 - 10.8.6 Drewco Corporation Competitive Strengths & Weaknesses
- 10.9 Speedgrip Chuck Company
 - 10.9.1 Speedgrip Chuck Company Details
 - 10.9.2 Speedgrip Chuck Company Major Business
 - 10.9.3 Speedgrip Chuck Company High-precision Hydraulic Expanding Mandrel Product and Services
 - 10.9.4 Speedgrip Chuck Company High-precision Hydraulic Expanding Mandrel

Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.9.5 Speedgrip Chuck Company Recent Developments/Updates

10.9.6 Speedgrip Chuck Company Competitive Strengths & Weaknesses

10.10 Industrial Tools Corporation

10.10.1 Industrial Tools Corporation Details

10.10.2 Industrial Tools Corporation Major Business

10.10.3 Industrial Tools Corporation High-precision Hydraulic Expanding Mandrel

Product and Services

10.10.4 Industrial Tools Corporation High-precision Hydraulic Expanding Mandrel

Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.10.5 Industrial Tools Corporation Recent Developments/Updates

10.10.6 Industrial Tools Corporation Competitive Strengths & Weaknesses

10.11 Euro-Tech Corporation

10.11.1 Euro-Tech Corporation Details

10.11.2 Euro-Tech Corporation Major Business

10.11.3 Euro-Tech Corporation High-precision Hydraulic Expanding Mandrel Product

and Services

10.11.4 Euro-Tech Corporation High-precision Hydraulic Expanding Mandrel

Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.11.5 Euro-Tech Corporation Recent Developments/Updates

10.11.6 Euro-Tech Corporation Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

11.1 High-precision Hydraulic Expanding Mandrel Industry Chain

11.2 High-precision Hydraulic Expanding Mandrel Upstream Analysis

11.2.1 High-precision Hydraulic Expanding Mandrel Core Raw Materials

11.2.2 Main Manufacturers of High-precision Hydraulic Expanding Mandrel Core Raw Materials

11.3 Midstream Analysis

11.4 Downstream Analysis

11.5 High-precision Hydraulic Expanding Mandrel Production Mode

11.6 High-precision Hydraulic Expanding Mandrel Procurement Model

11.7 High-precision Hydraulic Expanding Mandrel Industry Sales Model and Sales Channels

11.7.1 High-precision Hydraulic Expanding Mandrel Sales Model

11.7.2 High-precision Hydraulic Expanding Mandrel Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

13.1 Methodology

13.2 Research Process and Data Source

13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World High-precision Hydraulic Expanding Mandrel Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World High-precision Hydraulic Expanding Mandrel Production Value by Region (2021-2026) & (USD Million)

Table 3. World High-precision Hydraulic Expanding Mandrel Production Value by Region (2027-2032) & (USD Million)

Table 4. World High-precision Hydraulic Expanding Mandrel Production Value Market Share by Region (2021-2026)

Table 5. World High-precision Hydraulic Expanding Mandrel Production Value Market Share by Region (2027-2032)

Table 6. World High-precision Hydraulic Expanding Mandrel Production by Region (2021-2026) & (K Units)

Table 7. World High-precision Hydraulic Expanding Mandrel Production by Region (2027-2032) & (K Units)

Table 8. World High-precision Hydraulic Expanding Mandrel Production Market Share by Region (2021-2026)

Table 9. World High-precision Hydraulic Expanding Mandrel Production Market Share by Region (2027-2032)

Table 10. World High-precision Hydraulic Expanding Mandrel Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World High-precision Hydraulic Expanding Mandrel Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. High-precision Hydraulic Expanding Mandrel Major Market Trends

Table 13. World High-precision Hydraulic Expanding Mandrel Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World High-precision Hydraulic Expanding Mandrel Consumption by Region (2021-2026) & (K Units)

Table 15. World High-precision Hydraulic Expanding Mandrel Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World High-precision Hydraulic Expanding Mandrel Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key High-precision Hydraulic Expanding Mandrel Producers in 2025

Table 18. World High-precision Hydraulic Expanding Mandrel Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key High-precision Hydraulic Expanding Mandrel Producers in 2025

Table 20. World High-precision Hydraulic Expanding Mandrel Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global High-precision Hydraulic Expanding Mandrel Company Evaluation Quadrant

Table 22. World High-precision Hydraulic Expanding Mandrel Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and High-precision Hydraulic Expanding Mandrel Production Site of Key Manufacturer

Table 24. High-precision Hydraulic Expanding Mandrel Market: Company Product Type Footprint

Table 25. High-precision Hydraulic Expanding Mandrel Market: Company Product Application Footprint

Table 26. High-precision Hydraulic Expanding Mandrel Competitive Factors

Table 27. High-precision Hydraulic Expanding Mandrel New Entrant and Capacity Expansion Plans

Table 28. High-precision Hydraulic Expanding Mandrel Mergers & Acquisitions Activity

Table 29. United States VS China High-precision Hydraulic Expanding Mandrel Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China High-precision Hydraulic Expanding Mandrel Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China High-precision Hydraulic Expanding Mandrel Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based High-precision Hydraulic Expanding Mandrel Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers High-precision Hydraulic Expanding Mandrel Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers High-precision Hydraulic Expanding Mandrel Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers High-precision Hydraulic Expanding Mandrel Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers High-precision Hydraulic Expanding Mandrel Production Market Share (2021-2026)

Table 37. China Based High-precision Hydraulic Expanding Mandrel Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers High-precision Hydraulic Expanding Mandrel Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers High-precision Hydraulic Expanding Mandrel

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers High-precision Hydraulic Expanding Mandrel Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers High-precision Hydraulic Expanding Mandrel Production Market Share (2021-2026)

Table 42. Rest of World Based High-precision Hydraulic Expanding Mandrel Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers High-precision Hydraulic Expanding Mandrel Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers High-precision Hydraulic Expanding Mandrel Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers High-precision Hydraulic Expanding Mandrel Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers High-precision Hydraulic Expanding Mandrel Production Market Share (2021-2026)

Table 47. World High-precision Hydraulic Expanding Mandrel Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World High-precision Hydraulic Expanding Mandrel Production by Type (2021-2026) & (K Units)

Table 49. World High-precision Hydraulic Expanding Mandrel Production by Type (2027-2032) & (K Units)

Table 50. World High-precision Hydraulic Expanding Mandrel Production Value by Type (2021-2026) & (USD Million)

Table 51. World High-precision Hydraulic Expanding Mandrel Production Value by Type (2027-2032) & (USD Million)

Table 52. World High-precision Hydraulic Expanding Mandrel Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World High-precision Hydraulic Expanding Mandrel Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World High-precision Hydraulic Expanding Mandrel Production Value by Structural Design, (USD Million), 2021 & 2025 & 2032

Table 55. World High-precision Hydraulic Expanding Mandrel Production by Structural Design (2021-2026) & (K Units)

Table 56. World High-precision Hydraulic Expanding Mandrel Production by Structural Design (2027-2032) & (K Units)

Table 57. World High-precision Hydraulic Expanding Mandrel Production Value by Structural Design (2021-2026) & (USD Million)

Table 58. World High-precision Hydraulic Expanding Mandrel Production Value by Structural Design (2027-2032) & (USD Million)

Table 59. World High-precision Hydraulic Expanding Mandrel Average Price by Structural Design (2021-2026) & (US\$/Unit)

Table 60. World High-precision Hydraulic Expanding Mandrel Average Price by Structural Design (2027-2032) & (US\$/Unit)

Table 61. World High-precision Hydraulic Expanding Mandrel Production Value by Clamping Mechanism, (USD Million), 2021 & 2025 & 2032

Table 62. World High-precision Hydraulic Expanding Mandrel Production by Clamping Mechanism (2021-2026) & (K Units)

Table 63. World High-precision Hydraulic Expanding Mandrel Production by Clamping Mechanism (2027-2032) & (K Units)

Table 64. World High-precision Hydraulic Expanding Mandrel Production Value by Clamping Mechanism (2021-2026) & (USD Million)

Table 65. World High-precision Hydraulic Expanding Mandrel Production Value by Clamping Mechanism (2027-2032) & (USD Million)

Table 66. World High-precision Hydraulic Expanding Mandrel Average Price by Clamping Mechanism (2021-2026) & (US\$/Unit)

Table 67. World High-precision Hydraulic Expanding Mandrel Average Price by Clamping Mechanism (2027-2032) & (US\$/Unit)

Table 68. World High-precision Hydraulic Expanding Mandrel Production Value by Machine Tool Type, (USD Million), 2021 & 2025 & 2032

Table 69. World High-precision Hydraulic Expanding Mandrel Production by Machine Tool Type (2021-2026) & (K Units)

Table 70. World High-precision Hydraulic Expanding Mandrel Production by Machine Tool Type (2027-2032) & (K Units)

Table 71. World High-precision Hydraulic Expanding Mandrel Production Value by Machine Tool Type (2021-2026) & (USD Million)

Table 72. World High-precision Hydraulic Expanding Mandrel Production Value by Machine Tool Type (2027-2032) & (USD Million)

Table 73. World High-precision Hydraulic Expanding Mandrel Average Price by Machine Tool Type (2021-2026) & (US\$/Unit)

Table 74. World High-precision Hydraulic Expanding Mandrel Average Price by Machine Tool Type (2027-2032) & (US\$/Unit)

Table 75. World High-precision Hydraulic Expanding Mandrel Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 76. World High-precision Hydraulic Expanding Mandrel Production by Application (2021-2026) & (K Units)

Table 77. World High-precision Hydraulic Expanding Mandrel Production by Application (2027-2032) & (K Units)

Table 78. World High-precision Hydraulic Expanding Mandrel Production Value by

Application (2021-2026) & (USD Million)

Table 79. World High-precision Hydraulic Expanding Mandrel Production Value by Application (2027-2032) & (USD Million)

Table 80. World High-precision Hydraulic Expanding Mandrel Average Price by Application (2021-2026) & (US\$/Unit)

Table 81. World High-precision Hydraulic Expanding Mandrel Average Price by Application (2027-2032) & (US\$/Unit)

Table 82. Positrol Basic Information, Manufacturing Base and Competitors

Table 83. Positrol Major Business

Table 84. Positrol High-precision Hydraulic Expanding Mandrel Product and Services

Table 85. Positrol High-precision Hydraulic Expanding Mandrel Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. Positrol Recent Developments/Updates

Table 87. Positrol Competitive Strengths & Weaknesses

Table 88. Schunk Basic Information, Manufacturing Base and Competitors

Table 89. Schunk Major Business

Table 90. Schunk High-precision Hydraulic Expanding Mandrel Product and Services

Table 91. Schunk High-precision Hydraulic Expanding Mandrel Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. Schunk Recent Developments/Updates

Table 93. Schunk Competitive Strengths & Weaknesses

Table 94. Shree Precision Basic Information, Manufacturing Base and Competitors

Table 95. Shree Precision Major Business

Table 96. Shree Precision High-precision Hydraulic Expanding Mandrel Product and Services

Table 97. Shree Precision High-precision Hydraulic Expanding Mandrel Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. Shree Precision Recent Developments/Updates

Table 99. Shree Precision Competitive Strengths & Weaknesses

Table 100. Hainbuch GmbH Basic Information, Manufacturing Base and Competitors

Table 101. Hainbuch GmbH Major Business

Table 102. Hainbuch GmbH High-precision Hydraulic Expanding Mandrel Product and Services

Table 103. Hainbuch GmbH High-precision Hydraulic Expanding Mandrel Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. Hainbuch GmbH Recent Developments/Updates

Table 105. Hainbuch GmbH Competitive Strengths & Weaknesses

Table 106. SMW Autoblok Basic Information, Manufacturing Base and Competitors

Table 107. SMW Autoblok Major Business

Table 108. SMW Autoblok High-precision Hydraulic Expanding Mandrel Product and Services

Table 109. SMW Autoblok High-precision Hydraulic Expanding Mandrel Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 110. SMW Autoblok Recent Developments/Updates

Table 111. SMW Autoblok Competitive Strengths & Weaknesses

Table 112. Rotary Engineering Corporation Basic Information, Manufacturing Base and Competitors

Table 113. Rotary Engineering Corporation Major Business

Table 114. Rotary Engineering Corporation High-precision Hydraulic Expanding Mandrel Product and Services

Table 115. Rotary Engineering Corporation High-precision Hydraulic Expanding Mandrel Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 116. Rotary Engineering Corporation Recent Developments/Updates

Table 117. Rotary Engineering Corporation Competitive Strengths & Weaknesses

Table 118. Goriziane Basic Information, Manufacturing Base and Competitors

Table 119. Goriziane Major Business

Table 120. Goriziane High-precision Hydraulic Expanding Mandrel Product and Services

Table 121. Goriziane High-precision Hydraulic Expanding Mandrel Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 122. Goriziane Recent Developments/Updates

Table 123. Goriziane Competitive Strengths & Weaknesses

Table 124. Drewco Corporation Basic Information, Manufacturing Base and Competitors

Table 125. Drewco Corporation Major Business

Table 126. Drewco Corporation High-precision Hydraulic Expanding Mandrel Product and Services

Table 127. Drewco Corporation High-precision Hydraulic Expanding Mandrel Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 128. Drewco Corporation Recent Developments/Updates

Table 129. Drewco Corporation Competitive Strengths & Weaknesses

Table 130. Speedgrip Chuck Company Basic Information, Manufacturing Base and Competitors

Table 131. Speedgrip Chuck Company Major Business

Table 132. Speedgrip Chuck Company High-precision Hydraulic Expanding Mandrel Product and Services

Table 133. Speedgrip Chuck Company High-precision Hydraulic Expanding Mandrel Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 134. Speedgrip Chuck Company Recent Developments/Updates

Table 135. Speedgrip Chuck Company Competitive Strengths & Weaknesses

Table 136. Industrial Tools Corporation Basic Information, Manufacturing Base and Competitors

Table 137. Industrial Tools Corporation Major Business

Table 138. Industrial Tools Corporation High-precision Hydraulic Expanding Mandrel Product and Services

Table 139. Industrial Tools Corporation High-precision Hydraulic Expanding Mandrel Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 140. Industrial Tools Corporation Recent Developments/Updates

Table 141. Industrial Tools Corporation Competitive Strengths & Weaknesses

Table 142. Euro-Tech Corporation Basic Information, Manufacturing Base and Competitors

Table 143. Euro-Tech Corporation Major Business

Table 144. Euro-Tech Corporation High-precision Hydraulic Expanding Mandrel Product and Services

Table 145. Euro-Tech Corporation High-precision Hydraulic Expanding Mandrel Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 146. Euro-Tech Corporation Recent Developments/Updates

Table 147. Euro-Tech Corporation Competitive Strengths & Weaknesses

Table 148. Global Key Players of High-precision Hydraulic Expanding Mandrel Upstream (Raw Materials)

Table 149. Global High-precision Hydraulic Expanding Mandrel Typical Customers

Table 150. High-precision Hydraulic Expanding Mandrel Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. High-precision Hydraulic Expanding Mandrel Picture

Figure 2. World High-precision Hydraulic Expanding Mandrel Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World High-precision Hydraulic Expanding Mandrel Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World High-precision Hydraulic Expanding Mandrel Production (2021-2032) & (K Units)

Figure 5. World High-precision Hydraulic Expanding Mandrel Average Price (2021-2032) & (US\$/Unit)

Figure 6. World High-precision Hydraulic Expanding Mandrel Production Value Market Share by Region (2021-2032)

Figure 7. World High-precision Hydraulic Expanding Mandrel Production Market Share by Region (2021-2032)

Figure 8. North America High-precision Hydraulic Expanding Mandrel Production (2021-2032) & (K Units)

Figure 9. Europe High-precision Hydraulic Expanding Mandrel Production (2021-2032) & (K Units)

Figure 10. China High-precision Hydraulic Expanding Mandrel Production (2021-2032) & (K Units)

Figure 11. Japan High-precision Hydraulic Expanding Mandrel Production (2021-2032) & (K Units)

Figure 12. High-precision Hydraulic Expanding Mandrel Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World High-precision Hydraulic Expanding Mandrel Consumption (2021-2032) & (K Units)

Figure 15. World High-precision Hydraulic Expanding Mandrel Consumption Market Share by Region (2021-2032)

Figure 16. United States High-precision Hydraulic Expanding Mandrel Consumption (2021-2032) & (K Units)

Figure 17. China High-precision Hydraulic Expanding Mandrel Consumption (2021-2032) & (K Units)

Figure 18. Europe High-precision Hydraulic Expanding Mandrel Consumption (2021-2032) & (K Units)

Figure 19. Japan High-precision Hydraulic Expanding Mandrel Consumption (2021-2032) & (K Units)

Figure 20. South Korea High-precision Hydraulic Expanding Mandrel Consumption (2021-2032) & (K Units)

Figure 21. ASEAN High-precision Hydraulic Expanding Mandrel Consumption (2021-2032) & (K Units)

Figure 22. India High-precision Hydraulic Expanding Mandrel Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of High-precision Hydraulic Expanding Mandrel by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for High-precision Hydraulic Expanding Mandrel Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for High-precision Hydraulic Expanding Mandrel Markets in 2025

Figure 26. United States VS China: High-precision Hydraulic Expanding Mandrel Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: High-precision Hydraulic Expanding Mandrel Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: High-precision Hydraulic Expanding Mandrel Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers High-precision Hydraulic Expanding Mandrel Production Market Share 2025

Figure 30. China Based Manufacturers High-precision Hydraulic Expanding Mandrel Production Market Share 2025

Figure 31. Rest of World Based Manufacturers High-precision Hydraulic Expanding Mandrel Production Market Share 2025

Figure 32. World High-precision Hydraulic Expanding Mandrel Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World High-precision Hydraulic Expanding Mandrel Production Value Market Share by Type in 2025

Figure 34. Electric

Figure 35. Pneumatic

Figure 36. World High-precision Hydraulic Expanding Mandrel Production Market Share by Type (2021-2032)

Figure 37. World High-precision Hydraulic Expanding Mandrel Production Value Market Share by Type (2021-2032)

Figure 38. World High-precision Hydraulic Expanding Mandrel Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. World High-precision Hydraulic Expanding Mandrel Production Value by Structural Design, (USD Million), 2021 & 2025 & 2032

Figure 40. World High-precision Hydraulic Expanding Mandrel Production Value Market

Share by Structural Design in 2025

Figure 41. Solid

Figure 42. Segmented

Figure 43. World High-precision Hydraulic Expanding Mandrel Production Market Share by Structural Design (2021-2032)

Figure 44. World High-precision Hydraulic Expanding Mandrel Production Value Market Share by Structural Design (2021-2032)

Figure 45. World High-precision Hydraulic Expanding Mandrel Average Price by Structural Design (2021-2032) & (US\$/Unit)

Figure 46. World High-precision Hydraulic Expanding Mandrel Production Value by Clamping Mechanism, (USD Million), 2021 & 2025 & 2032

Figure 47. World High-precision Hydraulic Expanding Mandrel Production Value Market Share by Clamping Mechanism in 2025

Figure 48. Radial Expansion Type

Figure 49. Axial Tension Type

Figure 50. World High-precision Hydraulic Expanding Mandrel Production Market Share by Clamping Mechanism (2021-2032)

Figure 51. World High-precision Hydraulic Expanding Mandrel Production Value Market Share by Clamping Mechanism (2021-2032)

Figure 52. World High-precision Hydraulic Expanding Mandrel Average Price by Clamping Mechanism (2021-2032) & (US\$/Unit)

Figure 53. World High-precision Hydraulic Expanding Mandrel Production Value by Machine Tool Type, (USD Million), 2021 & 2025 & 2032

Figure 54. World High-precision Hydraulic Expanding Mandrel Production Value Market Share by Machine Tool Type in 2025

Figure 55. Lathe

Figure 56. Grinding Machine / Machining Center

Figure 57. World High-precision Hydraulic Expanding Mandrel Production Market Share by Machine Tool Type (2021-2032)

Figure 58. World High-precision Hydraulic Expanding Mandrel Production Value Market Share by Machine Tool Type (2021-2032)

Figure 59. World High-precision Hydraulic Expanding Mandrel Average Price by Machine Tool Type (2021-2032) & (US\$/Unit)

Figure 60. World High-precision Hydraulic Expanding Mandrel Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 61. World High-precision Hydraulic Expanding Mandrel Production Value Market Share by Application in 2025

Figure 62. Cutting Tool

Figure 63. Abrasive Tool

Figure 64. World High-precision Hydraulic Expanding Mandrel Production Market Share by Application (2021-2032)

Figure 65. World High-precision Hydraulic Expanding Mandrel Production Value Market Share by Application (2021-2032)

Figure 66. World High-precision Hydraulic Expanding Mandrel Average Price by Application (2021-2032) & (US\$/Unit)

Figure 67. High-precision Hydraulic Expanding Mandrel Industry Chain

Figure 68. High-precision Hydraulic Expanding Mandrel Procurement Model

Figure 69. High-precision Hydraulic Expanding Mandrel Sales Model

Figure 70. High-precision Hydraulic Expanding Mandrel Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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