

Global High-precision Hydraulic Expanding Mandrel Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G081187B7FE1EN.html>

Date: February 2026

Pages: 116

Price: US\$ 3,480.00 (Single User License)

ID: G081187B7FE1EN

Abstracts

According to our (Global Info Research) latest study, the global High-precision Hydraulic Expanding Mandrel market size was valued at US\$ 615 million in 2025 and is forecast to a readjusted size of US\$ 976 million by 2032 with a CAGR of 7.0% during review period.

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

Key Features:

Global High-precision Hydraulic Expanding Mandrel market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

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

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

Global High-precision Hydraulic Expanding Mandrel market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for High-precision Hydraulic Expanding Mandrel
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global High-precision Hydraulic Expanding Mandrel market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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.

Market Segmentation

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

Market segment by Type

Electric

Pneumatic

Market segment by Structural Design

Solid

Segmented

Market segment by Clamping Mechanism

Radial Expansion Type

Axial Tension Type

Market segment by Machine Tool Type

Lathe

Grinding Machine / Machining Center

Market segment by Application

Cutting Tool

Abrasive Tool

Major players covered

Positrol

Schunk

Shree Precision

Hainbuch GmbH

SMW Autoblok

Rotary Engineering Corporation

Goriziane

Drewco Corporation

Speedgrip Chuck Company

Industrial Tools Corporation

Euro-Tech Corporation

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 High-precision Hydraulic Expanding Mandrel product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-precision Hydraulic Expanding Mandrel, with price, sales quantity, revenue, and global market share of High-precision Hydraulic Expanding Mandrel from 2021 to 2026.

Chapter 3, the High-precision Hydraulic Expanding Mandrel competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-precision Hydraulic Expanding Mandrel breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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

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

Chapter 13, the key raw materials and key suppliers, and industry chain of High-

precision Hydraulic Expanding Mandrel.

Chapter 14 and 15, to describe High-precision Hydraulic Expanding Mandrel sales channel, distributors, customers, research findings and conclusion.

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