

Global Electroplated Grinding Pins and Mandrels Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Electroplated Grinding Pins and Mandrels market size was valued at US\$ 806 million in 2025 and is forecast to a readjusted size of US\$ 1122 million by 2032 with a CAGR of 4.9% during review period.

Electroplated grinding pins and mandrels are a type of rotary superhard grinding tool manufactured through an electroplating (electrodeposition) process. Their core feature is the secure attachment of a single layer of abrasive particles to the working surface of a precision-machined metal rod (needle or shaft) via a metal electroplating layer. Demand stems from the industry's need for precision internal hole grinding, cavity polishing, deburring of intersecting holes, and consistent chamfering of complex parts. This demand is primarily concentrated in areas such as aerospace engine blade tenon and groove machining, automotive fuel injection system hole precision grinding, medical device complex housing polishing, and precision mold texture finishing. These industries' pursuit of micron-level precision, perfect surface quality, and the ability to process complex geometries constitutes the core driving force behind the demand for these tools. The upstream supply chain for electroplated grinding needles and shafts mainly includes the synthesis and micronization of superhard abrasives, the machining of precision metal rods, and specialty electroplating chemicals. The downstream supply chain is directly embedded in specific processing steps of high-end manufacturing, serving as a key consumable in high-speed electric spindles, mold-making machines, five-axis grinding machines, or automated deburring units. In 2024, the production volume of electroplated grinding pins and mandrels is estimated to be 20 million to 80 million units, with an average selling price of approximately US\$2 to US\$50 per unit, a gross profit margin of approximately 30%, and a single production line capacity of

approximately 1 million units per year.

This report is a detailed and comprehensive analysis for global Electroplated Grinding Pins and Mandrels 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 Electroplated Grinding Pins and Mandrels market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Electroplated Grinding Pins and Mandrels 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 Electroplated Grinding Pins and Mandrels 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 Electroplated Grinding Pins and Mandrels 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 Electroplated Grinding Pins and Mandrels
- 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 Electroplated Grinding Pins and Mandrels 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 Saint-Gobain Abrasives, Engis

Corporation, Tyrolit, PFERD, Mitsubishi Materials Corporation, Kraus & Winter, Sunraj Industries, Noritake Diamond Industries Co., Ltd., Radiac Abrasives, DK Holdings Limited, etc.

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

Market Segmentation

Electroplated Grinding Pins and Mandrels 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

Cylindrical

Conical

Arc-shaped

Market segment by Abrasive Type

Electroplated Diamond

Electroplated CBN

Market segment by Application

Automotive

Aerospace

Medical

Mold

Other

Major players covered

Saint-Gobain Abrasives

Engis Corporation

Tyrolit

PFERD

Mitsubishi Materials Corporation

Kraus & Winter

Sunraj Industries

Noritake Diamond Industries Co., Ltd.

Radiac Abrasives

DK Holdings Limited

Abtec4Abrasives

YUBAO

Xiamen Caho Tools Technology Co., Ltd

Shenzhen Idimas Holding Co., Ltd

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 Electroplated Grinding Pins and Mandrels product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Electroplated Grinding Pins and Mandrels, with price, sales quantity, revenue, and global market share of Electroplated Grinding Pins and Mandrels from 2021 to 2026.

Chapter 3, the Electroplated Grinding Pins and Mandrels competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Electroplated Grinding Pins and Mandrels 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 Electroplated Grinding Pins and Mandrels 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 Electroplated Grinding Pins and Mandrels.

Chapter 14 and 15, to describe Electroplated Grinding Pins and Mandrels sales channel, distributors, customers, research findings and conclusion.

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