

Metal Precision Turned Product Manufacturing - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2024 - 2029)

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Abstracts

The Metal Precision Turned Product Manufacturing Market size is estimated at USD 96.06 billion in 2024, and is expected to reach USD 130.44 billion by 2029, growing at a CAGR of 6.26% during the forecast period (2024-2029).

Key Highlights

Metal precision turned product manufacturing is a fascinating market. It involves the production of high-precision metal components through turning processes. These components are used in various industries like automotive, aerospace, electronics, and more.

The market has been steadily growing due to advancements in technology and the demand for precision-engineered products. Manufacturers use advanced machinery and techniques to achieve tight tolerances and high-quality finishes.

North America, particularly the United States, has been a significant player in the metal precision turned product manufacturing market. The region has a strong manufacturing base and a high demand for precision components. The market was driven by factors such as the automotive industry, aerospace industry, and the need for advanced technology in various sectors.

The market is highly competitive, with players constantly innovating and improving their processes. The key factors driving the market include increasing demand for complex and miniature components, the need for high precision in various applications, and the growth of industries like automotive and electronics.

Metal Precision Turned Product Manufacturing Market Trends

Booming Automotive sector

Metal precision-turned products play a crucial role in the automotive sector. They are used in various components and systems within vehicles, contributing to their functionality, reliability, and performance.

Around 85 million cars and trucks were manufactured worldwide in 2022, an increase of about six percent from 2021, with China, Japan, and Germany leading the way in terms of vehicle production.

China is the world's largest passenger car producer, with over 21 million cars produced in 2021, accounting for nearly one-third of the world's passenger car production. In recent years, China has been one of the key growth markets for the global automotive industry.

In the automotive sector, metal precision-turned products are employed in several key areas. One prominent application is in the engine and powertrain systems. Precision-turned components, such as crankshafts, camshafts, and connecting rods, are vital for the smooth operation of the engine. These components undergo precise machining processes to ensure optimal performance and durability.

Additionally, metal precision-turned products are used in the transmission and drivetrain systems of vehicles. Gear shafts, axle shafts, and other critical components are manufactured with high precision to ensure efficient power transfer and smooth shifting of gears. The accuracy and quality of these turned parts are crucial for the overall performance and reliability of the vehicle.

Furthermore, metal precision-turned products find application in the steering and suspension systems of automobiles. Components like tie rods, ball joints, and control arms are manufactured with precision to maintain proper alignment and enable smooth steering and suspension movement. These turned parts contribute to the overall safety and handling characteristics of the vehicle.

Another area where metal precision-turned products are utilized in the automotive sector is braking systems. Brake caliper pistons, wheel cylinders, and various brake components undergo precise turning operations to ensure optimal braking performance

and reliability. Precision machining of these parts is essential for consistent and effective braking, contributing to the overall safety of the vehicle.

Moreover, metal precision turned products are found in various electrical and electronic systems within automobiles. Connectors, terminals, and sensor components are manufactured with precision to ensure reliable electrical connections and accurate sensing capabilities. These turned parts are critical for the proper functioning of the vehicle's electrical systems and various electronic controls.

North America Region Dominating the segment

The metal precision turned product manufacturing market in North America is a significant industry catering to various sectors such as automotive, aerospace, electronics, and more. It plays a crucial role in providing essential components for these industries.

Vehicle production is one of the most significant components of North America's economy. In 2022, North America produced approximately 14,8 million passenger cars and light commercial vehicles.

North America is made up of Canada, the US and Mexico. The US has the largest market share. In 2020, the US produced about 8.6 million cars, while Mexico and Canada produced about 4.4 million cars.

The demand for metal precision-turned products is driven by factors like economic growth, technological advancements, and evolving customer needs. As industries continue to evolve and innovate, the demand for high-quality turned components increases.

The market in North America is highly competitive, with numerous manufacturers vying for market share. Companies compete based on factors like product quality, precision, cost-effectiveness, lead times, and customer service.

The industry has witnessed significant technological advancements over the years. Computer Numerical Control (CNC) machines, automation, and advanced machining techniques have revolutionized the precision-turned-product manufacturing process. These advancements have improved efficiency, accuracy, and production capabilities.

Some notable trends in the industry include the adoption of Industry 4.0 technologies, such as the Internet of Things (IoT) and data analytics, to optimize production processes. There is also an increasing focus on sustainability and eco-friendly manufacturing practices.

Metal Precision Turned Product Manufacturing Industry Overview

In the competitive landscape of the metal precision-turned-product manufacturing market, several key players dominate the industry. The companies are competing based on factors such as product quality, precision, cost-effectiveness, innovation, and customer service. The market is highly competitive, driving companies to continuously improve their processes and stay at the forefront of technological advancements.

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Contents

1 INTRODUCTION

- 1.1 Study Assumptions and Market Definition
- 1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET DYNAMICS AND INSIGHTS

- 4.1 Market Overview
- 4.2 Market Dynamics
 - 4.2.1 Market Drivers
 - 4.2.1.1 Increasing demand from automobile industry
 - 4.2.1.2 Increased focus on precision products
 - 4.2.2 Market Restraints
 - 4.2.2.1 The cost of production and transportation
 - 4.2.2.2 Regulations and quality standards
 - 4.2.3 Market Opportunities
 - 4.2.3.1 Technological advancements driving the market
 - 4.2.3.2 Increasing focus on sustainable manufacturing
- 4.3 Industry Attractiveness - Porter's Five Forces Analysis
 - 4.3.1 Bargaining Power of Suppliers
 - 4.3.2 Bargaining Power of Buyers
 - 4.3.3 Threat of New Entrants
 - 4.3.4 Threat of Substitutes
 - 4.3.5 Intensity of Competitive Rivalry

5 MARKET SEGMENTATION

- 5.1 By Operation
 - 5.1.1 Manual Operation
 - 5.1.2 CNC Operation
- 5.2 By Machine Types
 - 5.2.1 Automatic Screw Machines
 - 5.2.2 Rotary Transfer Machines

- 5.2.3 Computer Numerically Controlled(CNC)
- 5.2.4 Lathes or Turning Center
- 5.2.5 Other Machine Types
- 5.3 By End User
 - 5.3.1 Industries
 - 5.3.2 Automobile
 - 5.3.3 Electronics
 - 5.3.4 Defense and Healthcare
 - 5.3.5 Other End Users
- 5.4 By Geography
 - 5.4.1 North America
 - 5.4.2 Europe
 - 5.4.3 Asia-Pacific
 - 5.4.4 Middle East and Africa
 - 5.4.5 Rest of the World

6 COMPETITIVE LANDSCAPE

- 6.1 Market Concentration Overview
- 6.2 Company Profiles
 - 6.2.1 Kunshan Kesen Technology Co., Ltd.
 - 6.2.2 Jiangsu Jingyan Technology Co., Ltd.
 - 6.2.3 Suzhou Ruima Precision Industry Co., Ltd.
 - 6.2.4 Zhejiang Rongyi Precision Machinery Co., Ltd.
 - 6.2.5 Jiangsu Mimo Metal Co., Ltd.
 - 6.2.6 Pmpinc
 - 6.2.7 Precision Metal Products Company
 - 6.2.8 APCS
- 6.3 Other Companies (Key Information/Overview)

7 FUTURE OF THE MARKET

8 APPENDIX

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