

Ceramic Roller Bearings Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/CA9D35E2BA38EN.html>

Date: March 2023

Pages: 105

Price: US\$ 2,499.00 (Single User License)

ID: CA9D35E2BA38EN

Abstracts

The global ceramic roller bearings market size reached US\$ 375.4 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 626.2 Million by 2028, exhibiting a growth rate (CAGR) of 9.1% during 2023-2028.

Ceramic roller bearings are designed to carry heavy loads while minimizing friction by using rolling cylindrical elements. These roller bearings are composed of different materials, such as silicon nitride, zirconium oxide, aluminum oxide, and silicon carbide. Ceramic roller bearings exhibit low thermal conductivity, enhanced electrical insulation, better dimensional stability, improved water resistance, etc. As a result, they find extensive applications across diverse industries, such as railways, power generation, aerospace, automotive, marine, etc.

The elevating levels of industrialization along with the increasing penetration of automation trends for heavy-duty applications are propelling the demand for ceramic roller bearings. Furthermore, the growing shift from conventional stainless-steel bearings towards ceramic-based alternatives for higher precision, lower friction, improved wear and tear resistance, etc., is also driving the global market. Apart from this, a significant growth in the automotive industry is catalyzing the adoption of ceramic roller bearings in passenger cars and commercial vehicles. In line with this, the rising demand for lightweight materials in automotive components has led to the integration of both stainless steel and ceramic roller bearings that offer high-temperature resistance and enhanced fuel efficiency. Moreover, the increasing adoption of ceramic roller bearings in manufacturing rail and marine equipment based on excellent electrical insulation and better suitability in highly corrosive environments is also propelling the market growth. Additionally, several manufacturers are focusing on improving the

performance of ceramic roller bearings by deploying advanced seal and lubrication technologies, which will further continue to drive the market in the coming years.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global ceramic roller bearings market report, along with forecasts at the global and regional level from 2023-2028. Our report has categorized the market based on type, product type and application.

Breakup by Type:

- Silicon Nitride
- Zirconium Oxide
- Others

Breakup by Product Type:

- Hybrid Ceramic Roller Bearings
- Full Ceramic Roller Bearings

Breakup by Application:

- Automotive and Railways
- Industrial and Mechanical Equipment
- Power Generation
- Aerospace
- Others

Breakup by Region:

- China
- Europe
- United States
- Japan
- Rest of Asia Pacific
- Others

Competitive Landscape:

The competitive landscape of the industry has also been examined with some of the key players being AB SKF, Cerabea Co. Ltd., CeramicSpeed, CeramTec GmbH, Emerson Bearing Company, Hentec Oy Ab, JTEKT Corporation, NSK Ltd., Ortech Advanced Ceramics, Schaeffler Technologies AG & Co. KG and The Timken Company.

Key Questions Answered in This Report:

How has the global ceramic roller bearings market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global ceramic roller bearings market?

What are the key regional markets?

What is the breakup of the market based on the type?

What is the breakup of the market based on the product type?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global ceramic roller bearings market and who are the key players?

What is the degree of competition in the industry?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL CERAMIC ROLLER BEARINGS MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY TYPE

- 6.1 Silicon Nitride
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Zirconium Oxide
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Others

6.3.1 Market Trends

6.3.2 Market Forecast

7 MARKET BREAKUP BY PRODUCT TYPE

7.1 Hybrid Ceramic Roller Bearings

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Full Ceramic Roller Bearings

7.2.1 Market Trends

7.2.2 Market Forecast

8 MARKET BREAKUP BY APPLICATION

8.1 Automotive and Railways

8.1.1 Market Trends

8.1.2 Market Forecast

8.2 Industrial and Mechanical Equipment

8.2.1 Market Trends

8.2.2 Market Forecast

8.3 Power Generation

8.3.1 Market Trends

8.3.2 Market Forecast

8.4 Aerospace

8.4.1 Market Trends

8.4.2 Market Forecast

8.5 Others

8.5.1 Market Trends

8.5.2 Market Forecast

9 MARKET BREAKUP BY REGION

9.1 China

9.1.1 Market Trends

9.1.2 Market Breakup by Type

9.1.3 Market Breakup by Product Type

9.1.4 Market Breakup by Application

9.1.5 Market Forecast

9.2 Europe

- 9.2.1 Market Trends
- 9.2.2 Market Breakup by Type
- 9.2.3 Market Breakup by Product Type
- 9.2.4 Market Breakup by Application
- 9.2.5 Market Forecast
- 9.3 United States
 - 9.3.1 Market Trends
 - 9.3.2 Market Breakup by Type
 - 9.3.3 Market Breakup by Product Type
 - 9.3.4 Market Breakup by Application
 - 9.3.5 Market Forecast
- 9.4 Japan
 - 9.4.1 Market Trends
 - 9.4.2 Market Breakup by Type
 - 9.4.3 Market Breakup by Product Type
 - 9.4.4 Market Breakup by Application
 - 9.4.5 Market Forecast
- 9.5 Rest of Asia Pacific
 - 9.5.1 Market Trends
 - 9.5.2 Market Forecast
- 9.6 Others
 - 9.6.1 Market Trends
 - 9.6.2 Market Forecast

10 SWOT ANALYSIS

- 10.1 Overview
- 10.2 Strengths
- 10.3 Weaknesses
- 10.4 Opportunities
- 10.5 Threats

11 VALUE CHAIN ANALYSIS

- 11.1 Mining Companies
- 11.2 Raw Material Suppliers
- 11.3 Ceramic Roller Bearing Manufacturers
- 11.4 Distributors
- 11.5 End Use Industries

12 PORTERS FIVE FORCES ANALYSIS

- 12.1 Bargaining Power of Buyers
- 12.2 Bargaining Power of Suppliers
- 12.3 Degree of Competition
- 12.4 Threat of New Entrants
- 12.5 Threat of Substitutes

13 PRICE ANALYSIS

- 13.1 Key Price Indicators
- 13.2 Price Structure

14 COMPETITIVE LANDSCAPE

- 14.1 Market Structure
- 14.2 Key Players
- 14.3 Profiles of Key Players
 - 14.3.1 AB SKF
 - 14.3.1.1 Company Overview
 - 14.3.1.2 Product Portfolio
 - 14.3.2 Cerabea Co. Ltd.
 - 14.3.2.1 Company Overview
 - 14.3.2.2 Product Portfolio
 - 14.3.3 CeramicSpeed
 - 14.3.3.1 Company Overview
 - 14.3.3.2 Product Portfolio
 - 14.3.4 CeramTec GmbH
 - 14.3.4.1 Company Overview
 - 14.3.4.2 Product Portfolio
 - 14.3.5 Emerson Bearing Company
 - 14.3.5.1 Company Overview
 - 14.3.5.2 Product Portfolio
 - 14.3.6 Hentec Oy Ab
 - 14.3.6.1 Company Overview
 - 14.3.6.2 Product Portfolio
 - 14.3.7 JTEKT Corporation
 - 14.3.7.1 Company Overview

- 14.3.7.2 Product Portfolio
- 14.3.8 NSK Ltd.
 - 14.3.8.1 Company Overview
 - 14.3.8.2 Product Portfolio
- 14.3.9 Ortech Advanced Ceramics
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
- 14.3.10 Schaeffler Technologies AG & Co. KG
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio
- 14.3.11 The Timken Company
 - 14.3.11.1 Company Overview
 - 14.3.11.2 Product Portfolio

List Of Tables

LIST OF TABLES

Table 1: Global: Ceramic Roller Bearings Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Ceramic Roller Bearings Market Forecast: Breakup by Type (in Million US\$), 2023-2028

Table 3: Global: Ceramic Roller Bearings Market Forecast: Breakup by Product type (in Million US\$), 2023-2028

Table 4: Global: Ceramic Roller Bearings Market Forecast: Breakup by Application (in Million US\$), 2023-2028

Table 5: Global: Ceramic Roller Bearings Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 6: Global: Ceramic Roller Bearings Market: Competitive Structure

Table 7: Global: Ceramic Roller Bearings Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Ceramic Roller Bearings Market: Major Drivers and Challenges

Figure 2: Global: Ceramic Roller Bearings Market: Sales Value (in Million US\$), 2017-2022

Figure 3: Global: Ceramic Roller Bearings Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 4: Global: Ceramic Roller Bearings Market: Breakup by Type (in %), 2022

Figure 5: Global: Ceramic Roller Bearings Market: Breakup by Product Type (in %), 2022

Figure 6: Global: Ceramic Roller Bearings Market: Breakup by Application (in %), 2022

Figure 7: Global: Ceramic Roller Bearings Market: Breakup by Region (in %), 2022

Figure 8: Global: Ceramic Roller Bearings (Silicon Nitride) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 9: Global: Ceramic Roller Bearings (Silicon Nitride) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 10: Global: Ceramic Roller Bearings (Zirconium Oxide) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 11: Global: Ceramic Roller Bearings (Zirconium Oxide) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 12: Global: Ceramic Roller Bearings (Other Types) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 13: Global: Ceramic Roller Bearings (Other Types) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 14: Global: Ceramic Roller Bearings (Hybrid Ceramic Roller Bearings) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 15: Global: Ceramic Roller Bearings (Hybrid Ceramic Roller Bearings) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 16: Global: Ceramic Roller Bearings (Full Ceramic Roller Bearings) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 17: Global: Ceramic Roller Bearings (Full Ceramic Roller Bearings) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 18: Global: Ceramic Roller Bearings (Automotive and Railways) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 19: Global: Ceramic Roller Bearings (Automotive and Railways) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 20: Global: Ceramic Roller Bearings (Industrial and Mechanical Equipment)

Market: Sales Value (in Million US\$), 2017 & 2022

Figure 21: Global: Ceramic Roller Bearings (Industrial and Mechanical Equipment)

Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 22: Global: Ceramic Roller Bearings (Power Generation) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 23: Global: Ceramic Roller Bearings (Power Generation) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 24: Global: Ceramic Roller Bearings (Aerospace) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 25: Global: Ceramic Roller Bearings (Aerospace) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 26: Global: Ceramic Roller Bearings (Other Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 27: Global: Ceramic Roller Bearings (Other Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 28: China: Ceramic Roller Bearings Market: Sales Value (in Million US\$), 2017 & 2022

Figure 29: China: Ceramic Roller Bearings Market: Breakup by Type (in %), 2022

Figure 30: China: Ceramic Roller Bearings Market: Breakup by Product Type (in %), 2022

Figure 31: China: Ceramic Roller Bearings Market: Breakup by Application (in %), 2022

Figure 32: China: Ceramic Roller Bearings Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: Europe: Ceramic Roller Bearings Market: Sales Value (in Million US\$), 2017 & 2022

Figure 34: Europe: Ceramic Roller Bearings Market: Breakup by Type (in %), 2022

Figure 35: Europe: Ceramic Roller Bearings Market: Breakup by Product Type (in %), 2022

Figure 36: Europe: Ceramic Roller Bearings Market: Breakup by Application (in %), 2022

Figure 37: Europe: Ceramic Roller Bearings Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 38: United States: Ceramic Roller Bearings Market: Sales Value (in Million US\$), 2017 & 2022

Figure 39: United States: Ceramic Roller Bearings Market: Breakup by Type (in %), 2022

Figure 40: United States: Ceramic Roller Bearings Market: Breakup by Product Type (in %), 2022

Figure 41: United States: Ceramic Roller Bearings Market: Breakup by Application (in %), 2022

%), 2022

Figure 42: United States: Ceramic Roller Bearings Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 43: Japan: Ceramic Roller Bearings Market: Sales Value (in Million US\$), 2017 & 2022

Figure 44: Japan: Ceramic Roller Bearings Market: Breakup by Type (in %), 2022

Figure 45: Japan: Ceramic Roller Bearings Market: Breakup by Product Type (in %), 2022

Figure 46: Japan: Ceramic Roller Bearings Market: Breakup by Application (in %), 2022

Figure 47: Japan: Ceramic Roller Bearings Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 48: Rest of Asia Pacific: Ceramic Roller Bearings Market: Sales Value (in Million US\$), 2017 & 2022

Figure 49: Rest of Asia Pacific: Ceramic Roller Bearings Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 50: Others: Ceramic Roller Bearings Market: Sales Value (in Million US\$), 2017 & 2022

Figure 51: Others: Ceramic Roller Bearings Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 52: Global: Ceramic Roller Bearings Industry: SWOT Analysis

Figure 53: Global: Ceramic Roller Bearings Industry: Value Chain Analysis

Figure 54: Global: Ceramic Roller Bearings Industry: Porter's Five Forces Analysis

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