

Global Tungsten Carbide Roller Ring Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Tungsten Carbide Roller Ring market size is expected to reach \$ 885 million by 2032, rising at a market growth of 5.3% CAGR during the forecast period (2026-2032).

Tungsten carbide roller ring, also known as hard alloy roller ring, is a type of hard material and an important component with high consumption in steel bar and wire rolling. Tungsten carbide roller rings are produced by powder metallurgy using tungsten carbide powder and cobalt powder (with the addition of small amounts of other hard phases or alloying elements) as raw materials. The production process is as follows: alloy material preparation - compression molding - vacuum sintering and HIP hot isostatic pressing - flat grinding rough machining - ultrasonic non-destructive testing - flat grinding precision machining - grinding inner holes - grinding outer circles - chamfering processing - slotting (including threaded grooves) - laser marking - comprehensive inspection - packaging and delivery. With the development of automation and intelligent steelmaking rolling in the metallurgical and steel industry, the requirements for rolling speed and roll material are becoming increasingly high. As one of the hardest metal rolls currently available, tungsten carbide roll rings have a rolling speed generally above 75m/s, with the highest rolling speed reaching 120-140m/s. Therefore, they are widely used in high-speed wire rod mills. In 2025, global Tungsten Carbide Roller Ring production reached approximately 11.36 K MT, with an average global market price of around US\$ 52.69 per kg.

The market trend of tungsten carbide roller rings can be summarized as four main lines: 'penetration rate continues to increase, materials and processes are upgraded, cost and supply chain fluctuations intensify, and recycling speeds up.' In the pre-finishing and finishing rolling stands of high-speed bar and wire rolling, tungsten carbide roll rings are continuing to replace some high-alloy steel roll rings due to their longer pass life, lower roll replacement frequency and better dimensional stability, especially in high linear

speed units and high value-added steel types. Products are shifting from the pure pursuit of high hardness to a comprehensive reliability upgrade of 'hot crack resistance, chipping resistance, and spalling resistance.' Typical paths include finer grain size control of tungsten carbide, optimization of the bonding phase system, and reduction of pores and defects through densification processes such as hot isostatic pressing, thereby improving fatigue resistance and stable life performance. The price fluctuations of upstream tungsten resources and tungsten carbide powder are more sensitive to the cost transmission of roll rings. Factors such as key minerals and export controls are superimposed, and the uncertainty of the supply chain increases. Steel mills and roll mills are more inclined to sign annual frameworks, lock prices, and prepare stocks from multiple sources to hedge risks. Due to the dual drive of cost and compliance, the recycling of scrap cemented carbide has become more popular, and more closed-loop systems for recycling tungsten have begun to be introduced at the roller ring end to reduce dependence on primary tungsten and stabilize supply. This report studies the global Tungsten Carbide Roller Ring production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Tungsten Carbide Roller Ring 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 Tungsten Carbide Roller Ring that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Tungsten Carbide Roller Ring total production and demand, 2021-2032, (Kilotons)

Global Tungsten Carbide Roller Ring total production value, 2021-2032, (USD Million)

Global Tungsten Carbide Roller Ring production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Tungsten Carbide Roller Ring consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Tungsten Carbide Roller Ring domestic production, consumption, key domestic manufacturers and share

Global Tungsten Carbide Roller Ring production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Tungsten Carbide Roller Ring production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Tungsten Carbide Roller Ring production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Tungsten Carbide Roller Ring 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 Lonsun Metallurgy Machinery, Kark GmbH, Gamma Rolls, Danieli, LMM GROUP, Yatech Materials, Penglai Cemented Carbide, Zhuzhou Jinxin Hard Alloy Group, Zhengjiang Hengcheng Cemented Carbide, Zhuzhou Lizhou Cemented Carbide, 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 Tungsten Carbide Roller Ring market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Kg) 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 Tungsten Carbide Roller Ring Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Tungsten Carbide Roller Ring Market, Segmentation by Type:

Monolithic

Combinatorial

Global Tungsten Carbide Roller Ring Market, Segmentation by Application Conditions:

High Speed Wire Roller Ring

Rebar Steel Roller Ring

High Speed Bar Roller Ring

Others

Global Tungsten Carbide Roller Ring Market, Segmentation by Application:

Steel Industry

Mechanical Manufacturing

Oil and Gas

Other

Companies Profiled:

Lonsun Metallurgy Machinery

Kark GmbH

Gamma Rolls

Danieli

LMM GROUP

Yatech Materials

Penglai Cemented Carbide

Zhuzhou Jinxin Hard Alloy Group

Zhengjiang Hengcheng Cemented Carbide

Zhuzhou Lizhou Cemented Carbide

Zunyi Zhongbo Cemented Carbide

Hyperion Materials & Technologies

Luoyang Golden Egret Geotools

Yantai Dongxing Group

Zhuzhou Ruiao Tungsten Carbide

Tianyi High-Tech Cemented Carbide

Jinchuan Group

Key Questions Answered:

1. How big is the global Tungsten Carbide Roller Ring market?
2. What is the demand of the global Tungsten Carbide Roller Ring market?
3. What is the year over year growth of the global Tungsten Carbide Roller Ring market?
4. What is the production and production value of the global Tungsten Carbide Roller Ring market?
5. Who are the key producers in the global Tungsten Carbide Roller Ring market?
6. What are the growth factors driving the market demand?

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