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Global Metal Tire Mold Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Metal Tire Mold market size is expected to reach $ 2308 million by 2032, rising at a market growth of 3.0% CAGR during the forecast period (2026-2032).

Metal Tire Mold is a precision metal tooling set used in tire manufacturing to form the tire's final geometry and surface features during vulcanization. It defines the tread pattern, sidewall lettering, dimensions, and venting details, and must withstand repeated high-temperature and high-pressure curing cycles while maintaining tight tolerances. Compared with simplified tooling, metal tire molds emphasize durability, heat stability, and surface finish consistency, supporting stable mass production and repeatable tire appearance and performance.

Upstream, metal tire molds rely on alloy steels or aluminum alloys, mold plates/segments, precision castings or forged blanks, and consumables such as coatings, release agents, and surface-treatment chemicals. Typical production lines include CAD/CAE design, CNC machining, engraving/EDM, drilling of vent holes, assembly and fitting, surface treatment (e.g., plating, nitriding, shot blasting), and final inspection. Downstream customers are tire manufacturers (passenger car, truck/bus, off-road, motorcycle, specialty tires), along with tire mold service providers that offer repair, re-engraving, and lifecycle maintenance; end demand is linked to tire model upgrades, capacity expansion, and replacement of worn molds.

In 2025, global metal tire mold production reached approximately 88,553 units, with an average price of $20.2 thousand per unit.

The metal tire mold market is closely tied to tire production volume and the pace of new tire pattern development. As tire makers accelerate product refresh cycles to meet

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evolving performance expectations—such as lower rolling resistance, improved wet grip, reduced noise, and higher wear resistance—the demand shifts from purely replacement purchasing to a mix of replacement, incremental capacity expansion, and new-pattern tooling investment. This pushes mold suppliers to offer faster design-to-delivery lead times, higher machining accuracy, and better consistency across multi-cavity or segmented mold sets, especially for high-volume platforms where appearance uniformity and dimensional stability directly affect tire yield and brand perception.

Technology upgrading is a key theme. More suppliers are integrating digital design, simulation-driven venting and flow optimization, automated CNC/EDM cell production, and standardized modular components to improve throughput and reduce variation. At the same time, tire makers increasingly value lifecycle services—repair, polishing, re-engraving, and coating refurbishment—because downtime and scrap rates can outweigh the initial mold cost over long operating cycles. Cost pressure remains significant: raw material prices, energy, and skilled labor shortages encourage suppliers to improve automation and material utilization, while customers push for longer mold life and predictable maintenance intervals. Regional manufacturing footprints matter as well, since tire plants often prefer nearby mold partners for faster support and logistics efficiency. Overall, the market’s competitiveness is shaped by precision capability, delivery reliability, service coverage, and the ability to co-develop new tread patterns with tire OEM engineering teams.

This report studies the global Metal Tire Mold production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Metal Tire Mold 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 Metal Tire Mold that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Metal Tire Mold total production and demand, 2021-2032, (Units)

Global Metal Tire Mold total production value, 2021-2032, (USD Million)

Global Metal Tire Mold production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

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Global Metal Tire Mold consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Metal Tire Mold domestic production, consumption, key domestic manufacturers and share

Global Metal Tire Mold production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Metal Tire Mold production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Metal Tire Mold production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Metal Tire Mold 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 Himile, Hefei DADAO Mould, Tianyang, Dynamic Design, Greatoo, Yokohama Mold Co, King Machine, Hankook Precision Works, Uzer Makina, LiChond Mould, 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 Metal Tire Mold market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (US$/Unit) 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 Metal Tire Mold Market, By Region:

United States

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China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Metal Tire Mold Market, Segmentation by Type:

Segmented Molds

Two-Piece Molds

Global Metal Tire Mold Market, Segmentation by Material:

Aluminum

Steel

Global Metal Tire Mold Market, Segmentation by Application:

PCR

TBR

OTR

Others

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Companies Profiled:

- Himile
- Hefei DADAO Mould
- Tianyang
- Dynamic Design
- Greatoo
- Yokohama Mold Co
- King Machine
- Hankook Precision Works
- Uzer Makina
- LiChond Mould
- Shandong Yaokun Moulds
- MESNAC
- Shandong Wantong Mould
- HERBERT
- SeYoung TMS
- NGK Fine Molds
- EMT P?chov s.r.o
- GMJ

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Haomaitong

Key Questions Answered:

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

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