

# Global Tool Steel Powder Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Tool Steel Powder market size is expected to reach \$ 413 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

Tool Steel Powder refers to pre-alloyed ferrous powders whose compositions correspond to common tool-steel families (e.g., cold-work, hot-work, high-speed steels, and plastic-mould steels). They are supplied specifically for powder metallurgy (PM) consolidation and additive manufacturing (AM) to deliver tool-steel attributes?wear resistance, hot strength/red hardness, and resistance to chipping/cracking?into near-net-shape parts and tooling components with improved consistency.

Upstream, the value chain starts from iron sources and alloying additions (C/Cr/Mo/V/W, etc.), followed by melting/refining with tight control of inclusions and gas pick-up, then atomization media/atmosphere (often inert gas), and post-processing (screening/classification, conditioning/annealing, oxygen control). In a representative PM tool-steel route, the melt is fragmented by high-speed gas jets into droplets that rapidly solidify into powder, before encapsulation and HIP consolidation to reduce segregation and improve cleanliness.

Downstream, the powder is routed by shaping technology: HIP consolidation ? forging/rolling into billets/bars and finished components; press-and-sinter for wear-resistant PM parts; metal injection moulding (MIM) for small, highly complex components; and additive manufacturing for conformal-cooled inserts, rapid tooling, repair, and near-net-shape fabrication. Each route drives different powder specifications (particle-size cut, morphology, flowability, oxygen/impurity levels), so commercial tool-steel powders are typically engineered around the targeted process window.

In 2025, global sales of Tool Steel Powder reached approximately 10,238 tons, with an average global market price of around US\$ 26/kg. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 20% to 35%.

Demand for tool steel powder is being pulled by a broader upgrade in how high-wear, high-temperature tooling and components are designed and manufactured. In conventional tooling, powder routes enable tighter chemistry control and microstructural uniformity, which translate into more stable hot-strength, thermal-fatigue resistance, and wear performance. In parallel, additive manufacturing has made tool steel powder a process-critical consumable: conformal cooling, rapid repair, and low-volume customization shift the focus from ?material choice? to ?qualified powder + repeatable process window.?

On the supply side, the real barrier is consistency at scale. Atomization control, oxygen and nitrogen management, particle size distribution, sphericity, defect populations, and powder flow/density stability all map directly to build quality and repeatability. Customer adoption is further slowed by qualification requirements that tie powder lots to data packages, process parameters, and quality systems. Profitability is sensitive to alloying and energy costs, yet in high-end applications traceability and delivery stability typically outweigh pure lowest-price purchasing.

Demand for tool steel powder is being pulled by a broader upgrade in how high-wear, high-temperature tooling and components are designed and manufactured. In conventional tooling, powder routes enable tighter chemistry control and microstructural uniformity, which translate into more stable hot-strength, thermal-fatigue resistance, and wear performance. In parallel, additive manufacturing has made tool steel powder a process-critical consumable: conformal cooling, rapid repair, and low-volume customization shift the focus from ?material choice? to ?qualified powder + repeatable process window.? Public statements from leading suppliers emphasizing a sharper focus on metal powder sales support the view that downstream investment in high-quality powder is ongoing.

This report studies the global Tool Steel Powder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Tool Steel Powder 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 Tool Steel Powder that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Tool Steel Powder total production and demand, 2021-2032, (Tons)

Global Tool Steel Powder total production value, 2021-2032, (USD Million)

Global Tool Steel Powder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Tool Steel Powder consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Tool Steel Powder domestic production, consumption, key domestic manufacturers and share

Global Tool Steel Powder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Tool Steel Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Tool Steel Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Tool Steel Powder 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 Sandvik, Carpenter Additive, H?gan?s, AMETEK, Erasteel, Daido Steel, Oerlikon Metco, ArcelorMittal Powders, Mitsubishi Steel MFG, HLPOWDER, 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 Tool Steel Powder market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 Tool Steel Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Tool Steel Powder Market, Segmentation by Type:

M Series

D Series

T Series

Other

Global Tool Steel Powder Market, Segmentation by Powder Production Route:

Gas Atomization (GA)

Water Atomization (WA)

Plasma Atomization

Other

Global Tool Steel Powder Market, Segmentation by Particle Morphology:

Spherical Powder

Near-spherical Powder

Irregular Powder

Global Tool Steel Powder Market, Segmentation by Application:

Powder Metallurgy

3D Printing

Biomedical

Other

### **Companies Profiled:**

Sandvik

Carpenter Additive

H?gan?s

AMETEK

Erasteel

Daido Steel

Oerlikon Metco

ArcelorMittal Powders

Mitsubishi Steel MFG

HLPOWDER

Advanced Technology & Materials

Chung Yo Materials

### **Key Questions Answered:**

1. How big is the global Tool Steel Powder market?
2. What is the demand of the global Tool Steel Powder market?
3. What is the year over year growth of the global Tool Steel Powder market?
4. What is the production and production value of the global Tool Steel Powder market?

5. Who are the key producers in the global Tool Steel Powder market?
6. What are the growth factors driving the market demand?

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