

# Global T1 High-Speed Steel Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global T1 High-Speed Steel market size was valued at US\$ 1159 million in 2025 and is forecast to a readjusted size of US\$ 1530 million by 2032 with a CAGR of 4.1% during review period.

In 2025, global T1 High-Speed Steel production reached approximately 901 kilotons with an average global market price of around US\$1,250 per ton. Single-line annual production capacity averages 160 kilotons with a gross margin of approximately 27%. The upstream of T1 High-Speed Steel primarily includes high-quality carbon steel, alloy elements (such as tungsten and chromium), and iron alloys, which are mainly concentrated in high-end manufacturing and the aerospace industry; in terms of downstream applications, cutting tools account for about 60%, molds for about 20%, mechanical parts for about 15%, and other applications for about 5%; the demand for T1 High-Speed Steel is robust, particularly in fields that require high precision processing and wear resistance, with business opportunities focusing on the research and development of new materials and the expansion into the high-end product market.

High-Speed Steel (HSS) is a category of tool steel renowned for its exceptional hardness and high thermal conductivity, making it ideal for cutting tools subjected to extreme temperatures and demanding cutting conditions. Within the HSS family, W18Cr4V, a?????, stands out for its superior edge retention and toughness, while AISI T1 is a high-speed steel known for its balanced combination of hardness, wear resistance, and red hardness. Both materials share a high carbon content and significant amounts of tungsten and chromium, which contribute to their ability to withstand elevated temperatures and maintain sharp edges during cutting. W18Cr4V, with its 18% tungsten content, offers exceptional red hardness, making it suitable for

tools that require resistance to thermal deformation at high speeds. Conversely, AISI T1, with a more balanced tungsten content, provides a compromise between red hardness and toughness, ensuring durability and resistance to chipping. The key to both steels lies in their ability to be heat treated to achieve a fine grain structure, which enhances their hardness and wear resistance, while the tungsten content retards the formation of carbides, maintaining the steel's toughness and resistance to thermal shock.

The industry trends for T1 High-Speed Steel are poised to center around the enhancement of high-performance characteristics, including increased red hardness, wear resistance, and toughness to meet the demands of more advanced machining challenges. Simultaneously, lightweight design will be a key focus to address the weight reduction requirements in industries such as aerospace and automotive. Environmental sustainability will be a cornerstone in production processes, with a shift towards more eco-friendly manufacturing techniques and cooling media to minimize environmental impact. Furthermore, customized services will cater to specific user needs, and composite technologies will be integrated to boost performance. The advent of smart manufacturing will drive automation, intelligent inspection, and predictive maintenance, while a globalized supply chain will optimize resource allocation and cost reduction. Overall, the T1 High-Speed Steel industry is committed to technological innovation, aiming to achieve cost control, performance optimization, and sustainable development.

This report is a detailed and comprehensive analysis for global T1 High-Speed Steel market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global T1 High-Speed Steel market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global T1 High-Speed Steel market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global T1 High-Speed Steel market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global T1 High-Speed Steel market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for T1 High-Speed Steel

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global T1 High-Speed Steel market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Sandvik, Bohler, Hitachi Metals, Kennametal, Daido Steel, Crucible Industries, Erasteel, Walter, Mitsubishi Materials, Champion Cutting Tool, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### **Market Segmentation**

T1 High-Speed Steel market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Round Bar Type

Flat Type

Square Type

#### Market segment by Hardening Type

Air Hardening Tool Steel

Oil Hardening Tool Steel

#### Market segment by Processing Method

Hot-rolled HSS

Forged HSS

Others

#### Market segment by Application

Cutting Tools

Molds

Machinery Parts

Others

#### Major players covered

Sandvik

Bohler

Hitachi Metals

Kennametal

Daido Steel

Crucible Industries

Erasteel

Walter

Mitsubishi Materials

Champion Cutting Tool

O?Hare Precision Metals

HEYE Special Steel

Shanghai Hangbo Alloy Group

Shanghai Yuangang

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe T1 High-Speed Steel product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of T1 High-Speed Steel, with price, sales quantity, revenue, and global market share of T1 High-Speed Steel from 2021 to 2026.

Chapter 3, the T1 High-Speed Steel competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the T1 High-Speed Steel breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and T1 High-Speed Steel market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of T1 High-Speed Steel.

Chapter 14 and 15, to describe T1 High-Speed Steel sales channel, distributors, customers, research findings and conclusion.

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