

Global Air-hardening Tool Steel Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Air-hardening Tool Steel market size is expected to reach \$ 624 million by 2032, rising at a market growth of 3.4% CAGR during the forecast period (2026-2032).

Air-hardening tool steel was developed to address the critical bottleneck of traditional high-carbon tool steel, which suffers from severe deformation and cracking during quenching, failing to meet the requirements of precision and complex mold and cutting tool manufacturing. Its core characteristics are: 1. Alloying: Containing high levels of alloying elements (such as chromium, molybdenum, vanadium, and manganese), significantly improving the steel's hardenability. 2. Quenching medium: High-hardness martensitic structure can be obtained simply by cooling in still or flowing air. Demand stems from the urgent need in modern manufacturing for high-precision, long-life, and low-deformation tools and molds. Its upstream supply chain is centered on special metallurgy, including suppliers of high-quality scrap steel, ferroalloys (chromium, molybdenum, vanadium, etc.), and graphite electrodes, as well as steel mills with advanced processes such as vacuum smelting and electroslag remelting. Downstream, it directly connects with tool manufacturers and mold makers, with the final products widely used in the manufacturing of cutting tools, stamping dies, plastic molds, die-casting molds, and precision measuring tools. In 2025, the output of air-hardening tool steel will be approximately 120,000 tons, with an average price of approximately US\$4,000 per ton, a gross profit margin of approximately 30%, and a single production line capacity of 2,000 tons per year.

This report studies the global Air-hardening Tool Steel production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Air-

hardening Tool Steel 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 Air-hardening Tool Steel that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Air-hardening Tool Steel total production and demand, 2021-2032, (Kilotons)

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

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

Global Air-hardening Tool Steel consumption by region & country, CAGR, 2021-2032 & (Kilotons)

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

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

Global Air-hardening Tool Steel production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Air-hardening Tool Steel production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Air-hardening Tool Steel 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 Bohler-Uddeholm (Unlisted, Kapfenberg Austria), Carpenter Technology Corporation (Listed, Pennsylvania USA), Kind & Co. Edelstahlwerk (Unlisted, Wiehl Germany), Daido Steel Co., Ltd. (Listed, Nagoya Japan), Nachi-Fujikoshi Corp. (Listed, Tokyo Japan), ASSAB (Unlisted, Singapore), GMH Gruppe SE & Co. KG (Unlisted, Georgsmarienhutte Germany), Crucible Industries LLC (Unlisted, New York USA), Erasteel SAS (Unlisted, Paris France), Swiss Steel Group (Listed, Lucerne Switzerland), 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 Air-hardening Tool Steel market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (KUS\$/Ton) 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 Air-hardening Tool Steel Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Air-hardening Tool Steel Market, Segmentation by Type:

Air-Hardening Cold-Work Tool Steels

Air-Hardening Hot-Work Tool Steels

Global Air-hardening Tool Steel Market, Segmentation by Manufacturing Process:

Conventionally Melted Air-Hardening Tool Steels

Electroslag Remelted (ESR) Air-Hardening Tool Steels

Powder Metallurgy (PM) Air-Hardening Tool Steels

Global Air-hardening Tool Steel Market, Segmentation by Application:

Mold

Cut Tool

Measuring Tool

Other

Companies Profiled:

Bohler-Uddeholm (Unlisted, Kapfenberg Austria)

Carpenter Technology Corporation (Listed, Pennsylvania USA)

Kind & Co. Edelstahlwerk (Unlisted, Wiehl Germany)

Daido Steel Co., Ltd. (Listed, Nagoya Japan)

Nachi-Fujikoshi Corp. (Listed, Tokyo Japan)

ASSAB (Unlisted, Singapore)

GMH Gruppe SE & Co. KG (Unlisted, Georgsmarienhutte Germany)

Crucible Industries LLC (Unlisted, New York USA)

Erasteel SAS (Unlisted, Paris France)

Swiss Steel Group (Listed, Lucerne Switzerland)

Sanyo Special Steel Co., Ltd. (Listed, Osaka Japan)

BaoWu Special Steel Co., Ltd. (Unlisted, Shanghai China)

Fushun Special Steel Co., Ltd. (Listed, Liaoning China)

Dongbei Special Steel Group Co., Ltd. (Unlisted, Liaoning China)

TG International Co., Ltd. (Listed, Jiangsu China)

POSCO Specialty Steel Co., Ltd. (Unlisted, Gyeongsangbuk-do South Korea)

SeAH Besteel Corporation (Listed, Seoul South Korea)

Nova Tech, Inc. (Unlisted, Rhode Island USA)

Key Questions Answered:

1. How big is the global Air-hardening Tool Steel market?
2. What is the demand of the global Air-hardening Tool Steel market?
3. What is the year over year growth of the global Air-hardening Tool Steel market?
4. What is the production and production value of the global Air-hardening Tool Steel market?
5. Who are the key producers in the global Air-hardening Tool Steel market?
6. What are the growth factors driving the market demand?

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