

Global Tool Steel for Plastic Injection Molding Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Tool Steel for Plastic Injection Molding market size is expected to reach \$ 6340 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

In 2025, global Tool Steel for Plastic Injection Molding production reached approximately 1,350 K tons, with an average global market price of around 3,200 US\$/ton.

Tool Steel for Injection Molding refers to special tool steel used to manufacture plastic injection molds, including mold cavities, cores, inserts, sliders, guide components, hot-runner plates and structural mold plates. It usually includes pre-hardened plastic mold steels such as P20, 1.2311, 1.2738 and 718; corrosion-resistant stainless mold steels such as S136, 1.2083, 1.2316 and 420 series; high-polish mold steels such as NAK55 and NAK80; and hot-work or high-strength grades such as H13 and 1.2344 for demanding molding conditions. Compared with ordinary structural steel, this type of steel requires better machinability, polishability, dimensional stability, toughness, thermal fatigue resistance, corrosion resistance and texturing performance, so that injection molds can achieve long service life, stable cavity accuracy, good surface quality and consistent mass production performance for automotive parts, electronics housings, medical plastics, packaging components and precision engineering plastic products.

The average single-line production capacity of Tool Steel for Plastic Injection Molding is 70,000 tons, the average gross profit margin was 26.8%.

The upstream includes iron ore, scrap steel, ferroalloys, nickel, chromium, molybdenum,

vanadium, ESR remelting materials and heat-treatment consumables; the midstream includes special steel smelting, forging, rolling, ESR/VAR refining, annealing, pre-hardening, machining, cutting and distribution; the downstream mainly serves mold makers, injection molding factories, automotive parts suppliers, electronics manufacturers, medical device companies, packaging producers and home appliance manufacturers.

Raw materials account for about 50%-60% of total cost, including base steel and alloying elements; smelting, forging, rolling and remelting account for 18%-25%; heat treatment, machining, inspection and surface finishing account for 10%-15%; energy, labor and equipment depreciation account for 8%-12%; packaging, warehousing, logistics and sales expenses account for 5%-8%. High-end ESR, stainless, high-polish and large-section mold steel has a higher alloy and processing cost share.

Demand is driven by automotive lightweight plastic parts, consumer electronics, medical consumables, packaging, home appliances and precision engineering plastics, where mold life, surface finish and dimensional stability are critical. Business opportunities are concentrated in pre-hardened mold steel, corrosion-resistant stainless mold steel, mirror-polish NAK/S136-type steel, high-cleanliness ESR steel, large-section mold blocks and customized cut-to-size services. Growth is moderate but stable, with higher margins in high-end molds for transparent parts, medical-grade plastics, optical components, multi-cavity packaging molds and engineering plastic components.

This report studies the global Tool Steel for Plastic Injection Molding production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Tool Steel for Plastic Injection Molding total production and demand, 2021-2032, (Kilotons)

Global Tool Steel for Plastic Injection Molding total production value, 2021-2032, (USD Million)

Global Tool Steel for Plastic Injection Molding production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production

site)

Global Tool Steel for Plastic Injection Molding consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Tool Steel for Plastic Injection Molding domestic production, consumption, key domestic manufacturers and share

Global Tool Steel for Plastic Injection Molding production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Tool Steel for Plastic Injection Molding production by Steel Grade Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Tool Steel for Plastic Injection Molding production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Tool Steel for Plastic Injection Molding 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 voestalpine, Daido Steel, Proterial, Nippon Koshuha Steel, Finkl Steel, Swiss Steel Group, Buderus Edelstahl, Aubert & Duval, ArcelorMittal Industeel, Fushun Special Steel, 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 for Plastic Injection Molding market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Steel Grade 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 for Plastic Injection Molding Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Tool Steel for Plastic Injection Molding Market, Segmentation by Steel Grade Type:

Pre-Hardened Plastic Mold Steel

Stainless Plastic Mold Steel

Hot-Work Tool Steel

Cold-Work Tool Steel

Age-Hardened Plastic Mold Steel

Others

Global Tool Steel for Plastic Injection Molding Market, Segmentation by Hardness Level:

Soft Annealed Grade: 300?360 HB

High-Hardness Grade: >360?450 HB

Ultra-High-Hardness Grade: >450 HB

Global Tool Steel for Plastic Injection Molding Market, Segmentation by Application:

Automotive

Consumer Electronics

Home Appliance

Medical Device

Packaging

Industrial Machinery

Electrical and Electronics

Building and Construction

Others

Companies Profiled:

voestalpine

Daido Steel

Proterial

Nippon Koshuha Steel

Finkl Steel

Swiss Steel Group

Buderus Edelstahl

Aubert & Duval

ArcelorMittal Industeel

Fushun Special Steel

Tiangong International

Baowu

SeAH Changwon Integrated Special Steel

Key Questions Answered:

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

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