

# Global 4140 Alloy Steel Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global 4140 Alloy Steel market size was valued at US\$ 1833 million in 2024 and is forecast to a readjusted size of USD 2391 million by 2031 with a CAGR of 4.5% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

4140 Alloy Steel is a medium-carbon chromium-molybdenum structural steel renowned for its high strength, excellent toughness, and superior hardenability, making it a cornerstone material in mechanical engineering. The optimized chromium-molybdenum composition enables an ideal balance between strength and ductility after quenching and tempering, coupled with exceptional fatigue and impact resistance. Its uniform microstructure and stable heat treatment response make it particularly suitable for critical load-bearing components like transmission shafts, gears, and hydraulic piston rods. The material's wear resistance can be further enhanced through carburizing or nitriding surface treatments, demonstrating outstanding performance in aerospace, oil drilling equipment, and heavy machinery applications. With engineered machinability and weldability, 4140 serves as a vital engineering medium that bridges design intent with performance realization.

This report is a detailed and comprehensive analysis for global 4140 Alloy 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 4140 Alloy Steel market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global 4140 Alloy Steel market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global 4140 Alloy Steel market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global 4140 Alloy Steel market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2020-2025

### **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 4140 Alloy 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 4140 Alloy 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 Carpenter Technology, Crucible Industries, ATI Metals, Ellwood Group, Böhler, Uddeholm, Saastahl, Riva Acciaio, Baosteel, Dongbei Special Steel, etc.

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

## Market Segmentation

4140 Alloy Steel market is split by Type and by Application. For the period 2020-2031, 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

Rods

Plates

Others

### Market segment by Application

Aerospace

Machinery

Automobile

Energy

Others

### Major players covered

Carpenter Technology

Crucible Industries

ATI Metals

Ellwood Group

Böhler

Uddeholm

Saarstahl

Riva Acciaio

Baosteel

Dongbei Special Steel

CITIC Pacific Special Steel

Daido Steel

Kobe Steel

POSCO

Gerdau

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 4140 Alloy Steel product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 4140 Alloy Steel, with price, sales quantity, revenue, and global market share of 4140 Alloy Steel from 2020 to 2025.

Chapter 3, the 4140 Alloy Steel competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 4140 Alloy Steel breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and 4140 Alloy Steel market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 4140 Alloy Steel.

Chapter 14 and 15, to describe 4140 Alloy Steel sales channel, distributors, customers, research findings and conclusion.

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