

Global Case Hardened Nitrided Steel Market Research Report 2025(Status and Outlook)

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Abstracts

Case hardened nitrided steel refers to a specialized type of alloy steel that undergoes a two-stage thermochemical treatment: first, the steel is case hardened to create a hardened outer layer through processes like carburizing or carbonitriding, and second, it is nitrided to form a hard, wear-resistant surface by diffusing nitrogen into the material at elevated temperatures. This dual treatment enhances surface hardness, fatigue strength, and corrosion resistance while maintaining a tough core, making it particularly suitable for components exposed to high stress, abrasion, and harsh environments.

The global Case Hardened Nitrided Steel market size was estimated at USD 1250.0 million in 2024 and is projected to grow at a compound annual growth rate (CAGR) of 4.75% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Case Hardened Nitrided Steel market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Case Hardened Nitrided Steel market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status.

This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Case Hardened Nitrided Steel market.

Global Case Hardened Nitrided Steel Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Ovako AB
Shanghai Baogang Steel Manufacturing Co.Ltd.
Guangqing Ganglian Metal Manufacturing Co.Ltd
Special Steels and Metals Limited.
ThermoFusion Inc.
ABRAMS Industries GmbH & Co. KG
Datagineering
Shandong Zhongsheng Materials CoLtd
VAC Aero
Gear Solutions

Market Segmentation (by Type)

Alloy
Unalloyed

Market Segmentation (by Application)

Aerospace Military
Mechanical Engineering
Ultra Fine Grinding
Automotive Internal Combustion Engine Material

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Case Hardened Nitrided Steel Market
Overview of the regional outlook of the Case Hardened Nitrided Steel Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Case Hardened Nitrided Steel Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Case Hardened Nitrided Steel, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail,

including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Case Hardened Nitrided Steel

1.2 Key Market Segments

1.2.1 Case Hardened Nitrided Steel Segment by Type

1.2.2 Case Hardened Nitrided Steel Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 CASE HARDENED NITRIDED STEEL MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Case Hardened Nitrided Steel Market Size (M USD) Estimates and Forecasts (2020-2033)

2.1.2 Global Case Hardened Nitrided Steel Sales Estimates and Forecasts (2020-2033)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 CASE HARDENED NITRIDED STEEL MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Case Hardened Nitrided Steel Product Life Cycle

3.3 Global Case Hardened Nitrided Steel Sales by Manufacturers (2020-2025)

3.4 Global Case Hardened Nitrided Steel Revenue Market Share by Manufacturers (2020-2025)

3.5 Case Hardened Nitrided Steel Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Case Hardened Nitrided Steel Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Case Hardened Nitrided Steel Market Competitive Situation and Trends

3.8.1 Case Hardened Nitrided Steel Market Concentration Rate

3.8.2 Global 5 and 10 Largest Case Hardened Nitrided Steel Players Market Share by

Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 CASE HARDENED NITRIDED STEEL INDUSTRY CHAIN ANALYSIS

4.1 Case Hardened Nitrided Steel Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF CASE HARDENED NITRIDED STEEL MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Case Hardened Nitrided Steel Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Case Hardened Nitrided Steel Market

5.7 ESG Ratings of Leading Companies

6 CASE HARDENED NITRIDED STEEL MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Case Hardened Nitrided Steel Sales Market Share by Type (2020-2025)

6.3 Global Case Hardened Nitrided Steel Market Size Market Share by Type (2020-2025)

6.4 Global Case Hardened Nitrided Steel Price by Type (2020-2025)

7 CASE HARDENED NITRIDED STEEL MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Case Hardened Nitrided Steel Market Sales by Application (2020-2025)

7.3 Global Case Hardened Nitrided Steel Market Size (M USD) by Application (2020-2025)

7.4 Global Case Hardened Nitrided Steel Sales Growth Rate by Application (2020-2025)

8 CASE HARDENED NITRIDED STEEL MARKET SALES BY REGION

8.1 Global Case Hardened Nitrided Steel Sales by Region

8.1.1 Global Case Hardened Nitrided Steel Sales by Region

8.1.2 Global Case Hardened Nitrided Steel Sales Market Share by Region

8.2 Global Case Hardened Nitrided Steel Market Size by Region

8.2.1 Global Case Hardened Nitrided Steel Market Size by Region

8.2.2 Global Case Hardened Nitrided Steel Market Size Market Share by Region

8.3 North America

8.3.1 North America Case Hardened Nitrided Steel Sales by Country

8.3.2 North America Case Hardened Nitrided Steel Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Case Hardened Nitrided Steel Sales by Country

8.4.2 Europe Case Hardened Nitrided Steel Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Case Hardened Nitrided Steel Sales by Region

8.5.2 Asia Pacific Case Hardened Nitrided Steel Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Case Hardened Nitrided Steel Sales by Country
 - 8.6.2 South America Case Hardened Nitrided Steel Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview
 - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Case Hardened Nitrided Steel Sales by Region
 - 8.7.2 Middle East and Africa Case Hardened Nitrided Steel Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 CASE HARDENED NITRIDED STEEL MARKET PRODUCTION BY REGION

- 9.1 Global Production of Case Hardened Nitrided Steel by Region(2020-2025)
- 9.2 Global Case Hardened Nitrided Steel Revenue Market Share by Region (2020-2025)
- 9.3 Global Case Hardened Nitrided Steel Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Case Hardened Nitrided Steel Production
 - 9.4.1 North America Case Hardened Nitrided Steel Production Growth Rate (2020-2025)
 - 9.4.2 North America Case Hardened Nitrided Steel Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Case Hardened Nitrided Steel Production
 - 9.5.1 Europe Case Hardened Nitrided Steel Production Growth Rate (2020-2025)
 - 9.5.2 Europe Case Hardened Nitrided Steel Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Case Hardened Nitrided Steel Production (2020-2025)
 - 9.6.1 Japan Case Hardened Nitrided Steel Production Growth Rate (2020-2025)
 - 9.6.2 Japan Case Hardened Nitrided Steel Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Case Hardened Nitrided Steel Production (2020-2025)

- 9.7.1 China Case Hardened Nitrided Steel Production Growth Rate (2020-2025)
- 9.7.2 China Case Hardened Nitrided Steel Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Ovako AB

- 10.1.1 Ovako AB Basic Information
- 10.1.2 Ovako AB Case Hardened Nitrided Steel Product Overview
- 10.1.3 Ovako AB Case Hardened Nitrided Steel Product Market Performance
- 10.1.4 Ovako AB Business Overview
- 10.1.5 Ovako AB SWOT Analysis
- 10.1.6 Ovako AB Recent Developments

10.2 Shanghai Baogang Steel Manufacturing Co.Ltd.

- 10.2.1 Shanghai Baogang Steel Manufacturing Co.Ltd. Basic Information
- 10.2.2 Shanghai Baogang Steel Manufacturing Co.Ltd. Case Hardened Nitrided Steel Product Overview
- 10.2.3 Shanghai Baogang Steel Manufacturing Co.Ltd. Case Hardened Nitrided Steel Product Market Performance
- 10.2.4 Shanghai Baogang Steel Manufacturing Co.Ltd. Business Overview
- 10.2.5 Shanghai Baogang Steel Manufacturing Co.Ltd. SWOT Analysis
- 10.2.6 Shanghai Baogang Steel Manufacturing Co.Ltd. Recent Developments

10.3 Guangqing Ganglian Metal Manufacturing Co.Ltd

- 10.3.1 Guangqing Ganglian Metal Manufacturing Co.Ltd Basic Information
- 10.3.2 Guangqing Ganglian Metal Manufacturing Co.Ltd Case Hardened Nitrided Steel Product Overview
- 10.3.3 Guangqing Ganglian Metal Manufacturing Co.Ltd Case Hardened Nitrided Steel Product Market Performance
- 10.3.4 Guangqing Ganglian Metal Manufacturing Co.Ltd Business Overview
- 10.3.5 Guangqing Ganglian Metal Manufacturing Co.Ltd SWOT Analysis
- 10.3.6 Guangqing Ganglian Metal Manufacturing Co.Ltd Recent Developments

10.4 Special Steels and Metals Limited.

- 10.4.1 Special Steels and Metals Limited. Basic Information
- 10.4.2 Special Steels and Metals Limited. Case Hardened Nitrided Steel Product Overview
- 10.4.3 Special Steels and Metals Limited. Case Hardened Nitrided Steel Product Market Performance
- 10.4.4 Special Steels and Metals Limited. Business Overview
- 10.4.5 Special Steels and Metals Limited. Recent Developments

10.5 ThermoFusion Inc.

10.5.1 ThermoFusion Inc. Basic Information

10.5.2 ThermoFusion Inc. Case Hardened Nitrided Steel Product Overview

10.5.3 ThermoFusion Inc. Case Hardened Nitrided Steel Product Market Performance

10.5.4 ThermoFusion Inc. Business Overview

10.5.5 ThermoFusion Inc. Recent Developments

10.6 ABRAMS Industries GmbH and Co. KG

10.6.1 ABRAMS Industries GmbH and Co. KG Basic Information

10.6.2 ABRAMS Industries GmbH and Co. KG Case Hardened Nitrided Steel Product Overview

10.6.3 ABRAMS Industries GmbH and Co. KG Case Hardened Nitrided Steel Product Market Performance

10.6.4 ABRAMS Industries GmbH and Co. KG Business Overview

10.6.5 ABRAMS Industries GmbH and Co. KG Recent Developments

10.7 Datagineering

10.7.1 Datagineering Basic Information

10.7.2 Datagineering Case Hardened Nitrided Steel Product Overview

10.7.3 Datagineering Case Hardened Nitrided Steel Product Market Performance

10.7.4 Datagineering Business Overview

10.7.5 Datagineering Recent Developments

10.8 Shandong Zhongsheng Materials CoLtd

10.8.1 Shandong Zhongsheng Materials CoLtd Basic Information

10.8.2 Shandong Zhongsheng Materials CoLtd Case Hardened Nitrided Steel Product Overview

10.8.3 Shandong Zhongsheng Materials CoLtd Case Hardened Nitrided Steel Product Market Performance

10.8.4 Shandong Zhongsheng Materials CoLtd Business Overview

10.8.5 Shandong Zhongsheng Materials CoLtd Recent Developments

10.9 VAC Aero

10.9.1 VAC Aero Basic Information

10.9.2 VAC Aero Case Hardened Nitrided Steel Product Overview

10.9.3 VAC Aero Case Hardened Nitrided Steel Product Market Performance

10.9.4 VAC Aero Business Overview

10.9.5 VAC Aero Recent Developments

10.10 Gear Solutions

10.10.1 Gear Solutions Basic Information

10.10.2 Gear Solutions Case Hardened Nitrided Steel Product Overview

10.10.3 Gear Solutions Case Hardened Nitrided Steel Product Market Performance

10.10.4 Gear Solutions Business Overview

10.10.5 Gear Solutions Recent Developments

11 CASE HARDENED NITRIDED STEEL MARKET FORECAST BY REGION

11.1 Global Case Hardened Nitrided Steel Market Size Forecast

11.2 Global Case Hardened Nitrided Steel Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Case Hardened Nitrided Steel Market Size Forecast by Country

11.2.3 Asia Pacific Case Hardened Nitrided Steel Market Size Forecast by Region

11.2.4 South America Case Hardened Nitrided Steel Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Case Hardened Nitrided Steel by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2033)

12.1 Global Case Hardened Nitrided Steel Market Forecast by Type (2026-2033)

12.1.1 Global Forecasted Sales of Case Hardened Nitrided Steel by Type (2026-2033)

12.1.2 Global Case Hardened Nitrided Steel Market Size Forecast by Type (2026-2033)

12.1.3 Global Forecasted Price of Case Hardened Nitrided Steel by Type (2026-2033)

12.2 Global Case Hardened Nitrided Steel Market Forecast by Application (2026-2033)

12.2.1 Global Case Hardened Nitrided Steel Sales (K MT) Forecast by Application

12.2.2 Global Case Hardened Nitrided Steel Market Size (M USD) Forecast by Application (2026-2033)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Market Size (M USD) Segment Executive Summary

Table 4. Case Hardened Nitrided Steel Market Size Comparison by Region (M USD)

Table 5. Global Case Hardened Nitrided Steel Sales (K MT) by Manufacturers
(2020-2025)

Table 6. Global Case Hardened Nitrided Steel Sales Market Share by Manufacturers
(2020-2025)

Table 7. Global Case Hardened Nitrided Steel Revenue (M USD) by Manufacturers
(2020-2025)

Table 8. Global Case Hardened Nitrided Steel Revenue Share by Manufacturers
(2020-2025)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Case
Hardened Nitrided Steel as of 2024)

Table 10. Global Market Case Hardened Nitrided Steel Average Price (USD/KG) of Key
Manufacturers (2020-2025)

Table 11. Manufacturers? Manufacturing Sites, Areas Served

Table 12. Manufacturers? Product Type

Table 13. Global Case Hardened Nitrided Steel Manufacturers Market Concentration
Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Market Overview of Key Raw Materials

Table 16. Midstream Market Analysis

Table 17. Downstream Customer Analysis

Table 18. Key Development Trends

Table 19. Driving Factors

Table 20. Case Hardened Nitrided Steel Market Challenges

Table 21. Goldman Sachs' forecast real GDP growth rate for 2024-2026

Table 22. S&P Global ' Forecast Real GDP Growth Rate For 2024-2027

Table 23. World Bank ' Forecast Real GDP Growth Rate For 2024-2026

Table 24. The Tariff Rates Imposed by the United States on Major Commodity Trading
Countries

Table 25. Global Case Hardened Nitrided Steel Sales by Type (K MT)

Table 26. Global Case Hardened Nitrided Steel Market Size by Type (M USD)

Table 27. Global Case Hardened Nitrided Steel Sales (K MT) by Type (2020-2025)

- Table 28. Global Case Hardened Nitrided Steel Sales Market Share by Type (2020-2025)
- Table 29. Global Case Hardened Nitrided Steel Market Size (M USD) by Type (2020-2025)
- Table 30. Global Case Hardened Nitrided Steel Market Size Share by Type (2020-2025)
- Table 31. Global Case Hardened Nitrided Steel Price (USD/KG) by Type (2020-2025)
- Table 32. Global Case Hardened Nitrided Steel Sales (K MT) by Application
- Table 33. Global Case Hardened Nitrided Steel Market Size by Application
- Table 34. Global Case Hardened Nitrided Steel Sales by Application (2020-2025) & (K MT)
- Table 35. Global Case Hardened Nitrided Steel Sales Market Share by Application (2020-2025)
- Table 36. Global Case Hardened Nitrided Steel Market Size by Application (2020-2025) & (M USD)
- Table 37. Global Case Hardened Nitrided Steel Market Share by Application (2020-2025)
- Table 38. Global Case Hardened Nitrided Steel Sales Growth Rate by Application (2020-2025)
- Table 39. Global Case Hardened Nitrided Steel Sales by Region (2020-2025) & (K MT)
- Table 40. Global Case Hardened Nitrided Steel Sales Market Share by Region (2020-2025)
- Table 41. Global Case Hardened Nitrided Steel Market Size by Region (2020-2025) & (M USD)
- Table 42. Global Case Hardened Nitrided Steel Market Size Market Share by Region (2020-2025)
- Table 43. North America Case Hardened Nitrided Steel Sales by Country (2020-2025) & (K MT)
- Table 44. North America Case Hardened Nitrided Steel Market Size by Country (2020-2025) & (M USD)
- Table 45. Europe Case Hardened Nitrided Steel Sales by Country (2020-2025) & (K MT)
- Table 46. Europe Case Hardened Nitrided Steel Market Size by Country (2020-2025) & (M USD)
- Table 47. Asia Pacific Case Hardened Nitrided Steel Sales by Region (2020-2025) & (K MT)
- Table 48. Asia Pacific Case Hardened Nitrided Steel Market Size by Region (2020-2025) & (M USD)
- Table 49. South America Case Hardened Nitrided Steel Sales by Country (2020-2025) & (K MT)

Table 50. South America Case Hardened Nitrided Steel Market Size by Country (2020-2025) & (M USD)

Table 51. Middle East and Africa Case Hardened Nitrided Steel Sales by Region (2020-2025) & (K MT)

Table 52. Middle East and Africa Case Hardened Nitrided Steel Market Size by Region (2020-2025) & (M USD)

Table 53. Global Case Hardened Nitrided Steel Production (K MT) by Region(2020-2025)

Table 54. Global Case Hardened Nitrided Steel Revenue (US\$ Million) by Region (2020-2025)

Table 55. Global Case Hardened Nitrided Steel Revenue Market Share by Region (2020-2025)

Table 56. Global Case Hardened Nitrided Steel Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 57. North America Case Hardened Nitrided Steel Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 58. Europe Case Hardened Nitrided Steel Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 59. Japan Case Hardened Nitrided Steel Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 60. China Case Hardened Nitrided Steel Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 61. Ovako AB Basic Information

Table 62. Ovako AB Case Hardened Nitrided Steel Product Overview

Table 63. Ovako AB Case Hardened Nitrided Steel Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 64. Ovako AB Business Overview

Table 65. Ovako AB SWOT Analysis

Table 66. Ovako AB Recent Developments

Table 67. Shanghai Baogang Steel Manufacturing Co.Ltd. Basic Information

Table 68. Shanghai Baogang Steel Manufacturing Co.Ltd. Case Hardened Nitrided Steel Product Overview

Table 69. Shanghai Baogang Steel Manufacturing Co.Ltd. Case Hardened Nitrided Steel Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 70. Shanghai Baogang Steel Manufacturing Co.Ltd. Business Overview

Table 71. Shanghai Baogang Steel Manufacturing Co.Ltd. SWOT Analysis

Table 72. Shanghai Baogang Steel Manufacturing Co.Ltd. Recent Developments

Table 73. Guangqing Ganglian Metal Manufacturing Co.Ltd Basic Information

Table 74. Guangqing Ganglian Metal Manufacturing Co.Ltd Case Hardened Nitrided

Steel Product Overview

Table 75. Guangqing Ganglian Metal Manufacturing Co.Ltd Case Hardened Nitrided Steel Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 76. Guangqing Ganglian Metal Manufacturing Co.Ltd Business Overview

Table 77. Guangqing Ganglian Metal Manufacturing Co.Ltd SWOT Analysis

Table 78. Guangqing Ganglian Metal Manufacturing Co.Ltd Recent Developments

Table 79. Special Steels and Metals Limited. Basic Information

Table 80. Special Steels and Metals Limited. Case Hardened Nitrided Steel Product Overview

Table 81. Special Steels and Metals Limited. Case Hardened Nitrided Steel Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 82. Special Steels and Metals Limited. Business Overview

Table 83. Special Steels and Metals Limited. Recent Developments

Table 84. ThermoFusion Inc. Basic Information

Table 85. ThermoFusion Inc. Case Hardened Nitrided Steel Product Overview

Table 86. ThermoFusion Inc. Case Hardened Nitrided Steel Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 87. ThermoFusion Inc. Business Overview

Table 88. ThermoFusion Inc. Recent Developments

Table 89. ABRAMS Industries GmbH and Co. KG Basic Information

Table 90. ABRAMS Industries GmbH and Co. KG Case Hardened Nitrided Steel Product Overview

Table 91. ABRAMS Industries GmbH and Co. KG Case Hardened Nitrided Steel Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 92. ABRAMS Industries GmbH and Co. KG Business Overview

Table 93. ABRAMS Industries GmbH and Co. KG Recent Developments

Table 94. Datagineering Basic Information

Table 95. Datagineering Case Hardened Nitrided Steel Product Overview

Table 96. Datagineering Case Hardened Nitrided Steel Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 97. Datagineering Business Overview

Table 98. Datagineering Recent Developments

Table 99. Shandong Zhongsheng Materials CoLtd Basic Information

Table 100. Shandong Zhongsheng Materials CoLtd Case Hardened Nitrided Steel Product Overview

Table 101. Shandong Zhongsheng Materials CoLtd Case Hardened Nitrided Steel Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 102. Shandong Zhongsheng Materials CoLtd Business Overview

Table 103. Shandong Zhongsheng Materials CoLtd Recent Developments

Table 104. VAC Aero Basic Information

Table 105. VAC Aero Case Hardened Nitrided Steel Product Overview

Table 106. VAC Aero Case Hardened Nitrided Steel Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 107. VAC Aero Business Overview

Table 108. VAC Aero Recent Developments

Table 109. Gear Solutions Basic Information

Table 110. Gear Solutions Case Hardened Nitrided Steel Product Overview

Table 111. Gear Solutions Case Hardened Nitrided Steel Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 112. Gear Solutions Business Overview

Table 113. Gear Solutions Recent Developments

Table 114. Global Case Hardened Nitrided Steel Sales Forecast by Region (2026-2033) & (K MT)

Table 115. Global Case Hardened Nitrided Steel Market Size Forecast by Region (2026-2033) & (M USD)

Table 116. North America Case Hardened Nitrided Steel Sales Forecast by Country (2026-2033) & (K MT)

Table 117. North America Case Hardened Nitrided Steel Market Size Forecast by Country (2026-2033) & (M USD)

Table 118. Europe Case Hardened Nitrided Steel Sales Forecast by Country (2026-2033) & (K MT)

Table 119. Europe Case Hardened Nitrided Steel Market Size Forecast by Country (2026-2033) & (M USD)

Table 120. Asia Pacific Case Hardened Nitrided Steel Sales Forecast by Region (2026-2033) & (K MT)

Table 121. Asia Pacific Case Hardened Nitrided Steel Market Size Forecast by Region (2026-2033) & (M USD)

Table 122. South America Case Hardened Nitrided Steel Sales Forecast by Country (2026-2033) & (K MT)

Table 123. South America Case Hardened Nitrided Steel Market Size Forecast by Country (2026-2033) & (M USD)

Table 124. Middle East and Africa Case Hardened Nitrided Steel Sales Forecast by Country (2026-2033) & (Units)

Table 125. Middle East and Africa Case Hardened Nitrided Steel Market Size Forecast by Country (2026-2033) & (M USD)

Table 126. Global Case Hardened Nitrided Steel Sales Forecast by Type (2026-2033) & (K MT)

Table 127. Global Case Hardened Nitrided Steel Market Size Forecast by Type

(2026-2033) & (M USD)

Table 128. Global Case Hardened Nitrided Steel Price Forecast by Type (2026-2033) & (USD/KG)

Table 129. Global Case Hardened Nitrided Steel Sales (K MT) Forecast by Application (2026-2033)

Table 130. Global Case Hardened Nitrided Steel Market Size Forecast by Application (2026-2033) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Case Hardened Nitrided Steel
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Case Hardened Nitrided Steel Market Size (M USD), 2024-2033
- Figure 5. Global Case Hardened Nitrided Steel Market Size (M USD) (2020-2033)
- Figure 6. Global Case Hardened Nitrided Steel Sales (K MT) & (2020-2033)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Case Hardened Nitrided Steel Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Case Hardened Nitrided Steel Product Life Cycle
- Figure 13. Case Hardened Nitrided Steel Sales Share by Manufacturers in 2024
- Figure 14. Global Case Hardened Nitrided Steel Revenue Share by Manufacturers in 2024
- Figure 15. Case Hardened Nitrided Steel Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2024
- Figure 16. Global Market Case Hardened Nitrided Steel Average Price (USD/KG) of Key Manufacturers in 2024
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Case Hardened Nitrided Steel Revenue in 2024
- Figure 18. Industry Chain Map of Case Hardened Nitrided Steel
- Figure 19. Global Case Hardened Nitrided Steel Market PEST Analysis
- Figure 20. Global Case Hardened Nitrided Steel Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Case Hardened Nitrided Steel Market Share by Type
- Figure 27. Sales Market Share of Case Hardened Nitrided Steel by Type (2020-2025)
- Figure 28. Sales Market Share of Case Hardened Nitrided Steel by Type in 2024
- Figure 29. Market Size Share of Case Hardened Nitrided Steel by Type (2020-2025)
- Figure 30. Market Size Share of Case Hardened Nitrided Steel by Type in 2024
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Case Hardened Nitrided Steel Market Share by Application

Figure 33. Global Case Hardened Nitrided Steel Sales Market Share by Application (2020-2025)

Figure 34. Global Case Hardened Nitrided Steel Sales Market Share by Application in 2024

Figure 35. Global Case Hardened Nitrided Steel Market Share by Application (2020-2025)

Figure 36. Global Case Hardened Nitrided Steel Market Share by Application in 2024

Figure 37. Global Case Hardened Nitrided Steel Sales Growth Rate by Application (2020-2025)

Figure 38. Global Case Hardened Nitrided Steel Sales Market Share by Region (2020-2025)

Figure 39. Global Case Hardened Nitrided Steel Market Size Market Share by Region (2020-2025)

Figure 40. North America Case Hardened Nitrided Steel Sales and Growth Rate (2020-2025) & (K MT)

Figure 41. North America Case Hardened Nitrided Steel Sales and Growth Rate (2020-2025) & (K MT)

Figure 42. North America Case Hardened Nitrided Steel Sales Market Share by Country in 2024

Figure 43. North America Case Hardened Nitrided Steel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Case Hardened Nitrided Steel Market Size Market Share by Country in 2024

Figure 45. U.S. Case Hardened Nitrided Steel Sales and Growth Rate (2020-2025) & (K MT)

Figure 46. U.S. Case Hardened Nitrided Steel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Case Hardened Nitrided Steel Sales (K MT) and Growth Rate (2020-2025)

Figure 48. Canada Case Hardened Nitrided Steel Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Case Hardened Nitrided Steel Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Case Hardened Nitrided Steel Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Case Hardened Nitrided Steel Sales and Growth Rate (2020-2025) & (K MT)

Figure 52. Europe Case Hardened Nitrided Steel Sales Market Share by Country in

2024

Figure 53. Europe Case Hardened Nitrided Steel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Case Hardened Nitrided Steel Market Size Market Share by Country in 2024

Figure 55. Germany Case Hardened Nitrided Steel Sales and Growth Rate (2020-2025) & (K MT)

Figure 56. Germany Case Hardened Nitrided Steel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Case Hardened Nitrided Steel Sales and Growth Rate (2020-2025) & (K MT)

Figure 58. France Case Hardened Nitrided Steel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Case Hardened Nitrided Steel Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. Case Hardened Nitrided Steel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Case Hardened Nitrided Steel Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy Case Hardened Nitrided Steel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Case Hardened Nitrided Steel Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain Case Hardened Nitrided Steel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Case Hardened Nitrided Steel Sales and Growth Rate (K MT)

Figure 66. Asia Pacific Case Hardened Nitrided Steel Sales Market Share by Region in 2024

Figure 67. Asia Pacific Case Hardened Nitrided Steel Market Size Market Share by Region in 2024

Figure 68. China Case Hardened Nitrided Steel Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China Case Hardened Nitrided Steel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Case Hardened Nitrided Steel Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan Case Hardened Nitrided Steel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Case Hardened Nitrided Steel Sales and Growth Rate

(2020-2025) & (K MT)

Figure 73. South Korea Case Hardened Nitrided Steel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Case Hardened Nitrided Steel Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India Case Hardened Nitrided Steel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Case Hardened Nitrided Steel Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia Case Hardened Nitrided Steel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Case Hardened Nitrided Steel Sales and Growth Rate (K MT)

Figure 79. South America Case Hardened Nitrided Steel Sales Market Share by Country in 2024

Figure 80. South America Case Hardened Nitrided Steel Market Size and Growth Rate (M USD)

Figure 81. South America Case Hardened Nitrided Steel Market Size Market Share by Country in 2024

Figure 82. Brazil Case Hardened Nitrided Steel Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil Case Hardened Nitrided Steel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Case Hardened Nitrided Steel Sales and Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina Case Hardened Nitrided Steel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Case Hardened Nitrided Steel Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia Case Hardened Nitrided Steel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Case Hardened Nitrided Steel Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa Case Hardened Nitrided Steel Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Case Hardened Nitrided Steel Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Case Hardened Nitrided Steel Market Size Market Share by Region in 2024

Figure 92. Saudi Arabia Case Hardened Nitrided Steel Sales and Growth Rate

(2020-2025) & (K MT)

Figure 93. Saudi Arabia Case Hardened Nitrided Steel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Case Hardened Nitrided Steel Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE Case Hardened Nitrided Steel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Case Hardened Nitrided Steel Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt Case Hardened Nitrided Steel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Case Hardened Nitrided Steel Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria Case Hardened Nitrided Steel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Case Hardened Nitrided Steel Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa Case Hardened Nitrided Steel Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Case Hardened Nitrided Steel Production Market Share by Region (2020-2025)

Figure 103. North America Case Hardened Nitrided Steel Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe Case Hardened Nitrided Steel Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan Case Hardened Nitrided Steel Production (K MT) Growth Rate (2020-2025)

Figure 106. China Case Hardened Nitrided Steel Production (K MT) Growth Rate (2020-2025)

Figure 107. Global Case Hardened Nitrided Steel Sales Forecast by Volume (2020-2033) & (K MT)

Figure 108. Global Case Hardened Nitrided Steel Market Size Forecast by Value (2020-2033) & (M USD)

Figure 109. Global Case Hardened Nitrided Steel Sales Market Share Forecast by Type (2026-2033)

Figure 110. Global Case Hardened Nitrided Steel Market Share Forecast by Type (2026-2033)

Figure 111. Global Case Hardened Nitrided Steel Sales Forecast by Application (2026-2033)

Figure 112. Global Case Hardened Nitrided Steel Market Share Forecast by Application (2026-2033)

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