

# Global Case Hardening Services Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Case Hardening Services market size is expected to reach \$ 2319 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

Case Hardening Services refer to surface hardening services provided by professional heat treatment service providers for steel, alloy steel, stainless steel, powder metallurgy parts, gears, shafts, bearings, molds, aerospace and automotive parts, etc. Its core objective is to form a hardened layer with high hardness, high wear resistance, and high fatigue resistance on the surface of the parts, while maintaining core toughness and impact resistance as much as possible.

The growth in Case Hardening Services is primarily driven by the demand for long-life, high-reliability components from the automotive, aerospace, construction machinery, wind power, agricultural machinery, oil and gas, medical devices, and precision transmission sectors. While automotive electrification has not diminished the demand for surface hardening, it has shifted demand from traditional engine components to reducer gears, bearings, drive shafts, electric drive systems, chassis safety components, and high-precision mechanical parts. The aerospace and energy sectors are driving growth in low-deformation vacuum carburizing, low-pressure carburizing, plasma nitriding, and traceable heat treatment services.

This report studies the global Case Hardening Services demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Case Hardening Services, 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 Case Hardening Services that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Case Hardening Services total market, 2021-2032, (USD Million)

Global Case Hardening Services total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Case Hardening Services total market, key domestic companies, and share, (USD Million)

Global Case Hardening Services revenue by player, revenue and market share 2021-2026, (USD Million)

Global Case Hardening Services total market by Type, CAGR, 2021-2032, (USD Million)

Global Case Hardening Services total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Case Hardening Services market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bodycote, Aalberts Surface Technologies, Paulo, Bluewater Thermal Solutions, Nitrex Heat Treating Services, Advanced Heat Treat Corp., Solar Atmospheres, Braddock Metallurgical, Specialty Steel Treating, Cincinnati Steel Treating, 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 Case Hardening Services market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Case Hardening Services Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Case Hardening Services Market, Segmentation by Type:

Nitriding

Carburizing

Others

#### Global Case Hardening Services Market, Segmentation by Process:

Ferritic Nitrocarburizing

Gas Nitriding

Plasma / Ion Nitriding

Others

#### Global Case Hardening Services Market, Segmentation by Material:

Low-carbon Steel

Alloy Steel

Tool Steel

Stainless Steel

Others

#### Global Case Hardening Services Market, Segmentation by Application:

Manufacturing

Aerospace

Military

Industrial

Automotive

#### Companies Profiled:

Bodycote

Aalberts Surface Technologies

Paulo

Bluewater Thermal Solutions

Nitrex Heat Treating Services

Advanced Heat Treat Corp.

Solar Atmospheres

Braddock Metallurgical

Specialty Steel Treating

Cincinnati Steel Treating

Stack Metallurgical Group

Modern Industries

Parker Netsushori Kogyo

DOWA Thermotech

Shanghai Heat Treatment

#### Key Questions Answered

1. How big is the global Case Hardening Services market?
2. What is the demand of the global Case Hardening Services market?
3. What is the year over year growth of the global Case Hardening Services market?
4. What is the total value of the global Case Hardening Services market?
5. Who are the Major Players in the global Case Hardening Services market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Case Hardening Services Introduction
- 1.2 World Case Hardening Services Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World Case Hardening Services Total Market by Region (by Headquarter Location)
  - 1.3.1 World Case Hardening Services Market Size by Region (2021-2032), (by Headquarter Location)
  - 1.3.2 United States Based Company Case Hardening Services Revenue (2021-2032)
  - 1.3.3 China Based Company Case Hardening Services Revenue (2021-2032)
  - 1.3.4 Europe Based Company Case Hardening Services Revenue (2021-2032)
  - 1.3.5 Japan Based Company Case Hardening Services Revenue (2021-2032)
  - 1.3.6 South Korea Based Company Case Hardening Services Revenue (2021-2032)
  - 1.3.7 ASEAN Based Company Case Hardening Services Revenue (2021-2032)
  - 1.3.8 India Based Company Case Hardening Services Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Case Hardening Services Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Case Hardening Services Consumption Value (2021-2032)
- 2.2 World Case Hardening Services Consumption Value by Region
  - 2.2.1 World Case Hardening Services Consumption Value by Region (2021-2026)
  - 2.2.2 World Case Hardening Services Consumption Value Forecast by Region (2027-2032)
- 2.3 United States Case Hardening Services Consumption Value (2021-2032)
- 2.4 China Case Hardening Services Consumption Value (2021-2032)
- 2.5 Europe Case Hardening Services Consumption Value (2021-2032)
- 2.6 Japan Case Hardening Services Consumption Value (2021-2032)
- 2.7 South Korea Case Hardening Services Consumption Value (2021-2032)
- 2.8 ASEAN Case Hardening Services Consumption Value (2021-2032)
- 2.9 India Case Hardening Services Consumption Value (2021-2032)

### 3 WORLD CASE HARDENING SERVICES COMPANIES COMPETITIVE ANALYSIS

- 3.1 World Case Hardening Services Revenue by Player (2021-2026)

### 3.2 Industry Rank and Concentration Rate (CR)

#### 3.2.1 Global Case Hardening Services Industry Rank of Major Players

#### 3.2.2 Global Concentration Ratios (CR4) for Case Hardening Services in 2025

#### 3.2.3 Global Concentration Ratios (CR8) for Case Hardening Services in 2025

### 3.3 Case Hardening Services Company Evaluation Quadrant

### 3.4 Case Hardening Services Market: Overall Company Footprint Analysis

#### 3.4.1 Case Hardening Services Market: Region Footprint

#### 3.4.2 Case Hardening Services Market: Company Product Type Footprint

#### 3.4.3 Case Hardening Services Market: Company Product Application Footprint

### 3.5 Competitive Environment

#### 3.5.1 Historical Structure of the Industry

#### 3.5.2 Barriers of Market Entry

#### 3.5.3 Factors of Competition

### 3.6 Mergers & Acquisitions Activity

## **4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)**

### 4.1 United States VS China: Case Hardening Services Revenue Comparison (by Headquarter Location)

#### 4.1.1 United States VS China: Case Hardening Services Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)

#### 4.1.2 United States VS China: Case Hardening Services Revenue Market Share Comparison (2021 & 2025 & 2032)

### 4.2 United States Based Companies VS China Based Companies: Case Hardening Services Consumption Value Comparison

#### 4.2.1 United States VS China: Case Hardening Services Consumption Value Comparison (2021 & 2025 & 2032)

#### 4.2.2 United States VS China: Case Hardening Services Consumption Value Market Share Comparison (2021 & 2025 & 2032)

### 4.3 United States Based Case Hardening Services Companies and Market Share, 2021-2026

#### 4.3.1 United States Based Case Hardening Services Companies, Headquarters (States, Country)

#### 4.3.2 United States Based Companies Case Hardening Services Revenue, (2021-2026)

### 4.4 China Based Companies Case Hardening Services Revenue and Market Share, 2021-2026

#### 4.4.1 China Based Case Hardening Services Companies, Company Headquarters

(Province, Country)

4.4.2 China Based Companies Case Hardening Services Revenue, (2021-2026)

4.5 Rest of World Based Case Hardening Services Companies and Market Share, 2021-2026

4.5.1 Rest of World Based Case Hardening Services Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies Case Hardening Services Revenue (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Case Hardening Services Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Nitriding

5.2.2 Carburizing

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Case Hardening Services Market Size by Type (2021-2026)

5.3.2 World Case Hardening Services Market Size by Type (2027-2032)

5.3.3 World Case Hardening Services Market Size Market Share by Type (2027-2032)

## **6 MARKET ANALYSIS BY PROCESS**

6.1 World Case Hardening Services Market Size Overview by Process: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Process

6.2.1 Ferritic Nitrocarburizing

6.2.2 Gas Nitriding

6.2.3 Plasma / Ion Nitriding

6.2.4 Others

6.3 Market Segment by Process

6.3.1 World Case Hardening Services Market Size by Process (2021-2026)

6.3.2 World Case Hardening Services Market Size by Process (2027-2032)

6.3.3 World Case Hardening Services Market Size Market Share by Process (2027-2032)

## **7 MARKET ANALYSIS BY MATERIAL**

## 7.1 World Case Hardening Services Market Size Overview by Material: 2021 VS 2025 VS 2032

### 7.2 Segment Introduction by Material

#### 7.2.1 Low-carbon Steel

#### 7.2.2 Alloy Steel

#### 7.2.3 Tool Steel

#### 7.2.4 Stainless Steel

#### 7.2.5 Others

### 7.3 Market Segment by Material

#### 7.3.1 World Case Hardening Services Market Size by Material (2021-2026)

#### 7.3.2 World Case Hardening Services Market Size by Material (2027-2032)

#### 7.3.3 World Case Hardening Services Market Size Market Share by Material (2027-2032)

## 8 MARKET ANALYSIS BY APPLICATION

### 8.1 World Case Hardening Services Market Size Overview by Application: 2021 VS 2025 VS 2032

### 8.2 Segment Introduction by Application

#### 8.2.1 Manufacturing

#### 8.2.2 Aerospace

#### 8.2.3 Military

#### 8.2.4 Industrial

#### 8.2.5 Automotive

### 8.3 Market Segment by Application

#### 8.3.1 World Case Hardening Services Market Size by Application (2021-2026)

#### 8.3.2 World Case Hardening Services Market Size by Application (2027-2032)

#### 8.3.3 World Case Hardening Services Market Size Market Share by Application (2021-2032)

## 9 COMPANY PROFILES

### 9.1 Bodycote

#### 9.1.1 Bodycote Details

#### 9.1.2 Bodycote Major Business

#### 9.1.3 Bodycote Case Hardening Services Product and Services

#### 9.1.4 Bodycote Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026)

#### 9.1.5 Bodycote Recent Developments/Updates

- 9.1.6 Bodycote Competitive Strengths & Weaknesses
- 9.2 Aalberts Surface Technologies
  - 9.2.1 Aalberts Surface Technologies Details
  - 9.2.2 Aalberts Surface Technologies Major Business
  - 9.2.3 Aalberts Surface Technologies Case Hardening Services Product and Services
  - 9.2.4 Aalberts Surface Technologies Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026)
  - 9.2.5 Aalberts Surface Technologies Recent Developments/Updates
  - 9.2.6 Aalberts Surface Technologies Competitive Strengths & Weaknesses
- 9.3 Paulo
  - 9.3.1 Paulo Details
  - 9.3.2 Paulo Major Business
  - 9.3.3 Paulo Case Hardening Services Product and Services
  - 9.3.4 Paulo Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026)
  - 9.3.5 Paulo Recent Developments/Updates
  - 9.3.6 Paulo Competitive Strengths & Weaknesses
- 9.4 Bluewater Thermal Solutions
  - 9.4.1 Bluewater Thermal Solutions Details
  - 9.4.2 Bluewater Thermal Solutions Major Business
  - 9.4.3 Bluewater Thermal Solutions Case Hardening Services Product and Services
  - 9.4.4 Bluewater Thermal Solutions Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026)
  - 9.4.5 Bluewater Thermal Solutions Recent Developments/Updates
  - 9.4.6 Bluewater Thermal Solutions Competitive Strengths & Weaknesses
- 9.5 Nitrex Heat Treating Services
  - 9.5.1 Nitrex Heat Treating Services Details
  - 9.5.2 Nitrex Heat Treating Services Major Business
  - 9.5.3 Nitrex Heat Treating Services Case Hardening Services Product and Services
  - 9.5.4 Nitrex Heat Treating Services Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026)
  - 9.5.5 Nitrex Heat Treating Services Recent Developments/Updates
  - 9.5.6 Nitrex Heat Treating Services Competitive Strengths & Weaknesses
- 9.6 Advanced Heat Treat Corp.
  - 9.6.1 Advanced Heat Treat Corp. Details
  - 9.6.2 Advanced Heat Treat Corp. Major Business
  - 9.6.3 Advanced Heat Treat Corp. Case Hardening Services Product and Services
  - 9.6.4 Advanced Heat Treat Corp. Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026)

- 9.6.5 Advanced Heat Treat Corp. Recent Developments/Updates
- 9.6.6 Advanced Heat Treat Corp. Competitive Strengths & Weaknesses
- 9.7 Solar Atmospheres
  - 9.7.1 Solar Atmospheres Details
  - 9.7.2 Solar Atmospheres Major Business
  - 9.7.3 Solar Atmospheres Case Hardening Services Product and Services
  - 9.7.4 Solar Atmospheres Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026)
  - 9.7.5 Solar Atmospheres Recent Developments/Updates
  - 9.7.6 Solar Atmospheres Competitive Strengths & Weaknesses
- 9.8 Braddock Metallurgical
  - 9.8.1 Braddock Metallurgical Details
  - 9.8.2 Braddock Metallurgical Major Business
  - 9.8.3 Braddock Metallurgical Case Hardening Services Product and Services
  - 9.8.4 Braddock Metallurgical Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Braddock Metallurgical Recent Developments/Updates
  - 9.8.6 Braddock Metallurgical Competitive Strengths & Weaknesses
- 9.9 Specialty Steel Treating
  - 9.9.1 Specialty Steel Treating Details
  - 9.9.2 Specialty Steel Treating Major Business
  - 9.9.3 Specialty Steel Treating Case Hardening Services Product and Services
  - 9.9.4 Specialty Steel Treating Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Specialty Steel Treating Recent Developments/Updates
  - 9.9.6 Specialty Steel Treating Competitive Strengths & Weaknesses
- 9.10 Cincinnati Steel Treating
  - 9.10.1 Cincinnati Steel Treating Details
  - 9.10.2 Cincinnati Steel Treating Major Business
  - 9.10.3 Cincinnati Steel Treating Case Hardening Services Product and Services
  - 9.10.4 Cincinnati Steel Treating Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026)
  - 9.10.5 Cincinnati Steel Treating Recent Developments/Updates
  - 9.10.6 Cincinnati Steel Treating Competitive Strengths & Weaknesses
- 9.11 Stack Metallurgical Group
  - 9.11.1 Stack Metallurgical Group Details
  - 9.11.2 Stack Metallurgical Group Major Business
  - 9.11.3 Stack Metallurgical Group Case Hardening Services Product and Services
  - 9.11.4 Stack Metallurgical Group Case Hardening Services Revenue, Gross Margin

and Market Share (2021-2026)

9.11.5 Stack Metallurgical Group Recent Developments/Updates

9.11.6 Stack Metallurgical Group Competitive Strengths & Weaknesses

9.12 Modern Industries

9.12.1 Modern Industries Details

9.12.2 Modern Industries Major Business

9.12.3 Modern Industries Case Hardening Services Product and Services

9.12.4 Modern Industries Case Hardening Services Revenue, Gross Margin and

Market Share (2021-2026)

9.12.5 Modern Industries Recent Developments/Updates

9.12.6 Modern Industries Competitive Strengths & Weaknesses

9.13 Parker Netsushori Kogyo

9.13.1 Parker Netsushori Kogyo Details

9.13.2 Parker Netsushori Kogyo Major Business

9.13.3 Parker Netsushori Kogyo Case Hardening Services Product and Services

9.13.4 Parker Netsushori Kogyo Case Hardening Services Revenue, Gross Margin and

Market Share (2021-2026)

9.13.5 Parker Netsushori Kogyo Recent Developments/Updates

9.13.6 Parker Netsushori Kogyo Competitive Strengths & Weaknesses

9.14 DOWA Thermotech

9.14.1 DOWA Thermotech Details

9.14.2 DOWA Thermotech Major Business

9.14.3 DOWA Thermotech Case Hardening Services Product and Services

9.14.4 DOWA Thermotech Case Hardening Services Revenue, Gross Margin and

Market Share (2021-2026)

9.14.5 DOWA Thermotech Recent Developments/Updates

9.14.6 DOWA Thermotech Competitive Strengths & Weaknesses

9.15 Shanghai Heat Treatment

9.15.1 Shanghai Heat Treatment Details

9.15.2 Shanghai Heat Treatment Major Business

9.15.3 Shanghai Heat Treatment Case Hardening Services Product and Services

9.15.4 Shanghai Heat Treatment Case Hardening Services Revenue, Gross Margin and

Market Share (2021-2026)

9.15.5 Shanghai Heat Treatment Recent Developments/Updates

9.15.6 Shanghai Heat Treatment Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

### **10.1 Case Hardening Services Industry Chain**

- 10.2 Case Hardening Services Upstream Analysis
- 10.3 Case Hardening Services Midstream Analysis
- 10.4 Case Hardening Services Downstream Analysis

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Case Hardening Services Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World Case Hardening Services Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World Case Hardening Services Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World Case Hardening Services Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World Case Hardening Services Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

Table 7. World Case Hardening Services Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)

Table 8. World Case Hardening Services Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World Case Hardening Services Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World Case Hardening Services Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key Case Hardening Services Players in 2025

Table 12. World Case Hardening Services Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global Case Hardening Services Company Evaluation Quadrant

Table 14. Head Office of Key Case Hardening Services Players

Table 15. Case Hardening Services Market: Company Product Type Footprint

Table 16. Case Hardening Services Market: Company Product Application Footprint

Table 17. Case Hardening Services Mergers & Acquisitions Activity

Table 18. United States VS China Case Hardening Services Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China Case Hardening Services Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 20. United States Based Case Hardening Services Companies, Headquarters (States, Country)

Table 21. United States Based Companies Case Hardening Services Revenue, (2021-2026) & (USD Million)

Table 22. United States Based Companies Case Hardening Services Revenue Market Share (2021-2026)

Table 23. China Based Case Hardening Services Companies, Headquarters (Province, Country)

Table 24. China Based Companies Case Hardening Services Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies Case Hardening Services Revenue Market Share (2021-2026)

Table 26. Rest of World Based Case Hardening Services Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies Case Hardening Services Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies Case Hardening Services Revenue Market Share (2021-2026)

Table 29. World Case Hardening Services Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World Case Hardening Services Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World Case Hardening Services Market Size by Type (2027-2032) & (USD Million)

Table 32. World Case Hardening Services Market Size by Process, (USD Million), 2021 & 2025 & 2032

Table 33. World Case Hardening Services Market Size Value by Process (2021-2026) & (USD Million)

Table 34. World Case Hardening Services Market Size by Process (2027-2032) & (USD Million)

Table 35. World Case Hardening Services Market Size by Material, (USD Million), 2021 & 2025 & 2032

Table 36. World Case Hardening Services Market Size Value by Material (2021-2026) & (USD Million)

Table 37. World Case Hardening Services Market Size by Material (2027-2032) & (USD Million)

Table 38. World Case Hardening Services Market Size by Application, (USD Million), 2021 & 2025 & 2032

Table 39. World Case Hardening Services Market Size by Application (2021-2026) & (USD Million)

Table 40. World Case Hardening Services Market Size by Application (2027-2032) & (USD Million)

Table 41. Bodycote Basic Information, Manufacturing Base and Competitors

Table 42. Bodycote Major Business

Table 43. Bodycote Case Hardening Services Product and Services

Table 44. Bodycote Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 45. Bodycote Recent Developments/Updates

Table 46. Bodycote Competitive Strengths & Weaknesses

Table 47. Aalberts Surface Technologies Basic Information, Manufacturing Base and Competitors

Table 48. Aalberts Surface Technologies Major Business

Table 49. Aalberts Surface Technologies Case Hardening Services Product and Services

Table 50. Aalberts Surface Technologies Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 51. Aalberts Surface Technologies Recent Developments/Updates

Table 52. Aalberts Surface Technologies Competitive Strengths & Weaknesses

Table 53. Paulo Basic Information, Manufacturing Base and Competitors

Table 54. Paulo Major Business

Table 55. Paulo Case Hardening Services Product and Services

Table 56. Paulo Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 57. Paulo Recent Developments/Updates

Table 58. Paulo Competitive Strengths & Weaknesses

Table 59. Bluewater Thermal Solutions Basic Information, Manufacturing Base and Competitors

Table 60. Bluewater Thermal Solutions Major Business

Table 61. Bluewater Thermal Solutions Case Hardening Services Product and Services

Table 62. Bluewater Thermal Solutions Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 63. Bluewater Thermal Solutions Recent Developments/Updates

Table 64. Bluewater Thermal Solutions Competitive Strengths & Weaknesses

Table 65. Nitrex Heat Treating Services Basic Information, Manufacturing Base and Competitors

Table 66. Nitrex Heat Treating Services Major Business

Table 67. Nitrex Heat Treating Services Case Hardening Services Product and Services

Table 68. Nitrex Heat Treating Services Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 69. Nitrex Heat Treating Services Recent Developments/Updates

Table 70. Nitrex Heat Treating Services Competitive Strengths & Weaknesses

Table 71. Advanced Heat Treat Corp. Basic Information, Manufacturing Base and

## Competitors

Table 72. Advanced Heat Treat Corp. Major Business

Table 73. Advanced Heat Treat Corp. Case Hardening Services Product and Services

Table 74. Advanced Heat Treat Corp. Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 75. Advanced Heat Treat Corp. Recent Developments/Updates

Table 76. Advanced Heat Treat Corp. Competitive Strengths & Weaknesses

Table 77. Solar Atmospheres Basic Information, Manufacturing Base and Competitors

Table 78. Solar Atmospheres Major Business

Table 79. Solar Atmospheres Case Hardening Services Product and Services

Table 80. Solar Atmospheres Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 81. Solar Atmospheres Recent Developments/Updates

Table 82. Solar Atmospheres Competitive Strengths & Weaknesses

Table 83. Braddock Metallurgical Basic Information, Manufacturing Base and Competitors

Table 84. Braddock Metallurgical Major Business

Table 85. Braddock Metallurgical Case Hardening Services Product and Services

Table 86. Braddock Metallurgical Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 87. Braddock Metallurgical Recent Developments/Updates

Table 88. Braddock Metallurgical Competitive Strengths & Weaknesses

Table 89. Specialty Steel Treating Basic Information, Manufacturing Base and Competitors

Table 90. Specialty Steel Treating Major Business

Table 91. Specialty Steel Treating Case Hardening Services Product and Services

Table 92. Specialty Steel Treating Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 93. Specialty Steel Treating Recent Developments/Updates

Table 94. Specialty Steel Treating Competitive Strengths & Weaknesses

Table 95. Cincinnati Steel Treating Basic Information, Manufacturing Base and Competitors

Table 96. Cincinnati Steel Treating Major Business

Table 97. Cincinnati Steel Treating Case Hardening Services Product and Services

Table 98. Cincinnati Steel Treating Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 99. Cincinnati Steel Treating Recent Developments/Updates

Table 100. Cincinnati Steel Treating Competitive Strengths & Weaknesses

Table 101. Stack Metallurgical Group Basic Information, Manufacturing Base and

## Competitors

Table 102. Stack Metallurgical Group Major Business

Table 103. Stack Metallurgical Group Case Hardening Services Product and Services

Table 104. Stack Metallurgical Group Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 105. Stack Metallurgical Group Recent Developments/Updates

Table 106. Stack Metallurgical Group Competitive Strengths & Weaknesses

Table 107. Modern Industries Basic Information, Manufacturing Base and Competitors

Table 108. Modern Industries Major Business

Table 109. Modern Industries Case Hardening Services Product and Services

Table 110. Modern Industries Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 111. Modern Industries Recent Developments/Updates

Table 112. Modern Industries Competitive Strengths & Weaknesses

Table 113. Parker Netsushori Kogyo Basic Information, Manufacturing Base and Competitors

Table 114. Parker Netsushori Kogyo Major Business

Table 115. Parker Netsushori Kogyo Case Hardening Services Product and Services

Table 116. Parker Netsushori Kogyo Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 117. Parker Netsushori Kogyo Recent Developments/Updates

Table 118. Parker Netsushori Kogyo Competitive Strengths & Weaknesses

Table 119. DOWA Thermotech Basic Information, Manufacturing Base and Competitors

Table 120. DOWA Thermotech Major Business

Table 121. DOWA Thermotech Case Hardening Services Product and Services

Table 122. DOWA Thermotech Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 123. DOWA Thermotech Recent Developments/Updates

Table 124. DOWA Thermotech Competitive Strengths & Weaknesses

Table 125. Shanghai Heat Treatment Basic Information, Manufacturing Base and Competitors

Table 126. Shanghai Heat Treatment Major Business

Table 127. Shanghai Heat Treatment Case Hardening Services Product and Services

Table 128. Shanghai Heat Treatment Case Hardening Services Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 129. Shanghai Heat Treatment Recent Developments/Updates

Table 130. Shanghai Heat Treatment Competitive Strengths & Weaknesses

Table 131. Global Key Players of Case Hardening Services Upstream (Raw Materials)

Table 132. Global Case Hardening Services Typical Customers



## List Of Figures

### LIST OF FIGURES

Figure 1. Case Hardening Services Picture

Figure 2. World Case Hardening Services Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Case Hardening Services Total Revenue (2021-2032) & (USD Million)

Figure 4. World Case Hardening Services Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Figure 5. World Case Hardening Services Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company Case Hardening Services Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company Case Hardening Services Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company Case Hardening Services Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company Case Hardening Services Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company Case Hardening Services Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company Case Hardening Services Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company Case Hardening Services Revenue (2021-2032) & (USD Million)

Figure 13. Case Hardening Services Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Case Hardening Services Consumption Value (2021-2032) & (USD Million)

Figure 16. World Case Hardening Services Consumption Value Market Share by Region (2021-2032)

Figure 17. United States Case Hardening Services Consumption Value (2021-2032) & (USD Million)

Figure 18. China Case Hardening Services Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe Case Hardening Services Consumption Value (2021-2032) & (USD Million)

Figure 20. Japan Case Hardening Services Consumption Value (2021-2032) & (USD Million)

Million)

Figure 21. South Korea Case Hardening Services Consumption Value (2021-2032) & (USD Million)

Figure 22. ASEAN Case Hardening Services Consumption Value (2021-2032) & (USD Million)

Figure 23. India Case Hardening Services Consumption Value (2021-2032) & (USD Million)

Figure 24. Producer Shipments of Case Hardening Services by Player Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Case Hardening Services Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Case Hardening Services Markets in 2025

Figure 27. United States VS China: Case Hardening Services Revenue Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Case Hardening Services Consumption Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. World Case Hardening Services Market Size by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World Case Hardening Services Market Size Market Share by Type in 2025

Figure 31. Nitriding

Figure 32. Carburizing

Figure 33. Others

Figure 34. World Case Hardening Services Market Size Market Share by Type (2021-2032)

Figure 35. World Case Hardening Services Market Size by Process, (USD Million), 2021 & 2025 & 2032

Figure 36. World Case Hardening Services Market Size Market Share by Process in 2025

Figure 37. Ferritic Nitrocarburizing

Figure 38. Gas Nitriding

Figure 39. Plasma / Ion Nitriding

Figure 40. Others

Figure 41. World Case Hardening Services Market Size Market Share by Process (2021-2032)

Figure 42. World Case Hardening Services Market Size by Material, (USD Million), 2021 & 2025 & 2032

Figure 43. World Case Hardening Services Market Size Market Share by Material in 2025

Figure 44. Low-carbon Steel

Figure 45. Alloy Steel

Figure 46. Tool Steel

Figure 47. Stainless Steel

Figure 48. Others

Figure 49. World Case Hardening Services Market Size Market Share by Material  
(2021-2032)

Figure 50. World Case Hardening Services Market Size by Application, (USD Million),  
2021 & 2025 & 2032

Figure 51. World Case Hardening Services Market Size Market Share by Application in  
2025

Figure 52. Manufacturing

Figure 53. Aerospace

Figure 54. Military

Figure 55. Industrial

Figure 56. Automotive

Figure 57. World Case Hardening Services Market Size Market Share by Application  
(2021-2032)

Figure 58. Case Hardening Services Industrial Chain

Figure 59. Methodology

Figure 60. Research Process and Data Source

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