

**Heat Treating Market Report by Material (Steel, Cast Iron, and Others), Process (Hardening and Tempering, Case Hardening, Annealing, Normalizing, and others), Equipment (Fuel-Fired Furnace, Electrically Heated Furnace, and Others), Application (Automotive, Aerospace, Metalworking, Construction, and Others), and Region 2025-2033**

Market Report | 2025-10-01 | 145 pages | IMARC Group

**AVAILABLE LICENSES:**

- Electronic (PDF) Single User \$3999.00
- Five User Licence \$4999.00
- Enterprisewide License \$5999.00

**Report description:**

The global heat treating market size reached USD 108.2 Billion in 2024. Looking forward, IMARC Group expects the market to reach USD 144.4 Billion by 2033, exhibiting a growth rate (CAGR) of 3.26% during 2025-2033.

Heat treating refers to the process of heating and cooling both ferrous as well as non-ferrous metals at various staged levels. It assists in obtaining the desired set of physical and mechanical properties. At present, several methods to improve the outcomes and cost-efficiency of heat treating have been developed, which are utilized depending on the metal type. For instance, superalloys employed in the aircraft industry undergo various heat-treating processes to optimize metal properties, including magnetism, hardness, toughness, ductility, brittleness, and electrical and corrosion resistance.

**Heat Treating Market Trends:**

The rising volume of air traffic on account of the expanding international trade, the increasing business travel, and the thriving tourism sector represents one of the key factors stimulating the market growth. Moreover, the boosting sales of vehicles worldwide are propelling the demand for heat treating to enhance the effective utilization of different components in the automotive industries while satisfying customer needs and environmental norms. Apart from this, as it assists in improving the machinability and surface properties and increasing strength, hardness, and wear resistance of metals, the heat-treating process is used to increase the thermomechanical behavior of Nickel-Titanium (Ni-Ti) based alloys. These alloys find extensive applications

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scott's-international.com](mailto:support@scott's-international.com)

[www.scott's-international.com](http://www.scott's-international.com)

in the biomedical sector to produce coils and treat cerebral aneurysms, which are localized dilations of the intracranial arteries. Furthermore, the leading market players are introducing a reliable, low-cost smart system for automating the heat-treating process. It includes a control unit, algorithm, sensor, and drive circuit that helps reduce time and human intervention and error. This is anticipated to impact the application of heat treating in the construction and oil and gas industries around the world.

**Key Market Segmentation:**

IMARC Group provides an analysis of the key trends in each sub-segment of the global heat treating market report, along with forecasts at the global, regional and country level from 2025-2033. Our report has categorized the market based on material, process, equipment and application.

**Breakup by Material:**

- Steel
- Cast Iron
- Others

**Breakup by Process:**

- Hardening and Tempering
- Case Hardening
- Annealing
- Normalizing
- Others

**Breakup by Equipment:**

- Fuel-Fired Furnace
- Electrically Heated Furnace
- Others

**Breakup by Application:**

- Automotive
- Aerospace
- Metalworking
- Construction
- Others

**Breakup by Region:**

- North America
  - o□ United States
  - o□ Canada
- Asia-Pacific
  - o□ China
  - o□ Japan
  - o□ India
  - o□ South Korea
  - o□ Australia
  - o□ Indonesia
  - o□ Others
- Europe
  - o□ Germany

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- o France
- o United Kingdom
- o Italy
- o Spain
- o Russia
- o Others
- Latin America
- o Brazil
- o Mexico
- o Others
- Middle East and Africa

#### Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Ajax TOCCO International Ltd, American Metal Treating Inc, Bluewater Thermal Solutions, Bodycote plc, East-Lind Heat Treat Inc., General Metal Heat Treating, Nabertherm GmbH, Pacific Metallurgical Inc, Seco/Warwick Inc., Thermax Limited and Unitherm Engineers Limited.

#### Key Questions Answered in This Report

1. How big is the global heat treating market?
2. What is the expected growth rate of the global heat treating market during 2025-2033?
3. What are the key factors driving the global heat treating market?
4. What has been the impact of COVID-19 on the global heat treating market?
5. What is the breakup of the global heat treating market based on the material?
6. What is the breakup of the global heat treating market based on the process?
7. What is the breakup of the global heat treating market based on the equipment?
8. What is the breakup of the global heat treating market based on the application?
9. What are the key regions in the global heat treating market?
10. Who are the key players/companies in the global heat treating market?

#### Table of Contents:

- 1 Preface
- 2 Scope and Methodology
  - 2.1 Objectives of the Study
  - 2.2 Stakeholders
  - 2.3 Data Sources
    - 2.3.1 Primary Sources
    - 2.3.2 Secondary Sources
  - 2.4 Market Estimation
    - 2.4.1 Bottom-Up Approach
    - 2.4.2 Top-Down Approach
  - 2.5 Forecasting Methodology
- 3 Executive Summary
- 4 Introduction
  - 4.1 Overview

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 4.2 Key Industry Trends
- 5 Global Heat Treating Market
  - 5.1 Market Overview
  - 5.2 Market Performance
  - 5.3 Impact of COVID-19
  - 5.4 Market Forecast
- 6 Market Breakup by Material
  - 6.1 Steel
    - 6.1.1 Market Trends
    - 6.1.2 Market Forecast
  - 6.2 Cast Iron
    - 6.2.1 Market Trends
    - 6.2.2 Market Forecast
  - 6.3 Others
    - 6.3.1 Market Trends
    - 6.3.2 Market Forecast
- 7 Market Breakup by Process
  - 7.1 Hardening and Tempering
    - 7.1.1 Market Trends
    - 7.1.2 Market Forecast
  - 7.2 Case Hardening
    - 7.2.1 Market Trends
    - 7.2.2 Market Forecast
  - 7.3 Annealing
    - 7.3.1 Market Trends
    - 7.3.2 Market Forecast
  - 7.4 Normalizing
    - 7.4.1 Market Trends
    - 7.4.2 Market Forecast
  - 7.5 Others
    - 7.5.1 Market Trends
    - 7.5.2 Market Forecast
- 8 Market Breakup by Equipment
  - 8.1 Fuel-Fired Furnace
    - 8.1.1 Market Trends
    - 8.1.2 Market Forecast
  - 8.2 Electrically Heated Furnace
    - 8.2.1 Market Trends
    - 8.2.2 Market Forecast
  - 8.3 Others
    - 8.3.1 Market Trends
    - 8.3.2 Market Forecast
- 9 Market Breakup by Application
  - 9.1 Automotive
    - 9.1.1 Market Trends
    - 9.1.2 Market Forecast
  - 9.2 Aerospace

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 9.2.1 Market Trends
- 9.2.2 Market Forecast
- 9.3 Metalworking
  - 9.3.1 Market Trends
  - 9.3.2 Market Forecast
- 9.4 Construction
  - 9.4.1 Market Trends
  - 9.4.2 Market Forecast
- 9.5 Others
  - 9.5.1 Market Trends
  - 9.5.2 Market Forecast
- 10 Market Breakup by Region
  - 10.1 North America
    - 10.1.1 United States
      - 10.1.1.1 Market Trends
      - 10.1.1.2 Market Forecast
    - 10.1.2 Canada
      - 10.1.2.1 Market Trends
      - 10.1.2.2 Market Forecast
  - 10.2 Asia-Pacific
    - 10.2.1 China
      - 10.2.1.1 Market Trends
      - 10.2.1.2 Market Forecast
    - 10.2.2 Japan
      - 10.2.2.1 Market Trends
      - 10.2.2.2 Market Forecast
    - 10.2.3 India
      - 10.2.3.1 Market Trends
      - 10.2.3.2 Market Forecast
    - 10.2.4 South Korea
      - 10.2.4.1 Market Trends
      - 10.2.4.2 Market Forecast
    - 10.2.5 Australia
      - 10.2.5.1 Market Trends
      - 10.2.5.2 Market Forecast
    - 10.2.6 Indonesia
      - 10.2.6.1 Market Trends
      - 10.2.6.2 Market Forecast
    - 10.2.7 Others
      - 10.2.7.1 Market Trends
      - 10.2.7.2 Market Forecast
  - 10.3 Europe
    - 10.3.1 Germany
      - 10.3.1.1 Market Trends
      - 10.3.1.2 Market Forecast
    - 10.3.2 France
      - 10.3.2.1 Market Trends

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 10.3.2.2 Market Forecast
- 10.3.3 United Kingdom
  - 10.3.3.1 Market Trends
  - 10.3.3.2 Market Forecast
- 10.3.4 Italy
  - 10.3.4.1 Market Trends
  - 10.3.4.2 Market Forecast
- 10.3.5 Spain
  - 10.3.5.1 Market Trends
  - 10.3.5.2 Market Forecast
- 10.3.6 Russia
  - 10.3.6.1 Market Trends
  - 10.3.6.2 Market Forecast
- 10.3.7 Others
  - 10.3.7.1 Market Trends
  - 10.3.7.2 Market Forecast
- 10.4 Latin America
  - 10.4.1 Brazil
    - 10.4.1.1 Market Trends
    - 10.4.1.2 Market Forecast
  - 10.4.2 Mexico
    - 10.4.2.1 Market Trends
    - 10.4.2.2 Market Forecast
  - 10.4.3 Others
    - 10.4.3.1 Market Trends
    - 10.4.3.2 Market Forecast
- 10.5 Middle East and Africa
  - 10.5.1 Market Trends
  - 10.5.2 Market Breakup by Country
  - 10.5.3 Market Forecast
- 11 SWOT Analysis
  - 11.1 Overview
  - 11.2 Strengths
  - 11.3 Weaknesses
  - 11.4 Opportunities
  - 11.5 Threats
- 12 Value Chain Analysis
- 13 Porters Five Forces Analysis
  - 13.1 Overview
  - 13.2 Bargaining Power of Buyers
  - 13.3 Bargaining Power of Suppliers
  - 13.4 Degree of Competition
  - 13.5 Threat of New Entrants
  - 13.6 Threat of Substitutes
- 14 Price Analysis
- 15 Competitive Landscape
  - 15.1 Market Structure

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 15.2 Key Players
- 15.3 Profiles of Key Players
  - 15.3.1 Ajax TOCCO International Ltd
    - 15.3.1.1 Company Overview
    - 15.3.1.2 Product Portfolio
  - 15.3.2 American Metal Treating Inc
    - 15.3.2.1 Company Overview
    - 15.3.2.2 Product Portfolio
  - 15.3.3 Bluewater Thermal Solutions
    - 15.3.3.1 Company Overview
    - 15.3.3.2 Product Portfolio
  - 15.3.4 Bodycote plc
    - 15.3.4.1 Company Overview
    - 15.3.4.2 Product Portfolio
    - 15.3.4.3 Financials
  - 15.3.5 East-Lind Heat Treat Inc.
    - 15.3.5.1 Company Overview
    - 15.3.5.2 Product Portfolio
  - 15.3.6 General Metal Heat Treating
    - 15.3.6.1 Company Overview
    - 15.3.6.2 Product Portfolio
  - 15.3.7 Nabertherm GmbH
    - 15.3.7.1 Company Overview
    - 15.3.7.2 Product Portfolio
  - 15.3.8 Pacific Metallurgical Inc
    - 15.3.8.1 Company Overview
    - 15.3.8.2 Product Portfolio
  - 15.3.9 Seco/Warwick Inc.
    - 15.3.9.1 Company Overview
    - 15.3.9.2 Product Portfolio
    - 15.3.9.3 Financials
  - 15.3.10 Thermax Limited
    - 15.3.10.1 Company Overview
    - 15.3.10.2 Product Portfolio
    - 15.3.10.3 Financials
  - 15.3.11 Unitherm Engineers Limited
    - 15.3.11.1 Company Overview
    - 15.3.11.2 Product Portfolio

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

**Heat Treating Market Report by Material (Steel, Cast Iron, and Others), Process (Hardening and Tempering, Case Hardening, Annealing, Normalizing, and others), Equipment (Fuel-Fired Furnace, Electrically Heated Furnace, and Others), Application (Automotive, Aerospace, Metalworking, Construction, and Others), and Region 2025-2033**

Market Report | 2025-10-01 | 145 pages | IMARC Group

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

**ORDER FORM:**

Select license	License	Price
	Electronic (PDF) Single User	\$3999.00
	Five User Licence	\$4999.00
	Enterprisewide License	\$5999.00
		VAT
		Total

\*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

\*\* VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-08"/>
		Signature	<input type="text"/>