

Global Graphite Electrode Nipples Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Graphite Electrode Nipples market size is expected to reach \$ 288 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

Graphite electrode nipples are precision-threaded cylindrical connectors used to join individual graphite electrode segments into continuous columns for electric arc furnace steelmaking. Unlike the electrode body itself, nipples endure higher mechanical stress and electrical current density at the joint interface, requiring superior mechanical strength, electrical conductivity, and thermal shock resistance. Key specifications include thread type (3 TPI or 4 TPI), diameter (typically 100-700mm to match electrode diameters), and material grade matching the electrode (RP/HP/UHP). Nipples are produced from the same calcined needle coke and petroleum coke raw materials as electrodes, through analogous manufacturing steps: mixing, forming, baking, graphitization, and precision CNC thread machining. As integral components of the electrode column, nipple quality directly affects joint stability, electrode consumption rates, and furnace safety. From a value chain perspective, upstream includes needle coke and petroleum coke suppliers; midstream involves nipple manufacturing by integrated electrode producers or specialized carbon product factories; downstream demand spans steel mills operating electric arc furnaces, ladle refining furnaces, submerged arc furnaces for ferroalloy production, and non-ferrous metal smelters. In 2025, the average selling price is approximately US\$2,150 per ton, global sales volume is about 59.1k tons, and gross margins generally range from 20% to 35%, driven by needle coke costs, precision machining requirements, and steel industry demand cycles.

The graphite electrode nipples market is experiencing steady growth driven by the global expansion of electric arc furnace steelmaking and increasing demand for high-

performance electrode connection systems.

EAF Steelmaking Expansion as Primary Driver

The global shift toward electric arc furnace steel production continues to accelerate, driven by decarbonization policies and the need for lower-carbon steelmaking routes. EAF technology already accounts for over 30% of new steel production capacity, with the market projected to grow annually. Graphite electrodes—and their connecting nipples—are consumable components essential to EAF operations. As steel mills adopt larger diameter electrodes (600-800mm) operating at higher current densities to increase productivity, the demands on the connection joint tighten significantly. Nipples must withstand greater mechanical and thermal stress without loosening or fracturing.

Technology Migration Toward UHP-Grade Components

The industry is witnessing a clear shift from regular power (RP) and high power (HP) grades toward ultra-high power (UHP) electrode systems. UHP electrodes operate at current densities above 25 A/cm², generating more arcs and higher temperatures but also reducing consumption rates. This transition demands matching UHP-grade nipples capable of carrying equivalent current and maintaining joint integrity under more extreme service conditions. UHP components command premium pricing and carry higher margins, reflecting their stricter manufacturing tolerances and material quality requirements.

This report studies the global Graphite Electrode Nipples production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Graphite Electrode Nipples 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 Graphite Electrode Nipples that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Graphite Electrode Nipples total production and demand, 2021-2032, (Kilotons)

Global Graphite Electrode Nipples total production value, 2021-2032, (USD Million)

Global Graphite Electrode Nipples production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Graphite Electrode Nipples consumption by region & country, CAGR, 2021-2032

& (Kilotons)

U.S. VS China: Graphite Electrode Nipples domestic production, consumption, key domestic manufacturers and share

Global Graphite Electrode Nipples production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Graphite Electrode Nipples production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Graphite Electrode Nipples production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Graphite Electrode Nipples market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Resonac Holdings Corporation (formerly Showa Denko), Tokai Carbon Co., Ltd., SGL Carbon SE, GrafTech International Ltd., SEC Carbon, Ltd., HEG Limited, Graphite India Limited, Carbone Savoie S.A.S., Tokai COBEX GmbH, Fangda Carbon New Material Co., Ltd., 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 Graphite Electrode Nipples market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by 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 Graphite Electrode Nipples Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Graphite Electrode Nipples Market, Segmentation by Type:

3 Threads Per Inch(TPI)

4 Threads Per Inch(TPI)

Global Graphite Electrode Nipples Market, Segmentation by Size (Matching Electrode):

200-300 mm

300-500 mm

500-700 mm

Above 700 mm

Global Graphite Electrode Nipples Market, Segmentation by Surface Treatment:

Standard Uncoated

Anti-Oxidation Coated

Global Graphite Electrode Nipples Market, Segmentation by Application:

Electric Melting Furnace

Electric Arc Furnaces

Other

Companies Profiled:

Resonac Holdings Corporation (formerly Showa Denko)

Tokai Carbon Co., Ltd.

SGL Carbon SE

GrafTech International Ltd.

SEC Carbon, Ltd.

HEG Limited

Graphite India Limited

Carbone Savoie S.A.S.

Tokai COBEX GmbH

Fangda Carbon New Material Co., Ltd.

Nantong Yangzi Carbon Co., Ltd.

Jilin Carbon Co., Ltd.

Fushun Jinli Carbon Co., Ltd.

Rongxing Group

Red Flag Canal Carbon

Hebei Sanlong Carbon Products

Hebei Yidong Carbon Products Co., Ltd.

Hebei Dikesen Carbon Co., Ltd.

Zhengzhou Rongsheng Kiln Refractory Co., Ltd.

Handan Qifeng Carbon

Jianglong Carbon

Ao Hui Carbon Company

D.N.S Yeson Group

Graphite Amp Carbon Industries India Pvt. Ltd.

Carbon Technician

HP Graphite

Key Questions Answered:

1. How big is the global Graphite Electrode Nipples market?
2. What is the demand of the global Graphite Electrode Nipples market?
3. What is the year over year growth of the global Graphite Electrode Nipples market?
4. What is the production and production value of the global Graphite Electrode Nipples market?
5. Who are the key producers in the global Graphite Electrode Nipples market?
6. What are the growth factors driving the market demand?

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Figure 68. Research Process and Data Source

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