

Global Needle Coke Dryer Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Needle Coke Dryer market size is expected to reach \$ 2087 million by 2032, rising at a market growth of 7.7% CAGR during the forecast period (2026-2032).

In 2025, global sales of needle coke dryers reached 14,260 units, with an average price of \$86,000 per unit.

A needle coke dryer is an industrial drying device utilized during the production, transport, or post-processing stages of needle coke manufacturing to reduce the moisture content of the material. The materials typically processed include green coke (raw coke), wet needle coke, petroleum coke, coal-based needle coke granules, coke fines, or surface moisture on calcined coke. Its primary function is to reduce the moisture level of the needle coke—using hot air, steam, thermal oil, waste heat, or indirect heat transfer—to the specific levels required for subsequent calcination, pulverizing, screening, packaging, or processing into graphite electrodes and anode materials.

Needle coke itself is classified as a high-end carbon material, characterized by a low coefficient of thermal expansion, low sulfur and ash content, high electrical conductivity, and ease of graphitization. It is primarily used in the production of high-power (HP) and ultra-high-power (UHP) graphite electrodes, as well as specialized carbon products. Based on the raw material source, it can be broadly categorized into oil-based needle coke and coal-based needle coke. Consequently, needle coke drying equipment differs significantly from standard dryers used for slag or sand and gravel. When selecting such equipment, greater emphasis is placed on minimizing material breakage, ensuring uniform temperature control, and incorporating features for dust prevention, explosion protection, pollution control, superior sealing, and robust downstream dust removal

systems.

The upstream segment of the needle coke dryer industry chain comprises suppliers of core components, including steel, refractory materials, motor reducers, heat source systems (steam, thermal oil, or natural gas), and dust removal equipment. Among these, the quality of the alloy steel plates used for the dryer cylinder and the membrane-wall heat exchange tubes directly determines the equipment's service life and drying efficiency. The midstream segment consists of equipment manufacturers—represented by companies such as FLS, Qingdao Songling, Zhengzhou Dingli, and Allgaier—which offer a comprehensive product range spanning everything from standard rotary kilns to customized membrane-wall indirect heat exchange systems. The downstream segment connects with needle coke producers (e.g., Baowu Carbon, Jinzhou Petrochemical, and Shandong Jingyang) and manufacturers of lithium-ion battery anode materials; demand within this segment is inextricably linked to the capacity expansion of graphite electrode and artificial graphite anode production facilities. Regarding market prospects, driven by the explosive growth of the new energy vehicle and energy storage sectors, China's production capacity for artificial graphite anode materials is projected to expand at an average annual rate of 15%–20% between 2025 and 2030. This growth directly stimulates demand for needle coke and associated drying equipment. Concurrently, the increasing adoption of ultra-high-power electric arc furnaces for steelmaking is driving a steady rise in demand for needle coke used in graphite electrodes. In terms of technological trends, indirect heat-transfer dryers are gradually displacing traditional direct-heating equipment to become the industry standard, thanks to their ability to effectively minimize volatile matter loss and reduce material breakage rates. Key directions for equipment upgrades include intelligentization—featuring variable frequency speed control, real-time moisture monitoring, and waste heat recovery—and scaling up, with single-unit processing capacities exceeding 10 tons per hour. Consequently, the market for high-end, customized drying systems is expected to maintain a compound annual growth rate of over 10%.

This report studies the global Needle Coke Dryer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Needle Coke Dryer 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 Needle Coke Dryer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Needle Coke Dryer total production and demand, 2021-2032, (K Units)

Global Needle Coke Dryer total production value, 2021-2032, (USD Million)

Global Needle Coke Dryer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Needle Coke Dryer consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Needle Coke Dryer domestic production, consumption, key domestic manufacturers and share

Global Needle Coke Dryer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Needle Coke Dryer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Needle Coke Dryer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Needle Coke Dryer 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 FLS, Metso, Allgaier, UBE Machinery, Tsukishima Kikai, TEMA Process, COMESSA, BHS-Sonthofen, FEECO, Bepex, 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 Needle Coke Dryer market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 Needle Coke Dryer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Needle Coke Dryer Market, Segmentation by Type:

Direct Hot Air Type

Indirect Heat Transfer Type

Global Needle Coke Dryer Market, Segmentation by Equipment Structure:

Rotary Drum Type

Triple-Pass Rotary Drum Type

Steam Tube Rotary Type

Fluidized Bed Type

Others

Global Needle Coke Dryer Market, Segmentation by Operation Mode:

Continuous

Batch

Global Needle Coke Dryer Market, Segmentation by Application:

Coal-based Needle Coke

Oil-based Needle Coke

Companies Profiled:

FLS

Metso

Allgaier

UBE Machinery

Tsukishima Kikai

TEMA Process

COMESSA

BHS-Sonthofen

FEECO

Bepex

Louisville Dryer

Carrier Vibrating Equipment

Kurimoto

Mitsubishi Kakoki

Heyl Patterson Thermal Processing

Qingdao Songling Environmental

Shenyang Yitong Chuangye Drying Equipment

Zhengzhou Drying Equipment

Zhengzhou Jiutian Machinery Equipment

Tongli Heavy Machinery

Key Questions Answered:

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

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