

Global Industrial Silicon Electric Furnace Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Industrial Silicon Electric Furnace market size was valued at US\$ 191 million in 2025 and is forecast to a readjusted size of US\$ 315 million by 2032 with a CAGR of 6.6% during review period.

An industrial silicon electric furnace is a high-power submerged arc furnace system used to produce industrial silicon (metallic silicon). It produces metallic silicon and byproducts such as silicon slag and silicon powder through a reduction reaction between quartz and a carbonaceous reducing agent under high-temperature electric arc conditions. Industrial silicon electric furnaces are typical high-energy-consuming continuous metallurgical reaction equipment systems, integrating electrode control systems, transformer power supply systems, furnace structure, and flue gas purification and automation control systems. They are core equipment in the modern silicon-based materials industry chain. With a gross profit margin of approximately 30%.

The growth of the industrial silicon electric furnace market is primarily driven by upgrades in the new energy and materials industries. The continued expansion of the global photovoltaic industry is boosting demand for polysilicon, making industrial silicon a core raw material in the photovoltaic supply chain. Rising demand from new energy vehicles and lightweight aluminum-silicon alloys is accelerating the expansion of industrial silicon smelting scale. Growth in the chemical organosilicon materials industry is driving long-term, inelastic demand for industrial silicon. Challenges include high energy consumption constraints, carbon emission policy restrictions, and electricity price volatility risks.

Industrial silicon electric furnace technology is upgrading from traditional high-energy-

consuming submerged arc furnaces to intelligent, low-carbon, and highly automated smelting systems. SMS group GmbH's SAF system is widely used in ferroalloy and silicon smelting, improving operational efficiency through electrode control systems and digital energy management. Tenova has enhanced its flue gas recovery and energy optimization systems in its silicon smelting technology, enabling the utilization of waste heat during the smelting process. Metso optimizes production efficiency through rotary furnace design and by-product silicon powder recovery technology. Future technological trends include AI electrode control, digital twin furnace condition management, and low-carbon electric coupling smelting systems, enabling industrial silicon electric furnaces to gradually transform from "high-energy-consuming equipment" into "energy-optimized metallurgical platforms".

This report is a detailed and comprehensive analysis for global Industrial Silicon Electric Furnace market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Equipment Capacity and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Industrial Silicon Electric Furnace market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Industrial Silicon Electric Furnace market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Industrial Silicon Electric Furnace market size and forecasts, by Equipment Capacity and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Industrial Silicon Electric Furnace market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Industrial Silicon Electric Furnace

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Industrial Silicon Electric Furnace market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Tenova, SMS group GmbH, Ningbo Shengguang Electric Furnace, Metso, Dalian Huarui Heavy Industry Group, Danieli, Xi'an Electric Furnace Institute, Xi'an Sanrui Electric Furnace, CISDI Group, Primetals Technologies, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Industrial Silicon Electric Furnace market is split by Equipment Capacity and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Equipment Capacity, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Equipment Capacity

Below 15,000 kVA

15,000 kVA-30,000 kVA

Above 30,000 kVA

Market segment by Type

Single-phase Electric Furnace

Three-phase Electric Furnace

Market segment by Application

Photovoltaic

Semiconductor

Chemical Industry

Metallurgical

Others

Major players covered

Tenova

SMS group GmbH

Ningbo Shenguang Electric Furnace

Metso

Dalian Huarui Heavy Industry Group

Danieli

Xi'an Electric Furnace Institute

Xi'an Sanrui Electric Furnace

CISDI Group

Primetals Technologies

Xiye Tech Group

Inner Mongolia Nashun Equipment Engineering

Sichuan Junchi Metallurgical Complete Equipment Manufacturing

Jinzhou Tiansheng Heavy Industry

Shaanxi CHENGDA Industry Furnace MAKE

SHOO (INT'L) Holding Xi'an Equipment

Lanzhou Dahong Engineering Equipment

Yixing Yuyou Metallurgical Equipment

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Industrial Silicon Electric Furnace product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Industrial Silicon Electric Furnace, with price, sales quantity, revenue, and global market share of Industrial Silicon Electric

Furnace from 2021 to 2026.

Chapter 3, the Industrial Silicon Electric Furnace competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Industrial Silicon Electric Furnace breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Equipment Capacity and by Application, with sales market share and growth rate by Equipment Capacity, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Industrial Silicon Electric Furnace market forecast, by regions, by Equipment Capacity, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Industrial Silicon Electric Furnace.

Chapter 14 and 15, to describe Industrial Silicon Electric Furnace sales channel, distributors, customers, research findings and conclusion.

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