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Global Submerged Entry Nozzle (SEN) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Submerged Entry Nozzle (SEN) market size is expected to reach $ 974 million by 2032, rising at a market growth of 2.9% CAGR during the forecast period (2026-2032).

Submerged Entry Nozzle is a functional refractory product used in steel continuous casting to connect the tundish and the mould and to deliver molten steel into the mould under controlled and protected flow conditions. The research scope focuses on the nozzle body used for tundish to mould steel transfer in continuous casting operations. Main product forms include slab submerged entry nozzles, thin slab submerged entry nozzles, billet and bloom submerged entry nozzles, beam blank submerged entry nozzles, anti clogging submerged entry nozzles, gas purging submerged entry nozzles, cold start submerged entry nozzles and quick change submerged entry nozzles. Key material systems include alumina carbon, alumina zirconia carbon, zirconia carbon slag line composites and fused silica. Core manufacturing processes include isostatic pressing, composite slag line design, anti clogging inner lining treatment, high temperature firing, precision machining and flow channel optimization. Key specifications include material system, outer diameter, inner diameter, length, outlet angle, outlet geometry, slag line thickness, thermal shock resistance, corrosion resistance, alumina clogging resistance and casting sequence life per unit. Its core functions are to reduce molten steel reoxidation, stabilize mould flow, reduce inclusion entrainment, improve cast product quality and support stable continuous casting. It is mainly used in continuous casting of carbon steel, special steel, stainless steel, automotive sheet steel, electrical steel, pipeline steel and high cleanliness steel. In 2025, the global industry average price of submerged entry nozzles is about USD 420 per unit, and the industry average gross margin is about 28%.

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Submerged entry nozzles are critical functional refractories in the steel continuous casting value chain. The upstream side mainly includes alumina, graphite, zirconia, fused silica, phenolic resin, isostatic pressing equipment, firing systems and precision machining resources. The midstream consists of manufacturers of continuous casting functional refractories and flow control products, while the downstream is concentrated in integrated steel mills, electric arc furnace steelmakers, slab casters, thin slab casters, billet casters, bloom casters and special steel casting lines. This product is not a generic refractory consumable, because it directly affects molten steel cleanliness, mould flow stability, casting sequence performance and surface quality of cast products. As the share of high cleanliness steel, automotive sheet, electrical steel, pipeline steel, stainless steel and special steel continues to rise, demand is shifting toward anti clogging designs, longer service life, quick change systems, cold start performance and customized outlet geometry. Industry value growth is therefore mainly driven by product upgrading rather than simple volume expansion.

The global competitive landscape is mature but technically segmented. Leading suppliers build barriers through material formulation, isostatic pressing know how, composite slag line design, flow simulation capability and on site technical service, while regional manufacturers compete through local steel mill relationships, shorter delivery cycles and cost advantages. China, India and East Asia represent the most concentrated demand and supply regions, while European and Japanese suppliers retain stronger positions in high end slab casting, high cleanliness steel applications and complex flow control designs. Industry consolidation and business integration are mainly related to refractory group expansion, global steel customer coverage, low carbon steelmaking service capability and package supply of continuous casting functional refractories. Smaller manufacturers still have room in standard nozzle applications, but high end steel grades require sustained investment in materials, manufacturing control and field application engineering.

The policy environment affects the submerged entry nozzle industry mainly through steel industry decarbonization, ultra low emission upgrades, capacity replacement, quality improvement and regional relocation of steelmaking capacity. Global steel demand is entering a moderate growth phase, and the continuous casting ratio is already high, so the industry should not be treated as a high growth emerging market. However, new steel projects and capital expenditure in India, the Middle East and Southeast Asia will continue to support incremental demand. Future development will be shaped by anti clogging inner linings, composite slag line structures, thin slab specific nozzle designs, quick change compatibility, longer service life and digital flow optimization. Key risks include steel cycle volatility, raw material price fluctuations, cost

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reduction pressure from steel mills and competition from regional low cost suppliers, while premium product substitution and higher steel grade requirements should continue to support stable profitability.

This report studies the global Submerged Entry Nozzle (SEN) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Submerged Entry Nozzle (SEN) 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 Submerged Entry Nozzle (SEN) that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Submerged Entry Nozzle (SEN) total production and demand, 2021-2032, (K Units)
Global Submerged Entry Nozzle (SEN) total production value, 2021-2032, (USD Million)
Global Submerged Entry Nozzle (SEN) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Submerged Entry Nozzle (SEN) consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Submerged Entry Nozzle (SEN) domestic production, consumption, key domestic manufacturers and share
Global Submerged Entry Nozzle (SEN) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Submerged Entry Nozzle (SEN) production by Casting Product Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Submerged Entry Nozzle (SEN) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Submerged Entry Nozzle (SEN) 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 Vesuvius plc, RHI Magnesita N.V., Krosaki Harima Corporation, Shinagawa Refra Co., Ltd., TYK Corporation, IFGL Refractories Ltd., TRL Krosaki Refractories Ltd., Beijing LIRR High Temperature Materials Co., Ltd., Puyang Refractories Group Co., Ltd., Sinosteel Luonai Materials Technology Co., Ltd., etc.

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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 Submerged Entry Nozzle (SEN) 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 Casting Product 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 Submerged Entry Nozzle (SEN) Market, By Region:

- United States
- China
- Europe
- Japan
- South Korea
- ASEAN
- India
- Rest of World

Global Submerged Entry Nozzle (SEN) Market, Segmentation by Casting Product Type:

- Slab SEN
- Bloom SEN

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Beam Blank SEN

Others

Global Submerged Entry Nozzle (SEN) Market, Segmentation by Material System:

Alumina Graphite SEN

Alumina Zirconia Carbon SEN

Fused Silica SEN

Composite Lined SEN

Others

Global Submerged Entry Nozzle (SEN) Market, Segmentation by Product Configuration:

Straight Bore SEN

Bifurcated SEN

Multi Port SEN

Bottom Port SEN

Others

Global Submerged Entry Nozzle (SEN) Market, Segmentation by Application:

Carbon Steel

Specialty Steel

Stainless Steel

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Automotive and Electrical Steel

Others

Companies Profiled:

Vesuvius plc

RHI Magnesita N.V.

Krosaki Harima Corporation

Shinagawa Refra Co., Ltd.

TYK Corporation

IFGL Refractories Ltd.

TRL Krosaki Refractories Ltd.

Beijing LIRR High Temperature Materials Co., Ltd.

Puyang Refractories Group Co., Ltd.

Sinosteel Luonai Materials Technology Co., Ltd.

Sheffield Refractories Limited

Zhejiang Longcheng Naihuo Cailiao Co., Ltd.

Luoyang Yinqiao Naihuo Cailiao Co., Ltd.

China Steel Refractories Co., Ltd.

Chosun Refractories Co., Ltd.

VGH Viktoria Garten H?ttenindustriebedarf GmbH

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Key Questions Answered:

1. How big is the global Submerged Entry Nozzle (SEN) market?
2. What is the demand of the global Submerged Entry Nozzle (SEN) market?
3. What is the year over year growth of the global Submerged Entry Nozzle (SEN) market?
4. What is the production and production value of the global Submerged Entry Nozzle (SEN) market?
5. Who are the key producers in the global Submerged Entry Nozzle (SEN) market?
6. What are the growth factors driving the market demand?

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