Iran's steel industry keeping flourishing trend



Iran's steel industry stands at the forefront of the nation's industrial advancement, playing a pivotal role in economic development and global trade. The industry has steadily grown despite various challenges, leveraging technological innovations, strategic export initiatives, and a wealth of natural resources to establish a strong global presence. Iran's annual steel production capacity is targeted to hit 55 million tons by 2025.



Ninth producer of crude steel

According to the World Steel Association (WSA), Iranian steelmakers churned out 2.6 million tons of crude steel in January, which led the country to stand at ninth place of global steel producers.

World crude steel production for the 71 countries reporting to the World Steel Association was 148.1 million tons in January 2024.

Iran was the tenth-biggest steelmaker in the world in 2033 as the country produced 31.1 million tons of crude steel during past year.

Green production

The industry's commitment to adopting environmentally sustainable production practices has been a significant driver of technological innovation in Iran.

Iranian steelmakers have embraced eco-friendly initiatives, such as the use of renewable energy sources and the implementation of energy-efficient technologies, to align with global sustainability trends and reduce their environmental footprint.

Sponge iron production

The extensive and innovative use of direct-reduction iron (DRI) technology in Iran's steel industry has been a game-changer for sponge iron production. By reducing reliance on imported raw materials and enabling cost-effective steel production, this technology has enhanced the industry's self-sufficiency while promoting economic viability and competitiveness in the global market.

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Self-sufficiency in CK45 steel production

Saba Steel Complex, a subsidiary of Mobarakeh Steel Company (MSC) in October 2023, inaugurated a production line of CK45 steel that made Iran needless of importing the product.

CK45 steel is classified as medium carbon steel, which is one of the most widely used non-alloy carbon steels. It has good tensile properties and machinability. So, the product is widely used in the field of machinery manufacturing.

In the past two years, one of the main strategies of MSC has been the production of new products with greater added value.

The new hot-rolled product of CK45 steel, which has many applications in the agricultural industry as well as making industrial tools, was manufactured by Saba Steel Complex after months of effort and relying on technology and skill.

High-strength steel

Notably, Iran's production of high-strength steel (HSS) has gained significant attention, particularly in industries such as automotive, construction, and machinery manufacturing. The demand for lightweight yet high-strength materials has been a driving force behind the development of advanced high-strength steel (AHSS) and ultra-high-strength

steel (UHSS) grades in Iran.

These specialized steel products offer improved performance characteristics, including enhanced structural integrity, weight reduction, and increased durability, making them well-suited for applications requiring superior mechanical properties.

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