

# **Steelmaking, Shaping, Treating and processing, Steel and Steel Products (Fasteners, Seamless Tubes, Casting, Rolling of Flat Products & others), Iron and Steel making by-Products, Steel making and Refining, Manufacturing of Steel, Steel Production**

## **Description:**

Steel is one of the most important and widely used products in the world. Currently, the steel industry is undergoing a process of change. As a result of ongoing technical and economic developments, the production and use of electric arc furnace steel is, beneath the steel production in a blast furnace, becoming increasingly important, continuously gaining share of world-wide steel production over the past 30 years.

Steel is a term given to alloys containing a high proportion of iron with some carbon. Other alloying elements may also be present in varying proportions. The properties of steel are highly dependent on the proportions of alloying elements, so that their levels are closely controlled during its manufacture. The properties of steel also depend on the heat treatment of the metal.

The comparative advantage of cheap and high quality iron ore and manganese, has been somewhat set off by the limited accessibility of the steel industry to the supply of coking coal. The adoption of the sponge iron route by the private sector integrated plants helped in circumventing the constraint, and at the same time, ushered in a technological revolution in the industry. As a result, India has come to enjoy a cost advantage compared to most countries.

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**Keywords:** Steelmaking, Shaping, Treating and processing, Steel and Steel Products, Fasteners, Seamless Tubes, Casting, Rolling of Flat Products, Iron and Steel making by-Products, Steel making and Refining, Manufacturing of Steel, Steel Production, Business Plan, Industry Trends, Manufacturing Plant, Machinery, Raw Materials, Investment Opportunities, Steel, Hot, Rolling, Reheating, Restoration, Dynamic, Static, Recrystallization, Explosive, Fragmentation

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