

Khuzestan Steel Company (KSC) is the largest supplier of steel ingots in the Islamic Republic of Iran. It acquired the first rank in organizational excellence in 1392 (2013-2014) and the first rank in human resource excellence in 1391 (2012 – 2013). With more than three decades of production and localization, the company has gained an outstanding and unique position in expansion of activities relevant to the development of steel industry in the country.

Construction of the first direct reduction furnace in Khuzestan Steel Company in Ahvaz in 1380 (2001-2002) resulted in global registration of the license for the first unique Iranian pattern in production of sponge iron. Following this success, steel projects in the country, including provincial steel projects were implemented on the same basis. In addition to this major engineering project, construction of fully Iranian ladle furnace, building of the first ladle furnace transformer and manufacture of heavy electrical machineries and equipment of foundry machines and scores of other important projects that resulted in domestic manufacture of over eight thousands important equipment of steel processing all underline the important national role this knowledge-based complex plays in the steel industry of the country.

On the other hand, the growth rate of production in Khuzestan Steel Company by the end of 1392 (2013 –

Khuzestan Steel Company Pioneer in Development of Iran Steel Industry



2014) in comparison with 1386 (2007 – 2008) was more than 60% and the company with a share of 25% of the total crude steel production, is one of the industrial poles in the Fifth Development Plan and in the 2025 Vision Plan.

While the initial production capacity of the plant was 1.5 million tons with six electric arc furnaces, with the same number of furnaces and under the same roof, in the form of three development phases, the amount of annual production of KSC in 1392 (2013 – 2014) surpassed 3.5 million tons. In 1393 (2014 – 2015) on the threshold of the Ten-Day Dawn ceremonies and the festivities of the 36th

anniversary of the victory of the Islamic Revolution, the KSC output amounts to three million tons of steel ingots.

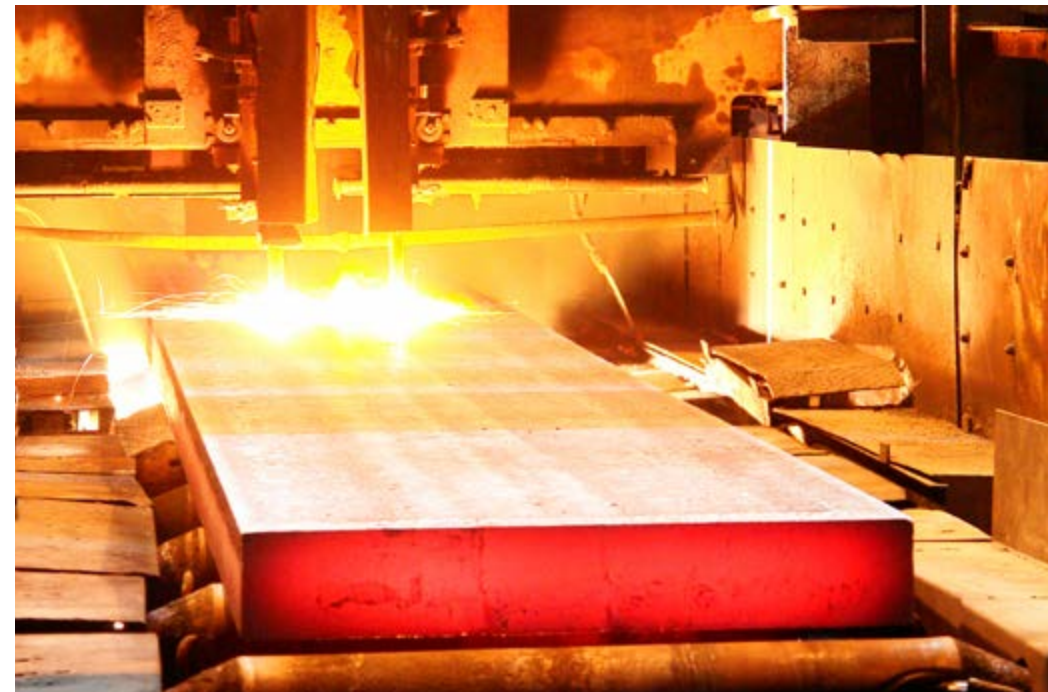
Khuzestan Steel Company, in line with support for national production and maintenance of raw materials for rolling plants inside the county, has made its utmost efforts and offered most of its products to the domestic market. Meanwhile, with the successful dispatch of export consignments of high quality ingots the company has experienced a successful presence in export markets of the region and the world.

Khuzestan Steel Company at a Glance

Khuzestan Steel Company comprises different sections of raw materials, direct reduction and steelmaking.

In the raw materials sector there are accumulation and exploitation units and two pelletizing plants with a total capacity of five million tons annually. This section by receiving the raw materials produces iron ore pellets needed by the direct reduction units.

The second sector is the direct reduction unit. Khuzestan Steel Company initially possessed three direct reduction Midrex furnaces with a capacity of 400 thousand tons annually each, which increased to 600



thousand tons per year due to the efforts of the staff of this giant complex and with the required improvement operations.

The complex and global technology of direct reduction of iron was examined in Khuzestan Steel Company for the first time with an aim of localization.

KSC experts as pioneers in the field of localization in 1380 (2001-2002) succeeded in design and construction of Zamzam factory by copy modeling the Midrex method and making necessary modifications in it.

Zamzam plant was a fruit of creativity of Iranian engineers and researchers who at that time had built the biggest direct reduction furnace in the country with an unprecedented annual capacity of 800 thousand tons of sponge iron.

Following this valuable experience and only seven

years later, in 1387 (2008 – 2009) the second direct reduction Zamzam factory was built with a capacity of one million tons per year by Khuzestan Steel Company.

This massive progress was a magnificent transformation in production of sponge iron and a proof of proficiency of Iranian line of thinking and experience in the field of steel industry technology.

Sponge iron is the second middle steel product which is melted and refined in the electric arc steelmaking furnaces. The steelmaking sector has six 180-ton electric arc furnaces for the molten steel production and four ladle furnaces for the secondary metallurgy operations and homogenizing the mixture and melting temperature.

Scrap and sponge iron are melted first in the electric arc furnace with a high

temperature of 1550 degrees. In this process, the impurities are extracted from the furnace and the molten steel with high purity is discharged in a special ladle and remains in the ladle furnace under the secondary metallurgy operations before being forwarded to the casting unit.

The ladle furnaces 3 and 4 are the leading examples of the progress of Khuzestan Steel Company in the field of localization of technology. The first Iranian ladle furnace was designed, built and became operational in 1384 (2005 – 2006) thanks to the efforts of the competent experts at KSC.

The molten product prepared in accordance with the customer's order will enter the casting unit after final confirmation.

In steelmaking unit five constant casting machines including three bloom and billet and two slab machines

are active.

The billet ingots are produced in 100 and 130 mm dimensions and the bloom ingots in 15 and 200 mm dimensions.

The slab ingots are produced in 1250 to 800 with a thickness of 195 to 245 mm and up to the length of 10 thousand mm.

The bloom, billet and slab ingots after sound quality evaluation on the basis of world standards will be sent to domestic and foreign markets.

The baking and lime granulation factory, the electrical conversion post, the industrial water and wastewater treatment plants and three oxygen units are among effective units in Khuzestan Steel Company.



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