



**Esfahan Malleable Co.**

Ferrous and non-ferrous foundry alloys



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## IRAN FOUNDRY INDUSTRY

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## WHO ARE WE

**EMC** is one of the leading foundry companies in Iran based in Isfahan . The company is well known for its pioneering role in producing many cast parts for the first time inside the country

## LINKS

» [Steel Founders Society of America](#)

» [The Link Exchange](#)

» [Foundry online](#)

» [traffboost](#)

» [Gsitecrawler](#)

According to International reports in 2012 Islamic Republic of Iran with 331 Billion \$ GDP in the world ranking was in 32 position. The division of GDP for different sectors was 46% for services, %18 Oil, 25% Mine & Industry and 11% belong to agriculture sector.

*casting* of *Metals* has a very old history that goes to 5000 years B.C but industrial *foundry* Production Started From 1953 in Iran.

In 2012 statistics and estimations of experts shows that *foundry* production in Iran with a decrease was about 540,000tons with a turn over near 1.2 billion \$ that was 1.45 percent of GDP for industrial sector. Comparing with *foundry* production of 37 countries (46th census of world *casting* production – 2012 Modern *casting*) Iran *foundry* will have 18 position, 0.58% of world production.

### *foundry* Production

YEAR	Grey	Ductile	Malleable	Alloy <i>iron</i>	<i>steel</i>	Al	<i>Copper</i> Base	<i>Zinc</i>	Total
/ Alloy									
1993	194,823	63,072	4,240	11,778	15,701	17,289	17,489	1883	326,373
2010	395,000	180,000	-	30,000	68,000	52,000	39,000	12,000	780,000
2011	370,000	150,000	-	32,000	65,000	55,000	36,000	10,000	718,000
2012	230,000	120,000	-	35,000	70,000	40,000	30,000	15,000	540,000

More than 1250 *foundries* are active in production Ferrous and non-Ferrous *Alloys*, more than 80% of production is produced in large and medium and 20% Small *foundries*. Large *foundries* have annual capacity from 15 to 80,000 tons and small size less than 500 tons.

### There is a growing home market for *casting* demand in different sectors.

	Some Important Sectors	2012	Vision 2025
1-	Car & Auto Industry	0.95 M. units	3 M. units
2-	<i>steel</i>	20 M. tons	60 M. tons
3-	<i>Copper</i>	0.35 M. tons	1 M. tons
4-	<i>aluminium</i>	0.4 M. tons	1 M. tons
5-	Cement	70 M. tons	130 M. tons
6-	Mine (Cu , Fe , Pb, Zn , ...)	180 M tons	250 M. tons

In addition many project for development in Oil & Gas, Petrochemical, Mine, Water & Energy, Road & Railway new cities and renovating old structures of large cities are part of a hopeful scope for home market.

### *foundry* & Export

Advantages and opportunities for *foundry* are divided in two categories that can be explained in two triangles. One in Energy, Labour and *raw material* and the second is Market, Distance and Technology.

Now the price of Energy has been risen during Last year but still there will be a compatible and cheap source remain for Energy and it is Natural Gas.

*raw material* is also an advantage for *foundry* Industry in Iran because of big sand resources of metallic mines and Ferro-*Alloys* Production. (Ferro-Si, Ferro-Cr, Ferro-Mn, Ferro-Mo)

The cost of labour is not high and No. of educated students from universities are enough for new plants.

There is also a huge market in Iraq, Afghanistan, CIS, North and central Africa that are not far from Iran so expansion of Industrial-Exports will drive *foundry* Industries.

For example base price for grey cast *iron* is 0.8 Euro/Kg and ductile *iron* 1.1 and Last prices for Gas & Electricity in Industry are 0.1 Euro/m<sup>3</sup> & 0.05 Euro/kw and 1 to 2 Euro/kg for carbon *steel* to high alloyed *castingsteel* parts.

source :<http://www.foundry-planet.com>



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