



REPUBLIC OF TURKEY
MINISTRY OF ECONOMY



INDUSTRY



IRON & STEEL ARTICLES OF IRON OR STEEL



TURKEY

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IRON & STEEL, ARTICLES OF IRON OR STEEL

IRON & STEEL PRODUCTION OF TURKEY

As the iron and steel industry supplies input to almost all manufacturing sectors, it plays an important role in the industrialization and development of Turkey.

The foundations of the Turkish industrialization were laid in the 1930s. The first integrated Iron and Steel Works (KARDEMİR) facility began to operate in Karabuk in 1939 when Turkey produced raw steel for the first time. In order to meet the demand for flat products, the second integrated plant, Ereğli Iron and Steel Works (ERDEMİR) started production in 1965. In 1977, Iskenderun Iron and Steel Works (ISDEMİR), Turkey's third integrated steel mill, came into operation to meet the demand for long products and semi-products. After the '80s, investments for the production of iron and steel by electric arc furnaces started.

The takeover of ISDEMİR by ERDEMİR on condition of its conversion to flat products, which occurred as a result of liberalization in economic activities, was the most important and recent development in the Turkish steel sector. The privatization of ISDEMİR in 2002, which was the last state-owned facility, is also important as it steered the Turkish iron and steel industry to be entirely operated by the private sector.

At present, the Turkish steel industry has 19 electric arc furnaces and three integrated works, (KARDEMİR, ERDEMİR, ISDEMİR) with a total raw steel production capacity of nearly 51.8 million tons per year.

In 2011 Turkey had a steel production capacity totaling 51.8 million tons, out of which some 36.0 million tons or 69.5% was for long-steel products that are mostly used in the construction sector. 15.8 million tons or 30.5% of the raw steel capacity is directed to flat products.

Crude Steel Production of Turkey (Thousand Tons)

	2006	2007	2008	2009	2010	2011	Change (%) 10/11
Ingot	20,302	22,028	22,650	20,524	21,827	24,400	11.8
Slab	3,135	3,726	4,156	4,779	7,316	9,707	32.7
Total	23,437	25,754	26,806	25,303	29,143	34,107	17.0

Source: Turkish Iron & Steel Producers' Association

Raw steel production in Turkey rose to 34.1 million tons and Turkey was the 10th largest steel producing country in the world by the end of 2011. By product type, 71.6% of total steel production was directed to long products and about 28.4% was for flat products in 2011. In terms of the production processes, 88% was electric arc furnace steel, and 12% was oxygen (BOF) steel.

With the rise of new investment projects and capacity increases to production of flat steel products, the flat/long steel production imbalance in Turkish steel industry has begun to change. While flat products' share in total raw steel production was 14% in 2007, the share rose to 28% in 2011 and while long products' share in total raw steel production was 86% in 2007, the share declined to 72% in 2011.

Articles of Iron or Steel

Developments in the iron and steel sector have direct input on the growth of production in iron or steel articles. At present Turkey produces a wide range of iron and steel articles which meets almost all of the domestic demand. Among iron or steel articles, casting products and steel pipes and tubes have significant importance. In kitchenware and industrial kitchen products, Turkey has built a considerable capacity in recent years and has increased the exports of these items.

With the continuous demand generated by the Turkish manufacturing industry, the casting and forgings industry of Turkey has experienced booming development both in technology and in market.

Turkish foundries, which are able to produce every kind of alloyed or unalloyed ferrous castings, specialize in the production of cast parts for domestic industries. Concerning the geographical distribution of the sector, the major foundries, which are all privately-owned, are located in Istanbul, Kocaeli, Bursa, Eskisehir, Bilecik, Izmir and Ankara. Small scale family-owned casting companies are widely spread in almost all regions of Turkey.

The remarkable increase in casting production and exports is due to the increasing domestic and world demand and government policies which encouraged many entrepreneurs to invest in the foundry sector. Turkish foundry men have managed to improve productivity with the use of new technologies and attained low production cost with high quality. The developing Turkish foundry industry is currently in a phase of expansion and aims production at international standards. The casting industry in Turkey is composed of 1,200 small, medium and large-sized foundries.

FOREIGN TRADE OF TURKEY

Exports

With the positive developments in economy in general, the iron and steel sector has shown an increase in both exports and domestic demand. In 2011, steel exports reached about US\$ 16.9 billion with a 26% growth.

Iron and steel long products with an export value of US\$ 7.1 billion were the largest product group in sector exports. Flat products with an export value of US\$ 1.8 billion were one of the largest product groups. Iron and steel pipes exports also ranked high with a value of US\$ 1.6 billion in 2011. The other important iron and steel products in exports were steel billets (US\$ 1.5 billion) and structural steel and parts (US\$ 1.1 million).

Among the markets that Turkish steel products are exported, the EU and Middle East are the primary export markets. In 2011, major markets for Turkish steel exports were Iraq with a share of 8%, the UAE with a share of 6%, Italy with a share of 6%, S. Arabia with a share of 5%, and Germany with a share of 4%.

Iron & Steel Products Exports of Turkey (Value: Million US \$)

	Products	2009	2010	2011	2010-2011 Change (%)	Exported Countries in 2011 (Shares) (%)
7201	Pig iron	4	4	6	51	Pakistan (67), Bulgaria(13), Syria(1), Mauritius (0.7),Greece (0,5)
7204	Scrap	89	166	204	23	The Netherlands (59), Germany (15), The UK (10), India (6), Ukraine (2)
7207	Billet, bloom	984	1,935	1,531	-21	S. Arabia (30), S. Egypt (18), Iran (11), Syria (8), UAE (6)
7208-7212	Flat products	884	1,099	1,842	68	Italy (31), Romania (8), Spain (7), Belgium (4), Greece (4)
7213-7217	Long Products	5,457	5,160	7,081	37	The UAE (12), Iraq (11), The USA (5), Singapore (5), Israel (5)
7218-7229	Special steel products	134	239	405	69	Germany (20), The USA (15), Austria (6), Bulgaria (5), Rumania (4),
7303-7306	Pipes and tubes	1.428	1.472	1.645	12	The USA (13), Iraq (12) The UK (9), Czech Rep. (7), Rumania (6),
7307	Pipe fittings	94	115	130	13	Germany (12), Turkmenistan (7), Iraq (6), Russian Fed. (5), Azerbaijan (5)
7308	Structures & parts	990	923	1.102	19	Iraq (19), Turkmenistan (13), Azerbaijan (9), Tunisia (4), Georgia (3)
7312-7314	Stranded wires, ropes	147	178	212	19	Iran (12), Germany (11), Slovenia (7), Belgium (5) Italy (5)
7315	Chains	13	13	14	7	Germany (28), Italy (8), Romania (5), Poland (5), Iran (4)
7317	Nails	16	22	26	20	Iraq (12), The Netherlands (10), Georgia (9), Israel (9), The UK (7),
7318	Screws, bolts	143	194	266	37	Germany (38), France (5), Slovakia (4), Iran (4), Iraq (4)
7322	Radiators	382	399	448	12	The UK (27), Romania (9), Ukraine (8), Germany (7), Poland (5)
7323	Kitchen/table articles	173	187	216	16	Egypt (15), Germany (11), Iraq (7), Russia Fed. (6), Iran (6)
7202,7203, 7205,7206, 7301,7302, 7309-7311, 7316, 7319-7321, 7324-7326	Others	1.248	1.484	1.857	25	Germany (16), The UK (6), France (6), Iraq (6), Italy (4)
72-73	Total	12,186	13,590	16,986	25	Iraq (8), The UAE (6), Italy (6), S. Arabia (5), Germany (4)

Source: Republic of Turkey Ministry of Economy

TRADE FAIRS

- **WIN METAL WORKING'12 17TH MACHINE COMPONENTS AND METAL WORKING FAIR**
Metal Working Machinery, Special and Non - Metal Working Machinery, Machine Components, Hand Tools, Factory and Shop Floor Equipment 02.02.2011 - 05.02.2011 in Istanbul
- **WIN WELDING '12 12TH JOINING, WELDING AND CUTTING TECHNOLOGIES FAIR**
Welding and cutting machinery and equipment, welding automation systems, welding and filling materials and welding services fair.
02.02.2011 - 05.02.2011 in Istanbul
- **WIN SURFACE TREATMENT '12 6. SURFACE TREATMENT TECHNOLOGIES FAIR**
Surface Cleaning and Pre-Treatment Equipment, Paint and Plastics Coating Systems, Galvanization Systems, Special Surface Coating Technologies, Paint
02.02.2011 - 05.02.2011 in Istanbul
- **LOGISTICS EXHIBITION**
Rail Rolling Stock and Light Rail Systems Materials, Railway Logistics, Human and Freight Transportation
08.03.2012 - 10.03.2012 in Istanbul
- **3T ' 2012 10. INTERNATIONAL METAL WORKING, MOULD AND AUTOMATION TECHNOLOGIES FAIR**
Metal Working Machines, Mold and Moulding Systems, Automation Technologies
08.03.2012 - 11.03.2012 in Izmir
- **MACHINERY, METAL PROCESSING, AUTOMATION TRADE FAIR**
Metal Processing and Automation Equipment with All Their Parts
15.03.2012 - 18.03.2012 in Ankara
- **MIDDLE EAST 3. MANUFACTURING MACHINES AND RELATED INDUSTRIES FAIR 2012**
Manufacturing Machines and Related Industries
29.03.2012 - 01.04.2012 in Diyarbakir
- **WIN HYDRAULIC AND PNEUMATIC'12 9TH FLUID POWER TECHNOLOGIES FAIR**
Oil Hydraulic Systems and Components, Lubrication Systems, Water Hydraulic Systems and Components, Pneumatic Systems And Components Oil for Machinery And Hydraulics, Hydraulic and Pneumatic Services
29.03.2012 - 01.04.2012 in Istanbul
- **KONMAK 2012 - KONYA 9. INTERNATIONAL METAL PROCESSING MACHINES, WELDING, DRILLING, CUTTING TECHNOLOGIES, MATERIALS AND HAND TOOLS, HYDRAULIC AND PNEUMATIC FAIR**
Metal Processing Machines, Welding, Drilling, Cutting Technologies, Materials and Hand Tools, Hydraulic and Pneumatic
26.04.2012 - 29.04.2012 in Konya

- **MOULD EURASIA 2012**
Mould Technologies, Related Industry.
10.05.2012 - 13.05.2012 in Bursa
- **ANKIROS 2012 11. INTERNATIONAL IRON - STEEL & FOUNDRY TECHNOLOGY, MACHINERY AND PRODUCTS TRADE FAIR**
Raw Material, Machinery, Equipment, Technology, Products and Services.
13.09.2012 - 16.09.2012 in Istanbul
- **ANNOFER 2012 10. INTERNATIONAL NON - FERROUS METALS TECHNOLOGY, MACHINERY AND PRODUCTS TRADE FAIR**
Raw Material, Machinery, Equipment, Technology, Products and Services
13.09.2012 - 16.09.2012 in Istanbul
- **TURKCAST 2012 5. FOUNDRY PRODUCTS TRADE FAIR**
Casting Technology, All Kinds of Metal Casting Products
13.09.2012 - 16.09.2012 in Istanbul
- **TATEF 2012 14. INTERNATIONAL METALWORKING TECHNOLOGIES EXHIBITION**
CNC Machine Tools / Cutting And Forming Tools / Cad - Cam / Sheet Metal Processing Machines / Surface Treatment Technologies / Automation / Hydraulic & Pneumatic
02.10.2012 - 07.10.2012 in Istanbul
- **MAKTEK EURASIA 2012**
Machine Tools, Metal Processing Machines, Welding, Cutting, Drilling, Quality Control, Test and Measuring Equipments
02.10.2012 - 07.10.2012 in Istanbul
- **9TH YAPEX WINDOOR FAIR**
Window - Door Systems, Stores and Shutters, Automatic Doors, Barriers
18.10.2012 - 21.10.2012 in Antalya
- **BURSA 11. METAL PROCESSING TECHNOLOGIES FAIR**
Metal Processing Machines, Welding, Cutting, Drilling Technologies, Hand Tools, Pneumatic, Hydraulic
06.12.2012 - 09.12.2012 in Bursa
- **BURSA 4. SHEET METAL PROCESSING TECHNOLOGIES FAIR 2012**
Sheet Metal, Pipe Profile Processing Technologies and Side Industries
06.12.2012 - 09.12.2012 in Bursa

USEFUL LINKS

- Turkish Iron and Steel Producers Association
www.dcu.org.tr
- The European Steel Association
www.eurofer.org
- World Steel Association
www.worldsteel.org
- Turkish Structural Steel Association
www.tucsa.org
- Turkish Steel Pipe Manufacturers Association
www.cebid.org.tr
- Turkish Steel Exporters' Association
<http://www.immib.org.tr/en/associations-turkish-steel-exporters-association.html>



REPUBLIC OF TURKEY
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