



REPUBLIC OF TURKEY
MINISTRY OF ECONOMY



INDUSTRY



MACHINE TOOLS



TURKEY
www.economy.gov.tr

MACHINE TOOLS

HS Numbers: 8456-8463, 8464-8466

The term 'machine tools' covers a wide range of machinery used for cutting, removing or forming metal to produce components which are subsequently assembled into engineering products. Simply, machine tools are "machines that produce machines". Important sectors of the engineering industry include the manufacture of motor vehicles, aerospace products and general industrial equipment. These sectors, together with the subcontractors that supply them, make up the customer base for supplies of machine tools. Thus, it is generally viewed as a strategic sector for a country.

In 2011, the top 28 countries' production of machine tools totaled US\$ 93.8 billion. That is 33,8% higher than the value those same nations created in 2010.

PRODUCTION

Machine tools production started in the mid `60s in Turkey with the production of lathes by private companies. In line with national industrialization efforts state institutions undertook the leading role for the machine tools industry. The first step was the licensing agreements signed with two world famous machine tools manufacturers. After a long, hard period of work the first Turkish-made machine tool came off the production line in 1984. In the following years various machine tools (universal/vertical milling machines, universal/turret turning lathes, cylindrical/surface grinding machines, tool grinding machines, radial grinding machines etc.) have been produced in large numbers in Turkey.

During this period CNC machining centers were introduced to the world market. Both global and Turkish industrial manufacturers demanded these hi-tech, computer controlled machine tools. The Turkish machine tools industry has been able to meet this new demand since the beginning of the '90s. The process of manufacturing better, innovative machine tools with higher technology is an ongoing effort among machine tools manufacturers in Turkey. At present Turkey relies on Turkish-made machine tools.

According to worldwide statistics for the year 2010, Turkey is the 12th largest manufacturer among 28 machine tool manufacturing countries, with a production value of US\$ 555 million. 26% of the total is from metal cutting type machining centers and the remaining 74% from metal forming type machine tools. For the year 2011, Turkey is the 14th largest manufacturer among 28 machine tool manufacturing countries, with a production value of US\$ 668 million. The Turkish machine tools industry partially meets domestic demand and about 58% of the production was exported in 2011.

Today, the Turkish machine tools industry manufactures and exports various kinds of machine tools including; CNC/conventional machining centers, CNC/conventional lathes, CNC/conventional milling machines, CNC/conventional grinding machines, bending machines, bordering machines, honing machines, presses, shears, press breaks, CNC brakes, CNC cutting machines, profile cutting machines, band saws, seaming machines, welding machines (MIG-MAG, TIG-WIG), planning machines, thickening machines, rip saws, resawing machines, CNC/conventional gear hobbing machines, spindle molding machines, corner notchers, calibrating and polishing machines, chamfering machines for stones, trimming machines for stones, splitting machines, log carriages, dust sucking machines, parts and components of machines tools (electronic components, computer

controls, CNCs, NCs, cam switches, tool holders, chucks, load lifting magnets, magnetic chucks, mandrels, hydraulic cylinders and spare parts, bar feeders for CNC lathes, tooling dies, universal frames/cabinets, CNC cabinets, work benches, material cabinets, tool cabinets etc) and other metal, stone, glass, wood and plastic processing machines.

The Turkish machine tools industry and sub-industries are composed of about 480 companies. These companies are mainly SME's which have less than 200 employees. About 10 companies are large-scale manufacturers of machine tools and parts/components/auxiliaries.

Manufacturing sites are mainly located in the Marmara, Central Anatolian and Aegean Regions of Turkey. Istanbul, Bursa, Konya, Izmir, Ankara and Kayseri are the major cities in machine tools and parts/components production. The sector employs about 3200 workers.

EXPORTS

Turkey's machine tools exports were US \$387 million in 2011. The Turkish machine tools industry exports high-tech machining centers as well as metal-forming type machine tools. Machine tools that are exported are mainly metal-forming types.

Exports of Metal-Working Machine Tools (Value: US\$ 1,000)

HS	Product Name	2009	2010	2011
8456	Mach-tool for removal of material by laser, photon beam, plasma arc process	18.714	26.331	41.453
8457	Mach. Center unit const. mach. & multi-station transfer mach. for working metals	9.821	3.367	4.016
8458	Lathes for removing metals	5.394	5.778	5.348
8459	Machine-tools for drill/boring/milling, threading/tapping, o/t heading. no. 84.	6.324	9.153	12.072
8460	Machine-tools for deburring/grinding, etc. for finishing metals, sintered metal carbides/cermets	9.751	13.648	10.031
8461	Machine-tools for planning/shaping, etc. sawing & other machine-tools for metals	17.066	18.136	22.884
8462	Machine-tools for working metals by forging/hammering; machine-tool for bending, etc.	215.284	229.510	272.210
8463	Machine-tools for working metal, n.e.s. sintered metals carbides w/o removing material	10.525	11.756	19.531
	Total	292.879	317.680	387.546

Source: Turkish Statistical Institute - TurkStat

Exports of Other Machine Tools and Parts (Value: US\$ 1,000)

HS	Product Name	2009	2010	2011
8464	Machine-tool for working stone/ceramic	14.088	15.377	14.880
8465	Mach-tool for working wood/cork/bone/hard rubber	50.995	63.152	82.594
8466	Machinery parts & accessories (machinery of heading 84.56 to 84.65)	37.319	41.071	60.003
	Total	102.402	119.601	157.477

Source: Turkish Statistical Institute - TurkStat

The Turkish machine tools industry exports its products to nearly 140 countries worldwide. The main export destinations are Russian Federation, USA, Germany, Poland, Brazil, Iran and Iraq. Turkish machine tools manufacturers are closely following international developments in quality, safety and the environmental aspects of production. EU technical harmonization is on force and at the beginning of 2002 it became obligatory to fulfill CE Mark requirements in order to sell products in the Turkish domestic market.

Exports of Metal-Working Machine Tools by Countries (Value: US\$ 1,000)

	Country	2009	2010	2011
1	Russian Federation	10.571	16.834	28.385
2	USA	11.278	14.121	26.664
3	Germany	22.249	16.786	21.343
4	Poland	9.844	12.927	17.246
5	Brazil	8.690	19.394	17.032
6	Iran (IR)	16.612	15.391	16.672
7	Iraq	21.017	16.701	14.958
8	Saudi Arabia	11.865	10.460	11.515
9	Canada	3.454	6.709	10.194
10	Kocaeli Free Zone	4.169	6.555	10.048
11	France	7.216	6.701	8.353
12	Italy	9.297	8.428	7.445
13	Netherlands	4.929	4.407	7.149
14	India	3.543	5.798	6.458
15	Romania	3.208	3.204	6.383
16	Azerbaijan	7.399	12.263	6.172
17	Algeria	4.757	4.102	6.110
18	United Arab Emirates	5.307	4.202	6.045
19	Bulgaria	4.905	4.396	5.823
20	United Kingdom	3.398	4.751	5.688
21	Others	119.171	123.552	147.864
	Total	292.879	317.680	387.546

Source: Turkish Statistical Institute- TurkStat

Exports of Other Machine Tools and Parts by Countries (Value: US\$ 1,000)

	Country	2009	2010	2011
1	Germany	11.333	14.417	28.246
2	Iran (IR)	12.511	15.984	24.660
3	Russian Federation	5.375	7.048	11.805
4	Iraq	7.779	10.800	10.474
5	Bulgaria	3.183	5.688	7.835
6	Istanbul Leather Free Z.	2.185	3.902	5.324
7	Azerbaijan	4.851	4.115	2.998
8	Romania	1.666	2.035	2.821
9	Aegean Free Zone	828	1.783	2.353
10	Turkmenistan	1.606	2.541	2.343
11	Saudi Arabia	2.487	2.305	2.231
12	Algeria	772	1.192	2.160
13	India	1.016	1.844	2.078
14	Spain	443	458	2.010
15	Italy	1.462	1.026	1.897
16	Others	44.905	44.463	48.241
	Total	102.402	119.601	157.477

Source: Turkish Statistical Institute- TurkStat

TRADE FAIRS

You can check the list of international and national trade fairs which will be held in 2012, on “metal working, cutting, fluid casting, molding and side industries” from “Turkey Fair Guide 2012” web-site (www.fuarrehberi.org.tr).

- General Secretariat of Central Anatolian Exporters Union:
www.oaib.org.tr/en
- Turkish Machinery Promotion Group:
www.makinetanitimgrubu.com.tr/en/



REPUBLIC OF TURKEY
MINISTRY OF ECONOMY

go further with Turkey

Prepared by

General Directorate of Exports

Address: İnönü Bulvarı No:36

06510 Emek

Ankara - Turkey

www.economy.gov.tr

Turkey Contact Point



+90 312 444 43 63