



REPUBLIC OF TURKEY
MINISTRY OF TRADE

INDUSTRY



MACHINE TOOLS



TURKEY

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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.

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 2011, Turkey is the 14th largest manufacturer among 28 machine tool manufacturing countries, with a production value of US\$ 668 million. For the year 2014, Turkey is the 12th largest manufacturer among 27 machine tool manufacturing countries, with a production value of US\$ 722 million. 27% of the total is from metal cutting type machining centers and the remaining 73% from metal forming type machine tools.

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, thicknessing 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.

EXPORTS

Turkey's machine tools exports were US \$654 million in 2017. 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.

Table 1: Exports of Metalworking Machine Tools (Value: US\$ 1,000)

HS	Product Name	2015	2016	2017
8456	Mach-tool for removal of material by laser, photon beam, plasma arc process	98.624	99.466	107.362
8457	Mach. Center unit const. mach. & multi-station transfer mach. for working metals	11.320	8.583	10.374
8458	Lathes for removing metals	7.207	7.527	8.431
8459	Machine-tools for drill/boring/milling, threading/tapping, o/t heading. no. 84.	11.231	10.061	10.502
8460	Machine-tools for deburring/grinding, etc. for finishing metals, sintered metal carbides/cermets	12.581	13.784	15.397
8461	Machine-tools for planning/shaping, etc. sawing & other machine-tools for metals	20.827	22.349	24.930
8462	Machine-tools for working metals by forging/hammering; machine-tool for bending, etc.	282.792	254.956	282.664
8463	Machine-tools for working metal, n.e.s. sintered metals carbides w/o removing material	25.164	25.261	31.686
Total		469.746	441.987	491.346

Source: Trademap

Table 2: Exports of Other Machine Tools and Parts (Value: US\$ 1,000)

HS	Product Name	2015	2016	2017
8464	Machine-tool for working stone/ceramic	14.163	13.552	16.635
8465	Mach-tool for working wood/cork/bone/hard rubber	64.778	70.666	83.877
8466	Machinery parts & accessories (machinery of heading 84.56 to 84.65)	61.762	59.736	62.480
Total		140.703	143.954	162.992

Source: Trademap

The Turkish machine tools industry exports its products to more than 150 countries worldwide. The main export destinations are Germany, USA, Russian Federation, Poland, Italy, Spain, Algeria, Canada, France, Iran, Bulgaria and Saudi Arabia. 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.

Table 3: Exports of Metalworking Machine Tools by Countries
(Value: US\$ 1,000)

	Country	2015	2016	2017
1	Germany	32.891	31.788	33.565
2	USA	28.494	36.808	31.509
3	Russian Federation	19.224	13.873	25.224
4	Poland	20.823	15.411	23.548
5	Canada	13.532	17.091	16.727
6	Spain	9.133	12.601	16.163
7	Italy	7.325	9.733	15.927
8	France	10.664	15.293	13.452
9	Algeria	13.109	10.710	12.407
10	United Kingdom	12.132	9.952	11.416
11	Free Zones	11.579	8.691	11.344
12	Saudi Arabia	32.804	21.396	10.742
13	Iran	14.543	10.664	10.338
14	Netherlands	9.152	10.644	10.318
15	Romania	9.151	6.412	9.807
16	Bulgaria	8.521	13.817	9.750
17	Ukraine	2.904	4.833	9.197
18	Czech Republic	13.012	5.579	8.588
19	Israel	8.479	8.034	8.102
20	Hungary	5.521	8.485	8.065
	Others	186.753	170.166	195.155
	Total	469.746	441.987	491.344

Source: Trademap

Table 4: Exports of Other Machine Tools and Parts by Countries
(Value: US\$ 1,000)

	Country	2015	2016	2017
1	Germany	25.614	28.391	27.507
2	Free Zones	10.706	8.736	8.497
3	Algeria	6.143	7.462	6.552
4	Iraq	5.732	4.266	5.151
5	Bulgaria	3.927	4.339	5.062
6	Israel	2.056	2.565	4.838
7	United States of America	2.050	2.571	4.741
8	Iran, Islamic Republic of	7.832	6.512	4.687
9	Italy	3.543	4.270	4.282
10	Romania	2.937	3.291	4.085
11	Russian Federation	5.615	2.733	3.913
12	Poland	1.081	2.873	3.820
13	Saudi Arabia	5.088	3.796	3.397
14	Spain	3.088	2.417	2.941
15	Argentina	786	1.116	2.860
16	Serbia	2.320	3.392	2.656
17	United Arab Emirates	2.613	1.286	2.419
18	India	1.585	1.684	2.404
19	Azerbaijan	2.094	2.012	2.388
20	Ukraine	1.235	2.284	2.349
	Others	44.662	47.957	58.444
	Total	140.707	143.953	162.993

Source: Trademap

TRADE FAIRS

- [Fairs in Turkey](#)

USEFUL LINKS

- General Secretariat of Central Anatolian Exporters Union:
www.oaib.org.tr/en



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