

# MOULDS AND DIES INDUSTRY

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# MOULDS AND DIES INDUSTRY IN TURKEY

Moulding, moulds and dies are the keystone of mass production and industrialisation. Moulding, in the modern sense, began in the early years of the 20th century and progressed, especially after the 1930's, in industrialized countries.

Turkey, as a nation in transition from an agricultural to an industrial economy, had to wait until the 1970's, the decade when production numbers increased and mass production was growing steadily, to see advances in the moulding industry. In the 70's, with the help of increasing demand from the newly developing automotive and electronics sectors, the Turkish moulding industry intensified its efforts to improve on the technological level for the domestic market and to compete at the international level.

As production patterns evolved and quantities increased, the Turkish moulding industry exerted solid efforts to catch up with the needs of the manufacturing industry –the automotive, household appliances, electric-electronics and plastic sectors in particular-. With passenger car production exceeding 500,000 units, and global car and LCV manufacturers (like FIAT and Ford) choosing Turkey as production center and planning to produce more than 100,000 units annually, Turkey's moulding technology achieved the ability to serve nearly all sectors of the Turkish manufacturing industry.

The Turkish moulding industry is currently trying to move ahead by means of a very qualified workforce, mostly comprised of young engineers who utilize CAD-CAM software, manufacture with hi-tech CNC machines, and try to estimate precisely the true dimensions of their working piece with computer aided design.

Today it is estimated that more than 2,000 companies are operating in the moulds and dies industry, and the total trade volume is about US\$ 1.5 billion. Nearly half of these companies are located in İstanbul; the remaining companies are mainly in Bursa, İzmir, Ankara, Eskişehir, Kocaeli and Samsun. Bursa, in particular, as a production center for the automotive industry, hosts many moulding business companies.

## EXPORTS

European companies -especially automotive manufacturers-, which formerly ordered their moulds to Japan, are increasingly choosing Turkey for their mould needs. The technological development of Turkish moulders, proximity and language were the main reasons for this trend. As a result, exports of the Turkish mould industry are increasing steadily year by year. Bearing in mind that better products require better moulds, the choices of Turkish consumers, who are demanding better products and following the consumer trends of Europe and the US, can also be mentioned as a factor here.

Sectoral experts mention that total exports of the moulds and dies industry is nearly US\$ 200-250 million. According to the Turkish Statistical Institute's (TURKSTAT) foreign trade data, Turkey's mould and die exports of were about US\$ 88 million in 2006. (It was not possible to include some of the sector products and exports of engineering services in the table since there is no distinction made for them in the trade classification)

# *MOULD EXPORTS OF TURKEY*

(value: 1,000 USD)

H.S. Number	Product	2004	2005	2006
8480.10	Boxes, moulding, for metal foundry	46	164	45
8480.20	Bases, moulding	623	1,020	154
8480.30.10	Wooden moulding patterns	37	113	196
8480.30.90.10.11	Aluminium moulding patterns	93	227	354
8480.30.90.10.19	Moulding patterns of casting iron, iron, steel	2,494	5,004	7,419
8480.30.90.20	Copper moulding patterns	N/A	2	11
8480.30.90.80	Plastic moulding patterns	328	399	241
8480.41	Moulds, injection or compression, for metals/carbides	616	1,417	1,291
8480.49	Moulds for metal or metal carbides, nes	34,785	37,856	27,509
8480.50	Moulds for glass	6,267	12,273	18,244
8480.60.10	Compression moulds for mineral materials	2	79	134
8480.60.90	Other moulds for mineral materials	2,888	4,004	2,677
8480.71	Injection and compression moulds, for rubber/plastic	7,053	9,361	15,839
8480.79	Other moulds for rubber/plastic	7,947	10,625	13,944
8479.89.97.90.14	Machines and equipment for mould boring/broaching/drilling/processing	29	216	42
	<b>TOTAL</b>	<b>63,209</b>	<b>82,759</b>	<b>88,102</b>

Source: Turkish Statistical Institute's (TURKSTAT)

# *MOULD EXPORTS OF TURKEY BY COUNTRIES(\*)*

(value: 1,000 USD)

Country	2004	2005	2006
Russian Fed.	3,871	8,047	20,065
Germany	3,308	4,776	6,521
Italy	25,403	19,806	6,380
France	4,396	1,933	5,078
China	20	101	4,842
Bulgaria	1,238	3,659	4,316
Romania	1,855	5,218	3,643
Spain	1,232	3,901	3,485
Iran	1,020	5,316	2,503
UK	2,040	6,463	2,234
Qatar	28	13	1,754
Egypt	1,027	2,083	1,694
Israel	674	1,287	1,613
Ukraine	763	429	1,458
Kazakhstan	787	873	1,398

Algeria	1,698	813	1,299
Netherlands	236	715	1,240
Others	13,613	17,326	18,579
TOTAL	63,209	82,759	88,102

*\* Countries importing more than US\$1 million in 2006*

*Source: TURKSTAT*

## TRADE FAIRS OF 2007

- “WIN - World of Industry” will be held in İstanbul in March 2007.
- “Plastic-Rubber 2007” will be held in Adana in April 2007.
- “BURSA MOULD 2007” will be held in Bursa in May 2007.
- “INDUSTRY '07” will be held in İstanbul in May 2007.
- “3T 2007 - International Metalworking, Mould and Automation Technologies Fair” will be held in Izmir in May 2007.
- “TIME - International Production Technologies Exhibition” will be held in İstanbul in October 2007.
- “ISTANBUL 3<sup>rd</sup> MOULD FAIR” will be held in İstanbul in November 2007.