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# World Machine Tools

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Industry Study with Forecasts for **2014 & 2019**

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Study #2739 | April 2011 | \$5900 | 296 pages

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*Best prospects will be found in the developing world, especially in China and India. North America will post respectable gains, while Japan and Western Europe lag the global average.*

## World demand to rise 9.4% annually through 2014

World demand for machine tool products -- encompassing metal cutting machine tools, metal forming machine tools and machine tool accessories -- is projected to increase a strong 9.4 percent per year through 2014 to \$121 billion. The best prospects will be found in the developing world, especially in China and India. Growth in North America will post respectable gains, but only because 2009 was such a bad year for the dominant US market. Japan and Western Europe will continue to see gains that considerably lag the global average.

## Metal cutting machines to outpace forming machines

The global market for metal cutting machine tools is projected to expand 8.6 percent per year through 2014 to \$61 billion, with growth aided by a recovery in key end-use markets in the developed world. Metal cutting tools will continue to account for a majority of the total machine tools market in 2014. World demand for metal forming machine tools is projected to increase 8.3 percent per year through 2014 to \$23 billion. The global market for machine tool accessories is forecast to increase 11.6 percent annually through 2014 to \$37 billion, easily the fastest growth expected in any of the major machine tool market segments over the span. Newer metal cutting and metal forming tools last longer and need less frequent replacement, reducing their growth potential. In

## World Machine Tool Demand (\$121 billion, 2014)



Asia/Pacific  
66%

Western Europe  
15%

North America  
10%

Other Regions 9%

photo: Datec

recent years, machine tool users have found it economical to accessorize existing tools with attachments such as cutting tools, dies, jigs and the like in an economically uncertain and competitive environment.

## Transportation market to post strongest gains

Although the industrial machinery and equipment market will continue to account for the largest share of demand in 2014, the transportation sector will post the strongest gains. Transportation sector growth will be aided by recovery in motor vehicle production levels from a depressed 2009, especially in the developed world. Demand will also be

aided by a healthy commercial aircraft production industry. Gains in the electronic equipment market will benefit from increasing per capita incomes in developing countries that will enable consumers to purchase electronic products. In developed countries, a significant number of electronic products are now almost considered to be basic necessities.

Several hundred firms manufacture machine tool products around the world, the majority falling in the small or mid-sized categories. The largest machine tool producing nations (in descending order of 2009 output value) are China, Germany, Japan, Italy, the United States, South Korea, Taiwan and Switzerland.

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## Sample Text, Table & Chart

### ASIA/PACIFIC

#### Japan: Demand by Type & Market

Machine tool demand in Japan is projected to increase 4 per year through 2014. This forecast growth is in line with the global market as a whole, but it represents a significant improvement over the period during the period.

**SAMPLE TEXT**

Metal cutting tools will continue to hold their share of the market for machine tools. Other countries' EDM and related products are especially important in Japan's cutting tool sector, with demand for those products projected \$4.3 billion in 2014 (accounting for over two-thirds of the machine tool market).

Machine tool use is significant in all key markets in Japan. The country is a world-renowned center for the manufacturing of all types of industrial machinery as well as of motor vehicles and electronics. Demand growth through 2014 will be exaggerated by the fact that 2009 was a weak year for the Japanese manufacturing sector due to recession in key export markets. Transportation equipment holds the strongest growth prospects through 2014 due to recovery in the country's massive motor vehicle industry.

Japan is home to a number of major machine tool producers that are also ranked among the world's 20 or so leaders. The most important of these are JTEKT and Amada. Other significant participants (ranked in 2009 importance) include Mori Seiki, Okuma, Makino Milling Machine, Komatsu, Mitsubishi Heavy Industries, Aida Engineering and Machine.

132

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TABLE VI-9

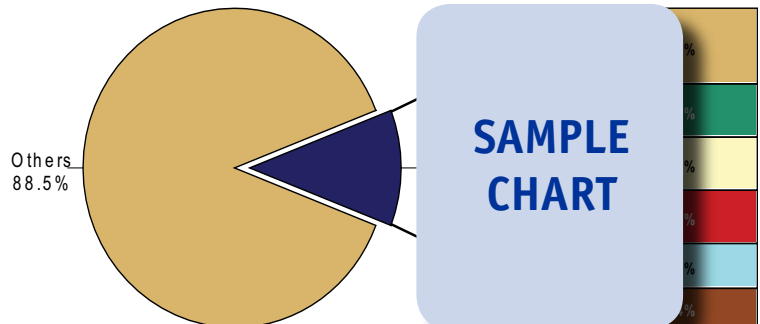
JAPAN -- MACHINE TOOL DEMAND BY TYPE & MARKET  
(million dollars)

Item	1999	2004	2009	2014	2019
Gross Domestic Product (bil 2008\$)					50
\$ machine tool/000\$ GDP					3
Machine Tool Demand					0
By Type:					
Metal Cutting					0
Metal Forming					0
Machine Tool Accessories					0
By Market:					
Industrial Machinery & Equipment					0
Transportation Equipment					0
Primary & Fabricated Metals					5
Electrical & Electronic Equipment					0
Other Markets					25

**SAMPLE TABLE**

CHART VIII-1

WORLD MACHINE TOOL SALES BY COMPANY  
(INCLUDING ACCESSORIES), 2009  
(\$77 billion)

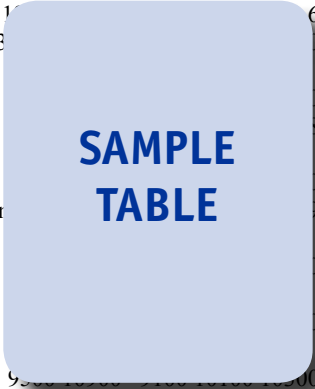


**SAMPLE CHART**

## Sample Profile, Table & Forecast

**TABLE VI-8**  
**JAPAN -- MACHINE TOOL SUPPLY & DEMAND**  
 (million dollars)

Item	1999	2004	2009	2014	2019
Population (million persons)	126	128	129	130	131
GDP/capita	30,000	35,000	38,000	40,000	42,000
Gross Domestic Product (bil 2008\$)	4,000	4,500	4,800	5,000	5,200
% fixed investment	35	33	31	30	29
Gross Fixed Investment (bil 2008\$)	1,400	1,500	1,500	1,500	1,500
\$ machine tool/000\$ fixed investment	1.5	1.5	1.5	1.5	1.5
Machine Tool Demand	950	950	950	950	950
net exports	100	100	100	100	100
Machine Tool Shipments	950	950	950	950	950



**COMPANY PROFILES**

**Shenyang Machine Tool Group Company Limited**  
 17 Kaifada Road  
 Shenyang Economic & Technological Development Area  
 Shenyang, Liaoning 110142  
 China  
 86-24-24111111  
 http://www.shenyangmt.com

Sales: \$100 million  
 Employed: 10,000

Key Products: CNC lathes, turning centers, turning and milling centers, boring machines, machining centers, and other equipment, and machine tool castings.

Shenyang Machine Tool Group is a producer of computer numerical control (CNC) and conventional machine tools, and related components. The Company is majority owned by the municipal government of Shenyang, Liaoning, China.

The Company's CNC and conventional machine tools include drilling machines, lathes, turning centers, turning and milling centers, milling and boring machines, machining centers, and other equipment. Shenyang Machine Tool Group also makes machine tool castings. The Company's products are used in the automotive, wind power, aerospace, mining, shipbuilding and nuclear power industries.

Drilling machines are made by Shenyang Machine Tool Group in CNC and conventional types. CNC drilling machines include ZK series standard, GDC and GDCD gantry-type, and SUC series deephole models, while conventional drilling machines include radial types sold

**SAMPLE PROFILE**

“Through 2014, the transportation and industrial machinery markets will post the fastest growth, but both sectors will be rising from a weak 2009 base. The transportation sector was especially hurt in 2009 due to a devastating year for the motor vehicle industries of many developed countries, especially the US and Japan. A generally favorable outlook for commercial air transport manufacture will also benefit the transportation market.”  
 --Section III, pg. 29

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**OTHER STUDIES**

**World Construction Machinery**

This study analyzes the world construction machinery industry. It presents historical demand data for the years 2000, 2005 and 2010, and forecasts for 2015 and 2020 by product (e.g., cranes and draglines, loaders, off-highway trucks and tractors, excavators, mixers and pavers, graders and rollers), world region and major country. The study also considers market environment factors, details industry structure, evaluates company market share and profiles industry players.

#2776 ..... July 2011 ..... \$6100

**Machine Tools in China**

This study analyzes the machine tool industry in China. It presents historical demand data for the years 1999, 2004 and 2009, and forecasts for 2014 and 2019 by product (e.g., lathes and milling, machining centers, grinding and polishing machines, lasers, forging, bending and shearing, nonmetal), market (e.g., industrial machinery, transportation equipment, primary and fabricated metal, electrical and electronic) and geographic region. The study also considers market environment factors, details industry structure, evaluates company market share and profiles industry participants.

#2757 ..... June 2011 ..... \$5400

**World Packaging Machinery**

Global packaging machinery demand will rise 4.7 percent yearly through 2014, driven mainly by gains in developing nations. In developed areas, demand will rebound after a period of decline. Beverages will be the fastest growing market, while labeling and coding, and filling and form/fill/seal machines will be the fastest growing products. This study analyzes the \$28.6 billion world packaging machinery industry, with forecasts for 2014 and 2019 by product, market, world region and for 26 countries. It also evaluates company market share and profiles industry players.

#2727 ..... February 2011 ..... \$6100

**Abrasives**

Demand for abrasives in the US will rise four percent annually through 2014. Durable goods manufacturing will remain the dominant market, with the motor vehicle segment growing the fastest. Nonmetallic coated and bonded abrasives and loose grains and powders will outperform metallic abrasives. This study analyzes the \$4.7 billion US abrasives industry, with forecasts for 2014 and 2019 by raw material, product and market. It also evaluates company market share and profiles industry players.

#2696 ..... October 2010 ..... \$4800

**World Material Handling Products**

Global demand for material handling products will rise 6.5 percent annually through 2014. The US will be among the fastest growing markets, along with India and China. Conventional products will benefit from recovery in developed areas while advanced/automated types will post the best gains. This study analyzes the \$82 billion global material handling product industry, with forecasts for 2014 and 2019 by type, market, world region and for 37 countries. It also evaluates company market share and profiles industry participants.

#2687 ..... October 2010 ..... \$6100

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