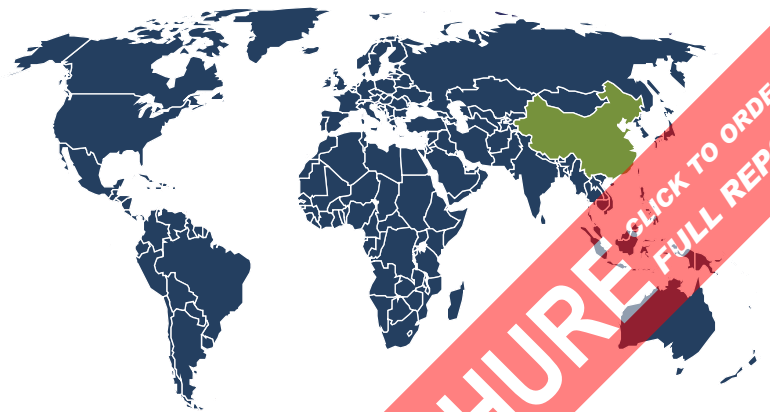


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Machine Tools: China

November 2019



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About This Report

Scope

This report forecasts to 2023 machine tool (机床) demand in nominal US dollars at the manufacturer level in China. Total demand is segmented by product in terms of:

- metal cutting
- metal forming
- machine tool accessories and spare parts

Total demand is also segmented by market as follows:

- machinery
- transportation equipment
- electrical and electronic equipment
- primary and fabricated metals
- other markets such as construction, mining, and power generation

To illustrate historical trends, total demand is provided in annual series from 2008 to 2018; the various segments are reported at five-year intervals for 2008, 2013, and 2018.

Excluded from the scope of this report are tools designed primarily for home use or nonmetal applications, as well as industrial patterns, welding apparatus, and other types of metalworking machinery (e.g., foundry equipment); used machine tools of all types; and related services such as equipment rebuilding, retrofitting, and systems integration.

For any given historical year, US dollar amounts are obtained from values expressed in the applicable local currency. These local currency values are converted to US dollars at the average annual exchange rate for that year. For forecast years, the US dollar amounts assume the same annual exchange rate as that prevailing in 2018.

Key macroeconomic indicators are also provided with quantified trends. Other various topics, including profiles of pertinent leading suppliers, are covered in this report. A full outline of report items by page is available in the Table of Contents.

Sources

Machine Tools: China (FC75018) is based on [Global Machine Tools](#), a comprehensive industry study published by The Freedonia Group. Reported findings represent the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources, such as:

- firms participating in the industry, and their suppliers and customers

About This Report

- government/public agencies
- intergovernmental and non-governmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group

Specific sources and additional resources are listed in the Resources section of this publication for reference and to facilitate further research.

Industry Codes

Table 5 | HS Codes Related to Machine Tools

HS Code	Definition
8456	Machine-tools for non-mechanical removal of material
8457	Machining centers, single/multistation transfer machine
8458	Lathes, including turning centers, for removing metal
8459	Machine tools, except lathes, to drill, bore/mill/thread
8460	Machine tools for deburring, sharpening, grinding, honing, lapping, polishing or otherwise finishing metal
8462.10	Forging or die-stamping machines (including presses) and hammers
8462.21	Numerically controlled machine tools to bend, fold, etc, metal
8462.29	Machine tools to bend, fold, shear, or press metal, nes
8462.31	Numerically controlled shearing (non-punching) machine tools
8462.39	Shearing (except punch-shear) machine tools, nes
8462.41	Numerically controlled punch, notch, punch-shear machines
8462.49	Punching, notching, punch-shear machine tools, nes
8462.91	Hydraulic presses for working metal
8463	Machine-tools (metal, carbides, etc), no metal removal
8466.10	Tool holders, self-opening dieheads, for machine tools
8466.20	Work holders for use with machine tools
8466.30	Dividing heads/attachments nes for machine tools
8466.93	Parts, accessories nes, metal cutting machine tools
8466.94	Parts, accessories nes, metal shaping machine tools

Source: United Nations Statistics Division

Freedonia Methodology

The Freedonia Group, a subsidiary of MarketResearch.com, has been in business for more than 30 years and in that time has developed a comprehensive approach to data analysis that takes into account the variety of industries covered and the evolving needs of our customers.

Every industry presents different challenges in market sizing and forecasting, and this requires flexibility in methodology and approach. Freedonia methodology integrates a variety of quantitative and qualitative techniques to present the best overall picture of a market's current position as well as its future outlook: When published data are available, we make sure they are correct and representative of reality. We understand that published data often have flaws either in scope or quality, and adjustments are made accordingly. Where no data are available, we use various methodologies to develop market sizing (both top-down and bottom-up) and then triangulate those results to come up with the most accurate data series possible. Regardless of approach, we also talk to industry participants to verify both historical perspective and future growth opportunities.

Methods used in the preparation of Freedonia market research include, but are not limited to, the following activities: comprehensive data mining and evaluation, primary research, consensus forecasting and analysis, ratio analysis using key indicators, regression analysis, end use growth indices and intensity factors, purchase power parity adjustments for global data, consumer and end user surveys, market share and corporate sales analysis, product lifespan analysis, product or market life cycle analysis, graphical data modeling, long-term historical trend analysis, bottom-up and top-down demand modeling, and comparative market size ranking.

Freedonia quantifies trends in various measures of growth and volatility. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or r^2 . The most stable data series relative to the trend carries an r^2 value of 1.0; the most volatile – 0.0. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

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Global Mining Equipment

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China Iron and Steel Association

China Machinery Industry Federation

China Machine Tool & Tool Builders' Association

General Administration of Quality Supervision, Inspection and Quarantine

International Organization for Standardization

Standardization Administration of China

United Nations Statistics Division

World Bank