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US Collection

Machine Tools: United States

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About This Report

Scope

This report forecasts to 2022 US machine tool demand and shipments in nominal US dollars at the manufacturer level. Total demand and shipments are segmented by product in terms of:

- metal cutting
- metal forming
- accessories
- parts, rebuilt, and remanufactured machines

To illustrate historical trends, total demand, total shipments, the various segments, and trade are provided in annual series from 2007 to 2017.

Excluded from the scope of this report are tools designed primarily for nonmetal applications, as well as industrial patterns, welding apparatus, and other types of metalworking machinery (e.g., foundry equipment). Also excluded are additive manufacturing machines and metal casting equipment. Re-exports of machine tools are excluded from demand and trade figures.

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: United States (FF75018) represents the synthesis and analysis of data from various secondary, macroeconomic, and demographic sources, such as:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- 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 8 | NAICS & SIC Codes Related to Machine Tools

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industrial Classification	
333512	Machine Tool (Metal Cutting Types) Mfg	3541	Machine Tools, Metal Cutting Types
333513	Machine Tool (Metal Forming Types) Mfg	3542	Machine Tools, Metal Forming Types
333514	Special Die and Tool, Die Set, Jig, and Fixture Mfg	3544	Special Dies and Tools, Die Sets, Jigs and Fixtures, and Industrial Molds
333515	Cutting Tool and Machine Tool Accessory Mfg	3545	Cutting Tools, Machine Tool Accessories, and Machinists' Precision Measuring Devices

Source: US Census Bureau

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

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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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Resources

The Freedonia Group

Freedonia Industry Studies

Global Bearings

Global 3D Printing Markets

Lubricants in the US

World Machine Tools

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Aluminum: United States

Bearings: United States

Control Technologies: United States

Fabricated Metal Products: United States

Industrial Castings: United States

Lubricants: United States

Manufacturing: United States

Metal Stampings: United States

Repair Services: United States

Steel Mill Products: United States

Freedonia Custom Research

Trade Publications

American Machinist

Cutting Tool Engineering

Fabricating & Metalworking

Machine Design

Metal Center News

Modern Machine Shop

thefabricator.com

Agencies & Associations

American National Standards Institute

ASTM International

Fabricators & Manufacturers Association, International

International Organization for Standardization

Machinery Dealers National Association

National Fire Protection Association

Occupational Safety & Health Administration

Precision Metalforming Association

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Robotics Industries Association
United States Census Bureau
United States International Trade Commission