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# Fabricated Metal Products: United States

August 2018



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# About This Report

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## Scope & Method

This report forecasts to 2022 US fabricated metal products demand and shipments in nominal US dollars at the manufacturer level. Total demand is segmented by product in terms of:

- structural metals
- forging and stamping
- machine shops
- coating and treating
- metal containers
- fasteners and hardware
- cutlery and handtools
- springs and wires
- other products such as ammunition, bearings, and industrial valves

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

Products classified as primary metals (such as iron and steel mill, refined nonferrous metal, and metal foundry products) are excluded from the scope of this report. Re-exports of fabricated metal products are excluded from demand and trade figures.

This report 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.

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

*Fabricated Metal Products: United States (FF70027)* represents the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources including:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- national, regional, and international 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 9 | NAICS & SIC Codes Related to Fabricated Metal Products

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industrial Classification	
3321	Forging and Stamping	341	Metal Cans and Shipping Containers
3322	Cutlery and Handtool Mfg	342	Cutlery, Handtools, and General Hardware
3323	Architectural and Structural Metals Mfg	343	Heating Equipment, Except Electric and Warm Air Furnaces
3324	Boiler, Tank, and Shipping Container Mfg	344	Fabricated Structural Metal Products
3325	Hardware Manufacturing	345	Screw Machine Products, and Bolts, Nuts, Screws, Rivets, and Washers
3326	Spring and Wire Product Mfg	346	Metal Forgings and Stampings
3327	Machine Shops; Turned Product; and Screw, Nut, and Bolt Mfg	347	Coating, Engraving, and Allied Services
3328	Coating, Engraving, Heat Treating, and Allied Activities	348	Ordnance and Accessories, Except Vehicles and Guided Missiles
3329	Other Fabricated Metal Product Mfg	349	Miscellaneous Fabricated Metal Products
336370	Motor Vehicle Metal Stamping		

Source: US Census Bureau

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## Resources

### The Freedonia Group

#### Freedonia Industry Studies

*Windows & Doors in the US*, September 2017

*Global Construction Machinery Market*, August 2017

*Metal Roofing in the US*, August 2017

#### Freedonia Focus Reports

*Food Containers: United States*

*Hardware: United States*

*Industrial Castings: United States*

*Manufacturing: United States*

*Metal Roofing: United States*

*Metal Services: United States*

*Metal Stampings: United States*

*Motor Vehicles: United States*

*Recovered Metals: United States*

*Refractories: United States*

*Sheet Metal: United States*

*Steel Mill Products: United States*

#### Freedonia Custom Research

### Trade Publications

*American Metal Market*

*Fabricating & Metalworking*

*The Fabricator*

*Forging*

*IndustryWeek*

*Modern Metals*

### Agencies & Associations

American Iron and Steel Institute

Fabricators & Manufacturers Association, International

Metal Construction Association

Precision Metalforming Association

United States Department of Commerce

Bureau of Economic Analysis

United States Census Bureau

United States International Trade Commission