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Industrial Castings: United States

June 2020



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About This Report

Scope

This report forecasts for 2020 and 2024 US industrial casting shipments and demand in nominal US dollars at the manufacturer level. Total shipments are segmented by product in terms of:

- ductile iron
- other iron
- steel investment
- other steel
- aluminum steel
- other die
- non-die aluminum
- non-die copper
- other nonferrous such as cobalt, magnesium, and nickel

To illustrate historical trends, total demand, shipments, trade, and the various shipment segments are provided in annual series from 2009 to 2019.

Castings produced by the same establishment that further transforms the castings into finished products are not included in this report's stated shipments or demand figures. Further excluded are castings produced with plastic, plaster, or other nonmetal materials and castings used for applications such as molds, scale models, and toys. Die cast metals exclusively encompass nonferrous metals. Re-exports of industrial castings are excluded from demand and trade figures.

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

Sources

Industrial Castings: United States (FF65026) 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
- intergovernmental and non-governmental organizations
- trade associations and their publications
- the business and trade press

About This Report

- 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 Industrial Castings

NAICS/SCIAN 2017 North American Industry Classification System		SIC Standard Industrial Classification	
331511	Iron Foundries	3321	Gray and Ductile Iron Foundries
331512	Steel Investment Foundries	3322	Malleable Iron Foundries
331513	Steel Foundries (except Investment)	3324	Steel Investment Foundries
331523	Nonferrous Metal Die-Casting Foundries	3325	Steel Foundries, NEC
331524	Aluminum Foundries (except Die-Casting)	3363	Aluminum Die-Castings
331529	Other Nonferrous Metal Foundries (except Die-Casting)	3364	Nonferrous Die-Castings, Except Aluminum
		3365	Aluminum Foundries
		3366	Copper Foundries
		3369	Nonferrous Foundries, Except Aluminum and Copper

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.

About This Report

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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Motor Vehicles: United States

Refractories: United States

Titanium: United States

Zinc: United States

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Automotive News

Foundry Management & Technology

Metal Bulletin

MetalMiner

Modern Casting

Agencies & Associations

The Aluminum Association

American Foundry Society

American Iron and Steel Institute

Copper Development Association

North American Die Casting Association

United States Bureau of Labor Statistics

United States Department of Transportation

United States Environmental Protection Agency

United States Geological Survey

United States International Trade Commission