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Steel Mill Products: United States

January 2018



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About This Report

Scope & Method

This report forecasts to 2021 US steel mill products demand and shipments in metric tons and nominal US dollars at the manufacturer level. Total demand in metric tons is segmented by product in terms of:

- hot-rolled sheet
- bars
- hot-dip galvanized sheet and strip
- plates
- cold-rolled sheet
- pipe and tubing
- heavy structural shapes
- other products such as rails, tin mill products, and wire rods

Total demand in metric tons is also segmented by market as follows:

- metal service centers and distributors
- construction
- motor vehicles
- other markets such as appliances, containers, and energy

To illustrate historical trends, total demand, total shipments, and trade in metric tons and nominal dollars, and the various demand segments in metric tons are provided in annual series from 2006 to 2016.

This report encompasses demand and shipments of steel mill products, as opposed to crude steel. To avoid double counting among the various segments, reported volumes of hot-rolled sheet exclude those quantities further processed via cold-rolling and/or hot-dip galvanizing. Likewise, volumes of cold-rolled sheet do not include galvanized types or tin mill products (as they are included in other segments). Finally, reported volumes of sheet and plate exclude those quantities used to fabricate pipe and tubing. Re-exports of steel mill 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)

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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

Steel Mill Products: United States (FF65013) 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 10 | Industry Codes Related to Steel Mill Products

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industry Classification	
331111	Iron and Steel Mills	3312	Steel Works, Blast Furnaces (Including Coke Ovens), and Rolling Mills
331112	Electrometallurgical Ferroalloy Product Manufacturing	3313	Electrometallurgical Products, Except Steel
331210	Iron and Steel Pipe and Tube Manufacturing from Purchased Steel	3315	Steel Wiredrawing and Steel Nails and Spikes
331221	Rolled Steel Shape Manufacturing	3316	Cold-Rolled Steel Sheet, Strip, and Bars
331222	Steel Wire Drawing	3317	Steel Pipe and Tubes

Source: US Census Bureau

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Resources

The Freedonia Group

Freedonia Industry Studies

World Roofing, May 2016

Midstream Oil & Gas Equipment, February 2016

World Steel Pipe, February 2016

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Aluminum: United States

Construction: United States

Fabricated Metal Products: United States

Manufacturing: United States

Metal Services: United States

Metal Stampings: United States

Motor Vehicles: United States

Recovered Metals: United States

Sheet Metal: United States

Freedonia Custom Research

Trade Publications

American Metal Market

Automotive News

Metal Bulletin

Metal Center News

Steel Times International

Agencies & Associations

American Institute for International Steel

American Iron and Steel Institute

Association for Iron & Steel Technology

Green Building Council

National Highway Traffic Safety Administration

North American Steel Alliance

Steel Manufacturers Association

United States Department of Commerce

International Trade Administration

United States Census Bureau

United States Geological Survey

United States International Trade Commission

World Steel Association