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# Industrial Fasteners: Europe

January 2020



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# About This Report

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## Scope

This report forecasts to 2023 industrial fastener demand and production in nominal US dollars at the manufacturer level in Europe. Total demand is segmented by product in terms of:

- externally threaded standard-grade
- internally threaded standard-grade
- nonthreaded standard-grade
- application-specific standard-grade
- aerospace-grade

Total demand is also segmented by market as follows:

- motor vehicle original equipment manufacturing (OEM)
- machinery OEM
- other OEM markets such as fabricated metal products, and electronic, electrical, and aerospace equipment
- maintenance and repair operations
- construction

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

This report analyzes the supply of and demand for industrial mechanical fasteners. Excluded from the scope of this report are:

- nails, brads, spikes, tacks, and related items
- adhesives and other joining/bonding products
- nonindustrial type products like buttons, paper clips, and zippers

For the purposes of this report, the term “aerospace-grade” refers to a category of high-performance industrial fasteners manufactured to the specifications of aerospace/defense companies and agencies. End-use applications for these fasteners, however, are not confined to the aircraft/aerospace industries; they can also include construction, high-performance automobiles, industrial machinery, and various other settings where the capabilities of such fasteners are warranted.

## About This Report

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.

For the purposes of this report, Europe encompasses the following countries:

**Table 6 | Countries in Western Europe**

Andorra	Germany*	Italy*	Portugal
Austria	Gibraltar	Jersey	Saint Pierre and Miquelon
Belgium	Greece	Liechtenstein	San Marino
Channel Islands	Greenland	Luxembourg	Spain*
Denmark	Guernsey	Malta	Sweden
Faeroe Islands	Iceland	Monaco	Switzerland
Finland	Ireland	Netherlands	United Kingdom*
France*	Isle of Man	Norway	Vatican City

\*Major industrial fastener markets

Source: The Freedonia Group

**Table 7 | Countries in Eastern Europe**

Albania	Hungary	Romania
Belarus	Latvia	Russia*
Bosnia and Herzegovina	Lithuania	Serbia
Bulgaria	Macedonia	Slovakia
Croatia	Moldova	Slovenia
Czech Republic	Montenegro	Ukraine
Estonia	Poland*	

\*Major industrial fastener markets

Source: The Freedonia Group

## Sources

*Industrial Fasteners: Europe* (FE70011) is based on *Global Industrial Fasteners*, 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
- government/public agencies
- intergovernmental and non-governmental organizations

## About This Report

- 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 | Relevant HS Codes**

HS Code	Definition
7318.11	Coach screws, threaded, of iron or steel
7318.12	Wood screws other than coach screws, threaded, of iron or steel
7318.13	Screw hook and screw rings, threaded, of iron or steel
7318.14	Self-tapping screws, threaded, of iron or steel
7318.15	Threaded screws and bolts nesoi, with or without their nuts or washers, of iron or steel
7318.16	Nuts, threaded, of iron or steel
7318.19	Threaded articles of iron or steel nesoi
7318.21	Spring washers and other lock washers, of iron or steel
7318.22	Washers, other than lock washers, of iron or steel
7318.23	Rivets of iron or steel
7318.24	Cotters and cotter pins, of iron or steel
7318.29	Nonthreaded articles (fasteners) nesoi, of iron or steel
7415.21	Washers, including spring washers, of copper
7415.29	Rivets, cotters, cotter pins and similar articles of copper (not threaded), nesoi
7415.33	Threaded screws, bolts, and nuts of copper or iron or steel with heads of copper
7415.39	Threaded fasteners nesoi, of copper
7616.10	Nails, tacks, staples (other than in strips), screws, bolts, nuts, screw hooks, rivets and similar articles, of aluminum
8308.20	Tubular or bifurcated rivets, of base metal

Source: United Nations Statistics Division

**Table 9 | Relevant NACE Codes**

NACE Code	Definition
25.94	Manufacture of fastener and screw machine products

Source: European Commission

# 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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## Resources

### The Freedonia Group

*Global Industrial Fasteners*

### Freedonia Industry Studies

*Behind the Wall Plumbing*

*Global Adhesives & Sealants*

*Global Agricultural Equipment*

*Global Bearings*

*Global Buses*

*Global Commercial Refrigeration Equipment*

*Global Construction Machinery*

*Global Diesel Engines*

*Global HVAC Equipment*

*Global Industrial Rubber Products*

*Global Industrial Valves*

*Global Machine Tools*

*Global Mining Equipment*

*Global Pumps Market*

*Global Rubber Conveyor Belts*

*Global Thermoplastic Elastomers*

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*Adhesives & Sealants: United Kingdom*

*Bearings: Canada*

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*Disposable Medical Supplies: United Kingdom*

*Electronic Components: United States*

*Filters: United Kingdom*

*Global Light Vehicles*

*Global Medium- & Heavy-Duty Trucks & Buses*

*Power Tools: United Kingdom*

*Thermoplastic Resins: United States*

### Freedonia Custom Research

### Trade Publications

*Aerospace & Design Technology*

*Assembly*



*Design News*

*Fastener Technology International*

### **Agencies & Associations**

ASTM International

European Fastener Distributor Association

Eurostat

Federal Statistical Office (Germany)

International Organization for Standardization

National Institute of Statistics and Economic Studies (France)

Office for National Statistics (United Kingdom)

SAE International

United Nations Comtrade