

NEW Industry forecasts for 2012 & 2017

World Industrial Fasteners

Study # 2374

September 2008

\$5700

Global demand to grow 4.8% yearly through 2012

Global demand for industrial fasteners is projected to increase 4.8 percent annually to \$66 billion in 2012. Fastener demand, which reached \$52 billion in 2007, grew nearly 9 percent annually since 2002. Although part of this growth is inflationary in nature, especially since 2005, real gains in demand have been fueled by increases in world economic growth, increased fixed investment activity and greater manufacturing production. Although future market gains will be somewhat constrained by the use of new materials and manufacturing methods that reduce the numbers of fasteners required, global gains in motor vehicle production and greater demand for aerospace grade fasteners required for aircraft will contribute to growth.

Asia/Pacific, Western Europe are net exporters

Although many countries engage in the production of fasteners, few are net exporters. For example, the US is a major global supplier of high end fastener products, but is a net importer of fasteners overall. Countries in the Asia/Pacific region are the largest net exporters of fasteners to the rest of the world, followed by Western Europe. Taiwan, Japan and China lead the Asia/Pacific region and the world in net fastener exports. Germany (whose net export position matched China's in 2007), Italy and Switzerland contribute the most to Western Europe's position as a net exporter. China will soon overtake Japan as the world's second-largest net exporting country, after Taiwan.



Emerging economies to outpace developed world

Growing manufacturing economies and increases in fixed investment among the world's emerging economies will bring more rapid growth in fastener demand in these regions relative to the world's more mature, industrialized nations. Consequently, fastener demand growth in the Asia/Pacific, Africa/Mideast, Eastern Europe and Latin America will outpace demand growth in the US, Japan and Western Europe. China is expected to show the greatest gains in fastener demand of any other country, and is expected to become the world's second-largest market for fasteners, after the US, before 2012. Market growth will also be strong in India, Thailand, Taiwan and Russia. Sales growth will be stimulated by favorable economic conditions and

higher income levels leading to a rise in manufacturing activity and consumer expenditures for durable goods. Although countries with emerging economies will be the fastest growing markets for fasteners, the more developed economies -- such as the US, Canada, Japan and most of Western Europe -- will remain the most intensive users of fastening products, reflecting the advanced industrial and technological nature of their economies.

Motor vehicles still most important end-use sector

Consumption of industrial fasteners by the world's original equipment manufacturers (OEMs) represented 84 percent of total global fastener demand, with maintenance, repair and overhaul (MRO) applications accounting for the balance. Among OEMs, motor vehicle manufacturers consume the most fasteners, accounting for 35 percent of global demand in 2007. Electrical & electronic equipment and industrial machinery are also important OEM markets. Additionally, demand for aerospace-grade fasteners is expected to grow at a healthy pace, approaching \$5 billion in 2012.

Study coverage

This new Freedonia industry study, *World Industrial Fasteners*, is priced at \$5700. It presents historical demand data (1997, 2002 and 2007) and forecasts for 2012 and 2017 by market sector, fastener type, world region and for 29 countries. The study also assesses key market drivers and technologies, evaluates market shares and profiles 41 global competitors.

Copyright 2008 The Freedonia Group, Inc.

Visit our NEW and IMPROVED website at www.freedoniagroup.com

CONTENTS/TABLES/CHARTS

historical data (1997, 2002, 2007)
plus forecasts for 2012 and 2017

NEW INDUSTRY STUDY WITH FORECASTS FOR 2012 & 2017

World Industrial Fasteners

Introduction

EXECUTIVE SUMMARY

- 1 Summary Table

MARKET ENVIRONMENT

General

World Economic Overview

- Recent Economic Performance
- World Economic Outlook

World Gross Fixed Investment Outlook

World Manufacturing Outlook

World Motor Vehicle Production Trends

World Aerospace Equipment Production Trends

Pricing Patterns

Technology

- Industrial Fastener Technology
 - New Fastening Technologies
 - Plastic Fasteners
- Competitive Joining Technologies

Legal & Regulatory Environment

LIST OF TABLES & CHARTS:

- 1 World Gross Domestic Product by Region
- 2 World Gross Fixed Investment by Region
- 3 World Manufacturing Value Added by Region
- Cht World Manufacturing Value Added by Region, 2007
- Cht Relationship Between Per Capita Industrial Fastener Demand & Per Capita Manufacturing Value Added, 2007
- 4 World Motor Vehicle Production by Region
- 5 World Aerospace Equipment Production by Region
- 6 World Industrial Fastener Pricing
- Cht World Industrial Fastener Pricing, 1997-2017
- 7 World Plastic Fastener Demand
- Cht World Plastic Fastener Demand, 1997-2017
- 8 World Adhesives Demand by Region

WORLD SUPPLY & DEMAND

General

Regional Demand Overview

- Demand
- Production
- International Trade

Demand by Product

- Standard
 - Externally Threaded
 - Internally Threaded
 - Nonthreaded

- Application-Specific
- Aerospace-Grade

Demand by Market

- Original Equipment Manufacturing
 - Motor Vehicles
 - Electrical & Electronic Equipment
 - Industrial Machinery
 - Fabricated Metal Products
 - Other OEM
 - Aerospace
 - All Other
- MRO & Other

World Industrial Fastener Production

International Trade Flows

LIST OF TABLES & CHARTS:

- 1 World Industrial Fastener Demand by Region
- Cht World Industrial Fastener Demand by Region, 2007
- Cht Additional Industrial Fastener Demand - 2012 vs. 2007
- Cht World Industrial Fastener Demand - Projected 2007-2012 Annual Rate of Growth
- 2 World Industrial Fastener Shipments by Region

- Cht World Industrial Fastener Shipments by Region, 2007
- 3 Industrial Fastener Net Exports by Region
- 4 World Standard Industrial Fastener Demand by Product
- Cht World Industrial Fastener Demand by Product, 2007
- 5 World Standard Externally Threaded Fastener Demand by Region
- 6 World Standard Internally Threaded Fastener Demand by Region
- 7 World Standard Nonthreaded Fastener Demand by Region
- 8 World Standard Application-Specific Fastener Demand by Region
- 9 World Aerospace-Grade Fastener Demand by Region
- 10 World Industrial Fastener Demand by Market
- Cht World Industrial Fastener Demand by Market, 2007
- 11 World Motor Vehicle Fastener Demand by Region
- 12 World Electrical & Electronic Equipment Fastener Demand by Region
- 13 World Industrial Machinery Fastener Demand by Region
- 14 World Fabricated Metal Product Fastener Demand by Region
- 15 World Other OEM Fastener Demand by Type & Region
- 16 World MRO & Other Industrial Fastener Demand by Region
- 13-14 Belgium
- 15-16 Netherlands
- 17 Other Western Europe - Industrial Fastener Supply & Demand
- 18 Other Western Europe - Industrial Fastener Demand by Product & Market
- 19 Other Western Europe - Industrial Fastener Supply & Demand by Country

ASIA/PACIFIC

General

- Japan
- China
- South Korea
- India
- Taiwan
- Thailand
- Australia
- Other Asia/Pacific
 - Malaysia
 - Indonesia
 - All Other

LIST OF TABLES & CHARTS:

- 1 Asia/Pacific - Industrial Fastener Supply & Demand
- 2 Asia/Pacific - Industrial Fastener Demand by Product & Market
- Cht Asia/Pacific Industrial Fastener Demand by Country, 2007
- 3-4 Japan
- 5-6 China
- 7-8 South Korea
- 9-10 India
- 11-12 Taiwan
- 13-14 Thailand
- 15-16 Australia
- 17 Other Asia/Pacific - Industrial Fastener Supply & Demand
- 18 Other Asia/Pacific - Industrial Fastener Demand by Product & Market
- 19 Other Asia/Pacific - Industrial Fastener Supply & Demand by Country

OTHER REGIONS

Latin America

- Brazil
- Other Latin America

Eastern Europe

- Russia
- Other Eastern Europe
 - Poland
 - Czech Republic
 - All Other

Africa/Mideast

- Turkey
- South Africa
- Other Africa/Mideast

LIST OF TABLES & CHARTS:

- 1 Latin America - Industrial Fastener Supply & Demand
- 2 Latin America - Industrial Fastener Demand by Product & Market
- 3 Brazil - Industrial Fastener Supply & Demand
- 4 Brazil - Industrial Fastener Demand by Product & Market
- 5 Other Latin America - Industrial Fastener Supply & Demand
- 6 Other Latin America - Industrial Fastener Demand by Product & Market
- 7 Eastern Europe - Industrial Fastener Supply & Demand
- 8 Eastern Europe - Industrial Fastener Demand by Product & Market

NORTH AMERICA

General

United States

Canada

Mexico

LIST OF TABLES & CHARTS:

- 1 North America - Industrial Fastener Supply & Demand
- 2 North America - Industrial Fastener Demand by Product & Market
- Cht North America Industrial Fastener Demand by Country, 2007
- 3-4 United States
- 5-6 Canada
- 7-8 Mexico

WESTERN EUROPE

General

Germany

France

United Kingdom

Italy

Spain

Belgium

Netherlands

Other Western Europe

- Austria
- Sweden
- Switzerland
- All Other

LIST OF TABLES & CHARTS:

- 1 Western Europe - Industrial Fastener Supply & Demand
- 2 Western Europe - Industrial Fastener Demand by Product & Market
- Cht Western Europe Industrial Fastener Demand by Country, 2007
- 3-4 Germany
- 5-6 France
- 7-8 United Kingdom
- 9-10 Italy
- 11-12 Spain

- Cht Eastern Europe Industrial Fastener Demand by Country, 2007
- 9 Russia - Industrial Fastener Supply & Demand
- 10 Russia - Industrial Fastener Demand by Product & Market
- 11 Other Eastern Europe - Industrial Fastener Supply & Demand
- 12 Other Eastern Europe - Industrial Fastener Demand by Product & Market
- 13 Other Eastern Europe - Industrial Fastener Supply & Demand by Country
- 14 Africa/Mideast - Industrial Fastener Supply & Demand
- 15 Africa/Mideast - Industrial Fastener Demand by Product & Market
- Cht Africa/Mideast Industrial Fastener Demand by Country, 2007
- 16 Turkey - Industrial Fastener Supply & Demand
- 17 Turkey - Industrial Fastener Demand by Product & Market
- 18 South Africa - Industrial Fastener Supply & Demand
- 19 South Africa - Industrial Fastener Demand by Product & Market
- 20 Other Africa/Mideast - Industrial Fastener Supply & Demand
- 21 Other Africa/Mideast - Industrial Fastener Demand by Product & Market

INDUSTRY STRUCTURE

- General
- Industry Composition
- Market Share
- Product Development & Manufacturing
- Marketing & Distribution
- Cooperative Agreements
- Financial Requirements
- Mergers & Acquisitions

LIST OF TABLES & CHARTS:

- 1 Industrial Fastener Sales for Selected Manufacturers, 2007
- Cht World Industrial Fastener Market Share by Company, 2007
- 2 Selected Cooperative Agreements
- 3 Selected Acquisitions & Divestitures

Company Profiles

COMPANY PROFILES
 Profiles for 41 competitors in the global fasteners industry including Acument, Alcoa, Emhart, ITW, LISI and NIFCO

ASIA/PACIFIC

has climbed rapidly, and these enterprises are responsible for a growing share of the country's fastener industry revenues. In addition, many overseas fastener companies have established a local market presence, benefitting from Chinese government efforts to improve the industry's technical capabilities and attract foreign direct investment. Among the larger locally headquartered industrial fastener producers are Changshu Standard Parts, Gem-Year Industrial, Ningbo Eastport Fastener, Ningbo Ningli High-Strength Fastener, Shanghai Shangbiao Group and Shanghai Prime Machinery. Foreign multinationals with fastener plants in the country include Acument, Agrati, Alcoa, Boellhoff, Bossard, Chun Yu Group, Finnveden, Hilti, Illinois Tool Works, LISI, NIFCO, Park-Ohio, SPS Technologies, Sundram Fasteners, Tong Hwei and TRW Automotive.

TABLE VI-6
CHINA -- INDUSTRIAL FASTENER DEMAND BY PRODUCT & MARKET
 (million dollars)

Item	1997	2002	2007	2012	2017
Industrial Fastener Demand					
By Product:					
Standard					
Externally Threaded					
Internally Threaded					
Nonthreaded					
Application-Specific					
Aerospace-Grade					
By Market:					
Original Equipment Manufacturing					
Motor Vehicles					
Electrical & Electronic Equipment					
Industrial Machinery					
Fabricated Metal Products					
Other OEM					
Aerospace					
All Other					
MRO & Other					

© Copyright by The Freedonia Group, Inc.

SAMPLE TABLE
 Historical data for 1997, 2002 and 2007 as well as Freedonia forecasts for 2012 and 2017; data illustrated with the aid of over 70 tables and charts

ASIA/PACIFIC

relative to... and 2007

In... rise at a... forecast rate for the Asia/Pacific region as a whole. Japanese manufacturers will benefit from an acceleration in fastener demand locally and ongoing strength in a number of export markets, resulting in additional expansion of the nation's trade surplus in these products. Stronger domestic market growth will also help stimulate industry output gains, although an anticipated decline in motor vehicle output and competition from fastener suppliers located in lower-cost parts of the world (supported in part by Japanese investment) will restrain the pace of increase through 2012.

Demand for industrial fasteners is expected to grow... annually through 2012 to \$... the region. Growth will be... resulting in renewed strength... example, three Japanese companies... announced in June 2008... to generate electricity on a waste area of the waterfront of the city of Sakai in Osaka province. The two photovoltaic parks, when brought online by 2010, will add 28 megawatts of electricity to the local grid. Fixed investment projects like this will boost Japanese fastener growth, partially compensating for declining motor vehicle output.

Most Japanese industrial fastener manufacturers are small or mid-sized companies. There are hundreds of small fastener producers in Japan. Among the leading locally based producers are NIFCO, Nitto Seiko, Piolax, Sugiura Seisakusho and Topura. A number of foreign firms also have manufacturing operations in the nation, including Emhart Technologies (Black & Decker), ITW, MacLean-Fogg, Raymond and SPS Technologies.

© Copyright by The Freedonia Group, Inc.

SAMPLE PAGE
 Explanations that support each table's data and forecasts

Order Information

To order fill out the coupon below and mail to The Freedonia Group, or place your order by phone **toll free (800) 927-5900 (US)** or **(440) 684-9600**, or by fax **(440) 646-0484**, or by e-mail at **info@freedoniagroup.com**

Free Handling and Shipping

There is **NO** charge for handling and UPS shipping in the US. Expect delivery in 3 to 5 days. Outside the US, Freedonia provides free airmail service. If you require express delivery, Freedonia provides this to you at cost.

Save Fifteen Percent

If you order three (3) different titles at the same time, you can receive a discount of 15%. **If your order is accompanied by a check, you may take a 5% cash discount** (discounts do not apply to corporate use licenses).

Credit Card Orders

You may charge your order to either **American Express, MasterCard or Visa**. Please include your credit card account number, expiration date and your signature.

Orders Outside of the US

Checks must be paid in US funds, drawn against a US bank and mailed directly to The Freedonia Group. For wire transfer instructions please contact our customer service department at **info@freedoniagroup.com**. Or you may use a credit card.

Corporate Use License

Now every decision maker in your organization can act on the key intelligence found in all Freedonia studies. For an additional \$2,300 you receive unlimited use of an electronic version (PDF) of the study. Place it on your Intranet, e-mail it to coworkers around the world, or print it as many times as you like! Order it today.

Online Access

The complete text and tables from our studies and reports can be purchased at our website **www.freedoniagroup.com** and through major commercial online hosts.

Other Titles from The Freedonia Group

World Bearings

Global demand for ball, roller and plain bearings will climb 6.4% annually through 2012. Gains will be driven by a shift toward more expensive, better performing units. Demand in developing parts of Asia, Eastern Europe, Africa/Mideast and Latin America will outpace sales in the US, Western Europe and Japan. This study analyzes the \$48.4 billion world bearing industry, with forecasts for 2012 and 2017 by product, market, world region and for 30 countries. It also evaluates company market share and profiles industry competitors.

#2383 08/2008 \$5700

Gears

US demand for gears will grow 3.3% annually through 2011. The best prospects will come from the aerospace industry, which will post the fastest advances. Due to the dominant size of the motor vehicle market, vehicular gear assemblies will remain the largest segment, with individual types such as helical and bevel gears leading gains. This study analyzes the \$24.9 billion US gear industry, with forecasts for 2011 and 2016 by material, product and market. It also details market share and profiles major players.

#2273 11/2007 \$4400

Industrial Castings

US industrial castings demand will reach \$35 billion in 2011, supported by gains in smaller markets such as aerospace and electrical/electronic equipment. Shipments of nonferrous types will accelerate, led by magnesium-based castings. Ferrous castings will continue to lose market share to nonferrous, both in value and tonnage. This study analyzes the 15.8 billion ton US industrial castings industry, with forecasts given for 2011 and 2016 by type and market. It also details market share and profiles major players.

#2214 07/2007 \$4400

Industrial Fasteners in China

Demand in China for industrial fasteners will grow 9.4% annually through 2010. Nonthreaded sales will lead gains among standard types, with externally threaded fasteners remaining dominant. Aerospace-grade fasteners will outpace standard products. Construction will be the fastest growing market. This study analyzes the ¥25.6 billion Chinese industrial fasteners industry, with forecasts for 2010 and 2015 given by type and market. This study also evaluates company market share and profiles major players.

#2187 06/2007 \$4900

Industrial Fasteners

US demand for industrial fasteners will reach \$12.9 billion in 2011, driven by healthy growth in aerospace equipment and nonresidential construction, a rebound in motor vehicles and rising production of many durable goods. Aerospace-grade fasteners will grow four times as fast as standard types. The MRO segment will be the fastest growing market. This study analyzes the US industrial fastener industry for 2011 and 2016 by product and market. It also evaluates market share and profiles leading producers.

#2173 04/2007 \$4400

Need analysis on a topic not covered by Freedonia Industry Studies? Call Customer Service for details on **Freedonia Custom Research**

ORDER FORM

[Click here to purchase online](#)

Name: _____

Title: _____

Company: _____

Division: _____

Street: _____
(no PO Box please)

City/State/Zip: _____

Country: _____

Phone: _____ Fax: _____

e-mail: _____

TITLE

PRICE

World Industrial Fasteners

\$5700

Corporate Use License (add to study price) + \$2300

___ Additional Print Copies @ \$500 each

Total (including selected options): \$ _____

Enclosed is my check (5% discount) drawn on a US bank and payable to The Freedonia Group, Inc., in US funds (Ohio residents add 7.75% sales tax)

Bill my company American Express MasterCard Visa

Credit Card #

MONTH YEAR
Expiration Date

Signature: _____

INQ-2374

The Freedonia Group, Inc. 767 Beta Drive Cleveland, OH 44143-2326 USA **website:** www.freedoniagroup.com
phone: 800-927-5900 (US) or 440-684-9600 **fax:** 440-646-0484 **e-mail:** info@freedoniagroup.com