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# Industrial Fasteners in China

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Industry Study with Forecasts for **2013 & 2018**

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Study #2531 | September 2009 | \$5200 | 181 pages

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**The Freedonia Group**

767 Beta Drive

Cleveland, OH • 44143-2326 • USA

Toll Free US Tel: 800.927.5900 or +1 440.684.9600

Fax: +1 440.646.0484

E-mail: [info@freedoniagroup.com](mailto:info@freedoniagroup.com)

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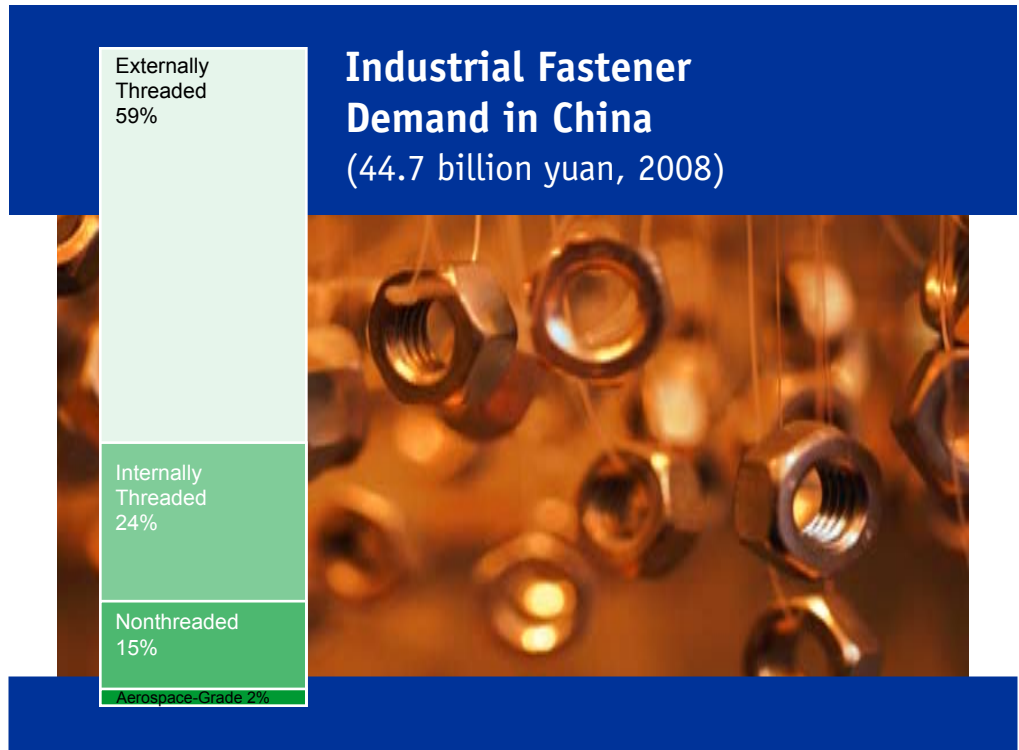
*Demand drivers include increases in the production of industrial machinery, motor vehicles, and electrical and electronic products, and rising demand for higher-grade industrial fasteners.*

## Demand in China to increase 10.7% per year through 2013

Demand for industrial fasteners in China is projected to increase 10.7 percent annually to 74.2 billion yuan in 2013, driven by rapid growth in manufacturing production, especially industrial machinery and motor vehicles. Increases in electrical and electronic product manufacturing will also provide growth opportunities, although these gains will be less pronounced than over the past decade. In addition, industrial fastener demand will be supported by expansion and modernization of China's infrastructure, which will create new opportunities for sales associated with nonautomotive transportation and fabricated metal production. Moreover, rise in demand for higher-grade industrial fasteners will boost overall market value. However, the use of new materials and manufacturing methods that reduce the number of fasteners required in durable goods production will restrain sales growth to some extent through 2013.

## Externally threaded fasteners to pace standard types

Standard fasteners -- externally threaded, internally threaded and nonthreaded -- account for 98 percent of Chinese industrial fastener demand. Externally threaded fasteners are the dominant standard fastener type, accounting for three-fifths of standard fastener demand in China in 2008. Externally threaded types have resisted inroads made by alternative joining methods such as adhesives or welding and will grow at a



slightly above average rate. Internally threaded types will increase at a slightly below average pace, while nonthreaded types will post the slowest gains at 9.9 percent annually through 2013, affected by decelerating growth in construction activities. Sales of aerospace-grade fasteners will out-pace advances for standard fasteners, rising 13.4 percent per year through 2013. Demand will be spurred by further government investment in infrastructure, aerospace industries and national defense, all important markets for aerospace-grade fasteners.

## OEM, construction markets to outpace MRO applications

New demand for fasteners in the original equipment manufacturing (OEM) and

construction markets will outpace that of maintenance/repair/operation (MRO) markets through 2013. OEM will remain the largest market in China, accounting for over three-fourths of total fastener demand, with new sales stimulated by rapid growth in the industrial machinery, motor vehicle, and electrical and electronic product markets. In addition, increasing technological capabilities in durable goods production and continued foreign investment will boost OEM fastener demand. Demand for fasteners used in construction applications will be driven by greater use of higher-performance fastener products in nonbuilding construction and government funding for large-scale infrastructure construction.

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## Sample Text, Table & Chart

### MARKETS

**Fastener Markets --** Motor vehicle OEM fastener demand is expected to expand 5% in 2009, 4 billion in 2013, decelerating to 3% in 2018. The pace of production and the manufacturing of more safety, entertainment and other accessories will be limited by the decline in production and the manufacturing of more safety, entertainment and other accessories. However, the increase in production and the manufacturing of more safety, entertainment and other accessories. However, the increase in production and the manufacturing of more safety, entertainment and other accessories.

The average automobile manufactured in China contains 2,000 individual fasteners in 2008, though this varies considerably from vehicle to vehicle, since larger passenger cars and luxury vehicles contain considerably more fasteners than do compact cars, with medium-duty trucks and buses utilizing even higher amounts. Motor vehicle OEMs and system suppliers have made a concerted effort to reduce the number of fasteners used in all vehicles, in an effort to reduce both in-vehicle assembly costs. Nevertheless, industrial fastener demand in the automobile market totaled ¥9.8 billion in 2008.

Fasteners can be found in virtually every motor vehicle subsystem, including the body, drivetrain, engine, fenders, lights, molding, suspension system and wheels. The most intensive usage is found in the frame and body assembling, and engine and powertrain systems. In addition, the trend toward luxury vehicles will boost the fastener demand for other components and systems, outpacing the motor vehicle market as a whole. However, as a result of a comparatively slow growth rate of medium/heavy truck production, fastener demand in frame and body assembling, and in engine and powertrain systems for medium/heavy trucks and buses will underperform the motor vehicle market as a whole, rising slightly higher than vehicle production.

A broad array of fastener types are used by automotive OEMs, including both commodity and specialized fasteners designed for particular

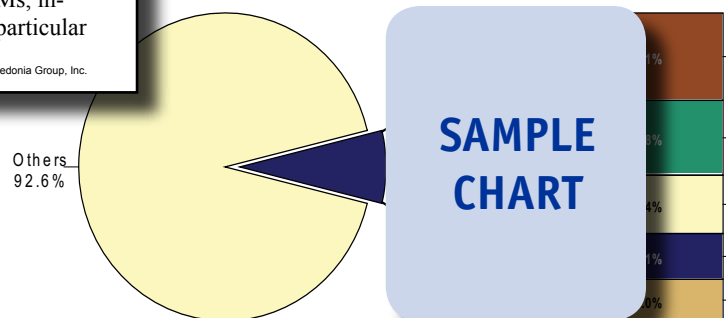
TABLE IV-4

### INDUSTRIAL MACHINERY FASTENER DEMAND IN CHINA BY MACHINERY TYPE (million yuan)

Item	1998	2003	2008	2013	2018
Industrial Machinery Production (bil ¥)	6200	12700	34400	50000	66700
¥ fastener/000¥ production	4	4	4	4	4
Industrial Machinery Fastener Demand	0	0	0	0	0
General Industrial Machinery:	0	0	0	0	0
Material Handling Equipment	0	0	0	0	0
Engines	0	0	0	0	0
HVAC	0	0	0	0	0
Metal Working	0	0	0	0	0
Other	0	0	0	0	0
Special Industrial Machinery:	0	0	0	0	0
Construction Machinery	0	0	0	0	0
Agricultural Equipment	0	0	0	0	0
Nonmetal Processing Equipment	0	0	0	0	0
Other	0	0	0	0	0
% industrial machinery	5	5	5	5	5
OEM Industrial Fastener Demand	6200	12700	34400	50000	66700

CHART V-1

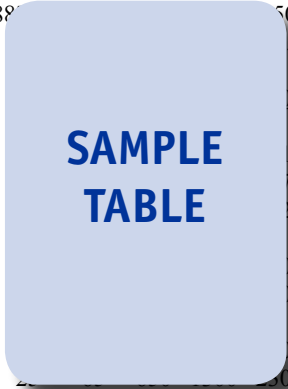
### INDUSTRIAL FASTENER MARKET SHARE IN CHINA BY COMPANY, 2008 (¥44.7 billion)



## Sample Profile, Table & Forecast

**TABLE III-6**  
**AEROSPACE-GRADE FASTENER SUPPLY & DEMAND IN CHINA**  
 (million yuan)

Item	1998	2003	2008	2013	2018
Industrial Fastener Demand	88				500
% aerospace-grade					3
Aerospace-Grade Fastener Demand					10
By Type:					
Externally Threaded					0
Internally Threaded					70
Nonthreaded					20
By Application:					
Aerospace/Defense					10
Other					10
+ net exports					10
Aerospace-Grade Fastener Shipments					100



**COMPANY PROFILES**

**Changshu Standard Parts Factory**  
 88 Xinjiang Road  
 Dongnan Development Zone  
 Changshu, Jiangsu 215500  
 China  
 86-512-5281-  
 http://www.ch

Annual Sales: company, 7/09)  
 Employment:  
 Key Products

International (rt/Export Dept.

Changshu Standard Parts was the second largest industrial fastener producer in China, accounting for 1.8 percent of total industry sales. Changshu Standard Parts Factory manufactures and markets automotive and industrial fasteners for customers in the Asia/Pacific region, the US, Europe, Latin America, Africa and the Middle East. The Company is a collectively run enterprise.

The Company competes in the Chinese fastener industry via the manufacture of a broad range of automotive and industrial fasteners marketed under the DALI brand name. Changshu Standard Parts Factory's automotive fasteners are composed of stainless or alloy steels, and are available with plastic inserts for enhanced performance. Examples of DALI automotive fasteners are hex-head, hex-flange, cup-head, square-neck, cap-head nibbed and non-standard bolts; machine, hex-head, socket-cap head, tapping, self-drilling tapping, chipboard and non-standard screws; hexagonal and connecting nuts; double-ended studs; threaded rods; and other specialty fasteners. DALI industrial fasteners are suitable for construction, furniture and process manufacturing end use. Industrial fasteners in this range include high-strength

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"Externally threaded aerospace-grade fastener demand is projected to increase 12.9 percent annually through 2013 to ¥770 million. Related products will continue to lose market share of total aerospace-grade fastener demand, affected by intense functional competition from alternative joining technologies, which will see improved product capabilities. On the other hand, ..."

--Section III, pg. 61

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**OTHER STUDIES**

**Industrial Fasteners**

US demand for industrial fasteners will reach \$12.5 billion in 2013. Gains will be supported by a recovery in motor vehicle production and residential building construction, as well as by the offering of innovative, better-performing fasteners that can be sold at a premium. Aerospace-grade fasteners will slightly outpace standard types. This study analyzes the US industrial fastener industry, with forecasts for 2013 and 2018 type and market. It also evaluates company market share and profiles industry players.

#2494 ..... 05/2009..... \$4600

**Agricultural Equipment in China**

Demand for agricultural equipment in China is projected to grow 6.8% yearly through 2012. Gains will be driven by ongoing farm mechanization efforts as rural incomes rise and labor is lost to urban migration. Tractors and harvesting machines will remain key segments while parts and attachments grow the fastest. This study analyzes the 85 billion yuan agricultural equipment industry in China, with forecasts for 2012 and 2017 by product and regional market. It also evaluates market share and profiles industry players.

#2475 ..... 06/2009..... \$5200

**Gaskets & Seals**

US demand for gaskets and seals will reach \$8.8 billion by 2012, driven by a rebound in end-use markets and rising demand for more expensive sealing products made from advanced materials. Expanded graphite gaskets, plastic gaskets and body seals will post the fastest sales increases. Aerospace uses will be the most rapidly growing major market. This study analyzes the US gasket and seal industry, with forecasts for 2012 and 2017 by type and market. It also evaluates market share and profiles industry players.

#2416 ..... 11/2008..... \$4700

**Machine Tools in China**

Machine tool demand in China will grow 13% yearly through 2012, based on rapid growth in durable goods production and infrastructure expansion and modernization. Metal cutting tools will outpace other products, spurred by strong growth in manufacturing investment. Industrial machinery will remain the largest market. This study analyzes the 328.5 billion yuan machine tools industry in China, with forecasts for 2012 and 2017 by product, market and region. It also evaluates market share and profiles industry players.

#2390 ..... 09/2008..... \$5100

**World Industrial Fasteners**

Global demand for industrial fasteners will rise 4.8% yearly through 2012, driven by increasing aerospace equipment and motor vehicle output. Market gains in emergent economies will outpace demand in more advanced, mature countries. Aerospace-grade fasteners will outpace standard types. This study analyzes the \$52 billion world industrial fastener industry, with forecasts for 2012 and 2017 by product, market, world region and for 28 countries. It also evaluates market share and profiles major players.

#2374 ..... 09/2008..... \$5700

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