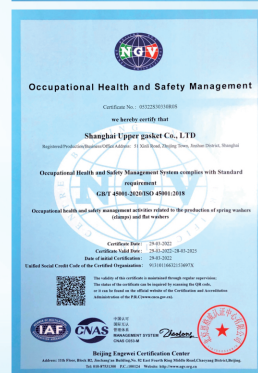
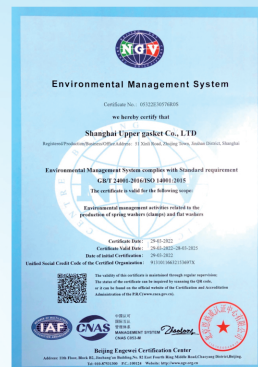




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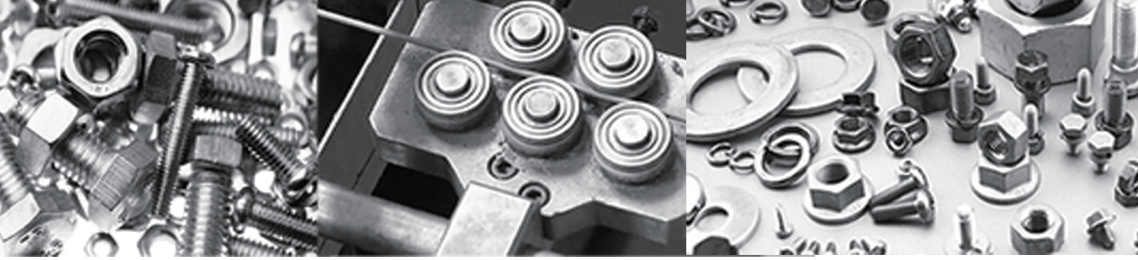


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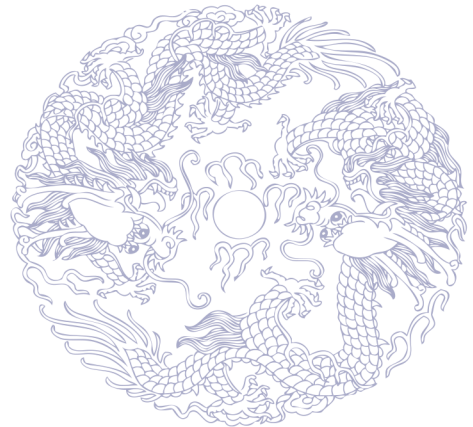
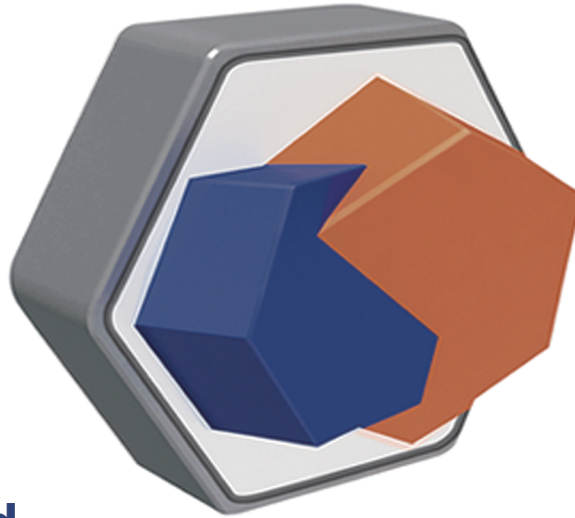
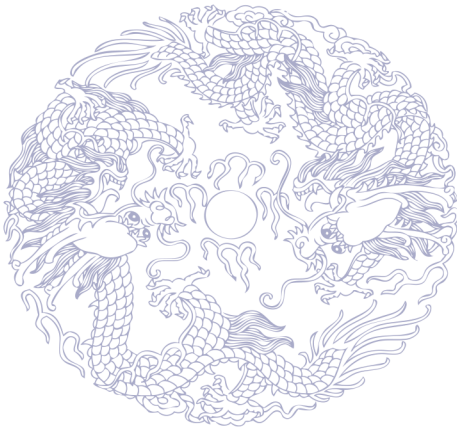
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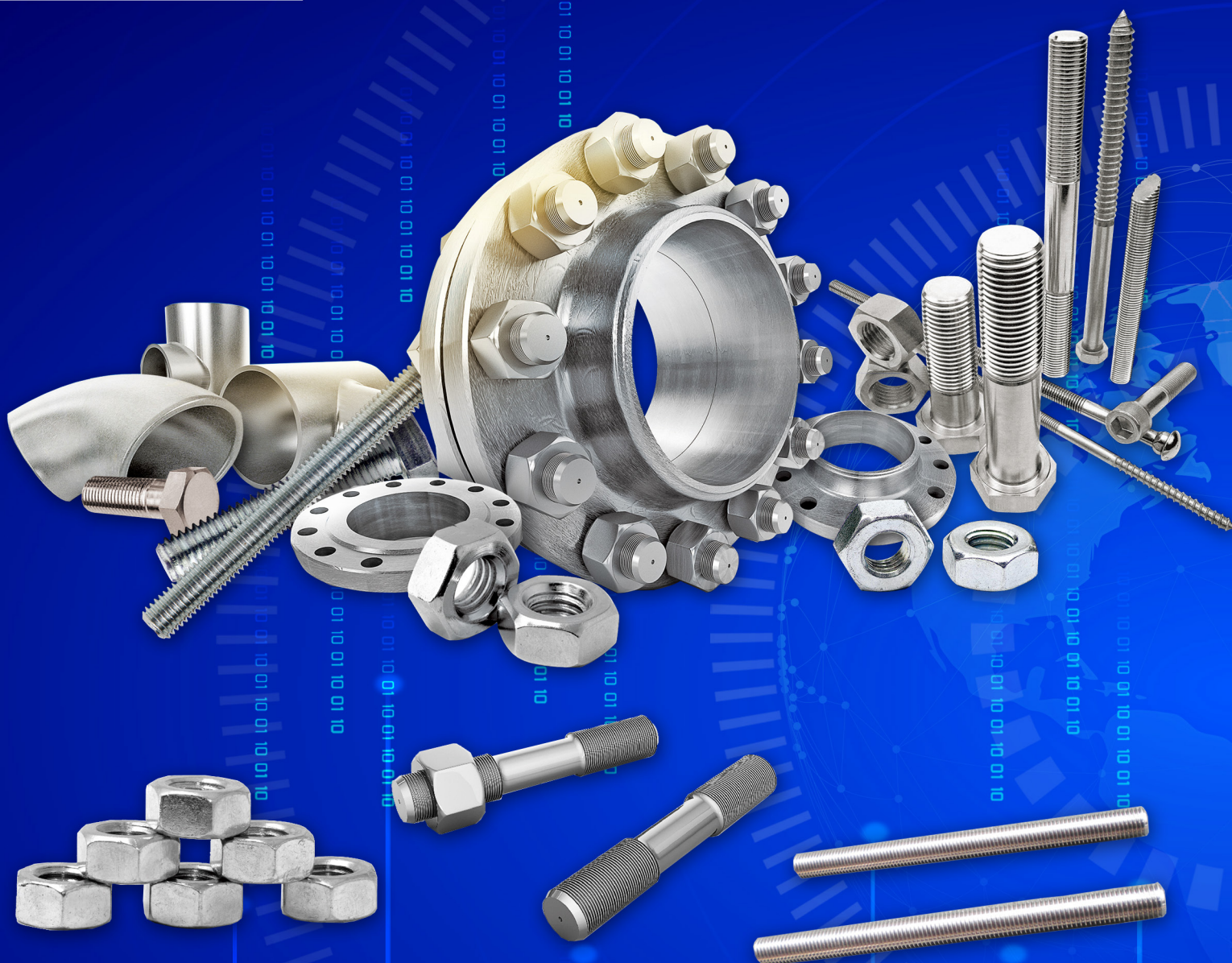
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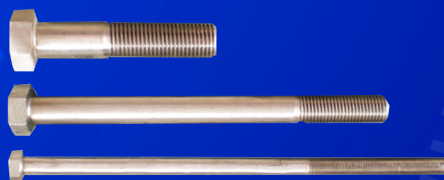
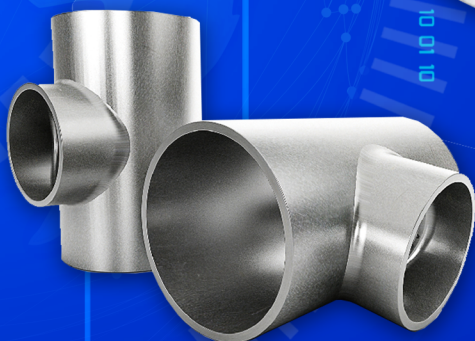
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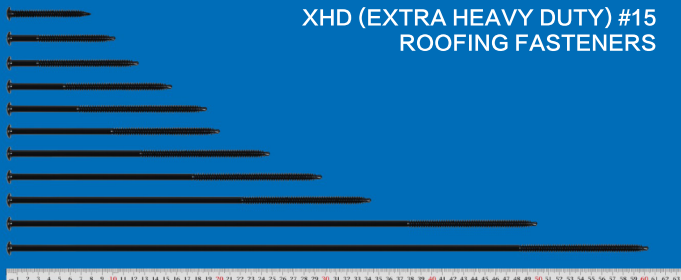
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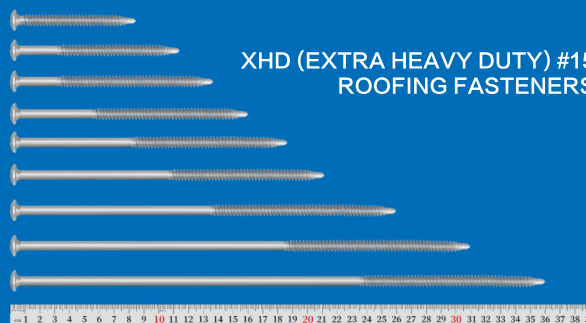
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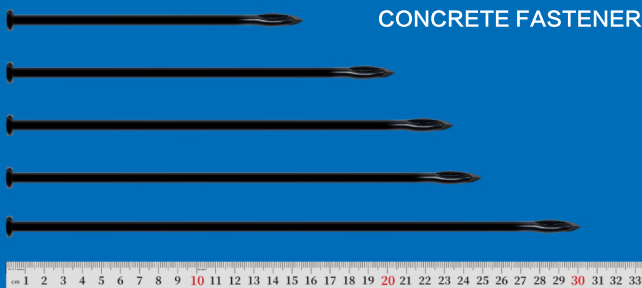
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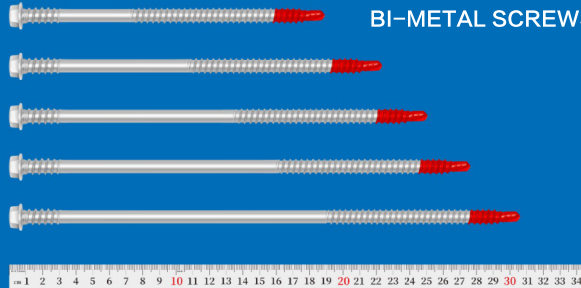
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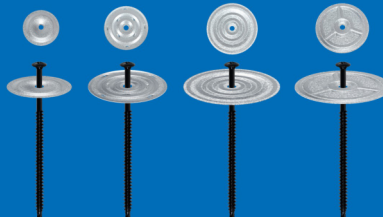
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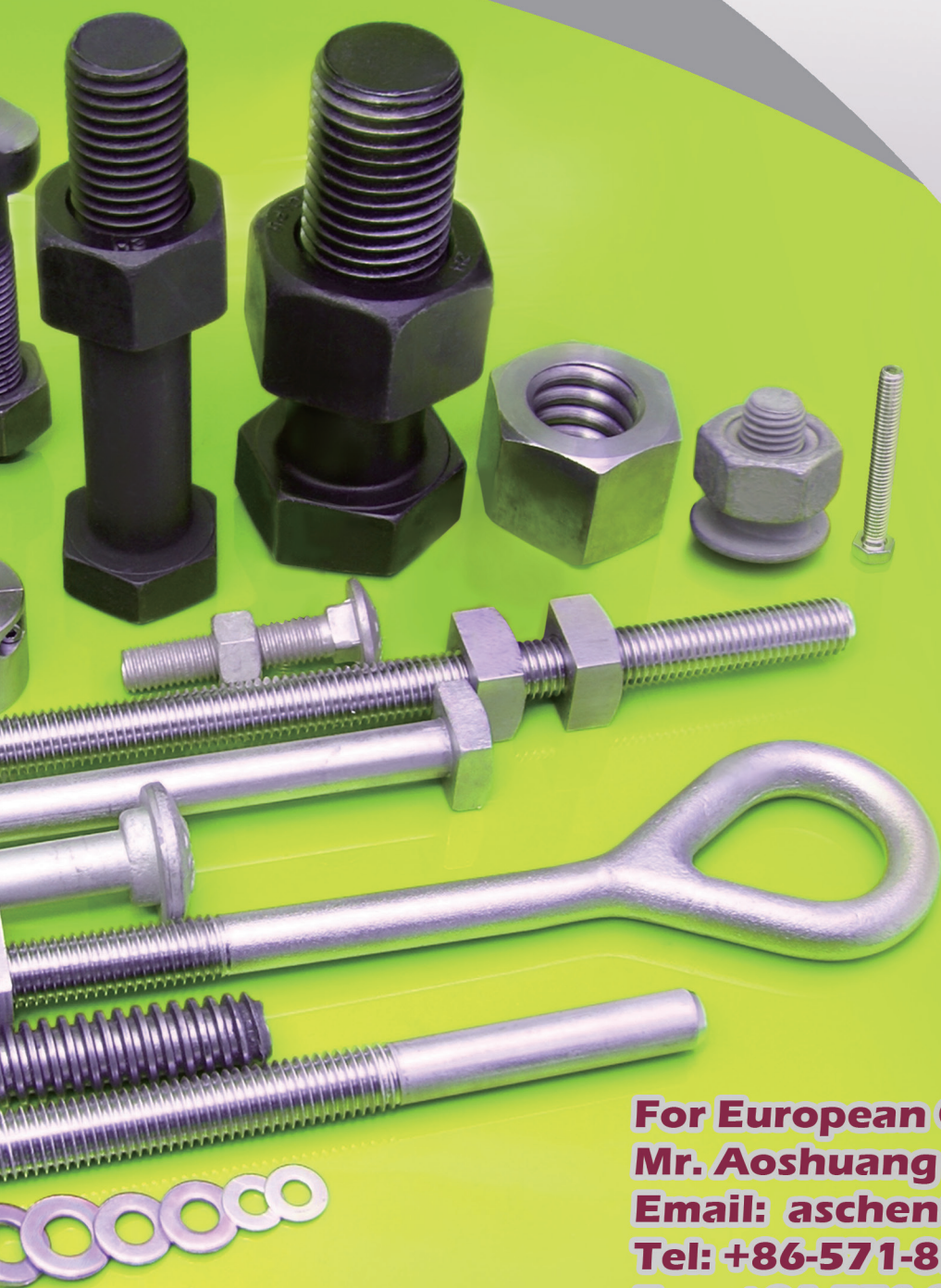
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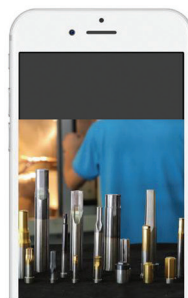
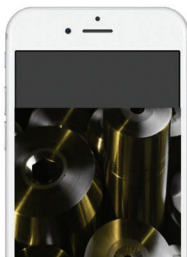
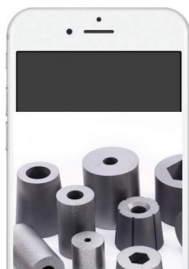


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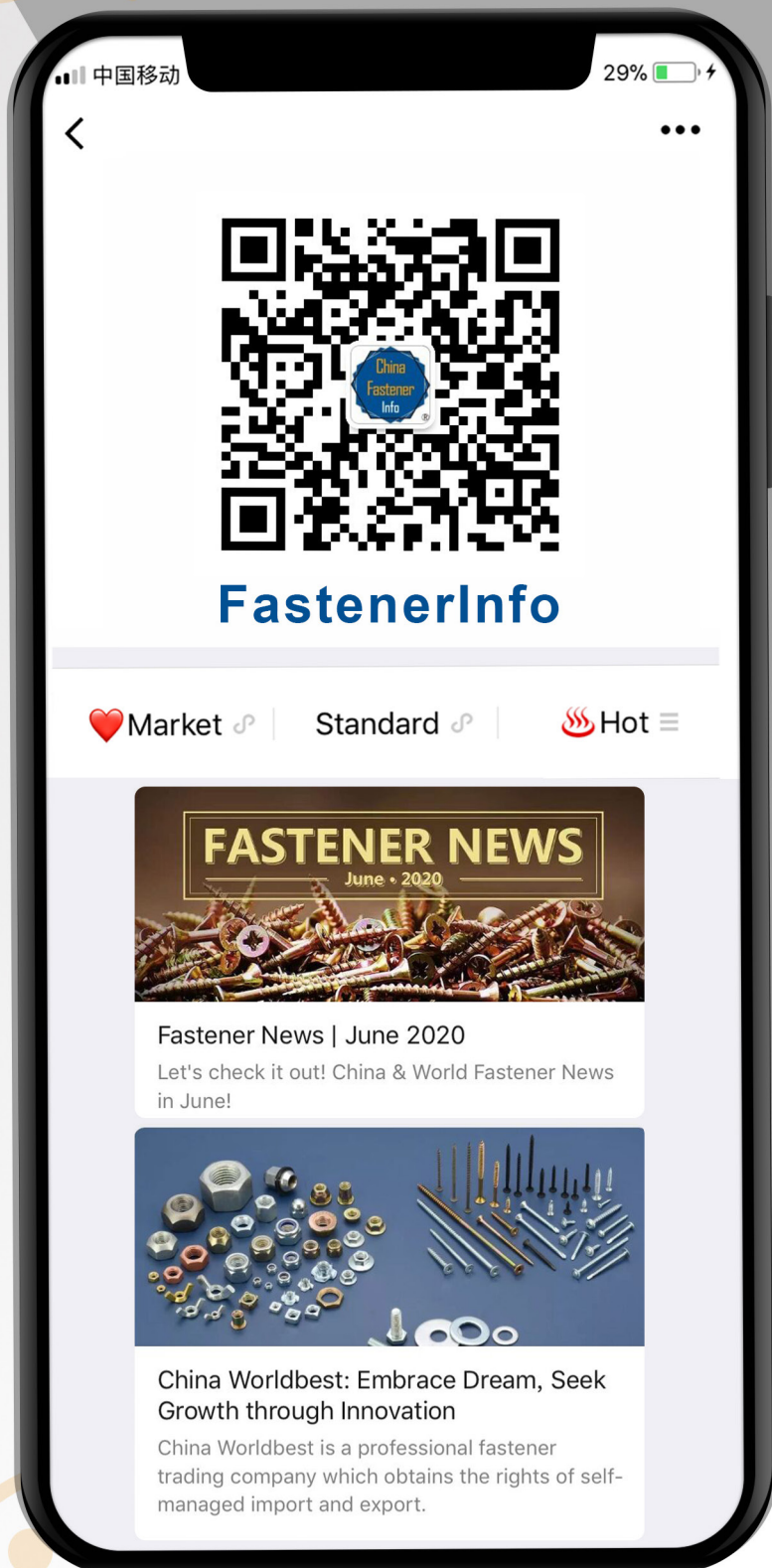
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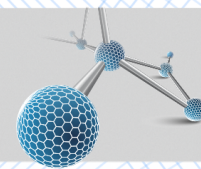
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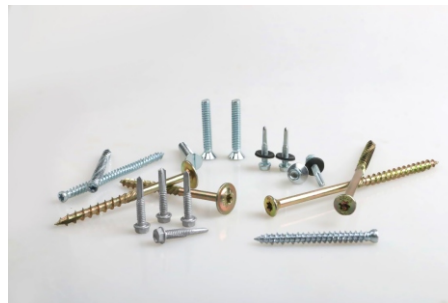
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We have approximately 60 production personnels and an R&D team of 5 people. The monthly capacity can achieve 200 million pieces and annual capacity can reach 10,000 tons. We have established perfect ISO9001-2015 quality management system, IATF16949 and BSCI:2014, so that we can provide excellent service for customers in accordance with international standards.

Our products have been exported to all over the world and are appointed as preferred products by renowned customers. ♦



Yangjiang Demeng Hardware Products Co., Ltd.

Address: North of Xingping 5th Road, Zhuhai Industrial Transfer Industrial Park, Yangjiang City, Guangdong, China

Tel: +86-662-6506999

Fax: +86-662-6693899

Email: sales@dm-screw.com

Website: www.dm-screw.com





HENGFENG RIVET

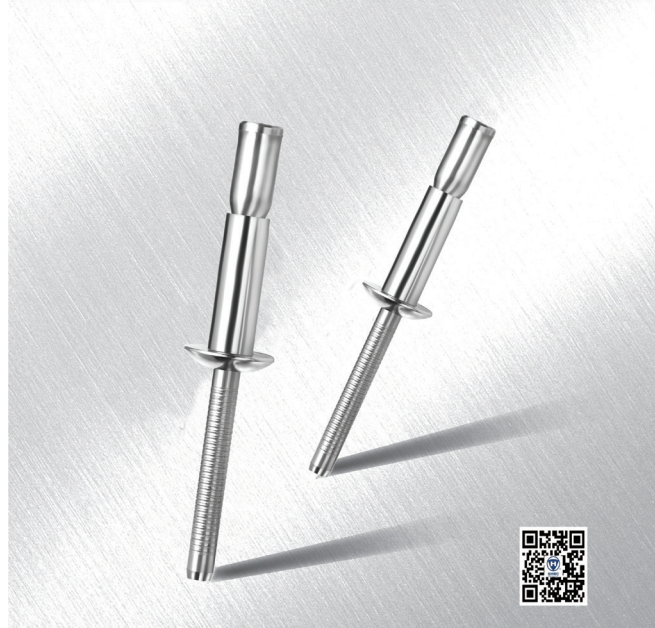
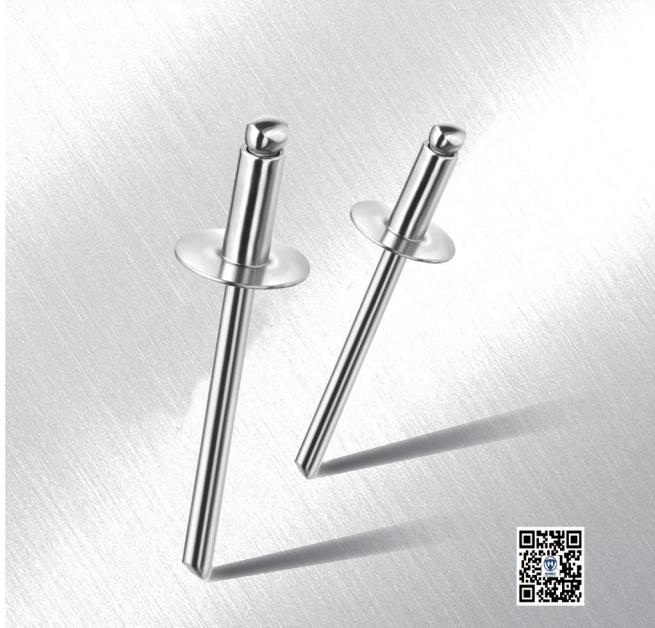
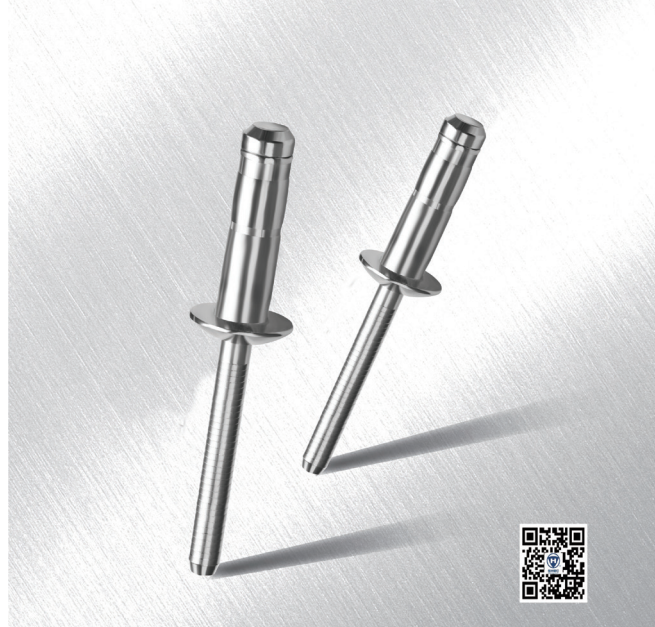
Professional Manufacturer of Stainless Steel Blind Rivets and Structural Rivets for Automotive Industry

Established 1994, Jingjiang Hengfeng Rivet Manufacture Co., Ltd. is a professional manufacturer and exporter of blind rivets. Equipped with leading technology and equipment, as well as advanced inspection instruments, Hengfeng has passed IATF16949:2016 certification for automotive industry. We can produce rivets according to the standards of GB, DIN, IFI and ISO. Our products have been exported to Europe, U.S., Japan, etc.



Our products include Open End Blind Rivets, Closed End Blind Rivets, Grip Rivets, Henglock, Tri-fold Rivets, Riveting Tools, etc. We especially devote ourselves to developing and researching stainless steel series of rivets, which are widely used in containers, high-speed trains, vessels, elevators, communications, home appliance, food machinery and other industries, and are well-recognized by customers from home and abroad.

Hengfeng will provide you with the best products of high quality and good service as always. ♦



Jingjiang Hengfeng Rivet Manufacture Co., Ltd.

Address: No.2 South Gushan Road, Jingjiang, Jiangsu, China

Contact Name: Ms. Jenny

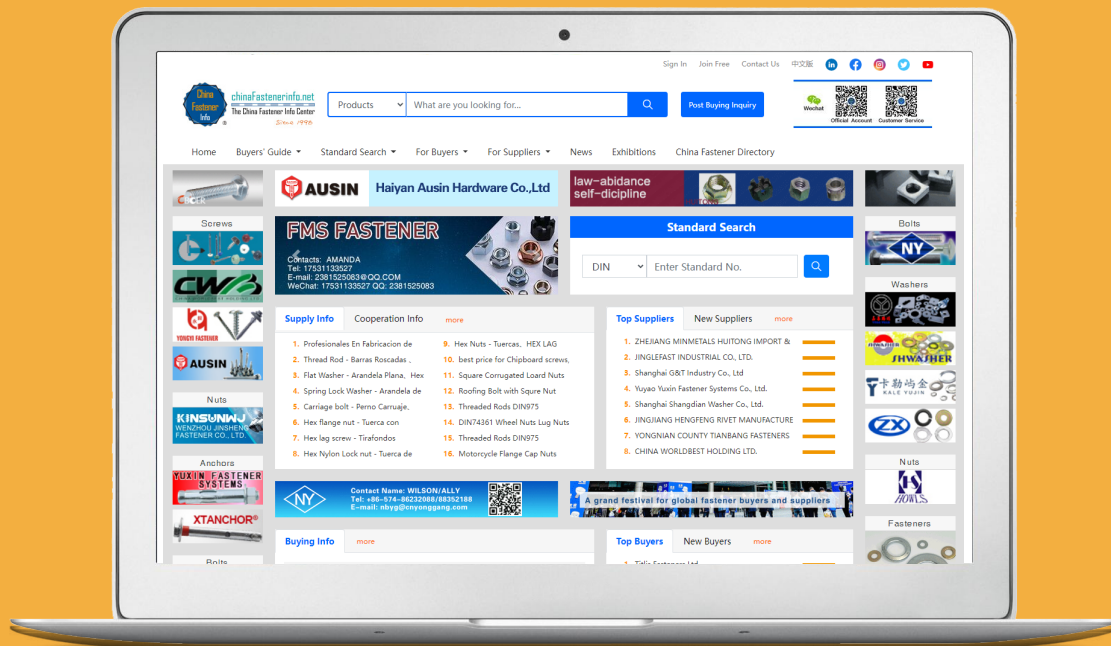
Tel: +86-523-84553022 **Fax:** +86-523-84567222 **Email:** jenny_qian@hfrivet.com

Website: www.hfrivet.com, <http://28123v.chinafastenerinfo.net>



TOP SUPPLIERS recommendation

In the next pages, you will find recommended namecards of “Top Supplier” in China. You can call, fax or email your inquiries directly to the companies . Be sure to let these companies know you saw them in *China Fastener Directory (CFD)*.



For details contact **China Fastener Info**
Tel: +86-20-38861363 Fax: +86-20-38812687
Email: info@jzzfastener.net

Website: www.chinaFastenerinfo.net

China Fastener Directory Issue 29

Arnold Fasteners (Shenyang) Co., Ltd.

Thread forming screws: TAPTITE 2000®, DUO-TAPTITE® similar to DIN 7500/7500-1; screws for plastics: Remform®, KT-Screws; self-tapping screws; metric screws.



Tel: +86-24-88790638
Fax: +86-24-88790999
Email: xiaohui.liu@arnold-fastening.com
Website: www.chinafastenerinfo.net/vip/42187, www.arnold-cn.com

Changshu City Standard Parts Factory

Chipboard screws, fasteners for automobiles, hex head bolts, hex socket screws, hex nuts.



Tel: +86-13706239222
Fax: +86-512-52811984
Email: csbjh2021@163.com
Website: www.chinafastenerinfo.net/vip/8608, www.china-dali.cn

Beijing Xintianyun Fasteners Co., Ltd.

General fasteners, imported alloy steel fasteners, rivets, steel structural fasteners, plastic fasteners, stainless steel fasteners, titanium alloy fasteners, copper fasteners, aluminum fasteners, chemical anchor bolts, anchor adhesives, self-clinching fasteners, precision screws for electronics, non-standard fasteners, etc.



Tel: +86-10-87607678, 87600505, 87600909, 63466210, 63466609, 67678346, 67672162
Fax: +86-10-87600007, 63439666 Email: xintianyun@263.net
Website: www.chinafastenerinfo.net/vip/2235, www.bjxty.cn

Changzhou Wujin Jiangnan Special Type Screw Co., Ltd.

Lock rivets, semi-tubular rivets, shoulder rivets, special self-tapping screws, CNC cutting parts.



Tel: +86-519-86489200
Fax: +86-519-86489201
Email: sales@jiangnan-screw.com
Website: www.chinafastenerinfo.net/vip/3167, www.jiangnan-screw.com

BSC Corporation Ltd.

Washers, fixing brackets, stamping parts, anchors and other fasteners.



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Fax: +86-21-56383751
Email: export@bscmetal.com
Website: www.chinafastenerinfo.net/vip/17071, www.bscmetal.com

China Worldbest Holding Ltd.

Nails, screws, bolts and nuts, iron wire and meshes, hinges, mortise locksets, paint brushes.



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Fax: +86-510-82751635, 82758973
Email: info@cwbs.com
Website: www.chinafastenerinfo.net/vip/705, www.worldbest-china.com

Carlo Salvi (Guangzhou) Machinery and Equipment Ltd.

1-die 2-blow headers, 2-die 4-blow headers, progressive headers.



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Fax: +86-20-81239359
Email: info.china@carlosalvi.com
Website: www.chinafastenerinfo.net/vip/66234, www.carlosalvi.com

China W.T Fasteners Co., Ltd.

Self drilling & self tapping screw series, hexagon bolts & nuts, flange bolts & nuts, foundation bolts, sleeve anchors and wedge anchors, etc. Besides, we can produce according to your designs and drawings.



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Email: 2144320082@qq.com
Website: www.chinafastenerinfo.net/vip/101687

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Shenzhen Chengzhi Technology Co., Ltd.

Self-tapping threaded inserts, CNC precision parts, self-clinching nuts, self-clinching standoffs, plastic, nuts, studs, bolts, hardware, weld screws, blind rivets, panel fasteners, panel screws, K-nuts, female/male spacers.



成智五金
CHENG ZHI METAL

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Fax: +86-755-27685476
Email: chengzhi100@126.com, chengzhi0008@126.com
Website: www.chinafastenerinfo.net/vip/2157, www.cnchengzhi.com.cn

Dongguan Fangxin Metal Products Co., Ltd.

Multi-grip blind rivets, single-grip blind rivets, hem-firm blind rivets, blind rivets, tri-firm blind rivets, closed end blind rivets, open end blind rivets, peel type blind rivets, tubular rivets.



Tel: +86-769-83186956
Fax: +86-769-83113006
Email: 1048002316@qq.com
Website: www.chinafastenerinfo.net/vip/78368

Cixi Hengrun Metal Products Co., Ltd.

Water heater fittings, special nuts, non-standard parts.



Tel: +86-574-63526996
Fax: +86-574-63528996
Email: cxhengrun@hotmail.com
Website: www.chinafastenerinfo.net/vip/62765, www.cxhengrun.com

Dongguan Guan hong Hardware Technology Co., Ltd.

M3-M10 self-clinching nuts, waterproof nuts.



Tel: +86-769-83691202
Fax: +86-769-83863907
Email: toongyi@163.com
Website: www.chinafastenerinfo.net/vip/73001, www.yamaoluomu.cn

Dongguan Ansheng Hardware Machinery Co., Ltd.

High speed nut, roller, rivet, socket, rivet nut, set screw forming machines.



Tel: +86-13862257542, +86-13602330369,
+86-13625841345
Fax: +86-769-83131544
Email: 2579589432@qq.com
Website: www.chinafastenerinfo.net/vip/73581

Dongguan Haoyijia Machinery & Equipment Co., Ltd.

Automatic washer assembly machines, spring washer machines, vibration plates and nailing selecting machines.



Tel: +86-769-82092372, +86-13332611988
Fax: +86-769-87565719
Email: jinyi71@21cn.com
Website: www.chinafastenerinfo.net/vip/43452

Dongguan Dalang Li Wen Screw Mould Factory

All kinds of dies.



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Fax: +86-769-81129810
Email: dg_lw2010@163.com
Website: www.chinafastenerinfo.net/vip/92536, www.0769liwen.com

Dongguan Huen Yi Precision Machinery Co., Ltd.

Rivet machines, button machines, belt cutting machines, hydraulic cutting machines, stationery folder equipment machinery, screw machines, molded teeth machines, milling machines, etc.



Tel: +86-769-88313008, +86-13602371709
Fax: +86-769-88313018
Email: 783700046@qq.com
Website: www.chinafastenerinfo.net/vip/36299, www.hcco.com.tw

Dongguan Juncheng Dacromet Metal Products Co., Ltd.

Dacromet, Zintek, ZTK-coating, Xylan, BNL-coating, DELTA-MKS.

Tel: +86-18681011388

Fax: +86-769-82555633

Email: sales@jcdkl.com

Website: www.chinafastenerinfo.net/vip/96960, www.jcdkl.com



Dongguan Shengbiao Hardware Products Co., Ltd.

Nylon lock nuts, K-nuts, nylon flanges, nylon cap insert lock nuts, hex nuts, flange nuts, nuts for lighting, rivet nuts, T-nuts, casings, customized non-standard products, etc.

Tel: +86-769-86263089

Fax: +86-769-83206780

Email: lgc@3339.com

Website: www.chinafastenerinfo.net/vip/57936



Dongguan Litian Hardware & Electrical Co., Ltd.

Prevailing torque type all-metal nuts, K nuts, hex thin nuts, square nuts, domed cap nuts, etc.

Tel: +86-769-81093552, 81091980, 81091982

Fax: +86-769-81093551

Email: litiancf1668@163.com

Website: www.chinafastenerinfo.net/vip/62550, www.dglitian168.com



金锁定

Dongguan Yingxing Metal Surface Treatment Materials Co., Ltd.

High temperature coating agent series, medium temperature coating agent series, no pickling coating agent series, drawing series, high carbon steel series, conventional lubricants, high grease lubricants.

Tel: +86-19525679691

Fax: +86-769-81060629

Email: dgsyx@dgsyingxing.com

Website: www.chinafastenerinfo.net/vip/81391, www.dgsyingxing.com



Dongguan Nisun Metal Mould Co., Ltd.

Punches and flat thread rolling dies.

Tel: +86-769-86263769, +86-13713278896

Email: dongguan8@xingmaodg.com, shennywang@163.com

Website: www.chinafastenerinfo.net/vip/16201, www.nisunmould.com



Dongtai QB Stainless Steel Co., Ltd.

Bolts, nuts, threaded studs, flanges, pipe fittings.

Tel: +86-515-85520679

Fax: +86-515-85523066

Email: davy@qbfaster.com

Website: www.chinafastenerinfo.net/vip/2989, www.qbfaster.com



Dongguan Sanhewlett Metal Products Co., Ltd.

Non-standard fasteners, machine screws, self-tapping screws, insert nuts, rivets, hollow bolts & nuts.

Tel: +86-769-83518248, +86-22-86837818

Fax: +86-769-83518243, +86-22-86837816

Email: business@sanhewlett.com.cn

Website: www.chinafastenerinfo.net/vip/10383, www.sanhewlett.com.cn



FIXDEX Fastening Technology Co., Ltd.

Wedge anchors, stud rods, threaded bars, mechanical anchors, chemical anchors, self-tapping screws, foundation bolts.

Tel: +86-18002570677

Fax: +86-310-6879588

Email: info@fixdex.com

Website: www.fixdex.com



FMS Fastener

Custom-made all kinds of non-standard fasteners, standard fasteners (bolts, nuts, screws, washers, screws, etc.).



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Email: amanda@fmsfastener.com
Website: www.chinafastenerinfo.net/vip/113447, www.fmsfastener.com

Guangdong HeKang Hardware Products Co., Ltd.

Screw in Grade 12.9, 10.9 and 8.8 & SS screws, DIN912/GB70 hexagon socket head cap screws, DIN931-933/GB5782-5783 hexagon head screws, DIN7991 hexagon socket countersunk head screws, ISO7380 hexagon socket button head screws, ISO7379 hexagon socket head shoulder screws, DIN916-45H alloy steel hex socket head set screws.



Tel: +86-18923191655, +86-769-86004061
Fax: +86-769-86004061
Email: 429890629@qq.com
Website: www.chinafastenerinfo.net/vip/45453

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Foshan City Guangqingchang Metal Plastic Co., Ltd.

Manufacturer of blind rivets: open end, closed end, uni-grip, multi-grip, hemlok, interlock, monobolt, peel, tri-firm. Actual certification: ISO 9001, IATF 16949. Production facilities: own laboratory, own packing facilities.



Tel: +86-757-86610511
Fax: +86-757-86617867
Email: sales@qingchang.com.cn, jiaqi.guo@qingchang.com.cn
Website: www.chinafastenerinfo.net/vip/85429, www.qingchangrivet.com

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Guangdong STL Fastening System Co., Ltd.

Locking washers. DIN25201, DIN92550, S, VS, NFE2511, NFE-3L, 4L, SN60727, VSKD, VSK, etc.



Tel: +86-769-89083477
Fax: +86-769-89083476
Email: szjydwj@126.com
Website: www.chinafastenerinfo.net/vip/41282, www.dg-jyd.com

Foshan Nanhai Lishui Hexing Machinery Factory

Automatic cold heading machines, spring machines.



Tel: +86-757-85608889, +86-13902819732
Fax: +86-757-85602181
Email: hexing@fs-hexing.com
Website: www.chinafastenerinfo.net/vip/6016

Haining Sanlic Fastener Factory

Various non-standard fasteners, full range of non-standard nuts.



Tel: +86-573-87537823
Fax: +86-573-87539603
Email: fbsy32@gmail.com
Website: www.chinafastenerinfo.net/vip/39897

GuangDong GuoXing Hardware Co., Ltd.

Stainless steel self-drilling screws. Sizes range from #6-#16. Drill point size from L2-L5. Length up to 200mm. Variety of head types.



Tel: +86-751-3399899
Fax: +86-769-81776629
Email: galand@vip.sina.com
Website: www.chinafastenerinfo.net/vip/36527, www.gd-gxwj.com

P20

Haiyan Ausin Hardware Co., Ltd.

Self-drilling screws, self-tapping screws, drywall screws, chipboard screws, wood screws, washers, etc.



Tel: +86-573-86129299
Fax: +86-573-86120322
Email: sales@hyausin.com
Website: www.chinafastenerinfo.net/vip/41282, www.hyausin.com

Haiyan Fasteners Factory

Carriage bolts, hex head bolts, flange bolts, rivets, non-standard fasteners, furniture fasteners.



Tel: +86-573-86513188, 86511248

Fax: +86-573-86511248

Email: hyxugx@126.com, yongjin@mail.jxptt.zj.cn

Website: www.chinafastenerinfo.net/vip/10051, www.hyff.com

Haiyan Lihe Hardware Products Co., Ltd.

DIN985/982, DIN6923, DIN980, DIN6926, DIN928/929, DIN439/DIN936, DIN1587, non-standard parts, etc.



海盐立禾五金制品有限公司
HAILIAN LIHE HARDWARE PRODUCTS CO., LTD.

Tel: +86-573-86058506

Fax: +86-573-86058509

Email: andhan2008@163.com

Website: www.chinafastenerinfo.net/vip/96650

Haiyan Hongrun Fasteners Co., Ltd.

Grade 4.8, 8.8, 10.9 and 12.9 hexagonal flange bolts (including non-slip toothed flange screws, wheel hub screws and seat belt screws), high strength auto and motorcycle fasteners and other kinds of non-standard special items.



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Fax: +86-573-86866789

Email: xjw@wz-hr.com

Website: www.chinafastenerinfo.net/vip/20356, www.jxhyhr.com

Haiyan Yaozhibao Import and Export Co., Ltd.

P21

Thousands of SKUs readily available from stock in threaded fasteners, such as nuts, bolts, screws and so on.



Tel: +86-573-86111237

Fax: +86-573-86022237

Email: bruce@hy-yzb.com

Website: www.hy-yzb.com

Haiyan Huayu Automotive Components Co., Ltd.

M3-M30 nuts. GB52, GB6170 high-strength nuts, galvanized nuts, black nuts, flange nuts, weld nuts, brass nuts. We can also produce in accordance with standards of ISO, DIN, ANSI, BS, UNI and various shaped nuts.



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Fax: +86-573-86815262

Email: 402245023@qq.com

Website: www.chinafastenerinfo.net/vip/37468

Haiyan Yihui Hardware Technology Co., Ltd.

Hex bolts, carriage bolts, square head bolts, machine screws, hex flange surface screws, countersunk head bolts, roofing bolts, pins, hex nuts and threaded rods.



Tel: +86-573-86211556

Fax: +86-573-86287218

Email: 757304931@qq.com

Website: www.chinafastenerinfo.net/vip/49740, www.bolthome.com

Haiyan Lianyi Hardware Factory

All kinds of standard fasteners, non-standard bolts & nuts, hardware manufacturing and processing, fasteners for foreign trade.



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Fax: +86-573-86513260

Email: hylywj@163.com

Website: www.chinafastenerinfo.net/vip/27653

Handan Daoning Fastener Manufacturing Co., Ltd.

Bolts, screws, nuts, rods, studs, washers and many other hardware products, made of carbon steel, alloy and stainless steel, aluminum, brass or other special materials.



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Email: heiyup@hotmail.com

Website: www.chinafastenerinfo.net/vip/98411, www.dao-ning.com

Hangzhou DingYuan Metal Washers Co., Ltd.

Spring washers and flat washers, stamping parts.

Tel: +86-571-83782296

Fax: +86-571-82875869

Email: admin@dyfasteners.com

Website: www.chinafastenerinfo.net/vip/23505, www.dyfasteners.com



Jiaxing Reegu Hardware Product Co., Ltd.

Rivet nuts with flat head, countersunk head, vertical stripes, hexagonal head, blind hole or other special kinds.

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Fax: +86-577-86665361

Email: 1692643651@qq.com

Website: www.chinafastenerinfo.net/vip/99588



Hangzhou Hangshen Energy-Saving Furnace Co., Ltd.

All kinds of heat treatment equipment research, development, design, production, manufacturing, sales and service.

Tel: +86-571-86173039

Fax: +86-571-86173039

Email: hsd1088@126.com

Website: www.chinafastenerinfo.net/vip/30983, www.hsd1088.com/en.html



Jiaxing Yida New Material Technology Co., Ltd.

Anchor bolts, U-bolts, eye bolts, non-standard stamping parts, 4.8, 8.8 threaded rods, stainless steel threaded rods, stainless steel U-bolts, stainless steel parts, etc.

Tel: +86-573-86196258, +86-13666743562

Fax: +86-573-86196258

Email: 850887057@qq.com

Website: www.chinafastenerinfo.net/vip/37393, www.ydfastener.cn



HCH Hardware Co., Ltd.

All kinds of fasteners. Main products include standard bolts, nuts, screws, washers, pins and OEM parts.

Tel: +86-523-82208531

Fax: +86-523-86054516

Email: info@hchhardware.com

Website: www.hchhardware.com



Jinan Star Fastener Co., Ltd.

Hexagon bolts, Hexagon flange bolts, carriage bolts, half-round head oval neck bolts, square-head bolts, T-bolts, U-bolts, anchor bolts, guide bolts, hexagon head wood screws, hexagon socket head cap screws, hexagon square nuts, various washers, etc.

Tel: +86-531-87881740

Fax: +86-531-87871032

Email: zhangguo@star-fastener.com

Website: www.chinafastenerinfo.net/vip/1123, www.starfastener.com



Jiangsu Chaoyue Stainless Steel Products Co., Ltd.

Studs, U bolts, chemical bolts, pin shafts, pipe fittings, metal stamping parts, embedded parts, precision non-standard parts.

Tel: +86-523-83980296

Fax: +86-523-83780273

Email: allen@chaoyue818.net

Website: www.chinafastenerinfo.net/vip/83270



Jinda Screw Machine (Dongguan) Co., Ltd.

Second-hand: 1D2B head punches; 2D3B, 3D3B, 3D5B, 3D6B, 4D3B rivet cold heading forming machines; Multi-station bolt formers such as 2D2B, 3D3B, 4D4B, 5D5B, 6D6B; 5D5B, 6D6B multi-station nut formers; High speed thread rolling machines, tapping machines and thread rolling machines and so on.

Tel: +86-769-83124939, +86-1790497008

Fax: +86-769-83126949

Email: jindaluosi@163.com

Website: www.chinafastenerinfo.net/vip/75171, www.jd2003.cn



Jingjiang Datong Fastener Co., Ltd.

All kinds of fasteners: hex bolts, T-bolts & hex nuts, heavy nuts, carriage bolts, etc. Hot-dip galvanizing.

Tel: +86-523-84211001

Fax: +86-523-84211002

Email: njm31@163.com

Website: www.chinafastenerinfo.net/vip/44091, www.jsjdatong.com



Leda Metal Co.

Washers (stoppers, snap rings, cushion rings), spring fasten articles, assembled screws and multi-functional screws, circlips, SEMS screws.

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Fax: +86-769-87729835, +86-512-65016135

Email: rosa@ledametal.com, sales01@ledametal.cn

Website: www.chinafastenerinfo.net/vip/45168, www.ledametal.com



Jingjiang Hengfeng Rivet Manufacture Co., Ltd.

P13

Various types of blind rivets, such as open end blind rivets, closed end blind rivets, multi-grip rivets, henglock rivets, tri-fold rivets, high strength blind rivets.

Tel: +86-523-84553022

Fax: +86-523-84567222

Email: Jenny_qian@hfrivet.com

Website: www.chinafastenerinfo.net/vip/28123, www.hfrivet.com



LeeSheng Hardware Screw Mould Factory

Assorted screws molds, like cold heading molds and multi-stroke special molds.

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82003123, 87333456, 82138066

Fax: +86-769-82079088, 82036166

Email: ls mould168@126.com

Website: www.chinafastenerinfo.net/vip/38299, www.lscoy.com



Jinglefast Industrial Co., Ltd.

Hex bolts, hex cap screws, hex nuts, carriage bolts, hex lag screws, threaded rods, hex nuts with stamping products, flat washers and spring lock washers.

Tel: +86-574-89020185, +86-573-86197573

Fax: +86-574-89020180

Email: jg@jgfastener.com

Website: www.chinafastenerinfo.net/vip/49243, www.jgfastener.com



Nanjing Flybear Hardware Products Co., Ltd.

Fasteners, ISO9001:2008 and TS16949 certified.

Tel: +86-25-52758402

Fax: +86-25-52758408

Email: majinsuo@18luosi.com

Website: www.chinafastenerinfo.net/vip/57719, www.fbr99.com



Kunshan Zhonggu Precision Hardware Co., Ltd.

Stainless steel bolts, nuts, washers, etc.; high strength alloy steel products: socket head cap screws, hex bolts, set screws, shoulder screws; high-pressure bolts of American standard.

Tel: +86-512-57175387, 57826171, 57826172

Fax: +86-512-57175486

Email: kszg@chnhardware.com

Website: www.chinafastenerinfo.net/vip/39121, www.chnfastener.com



Ningbo Beilun Congfeng Machinery Co., Ltd.

Fastener machines.

Tel: +86-574-86907006, +86-13396685588,

15305844680

Fax: +86-574-86900620

Email: cf@nbcfx.com, wwwcom1104@126.com, cf@nbcfx.com

Website: www.chinafastenerinfo.net/vip/24606, www.nbcfx.com



Ningbo Chunli High Strength Fasteners Factory

All kinds of high strength bolts, standard components and non-standard bolts.



Tel: +86-574-86533332, +86-13777017677,
13486676666
Fax: +86-574-86532290
Email: 472164641@QQ.com
Website: www.chinafastenerinfo.net/vip/19671, www.chli.com.cn

Ningbo Lingqi Hardware Industrial Co., Ltd.

Wheel nuts & bolts, eye bolts, flange nuts & bolts and various cutting & non-standard parts as per customers' drawings.



Tel: +86-15867328896, 13858221397
Fax: +86-574-88660602
Email: 70128336@qq.com
Website: www.chinafastenerinfo.net/vip/53316, http://ryjxpi.damuzz.com

Ningbo Economic & Technical Development Zone Yonggang Fasteners Co., Ltd.

Pan head square neck carriage bolts in standards of DIN, BS, IFI, AS, hex bolts, guardrail bolts, flange bolts and other special bolts.



Tel: +86-574-88483298, 88352188
Fax: +86-574-88483288, 86232077
Email: nbyg@cnyonggang.com
Website: www.chinafastenerinfo.net/vip/1405, www.cnyonggang.com

Ningbo Taida Fastener Manufacture Co., Ltd.

Threaded rods, hex bolts, hex nuts, double-end stud bolts, stud bolts, heavy hex bolts, high strength hex bolts, high strength bolts, blind rivet nuts.



Tel: +86-574-89088921
Fax: +86-574-87261267
Email: luximex@tdfasteners.com
Website: www.chinafastenerinfo.net/vip/79986, www.nbtaida.com

Zhejiang Wanying Henghui Thread Technology Co., Ltd.

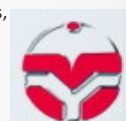
Design and manufacture customized high-precision, high-tensile, thread rolling dies.



Tel: +86-13282288850
Fax: +86-574-88657903
Email: sales@nbtools.net
Website: www.chinafastenerinfo.net/vip/75238,
www.cnwanying.com

Ningbo Tongna Machinery Technology Co., Ltd.

Wheel bolts, flange bolts, tire nuts, flange nuts, square nuts, hex nuts, welding nuts, nylon self-locking nuts, stamping parts and so on.



Tel: +86-574-65179890, +86-13586752625
Fax: +86-574-65175666
Email: 252357719@qq.com
Website: www.chinafastenerinfo.net/vip/1372,
www.fhtongyong.com/en/about.asp

Ningbo Liheng Fastener Co., Ltd.

High strength bolts, nuts, high strength bolts with large hexagon head for steel structures, high strength double end studs, etc.



Tel: +86-310-6657366, 6668311, +86-13313207366,
13313209266
Fax: +86-310-6668311
Email: 13313207366@163.com
Website: www.chinafastenerinfo.net/vip/99854

Ningbo Xueyin Aluminum Industry Co., Ltd.

Aluminium alloy wire series, aluminium alloy bar series, aluminium welded wire series, aluminium hollow tube series, special profiled series, etc.



Tel: +86-574-65179890, +86-13586752625
Fax: +86-574-65175666
Email: 252357719@qq.com
Website: www.chinafastenerinfo.net/vip/19726, www.chinaxueyin.com

Ningbo Yinzhou Zhenhua Stamping Co., Ltd.

DIN6797, DIN6798, DIN137, DIN9250, DIN6796, DIN7967, DIN432, NFE25-511, DIN2093, flange, cold stampings, stainless steel stampings, car accessories stampings, and progressive mold stampings, metal stampings, non-standard stampings.



Tel: +86-574-88400330

Fax: +86-574-88400068

Email: zhenhua@zjzhenhua.com

Website: www.chinafastenerinfo.net/vip/29142, www.zjzhenhua.com

Qifeng Precision Industry Sci-Tech Corp.

Manufacturer of railway fasteners, special fasteners, standard fasteners, aerospace fasteners, automotive fasteners, nuclear fasteners, stampings, welded hardware, turning parts.



Tel: +86-573-86851456

Fax: +86-573-86851478

Email: sales@qfjg.com.cn

Website: www.chinafastenerinfo.net/vip/5979, www.qfjg.com.cn

Ningbo Zhonghai Fastener Manufacturing Co., Ltd.

Threaded rods, external hex bolts, hex nuts.



Tel: +86-574-86531908, 86535895

Fax: +86-574-86531779

Email: zhjgj1234@163.com, 85483940@qq.com

Website: www.chinafastenerinfo.net/vip/37410

Renqiu Zhenfang Cemented Carbide Mold Co., Ltd.

Cemented carbide molds.



Tel: +86-15031701966, +86-17732488848

Fax: +86-317-2671463

Email: 295398399@qq.com

Website: www.chinafastenerinfo.net/vip/92580

NYLOK®-China

NYLOK®, precote®, 3M®, LOCTITE®, NYCOTE®.



Tel: +86-512-50116888, 57700888,
+86-15190138029

Fax: +86-512-57700988, 50119888

Email: tslg.ks@com.cn

Website: www.chinafastenerinfo.net/vip/15686, http://tslg.com.cn

Ruian City XinTai Fastener Co., Ltd.

All kinds of fasteners including washers, retaining rings and others fasteners, circlips for shafts, circlips for hole, wave washers, teeth washers, spring washers.



Tel: +86-577-65350012

Fax: +86-577-65366030

Email: xtjgj@126.com

Website: www.chinafastenerinfo.net/vip/3500, www.xtjgj.com

P19

Jiaxing Oulai Hardware Technology Co., Ltd.

Hex head self-drilling screws, hex head tapping screws, drywall screws, chipboard screws, and other kinds of fasteners used in industrial steel structure.



Tel: +86-13588247338, +86-13456211822

Fax: +86-573-86862922

Email: oulilinyun@163.com, 1003473196@qq.com

Website: www.chinafastenerinfo.net/vip/52481, www.jxolwj.com

P14

Ruian Huilida Metal Products Co., Ltd.

Washers, springs, snap rings and cotter pins.



Tel: +86-577-65261991, 65261997,
+86-13967792101

Email: valia@chinahuilida.com,
info@chinahuilida.com

Website: www.chinafastenerinfo.net/vip/16959, www.chinahuilida.com

Ruian Jinfeng Standard Parts Manufacturing Co., Ltd.

Standard fasteners, stamping parts, motor parts, automotive fasteners, copper and copper alloy fasteners.



Tel: +86-577-66071227
Fax: +86-577-65278217
Email: asha188@163.com
Website: www.chinafastenerinfo.net/vip/24574, www.au8848.com

Ruian Yongjiu Standard Fastener Factory

Spring washers, wave spring washers, curved single coil spring lock washers, single coil spring lock washers heavy type, spring lock washers for washer assemblies, copper spring washers, stainless steel spring washers, flat washers, stamping, etc.



Tel: +86-577-65291777, +86-13758777818
Fax: +86-577-65268838
Email: info@yongjiuchina.com
Website: www.chinafastenerinfo.net/vip/43449, www.yongjiuchina.com

Rui'an Mingbo Stainless Steel Standard Parts Co., Ltd.

Stainless steel hex and hex socket bolts, flange/hex Phillips screws, spring washers, cotter pins, threaded rods, high strength hex socket bolts with Grade 12.9, custom-made non-standard parts.



Tel: +86-577-65201535, 65216535, +86-13705781997
Fax: +86-577-65205178, 65921077
Email: 702125547@qq.com
Website: www.chinafastenerinfo.net/vip/52075

Ruian Zhirui Auto Parts Co., Ltd.

1. Washers: lock washers internal teeth, lock washers external teeth, knurling washers, disc springs, grounding gaskets, curved washers, wave washers, tab washers, etc.
2. Circlips: circlips for hole, circlips for shaft, E rings, etc.



Tel: +86-577-65326221, +86-13506579669
Fax: +86-577-65329297
Email: 38209839@qq.com
Website: www.chinafastenerinfo.net/vip/84002

Ruian People's Standard Parts Co., Ltd.

Circlips, washers, fasteners.



Tel: +86-577-65365502
Fax: +86-577-65381138
Email: 312848037@qq.com
Website: www.chinafastenerinfo.net/vip/97327

Rui'an Zhufeng Standard Parts Co., Ltd.

1. GB fastening; 2. DIN fastening; 3. punching parts; 4. car punching parts; 5. insulated washers (plastic fastening).



Tel: +86-577-65365630
Fax: +86-577-65393630
Email: zf90000@126.com
Website: www.chinafastenerinfo.net/vip/18110, www.cn-washer.com

Rui'an Xinte Stamping Parts Co., Ltd.

Disc springs, wave washers, retaining rings E type, gaskets, bearing clamps, retaining rings for shaft, retaining rings for bores, automotive accessories.



Tel: +86-15167706826
Fax: +86-577-65365758
Email: raxinte@163.com
Website: raxinte.164580.com

SamChang Machinery Industrial

High speed screw thread rolling, high speed screw heading machines, high speed screw end cutting machines.



Tel: +86-595-86882839
Fax: +86-595-86899839
Email: paul@sam-chang.com
Website: www.chinafastenerinfo.net/vip/50437, www.sam-chang.com

SHANGHAI PRIME FASTENERS CO., LTD.

Shanghai Prime Fasteners Co., Ltd. is a state-owned enterprise and the largest professional fasteners manufacturer and exporter in China. The manufacturing base covers an area of 83,000 square meters, including bolt forming, heat treating, plating, packing and inspection center. It can provide over 50,000 sizes fasteners including DIN, ASTM and GB standard. The stock volume has exceeded 10,000 tons. Welcome to our company for discussing and visiting.



Tel: +86-21-63177707 Fax: +86-21-63178909
Email: export@sfiec.com Website: www.sfiec.com

Shanghai Jiegu Metalwork Co., Ltd.

Various high quality GB, ANSI, JIS, DIN standard and non-standard fasteners.



Tel: +86-21-69156090, 39907320, +86-13681936276
Fax: +86-21-69156757
Email: willen8457@163.com
Website: www.chinafastenerinfo.net/vip/119, www.sh-jiegu.com

Shanghai Aflon Metal Coating Co., Ltd.

Zinc flake Coating, Atotech, Magni surface treatment, metal processing.



Tel: +86-21-39198868
Fax: +86-21-39901858
Email: dacromet@vip.163.com
Website: www.chinafastenerinfo.net/vip/49444, www.aflon.com.cn

Shanghai Jingtuo Mould Manufacture Co., Ltd.

Cold-forging tungsten steel moulds, comprehensive moulds for cold-forging machines, tungsten steel plating rods, outside knives.



Tel: +86-13002127000
Fax: +86-21-69177346
Email: shjtmould2008@163.com
Website: www.chinafastenerinfo.net/vip/15345

Shanghai ChunLi Fastener Co., Ltd.

L type foundation bolts, T type bolts and nuts, standard fasteners, metro bolts, high strength bolts & nuts and washers, expressway guardrail bolts and nuts, concrete bifurcation pillow bolts, non-standard screws, hex socket cap bolts.



Tel: +86-310-5133686, 6894851, +86-13473017208, 18132207265
Fax: +86-310-6894851
Email: 825125170@qq.com
Website: www.chinafastenerinfo.net/vip/44826

Shanghai Kingpluse Industry Co., Ltd.

Bolts, nuts, wood screws, machine screws, self-tapping screws, spring washers, flat washers, anchors, etc. according to DIN, ANSI, BS and JIS standards.



Tel: +86-21-57733852
Fax: +86-21-57736953
Email: sales@kp-industry.com
Website: www.chinafastenerinfo.net/vip/91270, www.kp-industry.com

Shanghai Jianfeng Hardware Products Co., Ltd.

Stainless steel standard and non-standard fasteners. Standards: metric fastener standards, IFI, BS. Materials: 201, 304, 302, 321, 316, 316L (materials of Shanghai Baosteel). We can also process non-standard fasteners to meet the demand of customers.



Tel: +86-21-61174091
Fax: +86-21-61174791
Email: jfluosi@163.com
Website: www.chinafastenerinfo.net/vip/33986, www.jfluosi.com

Shanghai Shangdian Washer Co., Ltd.

Cover

All types of washers, standard parts, flat washers, stamping parts, deformed punched pieces.



Tel: (factory) +86-21-57317386, 57317385;
(office) +86-21-64802072
Fax: (factory) +86-21-57321201; (office) +86-21-64802072
Email: (factory) wyy@shwasher.com, (office) wendysun@shwasher.com
Website: www.chinafastenerinfo.net/vip/9444, www.shwasher.com

Shanghai Welfast Enterprise Co., Ltd.

Bolts, nuts, washers, and threaded rods covering 4 series and 30 categories. Materials involve carbon steel, alloy steel, stainless steel, etc.



Tel: +86-21-62442081
Fax: +86-21-62447564
Email: sales@welfast.com
Website: www.chinafastenerinfo.net/vip/885, www.welfast.com

Shenzhen Shendingsheng Hardware Products Co., Ltd.

Rivets, male female screws, step screws, non-standard screws, turning parts.



Tel: +86-755-28179975, 28179976
Fax: +86-755-28179977
Email: ds@szdingsheng.com
Website: www.chinafastenerinfo.net/vip/51701, www.szshendingsheng.com

Shanghai Yi Er Lian Fastener Technology Co., Ltd.

Locking screws, anti-loose screws.



Tel: +86-13585977342
Fax: +86-21-58221227
Email: 2567762213@qq.com
Website: www.chinafastenerinfo.net/vip/80049

Sichuan Aoxin Fastener Manufacturing Co., Ltd.

High-strength fasteners, bolts, nuts and screws according to GB, DIN, JIS, BS, ANSI standards. Custom non-standard fasteners are also available.



Tel: +86-28-38862609
Fax: +86-28-38862609
Email: aoxin@scaoxin.com
Website: www.chinafastenerinfo.net/vip/4983, www.scaoxin.com

Shanghai Yueguan Hardware Co., Ltd.

Spring washers, saddle-shaped spring washers, square taper washers, retaining rings for shafts, retaining rings for bores, etc.



Tel: +86-21-33733488, +86-13671896397
Fax: +86-21-33732422
Email: yueguan.bill@foxmail.com
Website: www.chinafastenerinfo.net/vip/74050, www.yueguanwj.com

Sijin Intelligent Forming Machinery Co., Ltd.

P8, 9

Bolt formers, nut formers, part formers, 1-die 2-blow machines, thread rolling machines.



Tel: +86-574-88365336
Fax: +86-574-88352516
Email: sijinchina@machinesijin.com
Website: www.chinafastenerinfo.net/vip/43714, www.machinesijin.com

Shenzhen Langgu Precision Hardware Co., Ltd.

Cold forged self-clinching nuts, spot welding studs, automatic lathe parts, CNC precision hardware, etc.



Tel: +86-755-27268196, +86-13692138358
Fax: +86-755-27268896
Email: sz_langu@163.com
Website: www.chinafastenerinfo.net/vip/87880, www.szlangu.com

Sunta Hardware Co., Ltd.

Garage door fasteners, hex nuts, flange nuts, nylon lock nuts, domed cap nuts, spring nuts, washers, anchors, bolts, screws, special hardware, etc.



Tel: +86-21-58903118
Fax: +86-21-58956583
Email: sales@sunta.biz
Website: www.chinafastenerinfo.net/vip/11978, www.sunta.biz

Suzhou Ruihe Hardware Co., Ltd.

Stainless steel studs, nuts, hex bolts, hex socket bolts, eyebolts, various non-standard fasteners.



Tel: +86-512-67286697
Fax: +86-512-67286770
Email: szruihe@ruihe.cn
Website: www.chinafastenerinfo.net/vip/12098

Taicang Shuoxing Metal Products Co., Ltd.

Carbon steel spheroidizing annealing wire, alloy steel spheroidizing annealing wire, rivet wire, bright wire.



Tel: +86-512-53296187
Fax: +86-512-53296365
Email: suoxingwire@163.com
Website: www.chinafastenerinfo.net/vip/97065, www.sxsteelwire.com

Suzhou Shangyu Fastener Manufacturing Co., Ltd.

Stainless steel standard screws, chipboard screws, hexagonal screws, hexagonal cross washer face screws, T-bolts, carriage bolts and other special screws.



Tel: +86-15506202304, +61-420 403 488
Fax: +86-512-65838016
Email: 1033960527@qq.com, 2936123478@qq.com
Website: www.chinafastenerinfo.net/vip/68519

Taiwan Huihung Industry Co., Ltd.

Screw heading machines, multi-task screw molding machines (two-die three-stroke, three-die three-stroke, four-die four-stroke), riveting machines, rivet machines and circular cutting type hollow riveting machines.



Tel: +86-512-65990795, 65990796, 65990797, +86-13255195012
Fax: +86-512-65990798
Email: szhh65990795@163.com
Website: www.chinafastenerinfo.net/vip/43741, www.hhlsjx.com

Suzhou TingJing Precision Hardware Co., Ltd.

Standard and non-standard nut, roller, fastener and multi-stage tungsten steel molds.



Tel: +86-512-65047603, 65045805, +86-18915557523
Fax: +86-512-65043023
Email: qin_liu5@163.com
Website: www.chinafastenerinfo.net/vip/20722, http://szdjjm.iwopop.com

Tianjin Fine Hardware Co., Ltd.

ASTM A193 B7 B7M B8 B8M B16, ASTM A320 L7 L7M double-end bolts, ASTM nuts, Grade 5/8 hex screws, 0#-12# machine screws, alloy steel screws, stainless steel screws, electronic screws, alloy screws, etc.



Tel: +86-13821422700
Fax: +86-22-87913760
Email: tjfine@163.com
Website: www.chinafastenerinfo.net/vip/6522, www.tjfine.com

Taicang Jincheng Hui Machinery Co., Ltd.

Imported tungsten steel screw punches, punch rivet tungsten steel welding rods. Hexagonal and a variety of shapes.



Tel: +86-512-53231618
Fax: +86-512-53231617
Email: taicangjch@126.com
Website: www.chinafastenerinfo.net/vip/67880

Uni-Protech Fasteners (Suzhou) Co., Ltd.

Precision turning parts, engine parts of lawn mower, parts for automotive industrial, stamping parts, prevailing torque lock nuts, special components with complexly shaped, slotted nuts, heavy duty wheel nuts, wheel lug nuts, construction fasteners, etc.



Tel: +86-512-68361603
Fax: +86-512-68361606
Email: eva@mail.uni-protech.com.tw
Website: www.chinafastenerinfo.net/vip/110180, www.uni-protech.com.tw

Wenley Trading Co., Ltd.

GLEITMO dry solid film lubricants for fastener and automotive part industries. FUCHS specialty lubricants. Electroplating chemicals.



FUCHS-Authorized Distributor

Tel: +86-423227553, +86-512-53597212

Fax: +86-512-53597211

Email: support@gleitmo-fuchs.com

Website: www.chinafastenerinfo.net/vip/4937, www.gleitmo-fuchs.com

Wenzhou Guangquan Standard Component Manufacturing Co., Ltd.

Carbon steel combined screws, SUS 304 stainless steel combined screws, high strength combined screws and GB 6560 triangular screw series.



Tel: +86-577-86522777

Fax: +86-577-86505188

Email: 2881376839@qq.com

Website: www.chinafastenerinfo.net/vip/42148

Wenzhou Bangxin Fastener Co., Ltd.

Bolts, nuts, screws, pins, rivets and non-standard cold forged parts.



Tel: +86-577-86500898

Fax: +86-577-86500828

Email: sales@salesfastener.com

Website: www.chinafastenerinfo.net/vip/37547, www.bxjgj.com

Wenzhou Jinsheng Fastener Co., Ltd.

Nylon insert lock nuts, BS lock nuts, hexagon nuts with flange, wing nuts, flange nuts, slotted nuts, acorn nuts, cap nuts, weld nuts and non-standard nuts.



Tel: +86-577-86352209

Fax: +86-577-86356103

Email: jsjgj@wzjinsheng.com, ally@wzjinsheng.com

Website: www.chinafastenerinfo.net/vip/14028, www.wzjinsheng.com

Wenzhou Boyu Machine Co., Ltd.

Multi-station bearing type cold heading forming machines, multi-station extended copper sleeve type cold heading forming machines and large-scale cold extrusion forming machines.



Tel: +86-15888276565, +86-577-86700881

Fax: +86-577-86700883

Email: zhanyu@wz-zhanyu.com

Website: www.chinafastenerinfo.net/vip/37485, www.wz-zhanyu.com

Wenzhou Kexingtong Fastener Co., Ltd.

Square nuts, hex flange bolts, wing nuts, non-standard screws, tapping screws, etc.



Tel: +86-577-86500901

Fax: +86-577-86565090

Email: 348380714@qq.com

Website: www.chinafastenerinfo.net/vip/86263

Wenzhou City Ouhai Xianyan Gexin Standard Accessory Factory

Cross recess head screws, square head bolts, stud bolts, wave washers, E-rings, axle clamps, circlips for shaft, circlips for hole, rivets, all kinds of standard and non-standard fasteners.



Tel: +86-577-85300777, +86-13806852107

Fax: +86-577-85315277

Email: xianyangexin@163.com

Website: www.chinafastenerinfo.net/vip/48985

Wuxi Anshida Hardware Co., Ltd.

P1

Open end blind rivets, closed end blind rivets, multigrip type blind rivets, peel type blind rivets, grooved type blind rivets, hammer drive rivets, color-painted blind rivets, monobolt blind rivets, H-lock blind rivets, bulb type blind rivets, rivet insert nuts, rivet Studs.



Tel: +86-510-88762491

Fax: +86-510-88763742

Email: service@anshida.com

Website: www.chinafastenerinfo.net/vip/856, www.anshida.com

P12

Yixing City Jufeng Machinery Co., Ltd.

Screw molding machines, cold forged molding machines.

Tel: +86-510-87868816, +86-13806150656

Fax: +86-510-87868815

Email: jf@jf-machine.com, 121422822@qq.com

Website: www.chinafastenerinfo.net/vip/45143, www.jf-machine.com



Yuyao Yuxin Fastener Systems Co., Ltd.

Sleeve anchors, wedge anchors, drop in anchors, chemical anchors, hex coupling nuts, round couplings, spring toggles, gravity toggles, shield anchors, tire wire anchors, nylon hammer drive anchors, nylon anchors, other anchors, sheet metal & stamping products.

Tel: +86-574-62938700, +86-13967852497

Fax: +86-574-62938308

Email: lisaliu@cosmosye.com

Website: www.chinafastenerinfo.net/vip/2484, www.cosmosye.com



Yongnian County Tianbang Fasteners Co., Ltd.

Bolts, nuts, flat washers, spring washers, thread rods, anchor bolts, self drilling screws, hex bolts.

Tel: +86-18803303309

Email: karryyan@hbtbbs.com

Website: www.chinafastenerinfo.net/vip/45489, www.hbtbbs.com



Zhejiang Bullet Fastener Co., Ltd.

Nylon insert lock nuts, cap nuts, flange nuts, flange lock nuts, hex nuts, fittings according to DIN, ANSI, GB, JIS, BS and other non-standard fasteners.

Tel: +86-577-85859778

Fax: +86-577-85859779

Email: zjbullet@hotmail.com, zjbullet-billy@hotmail.com, zjbullet-jason@hotmail.com

Website: www.chinafastenerinfo.net/vip/2009, www.bulletnut.com



P44

Yuyao No.2 Standard Fastener Factory

Eyebolts.

Tel: +86-15306621777, +86-574-62003860, 62003777

Fax: +86-574-62003980

Email: ruanlifei@biaoer.com

Website: www.chinafastenerinfo.net/vip/2261, www.biaoer.com



Zhejiang Chuangxin Standard Fasteners Factory

Bolts from M3 to M20, nuts from M4 to M24, pins, snap rings, etc.

Tel: +86-577-85220196, 85232611, +86-13806803328

Fax: +86-577-85229598

Email: zjchuangxin@sina.com

Website: www.chinafastenerinfo.net/vip/37498



P5

Yuyao Xintai Hardware Co., Ltd.

Established in 2005, we produce various anchors. ISO9001 certified. Factory area: 8000 square meters. Monthly capacity: 50 containers. We have 120 employees, including service team of 30 people. Annual sales amount: 15 million dollars. Our products are exported to Europe, America, Oceania, Southeast Asia. We have two branch offices now.

Tel: +86-17705846106, +86-18967826379

Fax: +86-574-62020898, 62020910

Email: sales01@xtanchor.com, sales08@xtanchor.com

Website: www.chinafastenerinfo.net/vip/14295, www.xtanchor.com



Zhejiang Howls Auto Parts Co., Ltd.

Wheel nuts, long nuts, flange nuts, hex nuts, cap nuts, nylon insert lock nuts, welded nuts, etc.

Tel: +86-577-86001630, +86-13567784145

Fax: +86-577-86001620

Email: alex@wzhowl.com

Website: www.chinafastenerinfo.net/vip/113337, www.wzhowl.com



Zhejiang Jiancai Machinery Co., Ltd.

Thread rolling machines, heading machines.

Tel: +86-573-84775599
Fax: +86-573-84775579
Email: 119559015@qq.com
Website: www.chinafastenerinfo.net/vip/4272,
www.jiancai.com.tw



Zhejiang Sanlin Metal Products Co., Ltd.

Brass, carbon steel, stainless steel nuts, bolts, washers and other special-shaped pieces.

Tel: +86-13868884825
Fax: +86-573-84806855
Email: sanlin@sanlin.cn
Website: www.chinafastenerinfo.net/vip/80522,
www.sanlinmetals.com



Zhejiang Kahuan Technology Co., Ltd.

Circlips, washers, springs, snap rings, etc.

Tel: +86-577-85229666
Fax: +86-577-85231999
Email: bingru.jiang@zjkhkj.com
Website: www.chinafastenerinfo.net/vip/26821,
www.zjkhkj.com



Zhejiang Yeswin Machinery Co., Ltd.

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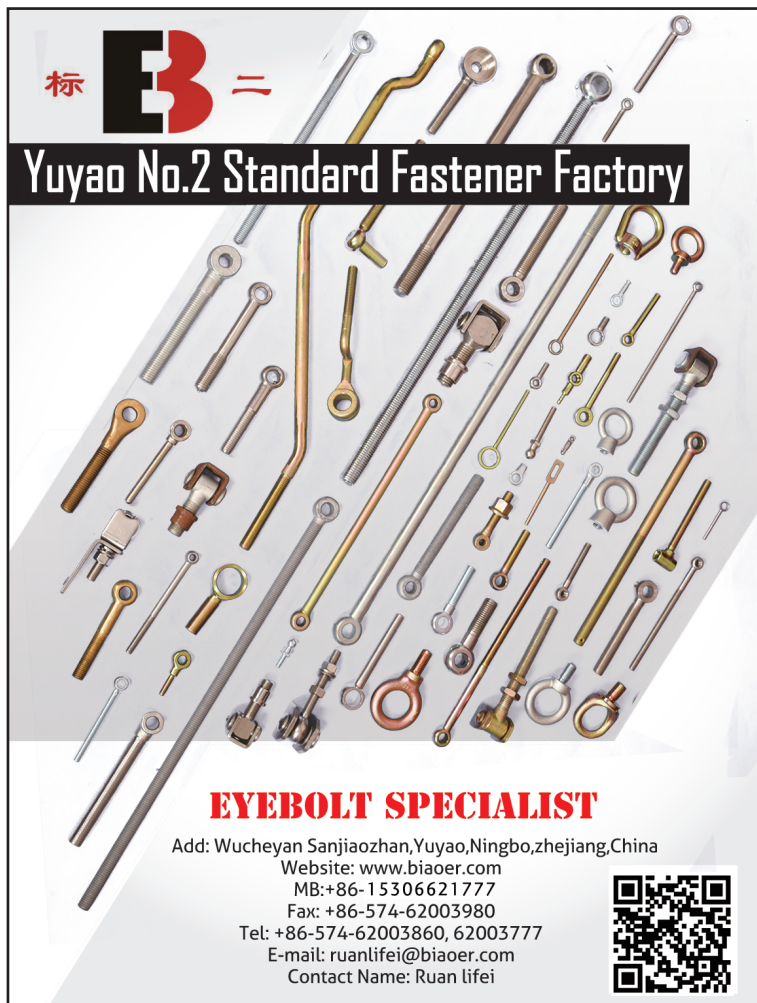
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China Fastener Export Analysis for January-February 2023

According to the statistics from China customs, from January to February 2023, the export volume of China fasteners was 631,262 tons, a decrease of 179,148 tons compared with the same period in 2022, a year-on-year decrease of 21.9%.

The export value was 1,753.538 million US dollars, a decrease of 229.97 million US dollars compared with the same period in 2022, a year-on-year decrease of 11.3%.

The average price of China fastener exports during January-February 2023 was 2,800 USD/ton, compared with 2,400 USD/ton during January-February 2022.

In February 2023, the export volume of China fasteners was 211,777 tons, a decrease of 55,071 tons compared with the same period in 2022, a year-on-year decrease of 20.3%.

The export value was 594.146 million US dollars, a decrease of 80.711 million US dollars compared with the same period in 2022, a year-on-year decrease of 11.4%; the average export price was 2,800 US dollars/ton. ♦

China's First Aluminum Alloy Fastener Wire and Bar Project Runs Smoothly

China's first aluminum alloy fastener wire and bar project was completed and put into production at Northeast Light Alloy Co., Ltd. on February 9. After trial production, the project goes smoothly and can fully meet the expected goals and design requirements.

Since 2021, Northeast Light Alloy has undertaken a number of national research and development projects on wire and bar for fasteners. At the same time, taking advantage of the opportunity of national scientific research tasks, it has added key supporting equipment for fastener production lines to further improve wire equipment capabilities and open up new markets and profit growth points. The project has a total of 16 sets of equipment, so that the mass production can be achieved.



From now on, China can fully guarantee the supply of aluminum for various fasteners required in the manufacture of aerospace vehicles. It is reported that there are more than 700,000 rivets used in the C919 aircraft, and more than 1.05 million rivets used in the CRJ929 aircraft. ♦

China Becomes World's Largest Auto Exporter in Q1, Outpacing Japan



China exported 1.07 million vehicles in the first quarter of 2023, surging by 58.3 percent year-on-year, data from China's General Administration of Customs (GAC) recently revealed, indicating that China has now become the world's largest auto exporter, outpacing Japan.

China's total vehicles export value from January to April stood at 7.67 trillion yuan, up 10.6 percent year-on-year, with car exports now playing important role in the country's foreign trade structure.

The Waigaoqiao Port in Shanghai saw a total of 231,000 vehicles exported to Europe, Southeast Asia, South America and Africa in the first quarter of 2023, accounting for 40 percent of the car exports, China Media Group reported.

In April alone, China exported 376,000 vehicles, surging 2.7 times over the same period in 2022, lifted by strong production capacity of 2.13 million cars in the month, according to the China Association of Automobile Manufacturers.

Exports of new-energy vehicles account for the majority of vehicles being shipped abroad, hitting 100,000 NEVs in April, which is 8.4 times that of the same month in 2022.

Last year, China became the world's second largest car exporter by surpassing Germany. GAC data showed that China exported 3.22 million vehicles in 2022, increasing 56.8 percent year-on-year, while Germany exported 2.61 million vehicles.

Xu Haidong, deputy general engineer of the China Association of Automobile Manufacturers (CAAM), said that China-made vehicles have become more competitive on the global market, benefitting from strict quality control, sophisticated industrial chain and advanced maintenance services. ♦

China's NEV Sales Surge 82% in May



Retail sales of new energy vehicles (NEVs) in China jumped 82 percent year on year in May, latest data from the China Passenger Car Association (CPCA) showed.

A total of 483,000 NEVs were sold in China during May 1-28 period, according to the CPCA.

As of May 28 this year, retail sales of NEVs in China rose 43 percent year on year to a total of 2.33 million units, the CPCA said.

Meanwhile, retail sales of passenger vehicles added up to 7.29 million units, up 2 percent year on year.

The CPCA attributed the growth mainly to sales promotions during May Day holiday and consumption subsidy policies introduced by the central and local governments. ♦

Digital Technologies Empower China's Automobile Manufacturing Upgrade

At a production base of Chinese automaker Geely Auto Group in the southwestern city of Guiyang, Guizhou Province, rows of robotic arms are welding body parts, while driverless cars shuttle back and forth carrying materials.

Digital technologies used in the factories at the base have made car manufacturing more efficient and smarter.

"In the welding workshop of the body factory, this chassis production line is fully automated, and the production efficiency is very high," said Yang Jiansu, director of the body factory at the base, adding that the use of robots effectively reduced the rate of error in the welding process.

At the automobile final assembly factory, equipment controlled by digital systems provides accurate and orderly assembly of parts prepared in advance.

"With the help of intelligent systems, the parts information needed for automobile assembly will be sent to the corresponding equipment suppliers, and they will prepare the required parts in advance," said Yang Mi, director of the assembly factory.

Every car that requires final assembly has an identification system to ensure that the parts needed will not be mismatched, thus realizing lean production, according to Yang.

Thanks to intelligent manufacturing, compared with the traditional production lines, the labor input of the workshops using digital technologies at the base is reduced by 20 percent, with their electricity consumption down by 15 percent. This year, the base plans to reach a production target of more than 200,000 vehicles.

In recent years, China has been actively promoting digital technologies to empower the transformation and upgrading of traditional manufacturing industries, among which the automobile industry has become the epitome.

Often dubbed China's big data hub, the mountainous province of Guizhou is China's first national big data comprehensive pilot zone.

Guizhou takes big data industry as a pillar industry for high-quality development, and an increasing number of big data and other technological projects have boosted its digital economy.

According to a development report on China's digital economy released in 2022, the value-added output of the digital economy in Guizhou increased by 20.6 percent year on year in 2021, and the growth rate was 4.4 percentage points higher than the national average, ranking first in the country for seven consecutive years.



The application of digital technologies has greatly boosted the production efficiency of the workshops. These digital technologies have upgraded the original relatively single quality control means to a more intelligent quality control method, and product quality is now more guaranteed, said Gu Jiangang, deputy general manager of Guizhou Geely Auto Manufacturing Co., Ltd. ♦

China to Expedite Green Development of Industrial Sectors

China is ramping up efforts to promote the green development of its industrial sectors as a step forward in the country's pursuit of low-carbon growth, a senior official said on June 1.

We need to promote green industrial development in an all-round way and make it the focus of new industrialization to create new driving forces of green development, said Xin Guobin, vice minister of industry and information technology, at the 2023 Industry Green Development Conference that kicked off in Guangzhou, south China's Guangdong Province.

The Ministry of Industry and Information Technology will work faster to promote transformations in high-end industrial structure, low-carbon energy consumption, recycling of resources, clean production process, green product supply and digital manufacturing process to accelerate the green development of industrial sectors, Xin said.

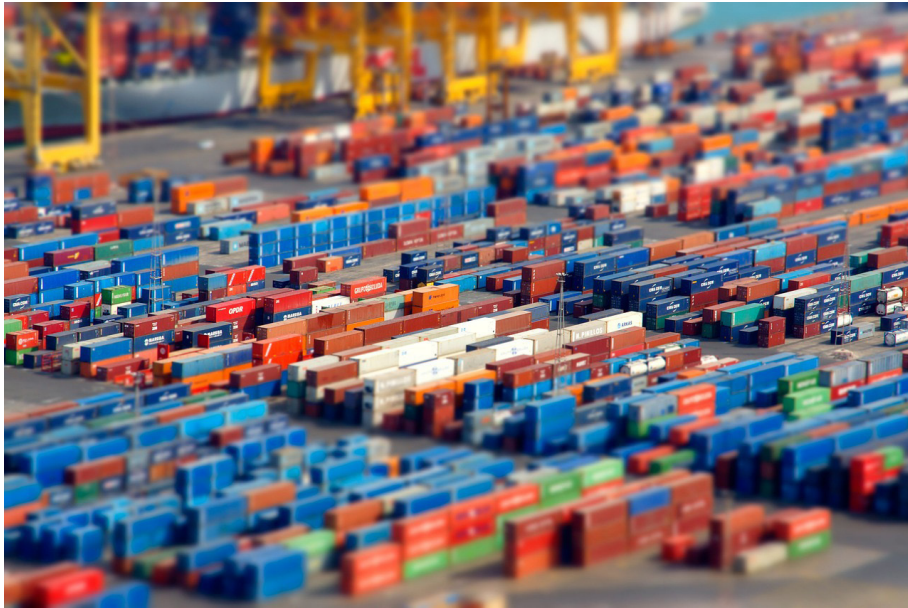


In recent years, China has continuously promoted the green transformation of industrial sectors.

Data released at the three-day conference showed that by the end of April 2023, a total of 3,616 green factories, 267 green industrial parks and 403 green supply chain management enterprises had been established at the national level in China.

For eight consecutive years, the country has consistently held the top position in terms of both production and sales of new energy vehicles worldwide, according to the data. ♦

China's Manufacturing PMI Down in May



The purchasing managers' index (PMI) for China's manufacturing sector came in at 48.8 in May, down from 49.2 in April, data from the National Bureau of Statistics (NBS) showed on May 31.

A reading above 50 indicates expansion, while a reading below 50 reflects contraction.

China's economy still needs to consolidate its basis during the recovery, NBS statistician Zhao Qinghe said.

Among the 21 surveyed sub-sectors, 11 remained in the expansion zone, NBS data showed.

The production index and the new orders index came in at 49.6 and 48.3, respectively.

The PMIs of equipment manufacturing, high-tech manufacturing, and consumer products industries stood at 50.4, 50.5 and 50.8, respectively.

Market sentiment remained stable as the sub-reading for business expectation stood at 54.1, Zhao said.

The data also revealed that the PMI for China's non-manufacturing sector stood at 54.5 in May, remaining in expansion territory. ♦

Chinese Customs Authorities Adopt 16 Measures to Optimize Business Environment

Chinese customs authorities recently said they had launched 16 initiatives to optimize the country's business environment.

The measures will help stabilize social expectations further and boost confidence in foreign trade, according to a press briefing of the General Administration of Customs (GAC).

Efforts have been made to improve the efficiency of cross-border logistics, support the import of advanced technology equipment and special items, promote the import and export of important agricultural and food products, facilitate export tax rebates, enhance the upgrading of trade processing, and optimize the supervision of border trade, according to the GAC.

In 2022, it introduced 23 measures to stabilize foreign trade, providing solid support to bring the scale of China's foreign trade to a record high, according to GAC official Wu Haiping.

In its next step, the GAC will focus on the implementation of the 16 new initiatives, urge local customs offices to introduce supporting measures, devise targeted solutions for difficulties faced by enterprises, and strengthen the implementation of and feedback concerning the policies, Wu said. ♦



China's Economy on 'Strong Footing,' Says UN Economist

China's economy is steadily recovering after the pandemic and remains strong, instilling confidence in its economic future, according to a United Nations economist.

The United Nations in May released a mid-year update of its World Economic Situation and Prospects 2023 report, which projected China's economy will grow 5.3 percent this year, up from the 4.8 percent forecast in January.



One factor behind the upward revision of China's growth is that there has been a strong rebound in retail sales that reflects strong household demand, Hamid Rashid, lead author of the mid-year report, told Xinhua in an interview.

Listing two other factors, he said that China's housing market has stabilized to a large extent. Unlike many other major economies, China has significant fiscal and monetary space available to support economic activities.

"The Chinese economy is on a very strong footing" compared

to others, despite some downside risks, said Rashid, chief of the Global Economic Monitoring Branch, Economic Analysis and Policy Division at the UN Department of Economic and Social Affairs.

He pointed out that one of the risks is weak external demand if countries such as the United States and Europe go into recession or a prolonged period of slow growth, which may affect China's growth beyond 2023.

"But the good news for China is that whenever you see that kind of downward pressure, the fiscal and monetary side can support it and to prop up economic activities," Rashid said.

The Chinese economy has been in excellent standing, and "we are confident about China's near-term economic prospects," he said.

He said that if the current policy mix is maintained and external conditions do not deter it further, "China will be able to maintain its growth trajectory."

China's economic recovery positively impacts many developing nations by increasing export demand. It is also good news for the countries that rely on Chinese tourism. Developed economies stand to benefit because China is a major importer of technology, said the economist.

As the second-largest economy in the world, China has been playing a constructive role in the global economy by being a multilateral player. He said that with China's recovery, international trade would likely recover faster. ♦

Malaysia's Manufacturing PMI Down to 47.8 in May

The seasonally adjusted S&P Global Malaysia Manufacturing Purchasing Managers' Index (PMI) posted 47.8 in May, down from 48.8 in April, S&P Global Market Intelligence said.

The latest reading signaled further challenges for firms in the manufacturing sector, with business conditions moderating to the greatest extent since January, the global research house said in a statement.

According to the statement, the figures for the second quarter so far suggest that Malaysia's gross domestic product (GDP) growth will hold steady around the 5.5 percent year-on-year mark posted in the first quarter.



The latest data, meanwhile, is consistent with official manufacturing data nearing stagnation on a yearly basis.

S&P Global Market Intelligence Economics Director Andrew Harker said Malaysian manufacturers are clearly enduring a challenging time at present, with reports of demand weakness widespread in the latest PMI survey.

Although the latest figures are still representative of growth in official data, he said the sector appears to be going through a soft patch that may last for some months.

Reflecting this, he said firms are being cautious in terms of their spending, pulling back on input purchasing and scaling back employment.

"A degree of spare capacity has become evident, not least in supply chains where delivery times improved to the greatest extent in just over a decade in May," he added. ♦

IMF Maintains Forecast of Malaysia's 2023 Economic Growth Rate at 4.5%

The International Monetary Fund (IMF) reiterated that Malaysia's economic growth will moderate to 4.5 percent in 2023.

The IMF executive board said in a statement that the slower growth is reflecting largely the global headwinds.

It said the external risks include the possibility of an abrupt global slowdown or recession, with an associated spike in global risk premia, capital outflows and sudden stop risks.

Geo-economic fragmentation and geopolitical tensions resulting in a reconfiguration of trade, supply disruptions, and rising input costs, among other disturbances, could also negatively affect Malaysia's growth prospects, according to the IMF.

Malaysia's economic growth reached 8.7 percent in 2022, driven by pent-up domestic demand following the reopening of the economy in April last year and strong export performance.

However, the IMF noted that the recovery remains uneven, with agriculture, mining, and particularly construction sectors remaining below pre-pandemic levels, and inequality has risen during COVID-19. ♦

Vietnam's Manufacturing PMI Extends Contraction in April



The S&P Global Vietnam manufacturing Purchasing Managers' Index (PMI) dipped to 46.7 in April from last month's reading at 47.7, well below the 50.0 threshold that separates growth from contraction.

Factory output and new orders have decreased for the second month in a row and at faster paces than last month, the index data showed.

Companies were reported to find it more difficult to secure new orders at the start of the second quarter as export weakness persisted amid a gloomy global outlook.

Overall new orders fell at a quicker pace from the previous survey period while

new business from overseas markets contracted again during the month but less than in March, the report found.

The decline in both manufacturing output and new orders led to falls in input purchasing activity and staffing levels, data showed.

"Companies are still optimistic that output will rise over the coming year, although sentiment has faded as new orders have dropped off in recent months," said Andrew Harker, Economics Director at S&P Global Market Intelligence.

Amid signs of cost inflation easing for the second consecutive month in April, raw material prices rose at the softest pace in almost three years, making manufacturers start lowering their prices in an attempt to stimulate demand, the report said.

Easing cost pressures and a subdued demand have given manufacturers a little more breathing room, ending a three-month sequence of output price rises with lower charges seen across the consumer, intermediate and investment goods sectors, according to the report. ♦

Vietnam's Auto Sales Fall 25% in April as Demand Slows

Vietnam's auto industry production and sales dropped sharply in April from the previous month, Vietnam News Agency reported, suggesting sluggish demand for vehicles in the Southeast Asian country.

Total vehicle sales in April dropped 25 percent from March to 22,409 units, data from the Vietnam Automobile Manufacturers' Association (VAMA) showed.

Sales by VAMA member manufacturers tumbled 39 percent to 50,017 units in the January-April period from a year ago, while sales of imported cars declined 16 percent to 42,784 units, VAMA said.



Total industry sales for passenger cars in the first four months of the year slumped 30 percent to 92,801 units year on year, of which commercial vehicle sales fell 9 percent, tourism vehicle sales dropped 35 percent and special-purpose vehicle sales slumped 58 percent.

Experts said the sales decrease shows signs of demand slowing down.

"The ongoing challenges on the stock market and real estate market have slowed sales of new cars," Savico, the largest automobile distributor in Vietnam, told local media VnExpress.

Vietnam's stock market has experienced a major correction over the past year and the real estate market has become frozen by interest rate hikes and regulatory tightening.

Vietnam's Truong Hai Auto Corp, which assembles sedans, trucks and buses, led the sales over the past four months, followed by Toyota Motor Corp. ♦

Thailand's Auto Exports Surge Over 43% in April

Thailand's auto exports surged in April due to last year's low comparative base and improved semiconductor supplies, data showed.

The country's finished car exports jumped 43.53 percent year on year in April to 79,940 units, according to the Federation of Thai Industries (FTI).

The April finished car export value soared 49.83 percent from a year earlier, totaling 50.16 billion baht (about 1.45 billion U.S. dollars), due to higher shipments to Asia, Australia, and Middle East markets, according to Surapong Paisitpattanapong, the FTI's automotive industry club vice president and spokesperson.



Auto manufacturers produced 117,636 vehicles in the country last month, edging down 0.13 percent from a year earlier due to lower production for the domestic market, Surapong told a news conference.

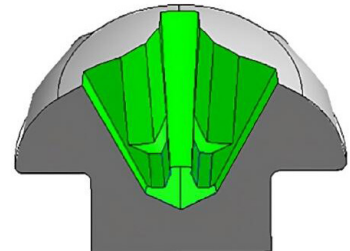
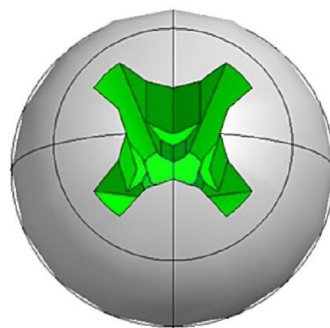
Domestic auto sales fell 6.14 percent year on year last month to 59,530 units, after an 8.37 percent drop in March, due to tighter loans for pickup trucks as interest rates hiked, he said. ♦

Japanese Nitto Seiko Develops Share Cross Drive Recess for Bits of Similar Sizes

In manual fastening and loosening of screws at construction sites and other workplaces, it is time-consuming to change bits for each screw drive recess, which causes users to disassemble and assemble with a bit that does not fit the recess, thus resulting in a collapsed recess.

To solve this problem, Nitto Seiko has developed a "Share Cross" that can be used with bits of similar sizes. "Share Cross" can be suited for various types of fastening and improves work efficiency in manufacturing operations.

"Share Cross" is a small cross-recess with another large cross-recess superimposed on it, so that bits of similar sizes (e.g., #2 or #3) can be used on the same screw head recess. The structure is such that the drive surfaces for transmitting torque can be shared, which achieves the optimum fit of the bit and maximizes the performance. ♦



TAKECOAT-1000 From Japan Boasts 600% Better Performance Over Hot Dip Galvanizing

The new product—"TAKECOAT" developed by TAKENAKA SEISAKUSHO is claimed to take the highest share in the fluorocarbon polymer market globally. It can provide excellent rust and corrosion resistance in harsh environments

such as in the sea and desert. It has 6-times the durability of hot-dip galvanizing as tested in a salt spray test.

TAKECOAT®-1000 has a two-layer structure of fluorocarbon polymer as the upper film and a special under-treatment layer.

Combined with a special treatment technology, the thin films are excellent in corrosion and rust resistance and have high lubricity, suited for fasteners. TAKECOAT has been used on bolts and metal parts used on bridges, insert pipes, marine structures and oil refineries. ♦



Japan Manufacturing PMI Grows in May



The au Jibun Bank Japan Manufacturing PMI was at 50.6 in May 2023, compared with flash data of 50.8 and after a final 49.5 in April.

This was the first growth in factory activity since last October, supported by a recovery in domestic economic conditions. Output rose for the first time since June 2022 and at the fastest rate in a year, and new order increased to a 13-month high.

Meanwhile, employment added the least in 26 months, as backlogs of work fell for the 8th month in a row.

Further, foreign sales dropped, especially to China; and buying levels continued its solid decline since August 2022. The index of supplier's delivery time was above the 50.0 level for the first time in over 3 years.

On the cost side, input price inflation touched its lowest since April 2021, while output prices advanced the least in 3 months. Finally, sentiment was at a 16-month peak, on hopes of a further rebound in the economy and an end of customer destocking. ♦

The following India fastener news is provided by Abhijit Sanghvi, President of Fasteners Association of India.

Sundram Fasteners Announces INR 1,000 Crore Capex Plan for Wind Energy and EV Markets



Sundram Fasteners has planned a three-year INR 1,000 crore capital expenditure (capex) program. The investment will help the company satisfy increased wind energy and electric vehicle (EV) demand. After three years of modest expansion (FY20–FY22), the company resumed its capex cycle in FY23, investing roughly INR 300 crore so far and the remaining INR 700 crore over the following two years.

OEM orders for EV parts from the company's EV business have increased. The company won a six-year contract worth US\$ 250 million (INR 2,050 crore) from a major international OEM, with peak revenue of US\$ 52 million (INR 426 crore) expected for FY26. The US\$ 375 million EV car order book will get INR 300 crore from the anticipated INR 1,000 crore investment package.

Sundram Fasteners wants its non-auto sector, which comprises the wind energy industry, aftermarket, tractor business, and industrial divisions, to account for 50 percent of revenues over the medium to long term to overcome business cyclicity. In FY23, the aftermarket business earned INR 600 crore, with industrial accounting for half. The company is also addressing energy pricing and variable costs. To reduce costs, it intends to use green energy sources and employ captive power suppliers.

Sundram Fasteners MD Optimistic about India's Potential in EV Sector and Inspire More Women in Leadership Roles

Arathi Krishna, Managing Director, Sundram Fasteners, addresses women's rising labor involvement and the obstacles they confront in balancing work and home. She expanded the company's female employment from 1 percent to 10 percent and hopes to reach 20 percent soon. To succeed at work, women need home support, including understanding spouses and workplace creches. She applauds the Indian Government's efforts to empower women leaders, who inspire others in business.

Krishna believes that societal and domestic factors are the true working challenges for women. To manage their personal and professional lives, women need social assistance, including shared obligations and support structures. She explains Sundram Fasteners' export market, which amounts to 35 percent to 40 percent of their revenue, and acknowledges the competitive US and European markets, which require high quality and innovative technology.

She is optimistic about India's electric vehicle (EV) prospects, citing the country's quick adoption of new technology and increased environmental awareness. She expects the government to make EVs more affordable and believes India's EV sector has opportunity for growth. ♦

Rashtriya Ispat Nigam Ltd Highlights Need for Automation in Steel Industry

Recently, Atul Bhatt, Chairman and Managing Director, Rashtriya Ispat Nigam Ltd (RINL), stressed that automation and robotics have huge growth potential. Bhatt said at the virtual launch of RINL's 'Open Challenge Program (OCP) 2.0' that equipment developed by startups will save energy and improve safety, resulting in a speedy return on investment for RINL. He noted that the Government's focus on infrastructure development has made India's steel industry the world's second-largest and fastest-growing.

The OCP 2.0 program, part of the Kalpataru-CoE (Centre of Entrepreneurship) initiatives, aims to select startups specializing in Industry 4.0 technologies. The CoE on Industry 4.0, a joint effort by Software Technology Park of India (STPI), Ministry of Electronics & IT (MeitY), RINL, and the Government of Andhra Pradesh, intends to make India self-sufficient in Industry 4.0 technology.

The CoE will feature an Industrial Internet of Things (IIOT) lab, an Industrial Automation Lab with Artificial Intelligence & Machine Learning (AI & ML), an Augmented Reality and Virtual Reality (AR & VR) lab, another Industrial Automation Lab with Robotics and Drones, and a third Industrial Automation Lab with Robotics and 3D printing. The CoE will incubate 50 physical and 125 virtual startups over five years. RINL, HPCL, NTPC, BARC, HSY, and BHEL will be helped by start-ups and industry mentors. ♦

Sterling Tools Reports 12 Percent Increase in Standalone Net Sales Y-O-Y for March 2023

Sterling Tools Ltd, a manufacturer of high-tensile (HT) cold forged fasteners, has announced its March 2023 standalone quarterly financial results. The company generated net sales of INR 155.10 crore, representing a 12 percent increase over the same time in 2022, when net sales were INR 138.48 crore.

Despite the growth in net sales, the company had a fall in quarterly net profit, which stood at INR 5.26 crore, a 30.84 percent decrease from INR 7.61 crore in March 2022. However, the company's Earnings Before Interest, Taxes, Depreciation, and Amortization (EBITDA) increased 13.69 percent year on year, reaching INR 21.09 crore in March 2023, from INR 18.55 crore in March 2022. The company's earnings per share (EPS) fell to INR 1.46 in March 2023 from INR 2.11 in March 2022.

With variations in financial performance, Sterling Tools' share price has increased dramatically. The company's shares finished at INR 423.30 on the National Stock Exchange (NSE) on May 8, 2023, generating remarkable returns of 69.35 percent over the previous six months and an impressive 214.96 percent over the last 12 months. ♦



Würth Group Donates Half a Million Euros to Earthquake Victims in Turkey and Syria



With an emergency donation of EUR 500,000, the globally operating Würth Group based in Künzelsau, Germany, supports the earthquake victims in Turkey and Syria at the initiative of the Würth family. With this donation, the company aims to make a contribution to providing quick relief and express its solidarity.

EUR 500,000 will be given to UNICEF, which is particularly committed

to the welfare of children and young people and has an international network. It is one of a few relief agencies that are on site in Northern Syria and is preparing relief operations in the country. The Würth Group also supports its employees and their families in the affected regions with numerous emergency measures.

"We are deeply shocked by the tremendous devastation brought by the earthquake in Turkey and Syria. In the current emergency situation, we consider it our humanitarian responsibility to help quickly and effectively. With our donation, we would like to assist those affected in this difficult time. Our sympathy goes out to all of them," Bettina Würth noted, Chairwoman of the Advisory Board of the Würth Group.

The Würth Group has eight companies and more than 900 employees in Turkey.

Würth Group closes 2022 fiscal year with EUR 19.95 billion in sales

The Würth Group, the global market leader in the development, production and sale of assembly and fastening materials, once again proved its competitive strength and stability in the 2022 fiscal year: The globally operating Group based in Künzelsau, Germany achieved new record results. According to the preliminary annual financial statements, the Group's annual sales of EUR 19.95 billion are well above the previous year's figure (2021: EUR 17.06 billion), corresponding to growth of 16.9 percent. Adjusted for currencies, sales grew by 15.1 percent. The operating result rose from EUR 1,270 million in 2021 to EUR 1,500 million in 2022.

"We are operating in difficult economic and political conditions: The war in Ukraine, material and supply shortages, and price increases continue to be challenging. I would therefore like to thank our more than four million customers worldwide for their trust in our services and our suppliers for their cooperative partnership. At the same time, we can rely on the strength of our corporate culture, the solidarity of all employees and, of course, the support of a family business in times of crisis. This gives us the necessary stability," said Robert Friedmann, Chairman of the Central Management Board of the Würth Group.

Electrical Wholesale, Electronics and the Industry Division of the Würth Line are growing above average

The sales volume of the Würth Group in Germany increased to EUR 7.85 billion (2021: EUR 6.94 billion). The Würth companies outside Germany generated EUR 12.10 billion (2021: EUR 10.12 billion).

The Electrical Wholesale unit was particularly successful, reporting growth of 25.0 percent. Service leadership, a very high level of product availability combined with above-average logistics expertise are the reasons for this very good development. In addition, this sector benefited from the renewable energy boom. The Electronics Group, selling passive electronic components, circuit boards and electronic and electromechanical solutions, showed a very strong business development as well, achieving sales growth of 22.5 percent. The Industry Division of the Würth Line also reported above-average sales growth of 20.1 percent.

E-business sales grew by 21.2 percent compared to the previous year, accounting for 20.7 percent of total sales.

Würth Group has a total of 85,637 employees

The Würth Group recruited 2,454 new employees in the 2022 fiscal year. Currently, the Group employs 85,637 people, 43,297 of which work in sales. In Germany, the company has 26,113 employees.

Confident for 2023 despite crises, end of material shortages in sight

According to the German ifo Institute, material shortages in the industrial sector have improved somewhat. In many sectors, bottlenecks are easing. Mechanical engineering and the automotive industry remain the sectors most affected by material shortages. In the construction sector, projects are being cancelled or postponed due to rising construction costs and interest rates. "The current challenges will continue to be an issue in 2023. It remains to be seen how consumer behavior and energy prices will develop, and what impact China's relaxed zero-COVID policy will have on supply chains. Operating in this fragile, interdependent environment will remain a key challenge in 2023. Despite all crises, we will maintain last year's momentum and positive spirit, stay optimistic and act with caution," according to Friedmann. ♦



NORMA Group Closes the 2022 Financial Year with Significant Growth and an EBIT Margin of 8 Percent

NORMA Group stabilized its business at the end of 2022 in the midst of a challenging environment. According to the preliminary figures presented today, the company closed the past financial year with adjusted earnings before interest and taxes (EBIT) of EUR 99.0 million and an adjusted EBIT margin of 8.0 percent.

Group sales were up 13.8 percent year-on-year to EUR 1,243.0 million in financial year 2022 (2021: EUR 1,091.9 million). Positive currency effects, particularly in connection with the US dollar, contributed 6.7 percent to sales growth. Organically, sales grew by 7.1 percent. This growth was driven by NORMA Group's consistent pricing policy in the face of dramatic increases in the cost of materials and intermediate products, a strong final quarter in the European business and continued robust business with water management products in the USA.



CEO Miguel Ángel López Borrego: "The headwinds we faced throughout the past financial year were quite severe at times: drastic increases in the price of materials, uncertainties surrounding energy supplies in Europe, the lengthy and strict corona measures in China and production backlogs at some sites. NORMA Group did a good job overall of holding its own and growing in the face of these multiple obstacles. But we are not satisfied with the result. We want to expand on the momentum from the decisive spurt we had in the fourth quarter. We will use the weeks and months ahead to focus on previously untapped growth potential in the high-margin industrial and water businesses."

Strong fourth quarter result

According to preliminary figures, sales in the fourth quarter showed significant growth of 17.1 percent year-on-year to EUR 302.1 million (Q4 2021: EUR 258.1 million). Organically, i. e. currency-adjusted, sales were up 11.3 percent. At EUR 19.3 million, adjusted EBIT was 7.5 percent higher than in the prior-year period (Q4 2021: EUR 17.9 million). The adjusted EBIT margin of 6.4 percent was slightly below the level of the prior year (Q4 2021: 6.9 percent).

Outlook and other dates

NORMA Group will present the final, comprehensive figures for financial year 2022 with detailed information on the segments as well as information on the sustainability performance indicators and the forecast for the current financial year on March 28, 2023. ♦

LISI Appoints New Chairman

Following LISI's Annual General Meeting of Shareholders, the Board of Directors met today to acknowledge the non-renewal of Mr. Gilles Kohler's mandate as Chairman due to the age limit set by the company's bylaws, and to appoint his new Chairman. After 38 years as a member of the Board of Directors and 24 years as Chairman of the Board, the latter thanked Mr. Gilles Kohler for the immense task accomplished during all these years and expressed his gratitude to him.

To succeed Mr. Gilles Kohler, the Board of Directors has appointed Mr. Jean-Philippe



Kohler as Chairman for the duration of his 4-year term of office. His appointment is effective as of today. Mr. Jean-Philippe Kohler joined LISI Group in 1991 and since 2016 has been the Deputy Chief Executive Officer of LISI Group in charge of Risk Management, Human Resources and Internal Audit.

In addition, the Board of Directors confirmed the renewal of Mr. Emmanuel Viellard's mandate as Chief Executive Officer for a period of 4 years. In order to carry out his mission, Mr. Emmanuel Viellard relies on the LISI Group Executive Committee, which he chairs.

The new governance will continue the deployment of the LISI Group's long-term strategy, which remains focused on innovation and operational excellence. ♦

SKF to Close U.K. Bearing Plant



SKF recently announced a consolidation of its spherical roller bearing manufacturing to secure the long-term competitiveness on the European markets.

The consolidation is also in line with the group's strategy to invest in automation and regionalization, and, accordingly, right-size its manufacturing operations in Europe. Consequently, SKF proposes to cease its bearing manufacturing site in Luton, U.K.

Manufacturing at the site in Luton would be ramped down with a full closure anticipated by the end of 2024. Production is proposed to be moved to SKF's factory in Poznan, Poland.

Aldo Cedrone, Acting President, Industrial Region Europe Middle East and Africa, said, "Although it is a difficult decision to make, this is an important step in securing our long-term competitiveness on the European markets. To ensure that our spherical roller bearing production stays competitive, investments are needed in new machinery and our evaluation showed Poznan is the optimum site for this investment. Our immediate focus is to support our colleagues in Luton."

The Luton factory currently employs approximately 300 people. The proposed activities are subject to consultation with employees and union representatives and SKF is fully committed to engaging with employees and their representatives throughout the consultation process. ♦

U.S. Cutting Tool Orders Up 18% in Q1

The March total was up 15% year-over-year.

March 2023 U.S. cutting tool consumption totaled \$225.6 million, according to the U.S. Cutting Tool Institute and AMT-The Association For Manufacturing Technology.

This total, as reported by companies participating in the Cutting Tool Market Report collaboration, was up 14.6% from February's \$196.9 million and up 14.9% when compared with the \$196.4 million reported for March 2022. With a year-to-date total of \$618.9 million, 2023 is up 18.1% when compared to the same time period in 2022.



These numbers and all data in this report are based on the totals reported by the companies participating in the CTMR program. The totals here represent the majority of the U.S. market for cutting tools.

"While the March data was impressive and most shops remain busy, early indications are showing that Q2 will not continue to perform at this level," said Jack Burley, chairman of AMT's Cutting Tool Product Group and Committee. "The anticipated reduction in demand we thought would not happen until Q3 appears to be sooner than expected. On a positive note, it was good for cutting tool producers to have a great first quarter to build upon."

Chris Chidzik, principal economist at AMT, continued that positive note, saying, "Cutting tool sales in March 2023 were astronomical, contributing to the best first quarter since 2019. Machinery orders have surged in the past two years, but sales of cutting tools had struggled to return to pre-COVID levels. The March 2023 numbers show that machines are starting to hit shop floors, demand for parts remains strong, and materials are available to make them."

The Cutting Tool Market Report is jointly compiled by AMT and USCTI, two trade associations representing the development, production, and distribution of cutting tool technology and products. It provides a monthly statement on U.S. manufacturers' consumption of the primary consumable in the manufacturing process – the cutting tool. Analysis of cutting tool consumption is a leading indicator of both upturns and downturns in U.S. manufacturing activity, as it is a true measure of actual production levels.

Historical data for the Cutting Tool Market Report is available dating back to January 2012. This collaboration of AMT and USCTI is the first step in the two associations working together to promote and support U.S.-based manufacturers of cutting tool technology.

The graph below includes the 12-month moving average for the durable goods shipments and cutting tool orders. These values are calculated by taking the average of the most recent 12 months and plotting them over time. ♦

Fastenal Posts 10% May Sales Increase

Fastenal recently reported a double-digit jump in May sales compared to the same month last year, in part due to an additional business day this time around. The distributor's fastener sales were down slightly compared to the same month last year.

The Minnesota fastener and industrial supply distributor posted \$649 million in May 2023 sales, up from \$589 million in 2022. On a per-day average basis, sales were up 5.2%, climbing from \$28 million to \$29.5 million. Fastenal's U.S. sales were up 4% year-over-year.

The company once again saw sales to its manufacturing customers offset a drop in the non-residential construction segment. Manufacturing sales were up 9.7% on a daily basis, while construction sales fell by 9.5%.



Last month also saw a decline in fastener sales, which were off 0.6% year-over-year. Sales of safety products and other items increased by 6.8% and 9%, respectively.

Fastenal's overall employee headcount was 6.7% higher than at the end of May 2022. ♦

Wesco Announces New 'Innovation Partner Ecosystem'

Wesco International announced an expanded portfolio of services designed to help customers, suppliers and partners navigate an increasingly dynamic global marketplace.

In a world fraught with supply chain challenges, technology convergence and sustainability demands, Wesco's newly expanded capabilities underscore the company's mission to build, connect, power and protect the world.

Complementing Wesco's existing products and services portfolio, the newly expanded capabilities include the formation of an "Innovation Partner Ecosystem"; the expansion of internet of things advisory services; and the opening of a new solutions innovation center in Glenview, Illinois.

"Wesco's innovative digital solutions are another synergy resulting from the transformational combination of Wesco and Anixter and represent a key milestone in achieving our vision of being the best tech-enabled supply chain solutions provider in the world," said Wesco Chairman, President and CEO John Engel. "Our expanded set of services will enable new markets and business opportunities for our suppliers and strategic partners. Our customers will benefit from our scale and global

technical resources to deliver dynamic solutions that drive innovation and together, we will unlock value across our entire ecosystem."

Wesco will partner with our customers, installation partners and manufacturer community globally, to innovate and provide strategies that deliver meaningful return on investment. The newly formed Innovation Partner Ecosystem will work together to develop solutions to help customers achieve aggressive goals around electrification, automation and IoT, grid modernization, security, supply chain consolidation and digitalization. Comprising an impressive group of product and software companies, the consortium currently includes: APC, Arcules, Axis Communications, Belden, Bosch, Cisco Meraki, Commscope, Corning, Crestron, DMI, Eaton, Leviton Manufacturing and Panduit.

Wesco has also expanded its global IoT advisory services. As information technology (IT) and operations technology (OT) come together, customers across every sector are looking to gain real-time, data-driven insights into their businesses.



Through a combination of IT and OT expertise, deployment support, installation enhancement services, broad portfolio of products and supply chain expertise, Wesco and its partners help integrators and end-user customers define a clear path to solving their most important operational challenges by harnessing IoT.

Customers can view these capabilities and experience the power they can bring firsthand at Wesco's Innovation Centers located around the world in the United States, Mexico, Brazil, England and India. In its newest center-of-excellence, located in

Glenview; Wesco will develop, co-innovate and demonstrate technologies and connected solutions from strategic suppliers and its Innovation Partner Ecosystem. ♦

Generational Equity Advises Action Fastenings in Sale to Private Investor

Generational Equity, a leading mergers and acquisitions advisor for privately held businesses, is pleased to announce the sale of Action Fastenings, Inc. to a Private Investor. The acquisition closed December 18, 2020 and details were not disclosed.

Located in Minneapolis, Minnesota, Action Fastenings was founded in 1989 and is a leading distributor of specialty tools and fasteners for the commercial construction industry. With an emphasis on providing exceptional customer service, industry expertise, and a wide and growing product offering, the



Company is recognized as a leader in supplying specialty tools and fasteners in the Minnesota marketplace.

The Company focuses on providing the following products: Fasteners, nuts/bolts/hardware/screws, anchoring/direct fastening products, power tools and accessories, cutting products, construction consumables, firestop/foam/adhesives/tapes, and safety and fall protection products. The Company has over 60 leading suppliers of these products, making it one of the largest distributors of these items in its market.

Generational Equity Executive Managing Director of M&A - Central Region, Michael Goss and his team, led by Senior M&A Advisor, Andrew Byrd, successfully closed the transaction. Senior Managing Director Brian Hendershot established the initial relationship with Action Fastenings.

"The new ownership of Action Fastenings is a perfect match," said Byrd. "Both parties have bright futures, and I am delighted we were able to be a part of making their transaction a success." ♦

AFC Industries Acquires Fastbolt



AFC Industries announced in May that it has acquired South Hackensack, New Jersey-based Fastbolt.

Terms of the deal were not disclosed.

Founded in 1974 by Albert Zaukas, the company has continued to evolve and is now a quality-driven global supply chain management company meeting the needs of an increasingly sophisticated and diversified customer base.

"We have worked hard through the years to build on our father's legacy of taking excellent care of our customers through real partnerships with our employees. It was important to our family that we found a partner that would respect that and build on it," said Fastbolt owner and CEO Glenn Zaukas. "We are excited that Fastbolt will continue to be in the hands of owners who are committed to growing the business the 'right' way."

"We have wanted Fastbolt as part of the AFC family for several years. They were one of the first businesses we reached out to when we launched our acquisition strategy. We are glad that when the time was right for the family to sell the business, they chose us," said AFC CEO Kevin Godin. "Our responsibility to be good stewards of these businesses is important to us and we are confident that together, the future is bright. Bringing these two businesses together makes both stronger in several ways and we look forward to working together to continue to build a legacy of excellence." ♦

NEFCO Acquires Southwest Fastener

NEFECO, a leading specialty supply partner to the professional construction trades, has completed the acquisition of Southwest Fastener, headquartered in Phoenix.

This is NEFCO's eighth acquisition since 2017. The addition of Southwest Fastener expands NEFCO's geographic presence into the Southwest with three new locations in Arizona, New Mexico and Texas.

"Southwest Fastener represents a highly strategic fit for NEFCO, and we could not be more excited to partner with Ken, Mike, Terry and the rest of the great people at Southwest," said NEFCO President & CEO Matthew Gelles. "Southwest Fastener meets two of our most important strategic priorities. First, Southwest Fastener is a focused SHARP® supplier with a very similar product, customer, and end market mix as NEFCO. Second, Southwest Fastener will enable us to expand into new geographies. Growing our western region presence is a strategic priority for NEFCO as we aim to be the number one SHARP and related products supply partner across the country. We are excited to be entering these markets by teaming with such a strong and trusted distributor as Southwest Fastener. We look forward to executing our plans to accelerate growth throughout the western half of the United States in conjunction with the Southwest Fastener team."

Southwest Fastener, established in 1990, is a top supplier of strut channel, hardware, strut fittings and specialty fasteners. The company's team, known as the "Bolt-Heads," is recognized as industry experts with unparalleled product expertise and years of industry experience. Throughout the southwest region, Southwest Fastener is trusted for its reliable services. Over the years, Southwest Fastener has experienced strong growth and currently operates out of three locations: Phoenix, Albuquerque and Dallas.

"The BoltHeads have a bright future ahead as part of the NEFCO team," said Southwest Fastener President Ken Lubbering. "At Southwest Fastener, our team has always been dedicated to providing exceptional service to our customers and end users. It's a core value that has driven our business since day one. We were intrigued by the possibility of partnering with NEFCO, a market-leading SHARP distributor that shares our customer-focused approach. Through this partnership, we'll be able to expand our relationships, product offerings, and services to better serve our customers. We're thrilled to join the NEFCO team and believe that our employees will thrive in their culturally aligned and best-in-class organization. We could not be more excited for the future and look forward to continued success together." ♦



Grainger Named Fortune 100 Best Companies to Work For® in 2023

Grainger, the leading broad line distributor of maintenance, repair and operating (MRO) products serving businesses and institutions, announced its designation as one of the Fortune 100 Best Companies to Work For® in 2023 — the second consecutive year the company received the recognition.

"Each day, the Grainger team is resolute in embracing our purpose — We Keep the World Working® — to serve millions of customers across the globe, and support each other," said D.G. Macpherson, Chairman and CEO. "This recognition is a testament to our efforts to ensure Grainger is a place where everyone can have a fulfilling and meaningful career."

Of Grainger's U.S. team members, 89 percent believe that Grainger is a great place to work, 91 percent feel that management's business practices are ethical and honest, and 94 percent of team members say they feel welcome when they join the company.

To determine the 100 Best Companies to Work For, Great Place To Work® analyzed the anonymous survey responses of more than half a million employees from Great Place To Work Certified™ companies with at least 1,000 workers. Companies also submitted essays describing their efforts to offer generous and innovative support for workers, which were validated against employee survey responses.

Grainger U.S. team members are eligible to participate in a wide variety of benefits designed to address the needs of team members. These benefits include competitive and comprehensive family and individual health coverage, wellbeing support, educational assistance, extended parental leave, an automatic six percent 401(k) company contribution and a three to one team member matching gifts program for qualifying charitable organizations.

The Company was also recognized as one of America's Most Innovative Companies in 2023 by Fortune Magazine and made the lists for FortuneBest Workplaces for Women™ and Fortune Best Workplaces in Chicago™ for 2022. ♦

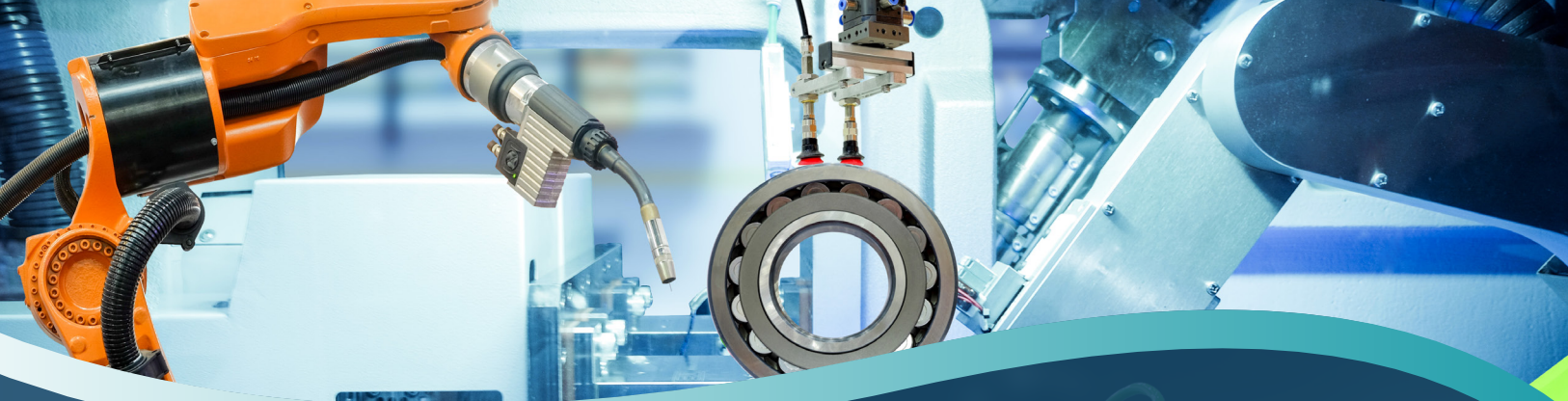


U.S. to Impose 200% Tariff on Russian Aluminum



Aluminum is often used in fuselage, bolts and window & door frames. In a thorough effort to combat Russian circumvention of sanctions, U .S. White House announced a 200% tariff on Russian aluminum and related aluminum products, which has been effective since March 10.

Russian aluminum accounts for about 1/10 of U.S. imports, and buyers range from the automotive to construction industries. The White House said it is planning to extend the sanctions to Russian metals and mining industries, but the move must be carefully planned to minimize the impact on the market. ♦



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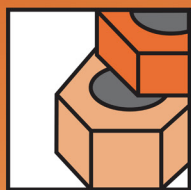


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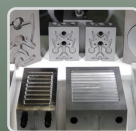
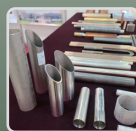
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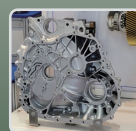
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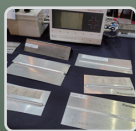
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Fastener Fair Global 2023 Successfully Concluded

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China Fastener Directory distributed onsite



The 9th edition of Fastener Fair Global, International Exhibition for the Fastener and Fixing Industry, kicked off on March 21, 2023 at Messe Stuttgart in Germany.

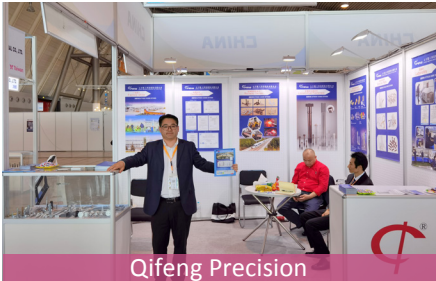
According to the statistics from organizer Mack Brooks Exhibitions Ltd., the 3-day show welcomed around 1000 exhibitors from 46 countries and regions spread across halls 1, 3, 5 and 7 of the exhibition venue, covering a net exhibition space of over 23,230 sqm. Major European exhibiting countries besides Germany were Italy, Turkey, Spain, Great Britain, the Netherlands, Poland, and France. Asian exhibitors mainly came from Chinese Mainland, Taiwan Province of China and India.

Well-known international exhibitors included Albert Pasvahl, Alexander P A A L, Ambrovit, Böllhoff, Brighton Best, Carlo Salvi, CHAVESBAO, Eurobolt BV, F. REYHER, Fastbolt, INDEX

Fixing Systems, Lederer, Norm Fasteners, Schäfer + Peters, WASI, Würth and many more.

As to exhibitors from China Mainland, fastener companies from Haiyan, Jiashan, Hebei and other regions participated in the exhibition in delegation group. Haiyan County organized a group of more than 70 people from 48 companies; Jiashan County organized a group of 63 people from 41 companies; Hebei Province also organized a group of more than 100 people from over 40 companies.

China fastener exhibitors were mainly located in Hall 5 and Hall 7, including Shandong Tengda, BSC, Wenzhou Jinsheng, Foshan Guangqingchang, Yuyao Xintai, Yongnian Tianbang, Aozhan Industrial, Haiyan Booming, Qifeng Precision, Hebei Fuao, Jiashan Yongxin, Zhejiang Sanlin, Dahe, etc.



Qifeng Precision



Haiyan Booming



Yongnian Tianbang



Aozhan Industrial



BSC



Foshan Guangqingchang



Shandong Tengda



Dahe Group



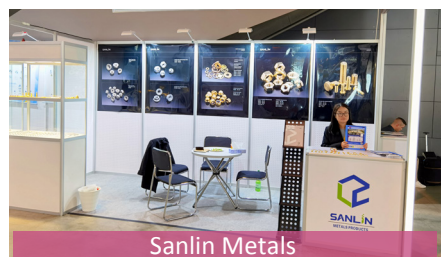
Jiashan Yongxin



Yuyao Xintai



Wenzhou Jinsheng



Sanlin Metals

According to the statistics from organizer, almost 11,000 trade visitors from 83 countries attended the event. Around 72% of all visitors came from abroad. Germany was the biggest visitor country followed by Italy and the United Kingdom. Other major European visitor countries were Poland, France, the Netherlands, Switzerland, Spain, the Czech Republic, Austria and Belgium. Asian visitors mainly came from Chinese Mainland and Taiwan Province of China.

The most important industries visitors came from were metal products, the automotive industry, distribution, the construction industry, mechanical engineering, hardware/DIY retailing and electronic/electrical goods.

The next Fastener Fair Global will take place from 25-27 March 2025 at Messe Stuttgart in Germany. ♦

Recap | Manufacturing World Nagoya 2023 Gathers 480 Exhibitors and 27,500 Visitors



Organized by RX Japan, Manufacturing World Nagoya 2023 was successfully held during April 12-14, 2023, at Portmesse Nagoya, Japan. China Fastener Info participated in the exhibition as official media partner (Booth No. 6-40).

Manufacturing World Nagoya is one of the largest manufacturing trade shows in Central Japan. Digital transformation products and IT solutions, mechanical components and devices, factory facilities and measuring products from all over the world can be found on the show.

Manufacturing World Nagoya 2023 consisted of 9 specialised technology shows, namely DMS, M-Tech, FacTex, AeroTech, AM Japan, Alo Tex, Measure Tech, MDX, and ODM.

This edition was arranged in 2 exhibition halls, gathering around 480 exhibitors from Japan, Chinese Mainland, Taiwan Province of China and other countries and regions. Among them, fastener and related exhibitors included Yura Sansho, Utsunomiya Rashi, Sumidabyora, Iwata, Kuto Seiko, A.I.M.Y., Jieng Beeing Enterprise, etc.

China Fastener Directory (CFD), a well-known fastener sourcing magazine for global buyers, was popular among Japanese buyers. According to our onsite statistics, visitors were from the design, development, production

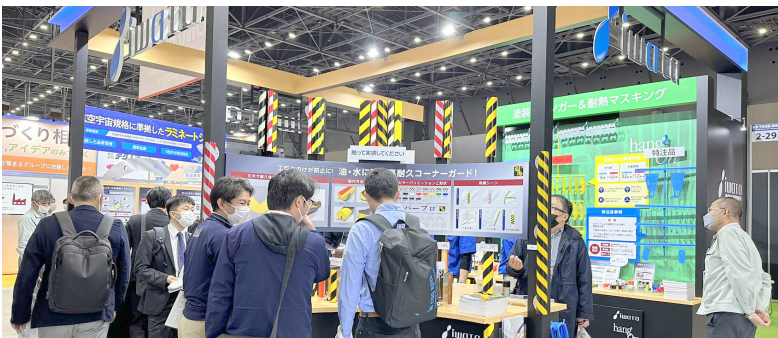
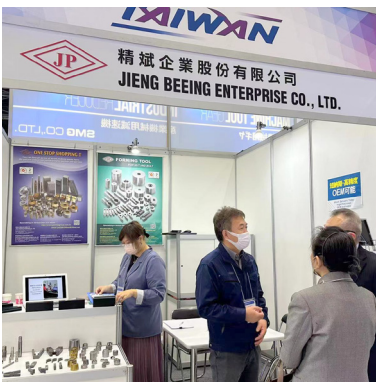
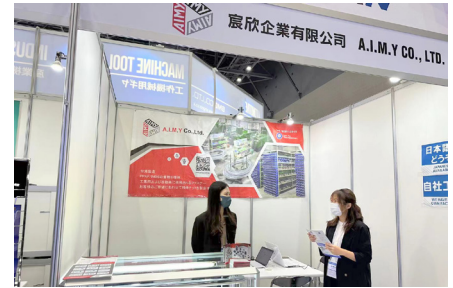


engineering, purchasing and information systems sectors, mainly from the Chubu region in Japan.

According to the statistics of Japan's Ministry of Finance, Chinese Mainland is the largest import origin and export destination of fasteners for Japan. In 2022, the top five origins of fastener imports for Japan were Chinese Mainland, Taiwan Province of China, South Korea, Vietnam and Thailand, among which Chinese Mainland accounted for 66%. The top five export destinations for Japan fasteners were Chinese Mainland, the United States, Thailand, Indonesia and India, among which Chinese Mainland accounted for 24.5%.

According to China Customs data, Chinese Mainland exported 147,066 tons of iron or steel fasteners to Japan in 2022, with an export value of USD399,604,276. The major fastener exports were: Other screws and bolts with tensile strength less than 800 Mpa; other threaded articles; nuts; other washers; self-tapping screws.

In terms of imports, Chinese Mainland imported 90,989 tons of iron or steel fasteners from Japan in 2022, with an import value of USD806,731,125. The major fastener imports were: Other screws and bolts with tensile strength of 800 Mpa or above; nuts; other screws and bolts, tensile strength less than 800 Mpa; other washers; cotters and cotter pins.



Starting from 2023, Manufacturing World is held 4 times a year. Here is the show schedule in 2023:

Largest in Japan

Manufacturing World Japan

Date: Jun 21-23, 2023

Venue: Tokyo Big Sight

Western Japan's Largest

Manufacturing World Osaka

Date: Oct 4-6, 2023

Venue: INTEX Osaka

Central Japan's Largest

Manufacturing World Nagoya

Date: Apr 10-12, 2024

Venue: Portmesse Nagoya

Newly Launched

Manufacturing World Fukuoka

Date: Nov 29-Dec 1, 2023

Venue: Marine Messe Fukuoka ◆

Fastener Taiwan 2023 Grandly Held, Attracting Nearly 10,000 Industry Professionals



Taiwan International Fastener Show 2023 (Fastener Taiwan), organized by the Bureau of Foreign Trade, MOEA, co-organized by the Kaohsiung City Government, and implemented by the Taiwan External Trade Development Council (TAITRA) and the Taiwan Industrial Fasteners Institute (TIFI), successfully concluded on May 10, 2023, attracting nearly 300 exhibitors from the global fastener industry and packing out both the North and South Exhibition Halls of the Kaohsiung Exhibition Center. China Fastener Info participated in the show as media partner (Booth No. C0006).

According to TAITRA's statistics, the three-day exhibition attracted nearly 10,000 visitors from domestic and international markets, a growth of 7.2% compared to pre-pandemic levels. During the show, multiple international buyer groups visited and purchased, including nearly 1,100 foreign buyers from 60 countries/regions, with the top five buyers coming from India, the United States, Japan, Germany, and Thailand. The online exhibition also attracted visitors from 16 countries and regions with over 1,500 views. Like the physical exhibition, the online exhibition was interactive and full of business opportunities.

In addition to exhibiting the latest technologies and innovations in the fastener industry, the exhibition organizers held multiple industry forums, procurement meetings, and the Manufacturers Win podcast, attracting many industry experts and scholars to share their experiences and achievements.

On the first day of the exhibition, the organizers held the Global Fastener Forum, inviting the presidents of the three major fastener distributor associations, including the National Fastener Distributors Association (NFDA) from the United States, the Italian Union of Fastener Distributors (UDIB), and the European Fastener Distributor Association (EFDA), as well as experts in related fields to exchange views on the future prospects of the global fastener market under the impact of rising raw material and transportation costs and anti-dumping measures in China. They also discussed hot topics such as the transformation to low-carbon fasteners, smart manufacturing, electric vehicles, and solar and wind power fastener applications. The event attracted over 200 industry insiders from both domestic and foreign markets, providing the industry with the latest trends in

domestic and international industries.

On the second day of the exhibition, the organizer carefully planned a procurement meeting to assist industry players in discussions with buyers. This included inviting the Vice President of the KIRCHHOFF Group, a well-known German automotive parts manufacturer, to find the best partners and fastener products at the exhibition and hold discussions with 14 potential partner companies. In addition, TAITRA invited 49 international buyers from 18 countries, including Mexico, Germany, the United Kingdom, France, Brazil, New Zealand, Finland, the United States, Canada, and the United Arab Emirates to participate in 152 one-on-one procurement meetings with 24 industry players. Through this matchmaking event, the industry players gained an enormous amount of potential business opportunities.

Fastener Taiwan 2023, which returned after a five-year hiatus, not only promoted communication and cooperation within the industry but also injected new vitality and energy into it. Fastener Taiwan 2024 is scheduled to be held from April 16th to 18th. ♦





Automotive Fasteners Market Outlook (2022 to 2032)

By Nikhil Kaitwade, Principal Consultant of Future Market Insights



The global automotive fasteners market size is estimated to be valued at US\$ 26,342.1 Million in 2022 and is projected to grow at a CAGR of 6% from 2022 to 2032. By 2032, the market is anticipated to reach US\$ 47,174.7 Million.

This is owing to:

- Some of the drivers propelling the global automotive fasteners market are shifting customer preferences for smart vehicles, increased disposable income, and expanding acceptance of technology in cars.
- The need for various types of fasteners to suit modern electronic components including sensors, high-frequency signals, advanced trims, etc. is driving the demand for automotive fasteners during the projected period.
- Electric vehicles that are environmentally friendly and sustainable are drawing buyers from all around the world.
- The use of fasteners in most automobiles is being restricted by the rising use of welding and clamping processes in the auto industry.

The automotive fasteners market is expanding due to increased demand for automobiles that are safer and more fuel efficient. The demand for automotive fasteners is being hindered over the forecast period by the high cost and limited awareness of automotive components. The rapid growth and progress of electric cars, as well as their acceptance in the area, are contributing to the expansion of the market.

Asia Pacific Automotive Fasteners Market

By 2032, China is anticipated to hold around 55% share of the global automobile fasteners. China is one of the leading producers of electric and hybrid cars, and so accounts for a significant portion of the global automotive fasteners industry. Additionally, due to the region's high vehicle sales and production, customers' shifting tastes from standard to customized

automotive components, and the region's rising per capita income, India and Japan accounted for over 28% of the overall production of automotive fasteners in the Asia Pacific.

Passenger Automobiles and Electric Buses are Becoming Increasingly Popular in the Asia Pacific

The increase in vehicle sales and the distance driven by cars leads to an increase in the requirement for automotive part maintenance and replacement. Due to their high vehicle production and sales, Asia Pacific is expected to be the largest market for automotive fasteners over the projected period. The development of technology for producing lightweight and long-lasting goods in the region is a result of government restrictions on light cars. In addition, manufacturers are turning away from conventional components and toward tailored parts, which are anticipated to fuel demand for customized fasteners in the Asia Pacific region. Factors such as increased automobile production, adoption of electric vehicles, and the number of small and medium-scale automotive components manufacturers in the region are driving the Asia Pacific automotive fastener market.

What are the Opportunities and Challenges for Automotive Fasteners Manufacturers?

Manufacturers in the automotive fasteners market want to concentrate on supplying high-quality goods to improve vehicle performance and boost fuel economy. Utilizing an innovative friction-based riveting technique like rotating hammer riveting (RHR), manufacturers may build vehicles faster and more affordably because there is no need to preheat the metals. Therefore, the market for automotive fasteners is driven by the adoption of lightweight materials and cutting-edge technologies.

All EV standards, including those governing battery performance, energy consumption, recycling, reusing, and durability of batteries as well as onboard and wireless charging, should be met by makers of electric vehicles. As a result, the assembly of electric vehicles and the infrastructure for their charging require additional fasteners, which further expands the automotive fasteners industry. The market demand is anticipated to increase as a result of mechanical breakthroughs and improvements in fastener quality.

The automotive fasteners are generally used for clamping parts of the vehicle together to avoid their separation, transmitting loads, and preventing leakage of joints.

Automotive fasteners come in various shapes, coatings, and colors, which increase the usage of automotive fasteners and attractive designs and quality. Automotive fasteners are used in airbag housings, door panels, and other vehicle parts, likely to propel the automotive fasteners market growth during the forecast period.



Over the last decade, various companies have been involved in the technological research and development of automotive fasteners. They resulted in superior quality fasteners, which are anticipated to increase the automotive fasteners market growth. Overall, the automotive fasteners market is expected to show a modest CAGR in the coming years.

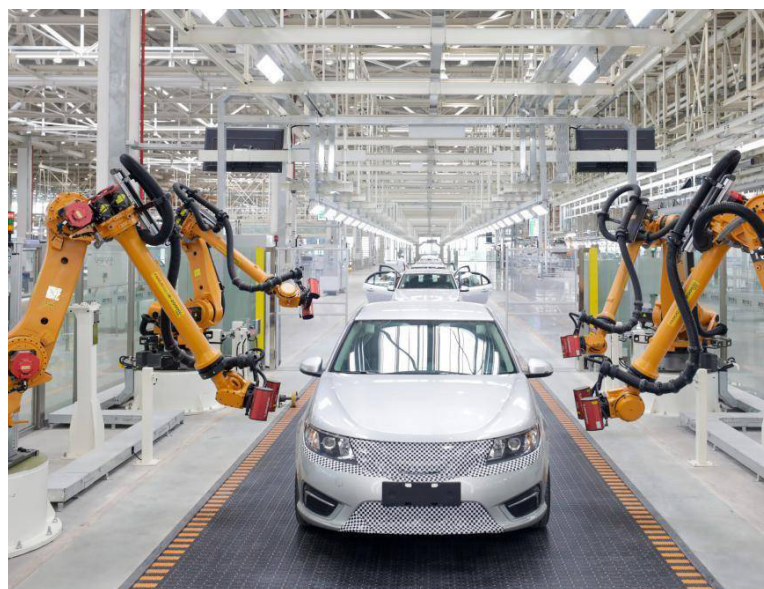
Elements Impelling the Growth in the Automotive Fasteners Market

The experts of Future Market Insights have identified a number of factors that are augmenting the expansion of the automotive fasteners market. They are listed as follows:

- **Consumer Preference:** Changing consumer preferences for smart vehicles, increasing disposable income, and rising adoption of technology in automobiles are some of the factors driving the global automotive fasteners market.
- **Lightweight Vehicle Adoption:** The preference for using lightweight vehicles across the world is expected to enhance the demand for using lighter automotive components in vehicles. In order to increase the performance of vehicles as well as fuel efficiency, lightweight parts are important. This factor drives the global automotive fasteners market.
- **Advanced Electronic Components:** Components such as sensors, high-frequency signals, advanced trims, etc. require different types of fasteners for fitting, which, in turn, is fueling the demand for automotive fasteners during the forecast period. Sustainable and environment-friendly electric vehicles are attracting customers across the globe.
- **Technical Developments:** The flourishing automobile industry and the vital importance of fasteners in automobiles is a key driving factors in the automotive fasteners market. The technical developments and improvements in the quality and durability of fasteners are fueling the automotive fasteners market size.
- **Easily Replaceable:** The easily replaceable nature of automotive fasteners makes it convenient for end-use consumers to purchase fasteners for their vehicles. This would further upsurge the demand for automotive fasteners during the forecast period.

Factors Alleviating the Growth of the Automotive Fasteners Market

Some of the factors that are likely to restrain the automotive fasteners market are as follows:



- Clinching and welding
- Unable to hold properly
- Poor Quality of Fasteners
- Stripping
- Material Destruction

Regional Outlook

Europe Automotive Fasteners

Europe is projected to hold the highest share of the automotive fasteners market and is likely to dominate the market during the forecast period. Currently, the European region is holding 26% of the total market share for automotive fasteners.

The expansion of the market can be attributed to the factors like:

- Commercial vehicles such as passenger cars and electric buses are becoming popular i.e. European countries, and thus the automotive fasteners market is gaining traction.

- Top players operating in the automotive fasteners market in Europe are investing and expanding their production capabilities to deploy sustainable products, owing to awareness and acceptance of lightweight vehicles.

North America Market Dynamics for Automotive Fasteners

North America is likely to hold the second-largest share of the automotive fasteners market after Europe. At present, the North American regions are cumulatively holding 16% of the total market share for automotive fasteners.

The expansion in this region is due to factors like:

- Rapid growth and advancement in electric vehicles and their adoption in the region are contributing to the growth of the automotive fasteners market.
- Government grants for research and development activities are further fueling growth in the automotive fasteners market of this region.
- The automobile companies such as General Motors, and Ford are making the USA a significant country in the region of North America.



Competitive Landscape

Prominent Players Making Key Contributions to Boost Growth in the Automotive Fasteners Market

The automotive fasteners market is fragmented by the key players that help to develop the market all around the globe during the forecast period. These players are showing their efforts and focus to increase the automotive fasteners' market share. The key players are using various tricks and marketing terms to acquire a lion's share in the automotive fasteners market size.

The major players that are operating in the global automotive fasteners market are focusing on the expansion of their market share by engaging in collaborations, partnerships, mergers & acquisitions, or by establishing new manufacturing, distribution, and Research and Development facilities.

Recent Development in the Automotive Fasteners Market are:

In January 2021, The Amphenol Corporation and Illinois Tool Works companies announced an agreement that ITW acquire the MTS corporation system test with the closing of the acquisition of Amphenol.

In August 2019, Atotech Deutschland GmbH has announced the acquisition of J-KEM International (J-KEM) company, which is based in Rosersberg, Sweden. J-KEM is a leading global supplier of high-quality chemical products and processes that are used for the printed circuit board and general metal finishing industries. J-KEM's customer relationships and strong technology have helped Atotech to expand its market and drive its growth in the near future.

In November 2019, Bulten AB launched its new industry in China to increase the supply chain. The company is likely to develop in-house forming, surface treatment, and heat treatment processes to produce high-quality fasteners in the country. ♦



Statistics of China Fastener Imports and Exports during Jan-Apr 2023

Compiled by China Fastener Info

Import Statistics by Product

HS Code	Product	Import Value (USD)	Import Quantity (kg)
73181100	Coach screws	646,107	45,333
73181200	Other wood screws	254,100	32,431
73181300	Screw hooks and screw rings	1,635,571	58,754
73181400	Self-tapping screws	30,522,809	4,514,453
73181510	Other screws and bolts, with tensile strength \geq 800MPa	242,686,900	32,396,436
73181590	Other screws and bolts, with tensile strength $<$ 800MPa	114,753,559	7,778,574
73181600	Nuts	145,673,234	10,672,928
73181900	Other threaded articles	24,947,299	1,042,012
73182100	Spring washers and other lock washers	18,650,882	552,915
73182200	Other washers	73,257,778	2,522,330
73182300	Rivets	13,827,827	849,954
73182400	Cotters and cotter pins	69,795,565	3,349,789
73182900	Other non-threaded articles	37,239,080	1,568,001
Total		773,890,711	65,383,910

Import Statistics by Country/Region

Rank	Country/Region	Import Value (USD)
1	Japan	182,701,235
2	Germany	170,940,956
3	United States	112,380,298
4	Taiwan, China	74,298,109
5	Italy	38,703,115
6	South Korea	31,454,094
7	China	25,485,710
8	France	23,215,104
9	United Kingdom	13,083,064
10	Turkey	11,239,101
11	Switzerland	9,475,806
12	Sweden	6,955,124
13	Spain	6,832,274
14	Czech	5,882,801
15	Country/region (unidentified)	5,675,981
16	Denmark	5,364,193
17	Malaysia	5,259,243
18	India	4,298,628
19	Canada	4,224,749
20	Poland	4,223,530
World		773,890,711



Export Statistics by Product

HS Code	Product	Export Value (USD)	Export Quantity (kg)
73181100	Coach screws	9,944,510	5,461,867
73181200	Other wood screws	49,864,027	27,559,541
73181300	Screw hooks and screw rings	12,636,461	4,436,740
73181400	Self-tapping screws	341,213,315	125,125,902
73181510	Other screws and bolts, with tensile strength \geq 800MPa	351,153,252	148,828,435
73181590	Other screws and bolts, with tensile strength $<$ 800MPa	1,155,822,907	381,045,811
73181600	Nuts	590,456,708	197,328,496
73181900	Other threaded articles	359,462,793	142,312,297
73182100	Spring washers and other lock washers	27,898,764	7,838,755
73182200	Other washers	222,590,589	66,382,909
73182300	Rivets	47,020,308	10,601,501
73182400	Cotters and cotter pins	127,884,871	23,920,670
73182900	Other non-threaded articles	83,004,266	20,037,777
Total		3,378,952,771	1,160,880,701

Export Statistics by Country/Region

Rank	Country/Region	Export Value (USD)
1	United States	399,201,232
2	South Korea	219,457,726
3	Vietnam	175,634,137
4	United Arab Emirates	142,244,951
5	Germany	142,094,217
6	Russia	141,626,145
7	India	139,742,698
8	Thailand	134,436,511
9	Japan	120,479,934
10	Mexico	94,531,795
11	Malaysia	92,168,646
12	Saudi Arabia	91,758,214
13	Australia	82,026,564
14	United Kingdom	78,070,628
15	Phillipines	73,429,713
16	Brazil	70,284,513
17	Italy	62,994,636
18	Indonesia	57,266,196
19	Canada	53,099,770
20	Singapore	52,858,869
World		3,378,952,771 ◆



EU Fastener Trade Statistics during 2020-2022

Compiled by China Fastener Info

H S 7318: Screws, bolts, nuts, coach screws, screw hooks, rivets, cotters, cotter pins, washers (including spring washers) and similar articles, of iron or steel.

Import Statistics (in descending order according to import value of 2022)

Rank	Country/Region	2022		2021		2020	
		Import Value (EURO)	Import Qty (kg)	Import Value (EURO)	Import Qty (kg)	Import Value (EURO)	Import Qty (kg)
1	Mainland China	2,210,047,871	787,031,590	1,685,581,227	784,373,858	1,124,834,668	643,166,410
2	Taiwan, China	1,906,960,986	502,842,100	1,304,539,923	432,392,932	1,012,097,510	373,176,999
3	United States	632,773,192	16,513,259	490,624,390	17,838,643	475,959,091	14,798,059
4	Turkey	562,403,729	147,794,916	363,799,836	116,211,570	250,113,831	78,892,138
5	Switzerland	449,724,326	30,054,604	413,955,872	29,517,676	362,345,419	25,686,806
6	India	411,086,901	125,971,724	277,337,771	97,778,212	187,415,500	67,732,375
7	Vietnam	404,967,185	133,270,667	220,459,099	98,578,051	193,789,700	99,433,492
8	United Kingdom	348,144,153	32,033,067	305,093,566	35,233,191	346,415,222	54,485,016
9	South Korea	214,855,946	40,109,675	179,056,244	37,193,166	145,461,539	30,802,225
10	Japan	199,614,890	27,326,134	188,308,789	23,089,073	150,613,314	18,678,003
11	Thailand	142,135,532	64,295,920	83,650,642	46,648,841	69,203,789	42,867,110
12	Malaysia	117,280,008	37,905,366	74,328,333	33,575,378	64,884,737	32,364,162
13	Liechtenstein	97,508,861	12,556,539	92,731,145	13,568,324	89,921,977	12,641,659
14	Bosnia and Herzegovina	57,713,302	16,236,768	49,280,924	17,665,988	32,678,741	12,814,082
15	Indonesia	52,230,822	8,042,037	41,593,252	9,768,199	32,465,622	8,435,854
16	Canada	37,841,379	2,851,925	27,153,800	2,395,832	19,695,165	1,741,211
17	Norway	28,963,580	6,259,507	29,232,782	8,845,534	29,749,750	8,909,717
18	Serbia	24,257,919	10,846,355	19,356,653	11,044,837	13,281,789	8,006,337
19	Philippines	22,751,698	6,019,686	15,812,921	4,187,666	13,157,136	3,708,572
20	Brazil	20,057,816	2,682,712	15,829,176	1,997,295	11,063,872	1,406,679
Worldwide		8,062,651,447	2,032,115,658	5,988,643,217	1,853,675,002	4,703,428,968	1,560,900,548



Export Statistics
(in descending order according to export value of 2022)

Rank	Country/Region	2022		2021		2020	
		Export Value (EURO)	Export Qty (kg)	Export Value (EURO)	Export Qty (kg)	Export Value (EURO)	Export Qty (kg)
1	United States	991,916,924	92,401,145	851,680,614	98,224,763	734,509,127	79,202,141
2	Mainland China	864,687,914	90,563,141	889,621,304	98,323,894	855,890,985	96,393,983
3	United Kingdom	579,686,814	73,031,141	532,346,729	77,777,339	464,303,040	71,514,835
4	Switzerland	380,811,386	43,577,546	328,785,939	42,586,785	276,058,679	36,737,157
5	Mexico	275,522,527	38,080,004	230,600,829	33,638,580	192,112,821	27,686,516
6	Turkey	267,336,627	35,403,634	211,821,879	31,281,788	190,304,362	29,857,349
7	Brazil	214,324,486	31,361,223	182,719,905	29,992,842	146,446,454	22,569,171
8	India	170,676,392	20,040,117	146,247,930	19,794,204	99,628,133	13,304,756
9	Norway	146,971,094	17,587,184	125,111,263	19,197,941	122,524,195	21,430,498
10	Russia	116,185,444	14,683,138	231,828,875	37,032,552	201,902,551	35,047,867
11	Morocco	112,946,849	15,151,479	96,349,528	14,512,843	78,485,181	9,863,875
12	South Africa	78,548,635	10,790,099	67,726,868	10,121,839	54,259,363	8,631,449
13	Canada	71,730,594	4,438,840	49,700,750	3,904,051	45,911,246	3,190,466
14	South Korea	71,604,234	4,977,235	61,722,342	4,632,625	59,599,014	4,440,068
15	Liechtenstein	67,606,793	10,379,821	60,389,345	10,991,279	63,211,337	11,431,710
16	Australia	66,454,611	5,643,770	53,514,134	5,053,373	50,595,224	4,880,197
17	Japan	61,391,961	3,639,836	53,164,484	3,055,483	46,983,931	2,825,523
18	Serbia	49,552,899	6,536,699	44,637,107	7,947,934	33,949,277	6,439,015
19	Singapore	47,982,862	1,482,661	41,911,049	1,812,830	40,901,707	1,651,872
20	United Arab Emirates	44,329,299	2,751,326	38,831,645	4,820,213	37,075,109	4,750,769
Worldwide		5,356,393,152	594,244,201	4,893,847,505	632,737,789	4,317,739,262	569,476,149





Fastener Trade Statistics of Japan during Jan-Apr 2023

Compiled by China Fastener Info

Japan Fastener Imports by Product

HS Code	Product	Import Value (1,000 Yen)	Import Quantity (kg)
7318.11-000	Coach screws	89,941	374,410
7318.12-000	Other wood screws	2,322,594	5,178,556
7318.13-000	Screw hooks and screw rings	91,225	159,199
7318.14-000	Self-tapping screws	2,173,975	4,588,051
7318.15-110	Other screws and bolts, whether or not with their nuts or washers – of stainless steel	2,230,432	3,130,860
7318.15-190	Other screws and bolts, whether or not with their nuts or washers – Other	9,317,821	30,544,604
7318.15-900	Other screws and bolts, whether or not with their nuts or washers – Screws	5,518,681	7,252,367
7318.16-100	Nuts – Of stainless steel	2,777,026	1724160
7318.16-900	Nuts – Other	5,901,472	8,930,280
7318.19-000	Other threaded articles	2,564,134	5,022,500
7318.21-000	Spring washers and other lock washers	773,958	1,640,580
7318.22-000	Other washers	2,300,365	2,819,809
7318.23-000	Rivets	426,387	425,826
7318.24-000	Cotters and cotter-pins	552,460	1,034,637
7318.29-000	Other non-threaded articles	2,180,649	1,934,181
Total		39,221,120	74,760,020



Japan Fastener Exports by Product

HS Code	Product	Export Value (1,000 Yen)	Export Quantity (kg)
7318.11-000	Coach screws	11,461	11,167
7318.12-000	Other wood screws	58,369	34,001
7318.13-000	Screw hooks and screw rings	1,249	281
7318.14-000	Self-tapping screws	3,464,736	2,796,407
7318.15-110	Other screws and bolts, whether or not with their nuts or washers – of stainless steel	2,616,908	525,158
7318.15-190	Other screws and bolts, whether or not with their nuts or washers – Other	40,804,550	49,455,659
7318.15-900	Other screws and bolts, whether or not with their nuts or washers – Screws	10,202,213	5,726,312
7318.16-100	Nuts – Of stainless steel	1,696,498	437,158
7318.16-900	Nuts – Other	22,497,785	21,226,653
7318.19-000	Other threaded articles	777,039	469,890
7318.21-000	Spring washers and other lock washers	1,307,284	538,190
7318.22-000	Other washers	8,344,500	4,646,146
7318.23-000	Rivets	1,438,127	845,097
7318.24-000	Cotters and cotter-pins	1,188,252	352,122
7318.29-000	Other non-threaded articles	4,994,867	3,072,617
Total		99,403,838	90,136,858 ♦

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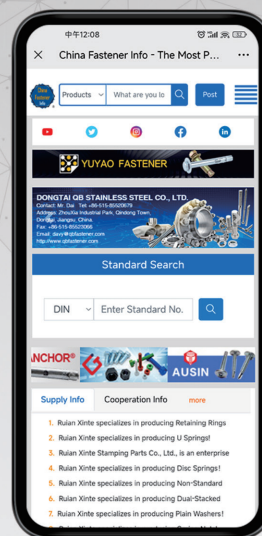




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