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THE IMPORTANCE OF GLOBAL COLLABORATIONS AND PARTNERSHIPS

A major part of the global Fastener Industry will congregate in Stuttgart in March 2025 for Fastener Fair Global. Significant changes across the world are affecting the Industry's roadmap for the future.

India has implemented BIS certification as a norm for certain standard fasteners, thereby restricting imports and forcing indigenization. Though it is seen as a positive move, the backlash of the stoppage of imported quality goods which are not manufactured within will have to be encountered. However, in the long run, this move is expected to be beneficial.

With the return of the Trump regime, it is inevitable that tariffs will be applied, increased, or continued, especially concerning China. It remains to be seen soon how impacted the Indian Fastener Industry will be as exports to America have been consistently increasing over the last few years. With growing participation in the International Fastener Expo, numerous opportunities have also emerged for Indian manufacturers.

The European Industrial Fasteners Institute (EIFI) is having its General Assembly in May 2025 and for the first time, Fasteners Association of India is also invited to speak about our Industry. As the dates directly coincide with Fastener Fair Mumbai, which is an important platform for the Indian Industry to network, attending the assembly will not be possible this year. The bigger picture is the increasing interaction between leading institutes and associations, fostering a collaborative roadmap for the Industry worldwide.

Following Keller & Kalmbach's (Germany) joint venture with Mohindra Fasteners in 2022 –bringing synergy to strengthen their position in the Indian market – Sterling Tools partnered with China's Meishuo Electric for power transmission solutions. And now comes the news of a big investment of approximately US\$ 114.40 million by Fontana Gruppo (Italy) acquiring 60 percent of Right Tight Fasteners.

The trend is emerging – a majority of small and medium enterprises are consolidating for accelerated growth or forming joint ventures with just a handful continuing on their own steam. The writing is on the wall for those who don't grow fast enough, that they must be prepared to perish unless they are able to sell out in good time.

This is the decade of Global Collaborations and Partnerships, and it's time to embrace it.



Source: FAI

ABHIJAT SANGHVI
President
Fasteners Association
of India (FAI)

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It remains to be seen soon how impacted the Indian Fastener Industry will be as exports to America have been consistently increasing over the last few years.

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The Asia Pacific is emerging as the fastest-growing region in the industrial fasteners market, driven by rapid industrialization, urbanization and growing demand in key sectors such as automotive, construction, and manufacturing. The major growth contributors are countries like China, India, and Japan, with high investments in infrastructure development, transportation networks, and industrial machinery.

TRACKING TRENDS & TRIUMPHS IN THE FASTENERS MARKET

The latest report "Industrial Fasteners Market by Raw Material (Metal, Plastic), Type (Bolts, Screws, Nuts, Washers, Rivets), Product (Externally Threaded, Internally Threaded, Non-Threaded, and Aerospace Grade), Application, Sales Channel & Region - Global Forecast to 2029", predicts the global industrial fasteners to grow from US\$ 90.57 billion in 2025 to US\$ 104.12 billion by 2029 at a CAGR of 3.5 percent. This growth is driven by their essential applications across industries including aerospace, automotive, building and industrial machinery.

Among these sectors, the automotive industry has been a growth driver for the industrial fastener market. It was the largest market share in the industrial fasteners market in 2024. Growing automobile demand and rising demand for EVs increase the need for high-performance fasteners with features tailored for the automotive market.

However, there are challenges to be addressed for the above growth to be achieved. One among them is the fluctuating prices of raw materials which directly affects production costs and profitability for the manufacturers. This may lead to stakeholders withholding from long-term investments in a volatile pricing environment. Counterfeit and quality control problems is other significant challenge, affecting safety, reliability and brand image and raising risks in high-stress applications in aerospace, automotive, and construction industries.

Despite these hurdles, the Asia Pacific is emerging as the fastest-growing region in the industrial fasteners market, driven by rapid industrialization, urbanization and growing demand in key sectors such as automotive, construction, and manufacturing. It had the highest industrial fasteners market share in 2024. The major growth contributors to this region are countries like China, India, and Japan, with high investments in infrastructure development, transportation networks, and industrial machinery. Additionally, the rise of manufacturing hubs in emerging markets like Vietnam and Indonesia further fueled demand for fasteners, particularly in machinery and electronics. Government-backed initiatives, such as China's Belt and Road Initiative, also contributed to market expansion.

With industries evolving, global demand is slated to surge. Innovation, quality control, and strategic investments will be key to unlocking the full potential of the industrial fasteners market.

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PRECISION ENGINEERING FOR SUSTAINABILITY

Committed to quality, technological advancements and customer-centric innovation, Gala Precision Engineering Ltd has established itself as a global leader in fastening solutions, earning a reliable reputation across sectors and geographies. From manufacturing specialized fasteners and technical springs to expanding its presence in key international markets, the company continues to push the boundaries of engineering excellence.

At its core, Gala Precision Engineering Ltd specializes in the design and manufacturing of precision engineering components like High Tensile Fasteners, Disc & Strip Springs, Coil & Spiral Springs and Wedge Lock Washers. These components are engineered for applications demanding high fatigue life, extreme

load-bearing capacity and superior corrosion protection. To ensure the highest level of quality and reliability, the company employs IATF 16949, ISO 9001, ISO 14001 and ISO 45001 certified manufacturing processes.

The company's advanced CNC machining, precision heat treatment, cold & hot forming and proprietary surface treatments allow it to manufac-

ture components that exceed global standards such as DIN, EN and ASTM. By consistently maintaining these benchmarks, it ensures that its products deliver outstanding safety, durability and performance across industries.

Custom Solutions Across Sectors

Gala's strength lies in its ability to tailor solutions

All image source: Gala Precision Engineering Ltd



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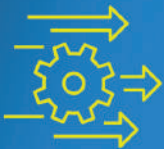
20⁺
Types Of Plating

About us

Hylite Group is essentially involved in metal finishing processes. Based in Mumbai-Pune region we are renowned for our versatility in providing electroplating and galvanizing solutions to a industries ranging from automobiles, electronics, wind and solar power, heavy engineering, electrical and construction to name a few.

Historically Hylite Group started off in 1943 as an electroplating plant in south Mumbai catering to local industrial requirements. With progressive growth and adaptation to newer technologies in the metal finishing industry it is now a group of Six plants spread across Mumbai and Pune providing a variety of metal finishing processes and also engineering solutions on turnkey basis.

Facilities - 20⁺ Electroplating process



- Brass
- Bright Nickel
- Black Oxidizing
- Cadmium
- CED Coating
- Copper
- Continuous Strip plating
- Hot Dip Galvanizing
- Iron Zinc
- Lead
- Nickel Chrome
- Phosphating
- S S Electropolishing
- Silver
- Tin
- Tin-Lead
- Trivalent Zinc
- Xylan
- Zinc Flake coating
- Zinc-Nickel
- Zinc Cobalt



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Hylite Galvanisers,
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Premier Electroplaters
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Mazagaon, Mumbai.

Burhani Industries
W 103, S block,
MIDC Bhosari, Pune.

Saifee Industries
W-166 S Block Bhosari
MIDC Pune.

Hylite Group of Companies Website : www.hylite.co.in | Email : sales@hylite.co.in
Contact : +91 22 2761 1599/ 88



to meet specific challenges of each sector. The company serves a diverse range of industries, including renewable energy, industrial manufacturing and mobility. Its precision components are critical to wind and hydro, ensuring efficiency and long-term reliability, gaining clients such as Vestas, GE Vernova, Senvion and Enercon.

In the industrial sector, it provides fastening solutions to leading names such as ABB, Schneider Electric, Würth Group and Larsen & Toubro Ltd, for industries including construction & mining, agriculture equipment, electrical & automation, infrastructure and general engineering. Major players from the mobility sector, including Indian railways and automotive, such as Brembo, Labtec and Hitachi Astemo, also rely on Gala's engineering expertise for high-performance applications.

Firm Grip on Global Markets

With over 40 percent of its revenue coming from international markets, Gala Precision Engineering has cemented its position as a key supplier in more than 25 countries, including Germany, USA, Denmark, China and Brazil. The company has built strong relationships with multinational OEMs, Tier-1 manufacturers and channel partners across these regions.

The Frankfurt office plays a crucial role in customer engagement, technical support and market expansion across Europe. This strategic presence enables faster response times, localized engineering assistance and streamlined logistics, reinforcing Gala's position as a global precision engineering leader.

The company's ability to provide high-precision, globally approved components has positioned it as a preferred partner for leading organizations such as Regal Rexnord,

BUFAB, LPS Bossard Pvt Ltd and Schaeffler.

Anchoring Growth with Innovation

To meet increasing global demand, Gala operates two advanced manufacturing facilities in India. With the corporate office in Thane, Maharashtra, the Wada Plant (near Mumbai), Maharashtra, spanning 28,800 sq mt, serves as the primary production hub. The newly established facility in Vallam-Vadagal (near Chennai), Tamil Nadu, covering 6,718 sq mt, is a key strategic expansion dedicated to the production of special fastening solutions. The plant enhances Gala's manufacturing capabilities, supporting the growing demand for next-generation industrial fasteners and engineered components. Equipped with the state-of-the-art automation, robotics and lean manufacturing practices, this facility will further strengthen Gala's leadership in high-performance fastening technology.



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Precision at the Push of a Button

Gala Precision Engineering is at the forefront of smart manufacturing and Industry 4.0, integrating automation and real-time production monitoring to optimize efficiency and minimize errors. The company has implemented AI-driven quality control systems that detect micro-defects with precision, ensuring that only the highest-quality components reach customers. Automated CNC-based manufacturing has enabled consistent product tolerance, reducing variability and improving reliability. By integrating lean manufacturing systems and reducing manual interventions, Gala has significantly improved productivity while minimizing errors. These technolog-

ical advancements have resulted in higher throughput, reduced rework rates and improved cost efficiency.

Springing Forward

Looking ahead, Gala Precision Engineering is committed to driving innovation and sustainability in precision engineering, in addition to expanding its market presence. The company is actively developing next-generation fasteners and critical springs to meet the evolving needs of industrial applications. With a clear focus on technological advancements and global growth, Gala aims to be at the forefront of precision engineering. The company is focusing on expanding into new geographic markets, particularly in Europe and the US, to ca-

ter to the increasing global demand for precision-engineered components. Additionally, its long-term goal is to achieve a revenue target of INR 1,000 crore by 2030 through a combination of organic and inorganic growth. With its strong foundation in precision manufacturing, a global footprint and an aggressive innovation roadmap, Gala Precision Engineering Ltd is poised to remain a leading force in the fastening technology sector for decades to come.



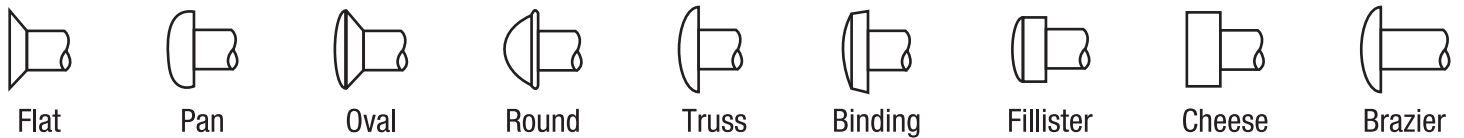
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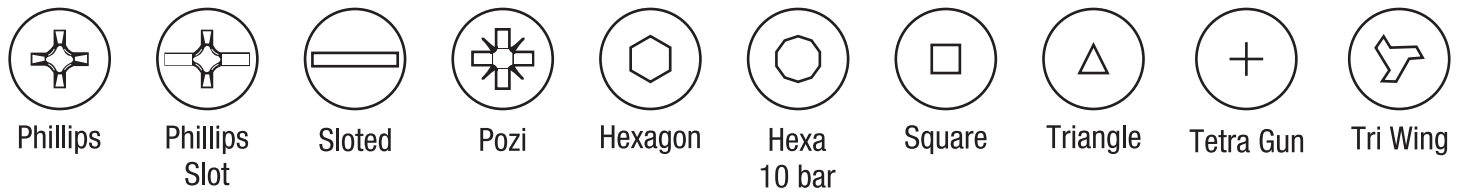
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HEAD TYPE



DRIVE STYLE



Standard

- JIS
- ANSI
- DIN
- ISO
- BS

Material

- Brass
- M.S.
- Copper
- Silicon
- Bronze
- Aluminium
- High Carbon
- Stainless Steel
- Phosphorous Bronze
- Silicon Bronze

Finish

- Zinc Plating
- Nickel Plating
- Triavalent
- Brass
- Tin
- Blackening

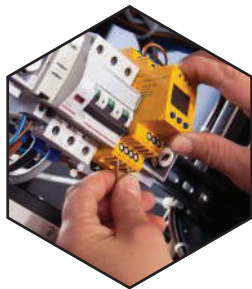
Thread Type

- MM Series
- BA Series
- BSW Series
- UNC
- UNF
- 6BP
- Triangle

Screw Type

- Machine
- Grub
- Sheet Metal
- Drywall
- Taptite

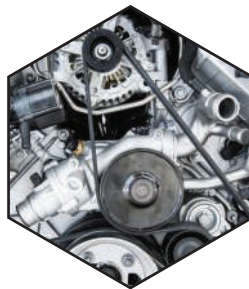
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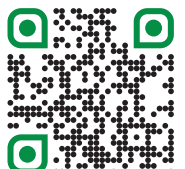


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THE NAME BEHIND EVERY TIGHT FIT

For over two decades, Mohindra Fasteners Ltd has been a trusted name in manufacturing high-quality fasteners that keep industries moving. Established in 1997, it has become a leading supplier of high-tensile fasteners, serving markets in Europe, North America, and India. With three modern manufacturing plants located in Rohtak, Haryana, the company upholds precision and performance through in-house production processes, meeting the exacting requirements of automotive, industrial, and railway applications.

Image source: Mohindra Fasteners Ltd



Mohindra Fasteners Ltd takes pride in its ability to not just make fasteners but to make them right. The company's state-of-the-art manufacturing facilities ensure strict quality control while keeping production efficient and scalable. With processes such as cold forging, hot forging, heat treatment, secondary operations, and surface finishing all handled in-house, it is capable of producing a wide range of standard and custom fasteners. These advanced capabilities allow the company to create tailor-made solutions, especially for applications that require specialized secondary operations. It takes charge and guarantees that each product meets its high-quality and performance standards by overseeing every step of the production process.

Taking a closer look at its tailor-made solutions, the company excels at customized parts, crafting precision components based on customer specifications and engineering drawings.

Fasteners for Every Fit and Fix

From pocket-sized screws to heavy-duty bolts, Mohindra Fasteners offers a solution to every need. The company manufactures fasteners in diameters ranging from M3 to M60 and lengths of up to 600 mm, covering a wide range of industrial applications. Its product portfolio includes Socket Head Cap Screws, Hex Head Bolts and Screws, Socket Set Screws, Socket Countersunk Screws, Socket Button Head Screws, Socket Pipe Plugs, Dowel Pins, Shoulder Bolts, Hexagonal Wrenches, and Hexagonal Nuts.


Built to Last, Certified to Perform

The company's BIS certification proves that its products are built for superior performance and reliability. The company also holds ISO 9001:2015 certification for quality management, IATF 16949:2016 compliance for the automotive sector, and ISO/IEC 17025:2017 NABL certification, which confirms

the reliability and accuracy of its in-house laboratory testing. Its heat treatment operations comply with CQI-9 standards set by the Automotive Industry Action Group (AIAG).

It is ISO 14001:2015 certified, ensuring that its manufacturing processes adhere to the highest environmental management standards. Furthermore, its ISO 45001:2018 certification reinforces its approach to putting employee well-being and work environments first, further reinforcing the company's norm of adhering to industry-leading practices.

One Tonne at a Time

With a production capacity of 1,500 metric tonne per month, the company ensures that high-volume orders are completed on time and to exact specifications. Its well-organized supply chain, advanced manufacturing processes, and dedication to precision make it a trusted name for businesses requiring high-performance fastening solutions. 



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Sundram Fasteners Q3 Profit Surge



Source: Magic Wand Media

Sundram Fasteners Ltd, a key player in the automotive components sector, reported a solid standalone net profit of INR 120.36 crore in the third quarter of the fiscal year 2024-25. This figure stood slightly higher than the

previous year's result of INR 116.13 crore thanks to the company's successful cost reduction efforts.

The company's revenue from operations rose to INR 1,256.58 crore, up from INR 1,178.61 crore in Q3 2023. During the period, domestic sales increased from the previous year's INR 810.34 crore to INR 840.81 crore. The company experienced an increase in export sales, reaching Rs 362.79 crore as opposed to the previous year, Q3 of INR 339.15 crore. During the quarter, the company generated INR 5.73 in earnings per share (EPS), which was higher than the INR 5.53 recorded during the previous year.

The revenue figures for Sundram Fasteners came in at INR 1,441.12 crore for the quarter while they stood at INR 1,367.25 crore for the same period in the previous year. The consolidated net profit rose to INR 130.73 crore, from INR 129.44 crore in Q3 2023, with EPS reaching INR 6.21, a slight increase from Rs 6.12. The standalone revenue of the company for the first nine months of FY 2024-25 reached INR 3,855.75 crore after export sales increased by 15 percent. Capital expenditure for the period totaled Rs 309.59 crore, part of the company's expansion into non-automotive sectors, including electric vehicles (EVs) and hybrids. **FAI**

Bossard Unveils Next-Gen Fastening Solutions

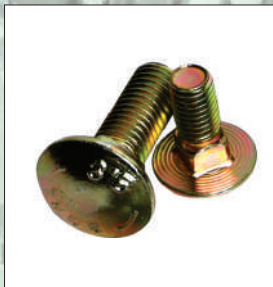
Bossard Group transforms automotive fastening through innovation and solution-based approaches to enhance efficiency and durability, while addressing sustainability needs. The industrial shift toward lightweight materials together with electric powertrains has found perfect solutions in the company's advanced fastener technologies that propel modern vehicle manufacturing.

As automakers dedicate their focus to fuel efficiency and thermal management, composite materials are gaining prominence in vehicle design. However, traditional adhesives often demonstrate an inability to securely bond composites to metals or substrates. The MM-Welding® technology from Bossard functions better, providing secure, fatigue-proof connections in porous and laminate structures without compromising material integrity. Maintenance and repair workers can perform their duties more efficiently because these fasteners offer repeat access.

Plastic fasteners have become more popular among manufacturing industries which actively search for steel replacements. Ideal for harsh environments, Bossard's injection-molded washers, spacers, and pins exhibit

corrosion resistance along with thermal stability and chemical durability. The automated molding processes promote both waste reduction and cost savings with positive impacts on sustainability measures. With the rise of robotic assembly lines, fasteners must integrate seamlessly into automated systems. The company's R&D team collaborates with manufacturers to develop custom shapes and sizes that optimize cycle times and reliability in high-speed production.

The shift to EVs demands more durable, vibration-resistant fasteners. Bossard's permanent fastening solutions ensure long-term stability in electric powertrains, eliminating the need for removable joints and reinforcing the 'build-for-life' manufacturing approach. As automakers seek standardized solutions to streamline inventory, Bossard continues to drive innovation, ensuring adaptability in a rapidly evolving industry. **FAI**



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Belmaks Debuts at IAA Transportation 2024


Belmaks Group made its first major appearance at IAA Transportation 2024, co-exhibiting with Automotive Component Manufacturers Association of India (ACMA) to explore new technologies and partnerships while expanding their worldwide footprint. While the company did not set out to secure immediate business deals, Raahil Bhatia, Director, Belmaks Group, emphasized the importance of learning, networking, and positioning Belmaks for the future.

The team arrived with 'an open mind' and gained outstanding experience, according to Bhatia. The company centers its efforts on developing long-term collaborations and understanding how to introduce advanced technologies to India. The Director further suggested that the India Pavilion at IAA required stronger positioning to match the scale of the Chinese counterpart. He emphasized that the rapidly expanding automotive sector of India should appear on par with other global markets.

Belmaks serves as a Tier-1 supplier to Tata Motors, Volvo, Ashok Leyland, and UD Trucks, providing truck chassis frames, tippers, cargo bodies, fasteners, and under-body assemblies. The nine Indian facilities of the company work together to push lightweight innovation while decreasing part weight by



Source: IAA 2024


as much as 20 percent without jeopardizing durability. Belmaks has established a target to transform into a carbon-neutral organization, reducing Scope 1 and 2 emissions by 2030. Bhatia called for industry-wide collaboration for making climate-friendly powertrains cost-effective by indicating that profitability and sustainability require a balance with each other. With the advancement of the Indian commercial vehicle industry, Belmaks is booting up to drive leadership through innovative practices along with operational excellence and sustainable principles at its core. 

India Ends Probe on Chinese Fasteners

The Directorate General of Trade Remedies (DGTR) has officially terminated an anti-dumping investigation of Chinese fasteners, citing insufficient evidence of dumping or harm to domestic manufacturers. The investigative process launched in September 2023 evaluated whether Chinese prices for fasteners, including screws, bolts, and nuts, were unfair, impacting Indian producers, particularly MSMEs.

The DGTR released its final report, which showed that an insufficient amount of required data led them to identify no noteworthy damage to domestic manufacturing. The investigation therefore came to an end. Such an independent launch of an investigation by DGTR stands out as an unusual occurrence because it did not derive from any petitions submitted by Indian manufacturers. The Government made this move to protect fragmented micro, small, and medium

enterprises (MSMEs) since these businesses often struggle to navigate trade remedy procedures.

Anti-dumping duties are typically imposed when an investigation finds that imported goods are sold at prices lower than fair market value, resulting in disruption of competition. However, DGTR has recommended implementing anti-dumping duties amounting to US\$ 664 per tonne for textured tempered glass imports from China and Vietnam. The new development underscores India's evolving approach to trade protection and fair market practices for its key manufacturing sectors. 

JRG Acquires SEFI Plastics Division

Source: Magic Wand Media




JRG Automotive Industries Pvt Ltd extended its South Indian manufacturing presence by acquiring Stanley Engineered Fastening India's (SEFI) two-wheeler functional plastics division. The acquisition by JRG includes two production sites located in Manesar, Haryana, and Bangalore, which increase their capacity to produce automotive and infrastructure plastic injection-molded components.

The acquired division supplies plastic components to Indian two-wheeler OEMs, construction equipment manufacturers, and Tier-1 suppliers. The continued core

business of SEFI—a Stanley Black & Decker subsidiary—in engineered metal and plastic fastening solutions at their facilities in Chennai and Bangalore enables JRG to advance its market standing.

JRG Automotive gains increased presence across India's crucial automotive manufacturing hubs through this strategic acquisition, according to Pawan Goyal, Founder and Managing Director, JRG Automotive Industries. The company, which specializes in plastic components for the automotive and defence industries, aims to double its revenue this year through strategic ventures and acquisitions.

This acquisition represents a major advancement for JRG as it enhances its growth ambition through its unwavering dedication to innovation. Stanley Engineered Fastening will proceed with its service delivery of advanced fastening solutions to aerospace, automotive, and industrial manufacturing sectors.

JRG Automotive positions itself as an important player in India's competitive automotive components sector through strategic expansion, thanks to advanced manufacturing processes, stringent quality control, and a sustainability focus for long-term success. 


Key Fastener Players Gather in Pune

India Fastener Show Pune successfully concluded on November 24, 2024, representing fastener and fixing technologies in India. Organized by Future Market Events, this premier exhibition attracted 8,361 visitors and 175 exhibitors at Pune International Exhibition & Convention Centre, Pune, where the three-day event was hosted.

The show displayed over 10,000 products, which included nuts, bolts, and screws alongside pins and washers

with machines that served the automotive, construction, aerospace, and industry industries. The event underscored the vital role fasteners play by providing essential functionality, which assures safety and accuracy for operations in these business sectors.

Leading industry names such as Micron Group of Industries, AV Fasteners Pvt Ltd, and Mohindra Fasteners Ltd, showcased their latest technological advancements, which strengthened the fastener supply chain. Exhibitors praised the event for its strong attendance, high-quality buyers, and valuable networking opportunities with original equipment manufacturers (OEMs).

Abhijat Sanghvi, President, Fasteners Association of India (FAI), commended the event's positive progression and successful outcome. According to him, visitor numbers have exceeded all expectations, thus making this show larger and better than previous events. The upcoming edition of the India Fastener Show is slated for July 11-13, 2025, at Chennai Trade Centre, Chennai. The South edition will focus on creating specialized opportunities for the dynamic southern market. 



Source: Future Market Events

BBI Marks 100 Years with Key Promotions



Brighton-Best International (BBI), Long Beach, CA, USA, announced several key promotions effective immediately, as follows:

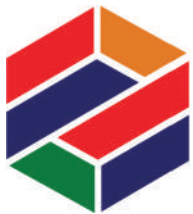
- George Hunt has been promoted to VP of Sales for the Industrial Division. Hunt will oversee BBI's traditional base of fastener distributors and the company's range of

industrial fasteners.

- Scott Gibson has been promoted to VP of Sales for the Construction Division. Gibson will focus on the company's Proferred and US Anchor brands, catering to drywall houses and the installer/contractor market.
- Steve Andrasik has been promoted to Executive Vice President of Sales, as BBI continues to grow and evolve in its centennial year.

These promotions reflect BBI's commitment to growth and specialization within the company's key divisions. As the company celebrates 100 years of success, it recognizes the importance of having dedicated leadership to drive its future endeavors. BBI has been a trusted partner since 1925. With award-winning hand tools, gloves, and drywall screws, BBI is a major master distributor of fasteners in the USA. [FAI](#)

LindFast Solutions Acquires Big Bolt



LINDFAST
Solutions Group

LindFast Solutions Group (LSG) completed the purchase of Big Bolt LLC, a leading domestic manufacturer of specialty fasteners and an end-to-end solution provider with industry-leading turnaround times. LindFast management says the company is excited to welcome the Big Bolt team and is confident that together the Group will continue to offer customers unparalleled service, quality, and product availability. Big Bolt supplies high-quality, specialty fasteners serving distributor customers across diverse markets. With a focus on quick turnaround times, comprehensive in-house fabrication capabilities, and unmatched product quality, Big Bolt is the go-to supplier for highly customized, low-volume orders and more. LSG looks forward to expanding Big Bolt's ability to serve its collective customers by leveraging LSG's significant base of fastener expertise, sales force experience, inventory, and physical locations across North America. The company is confident this combination is very powerful and continues to establish LSG as the provider of choice for all fastener needs, focused on creating value for its customers, suppliers, employees, and all stakeholders. [FAI](#)

WIFI Announces 2024 Award Winners

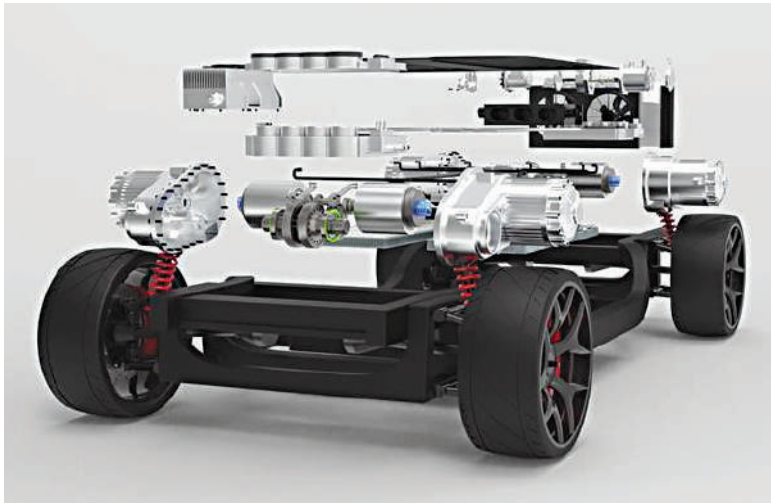
Women In the Fastener Industry (WIFI) has announced the winners of its 2024 awards.

Holly McDaniel, Sales Manager, WCL Company, has been named 'Woman of the Year'. This award recognizes exemplary leadership and success in the fastener industry. The recipient has a long and distinguished record of advocacy for the professional advancement of women.




Jennifer Sturm, Chief Operations Officer, Empire Bolt & Screw Inc, has won the 'Woman in Business' award. This award honors a champion and advocate who contributes and supports her own organization and community by sharing knowledge, ideas, insights, and strength. These are women dedicated to empowering more women to achieve full potential in all aspects of life. The 'Man Up' award goes to Dan Duffield, Sales Manager, Wyandotte Industries Inc. Man Up is awarded to an individual male or a company that has demonstrated a commitment to supporting women and the WIFI organization. The recipient is a partner that provides tools and resources that empower the women in their organization or industry. [FAI](#)

Rotor Clip Showcases EV Innovations




Rotor Clip's latest 3D video showcases how its precision-engineered parts are used in key electric vehicle applications, from the electric motor and A/C compressor to the battery

pack. From securing connections to reducing weight and managing vibrations, Rotor Clip retaining rings/snap rings, wave springs, and hose clamps ensure the functionality and reliability of every EV build, meeting all performance needs. The new video is highlighted on the company's e-mobility page. This resource offers a closer look at how its retaining rings/snap rings, wave springs, and hose clamps are powering sustainable transportation today and preparing for future advancements like hydrogen technologies and beyond. "Our parts may not always be visible, but for more than 65 years, we've been a driving force in the automotive industry," said Craig Slass, Co-President, Rotor Clip. "By continuously investing in our engineers, machinery, and technology, we're ready to meet the changing needs of the industry as new technologies emerge." 




SEFA Marks 50 Years in 2025

Southeast Fastener Association (SEFA) will celebrate 50 years at the 2025 SEFA Spring Conference, April 29 – May 1, 2025, at the Saddlebrook Resort in Tampa, FL, USA. The event

will offer opportunities for networking, informative sessions, entertainment, social events, a 50th celebration & awards, golf, and pickleball. The keynote speaker will be NFL Hall of Fame Linebacker, Derrick Brooks. In his career, he pushed himself. He recorded 2,198 tackles, which is the most in franchise history. He often proved that defense can turn the tide of a game by scoring eight defensive touchdowns, the second most in Buccaneers history. Fourteen seasons, 25 interceptions, six All-Pro selections, and 11 Pro Bowls earned him induction into the Pro Football Hall of Fame in February 2014 and the Capital One Academic All America Hall of Fame in August 2014. 

Big Bolt Invests in Tesker 320E

Big Bolt, a leading specialty fastener supplier, announced the acquisition of a state-of-the-art Tesker Model 320E 2-Die Thread Rolling Machine for its Bloomingdale, IL, USA, manufacturing site. Big Bolt reports in an online blog post, "This impressive machine underscores Big Bolt's commitment to providing its customers with the highest quality fasteners and unparalleled production speed. The Tesker 320E is renowned in the industry for its exceptional capabilities in medium-sized thread rolling." 

Source: American Fastener News Report



www.fastenertech.com
December 2022 Edition



Mike McNulty
VP & Editor
Fastener Technology International

PennEngineering® Europe Gets New MD



Source: PEM® Europe

PennEngineering® has announced the appointment of Gerard Quaid as the new Managing Director of PEM® Europe, effective immediately. He takes on the role with a wealth of experience and a steadfast commitment to continuing the company's legacy of innovation, operational excellence, and customer-centric solutions.


Quaid comments, "It is a privilege to step into this role. For decades, PEM® has been syn-

onymous with solving customer challenges, empowering employees, and delivering consistent value to stakeholders. I am honored to lead this remarkable organization and am committed to building on its strong foundations as we navigate the opportunities and challenges ahead."

Under Quaid's leadership, PEM® Europe is committed to solidifying its status as a global leader in self-clinch fasteners, connection solutions, and insertion technology. The company's strategic vision emphasizes robust growth driven by customer-centric innovation and collaboration, operational agility, speed to market, and a steadfast dedication to manufacturing excellence and environmental accountability. By fostering a culture of curiosity and professional development among employees, embracing advanced system selling

approaches, and championing sustainable practices, PEM® Europe is poised to continue delivering exceptional value to its customers while shaping the future of fastening and connection solutions.

PennEngineering® has embraced digital transformation across its operations, most notably at its Galway manufacturing plant, where the integration of cutting-edge technology has improved productivity and operational control. These advancements were recently recognized with the Medium Lean Business of the Year Award by Lean Business Ireland. Additionally, the company's new UK and Poland offices and warehouses strengthen its presence across the region, offering comprehensive fastener stock and a dedicated sales team to enhance customer support and streamline logistics.

"As I take on this role, my focus will be on protecting PEM®'s legacy while advancing our vision for a future of sustainable success," adds Quaid. "We are where our customers are, and we will continue to prioritize innovation, operational excellence, and stakeholder value at every step." PEM® Europe looks forward to an exciting new chapter under Quaid's leadership, advancing its mission to deliver reliable, efficient, and tailored solutions, for a dynamic and ever evolving market. 

LISI AUTOMOTIVE Divests NOMEL



Source: Magic Wand Media

LISI AUTOMOTIVE, a subsidiary of the LISI Group, is pursuing its refocusing strategy and has entered into exclusive negotiations with ZeroBaseInvest GmbH with a view to selling its French subsidiary LISI AUTOMOTIVE NOMEL SAS. ZeroBaseInvest GmbH submitted a firm offer to LISI AUTOMOTIVE

with a view to acquiring 100 percent of the shares in LISI AUTOMOTIVE NOMEL, which specializes in the manufacture of nuts by cold heading and washers by vertical cutting, notably for the automotive and industrial/distribution markets.

This subsidiary, located in La Ferté Fresnel, France, achieved sales of around €35 million in 2024, drawing on significant positions with automotive manufacturers including Stellantis, Renault, VW, and Nissan, as well as industrial distributors and manufacturers of screws and cage nuts. LISI AUTOMOTIVE's subsidiaries will contin-

ue to purchase washers and nuts for its customers' automotive applications.

This acquisition project completes the range of nuts produced by ZeroBaseInvest through its subsidiary ZB M+F, acquired from LISI AUTOMOTIVE FORMER in 2020. This disposal will enable LISI AUTOMOTIVE to continue refocusing its activities on high value-added fastening solutions and mechanical components for its automotive customers. This transaction is subject to certain conditions and obtaining the usual required authorizations. 

Bufab Grows in Italy with VITAL Deal


BUFAB

Bufab has acquired VITAL SpA, an Italian distributor of C-parts with net sales of €48 million in 2023, headquartered in Milan, as well as two additional branch offices. VITAL has been family-owned since its foundation in 1975 and is today run by the founder's sons, who will continue to manage the business. Its customers are primarily located in Italy from industries such as electrical, machinery, rail, and construction. In recent years, VITAL has achieved excellent growth and profit, with 57 employees and net sales of €48 million in 2023 and an operating profit margin above Bufab's 2026 profitability target.

The purchase price paid upon closing of the transaction amounts to €31.9 million on a cash-free/debt-free basis. In addition, a deferred purchase price of circa €11 million will be paid in two installments in 2025 and 2026. Finally, a performance-based additional payment (earn-out) of a maximum €11.2 million may occur in 2025, 2026, 2027, and 2028, conditional on improved

operating profit. The acquisition will be financed by Bufab's existing credit facility.

"I am very happy to announce this acquisition, as we see VITAL as a great opportunity to build up our Italian footprint and increase our service level to the customers. In the future, it can be used as a platform for add-on acquisitions and drive market consolidation in a highly fragmented market. Furthermore, we see that Bufab and VITAL complement each other well. We will also deepen our presence in Italy and southern Europe by learning from the VITAL team with great and long experience in the region," says Erik Lundén, President and CEO, Bufab.

"Over the past two years, we have gotten to know Bufab very well and are pleased to have found a partner that is a perfect fit for us. This deal comes at a good time in VITAL's development and will enable us to accelerate our growth journey. We are pleased that we, the previous owners, can continue as managers, and together with the whole VITAL family, we look forward to the cooperation with Bufab," highlights VITAL previous owners Daniele Pesce, Stefano Pesce, and Luca Bernasconi. 

LeankCo Expands with TITANOX Acquisition

LeankCo SAS, the holding company of CLUFIX, has announced the acquisition of TITANOX Group, strengthening its position in the technical fastening market and underlining its ambition to become a leading global player in the fastener sector. TITANOX, through its renowned brands such as RIVELIT® (blind rivets) and TITANOX® (self-clinching components), operates in France, Turkey, and China, boasting over 60 years of expertise in fastening technologies. Through high-quality products and the technical proficiency of its product managers and sales teams, TITANOX has established itself as a key player in the market, supporting design offices in the search for assembly solutions.



Source: Magic Wand Media

The acquisition of TITANOX will enhance LeankCo's international presence and innovation capabilities, as well as enable it to drive profitable growth through synergies between the two entities. It will also help strengthen LeankCo's existing markets and help it diversify into strategic sectors connected to climate and energy transition, including decarbonized mobility, clean energy, and sustainable construction. Further benefits for LeankCo include the expansion of its product portfolio by incorporating complementary solutions, such as blind rivets and self-clinching components. Plus, it will enhance its support for global cli-

ents, especially those with a focus on the automotive market, by offering more personalized local services and increased expertise.

"This acquisition aligns with a clear strategic vision shared by the management teams of both CLUFIX and TITANOX, as well as majority shareholder Galiena Capital, to transform LeankCo into a global group able to anticipate market evolutions and meet the growing demands of more demanding industries," explains LeankCo spokesperson. "By integrating TITANOX, we will equip ourselves with the necessary resources to continue innovating and supporting our clients in overcoming technical challenges, while consolidating our growth in rapidly expanding markets." 

NORMA Group Sells Water Unit

NORMA Group intends to focus on its core business as a market leader for joining technology, with the initiation of a divestment process for the global business activities of its Water Management business unit. This step is the result of an in-depth review by the Management Board regarding the further strategic direction of the company. The aim is to strengthen the market position of the remaining industry applications, mobility, and new energy business units.


Guido Grandi, CEO, NORMA Group, comments, "In a persistently difficult market environment, we have reviewed



Source: NORMA Group

our portfolio and are exploring divestment options for

the global Water Management business. In the future, we will concentrate even more strongly on our inherent core business areas, including mission-critical joining technology for mobility, infrastructure, machinery, and other industrial applications. We see high potential for profitable growth, especially in the area of industry applications, both organically and through acquisitions."

The divestment of the water business will enable NORMA Group to free up resources and capacities for further growth in the business units industry applications and mobility & new energy. These business units have many synergies, including similar or identical product groups that can be manufactured in the same plants. Respective products are metal clamps, pipe couplings, plastic quick connectors, fluid-transport systems, and other joining elements. 

Bulten, ZJK Form Vietnam JV



Source: Magic Wand Media

Bulten and ZJK Vietnam Precision Components Co Ltd, part of the Chinese fastener company ZJK Precision Parts (ZJK), have signed a letter of intent to establish operations in Vietnam through a joint venture—to be called Bulten ZJK Vietnam Company Ltd. Agreements have been signed between the parties with the aim of starting production in Vietnam in 2025.

The background to the establishment is an increased demand for domestically produced micro screws among international customers in the consumer electronics industry with manufacturing in India and Vietnam. In late 2023, Bulten entered into a joint venture with ZJK and Indian Radium Fasteners Private Ltd (Radium) for the manufacture of micro screws, and now a

similar establishment is planned in Vietnam.

"Bulten's strategy is to grow within customer groups outside of automotive, which is our largest and most established segment. In recent years, we have had good development in the consumer electronics segment, especially in Asia, and see this trend continuing. It is against this background that we are now taking the next step and establishing ourselves in Vietnam. This will increase Bulten's sales volumes and benefit profitability," says Christina Hallin, Interim President and CEO, Bulten. The new joint venture plans to rent production facilities, which means limited investment costs and risk-taking for Bulten. Bulten's ownership in the planned company will be 51 percent, and ZJK will own the remaining 49 percent. 

Würth Group Reshuffles Leadership



Source: Würth Group

Würth Group has appointed new members to three positions, effective January 1, 2025—supervisory board, advisory board, and executive vice-president of arts and culture. Prof Reinhold Würth, the prominent leader of the Würth Group for decades, will hand over his position as chairman of the supervisory board to his grandson Benjamin Würth. Benjamin has been working for the company for 25 years and has gained extensive professional experience both at a national and international level. Reinhold Würth will remain honorary chairman of the supervisory board.

Secondly, the advisory board consists of nine members, most of which are non-family members. It has been chaired by Bettina Würth, the daughter of Reinhold Würth, since 2006. Bettina will hand over her position as chair of the advisory board to her nephew Sebastian Würth. Sebastian has been working for the company since 2012 and holds a Master of Arts in Family Entrepreneurship. Bettina is also a member of the supervisory board and will become honorary chairwoman of the advisory board. Finally, Sylvia Weber, in charge of art and cultural activities, will transfer most of her tasks to Maria Würth, the daughter of Bettina. Maria holds a Master of Arts in Art History from the University of Tübingen and mentored by Sylvia, has prepared herself for this position since 2018. [FAI](#)

Etanco Italia Joins Friulsider SpA

SI. COP Etanco Srl, also known as Etanco Italia, has been incorporated into Friulsider SpA, since November 1, 2024. The merger is one of the natural consequences of the acquisition of the French Etanco Group, by the American multinational company Simpson Strong-Tie, which took place in 2022. It is part of a series of synergies implemented in order to consolidate the Group's presence in Europe.

Friulsider's production and logistics spaces have recently been strengthened, to support growth and accommodate the Etanco business unit, optimizing flows and management, while the commercial offices and the operational headquarters will remain in Milan to ensure continuity of service to customers. SI. COP Etanco is the Italian branch of Etanco Group, specialized in the sector of fixings and accessories for ventilated roofs and façades since 1952. The Etanco business, unlike Friulsider, provides a direct sales model and strong support on the design side. The Group serves over 18,000 customers distributed in more than 50 countries worldwide, generating a turnover of €260 million per year. [FAI](#)

Source: Fastener + Fixing Magazine

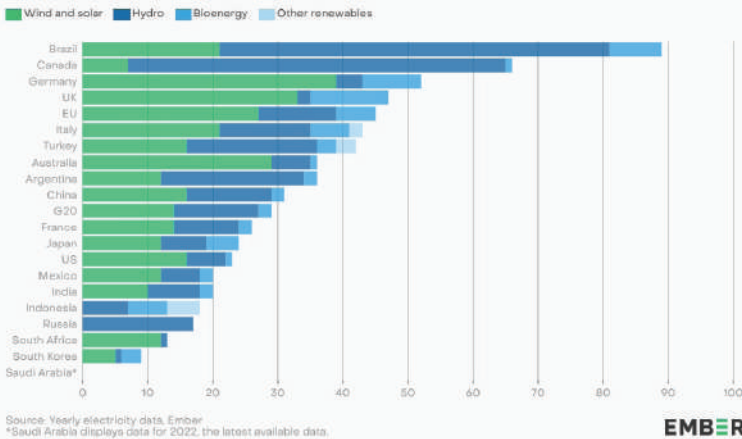
**FASTENER
+ FIXING
MAGAZINE**



Will Lowry
Editor
Fastener + Fixing Magazine

Brazil has the highest share of renewable electricity in the G20

Renewable share of electricity generation, 2023 rankings (%)



Harnessing Nature's Power

Brazil, among G20 nations, has emerged as a global leader in renewable energy, generating a major share of its electricity from renewable sources in 2023. As reiterated by Kostantsa Rangelova, Global Electricity Analyst, Ember—an energy think tank, “The rest of the G20 can follow Brazil’s successful model and lead the global transition to a sustainable energy future. In the case of renewable energy, Brazil is the country leader among G20 Group, providing around 89 percent of its power during the year of 2023.”

With a strong tradition of being reliant on the use of hydro-electric energy, now the country’s local governments and companies are rapidly adopting new and cleaner sources, such as solar and wind power. According to Ember, hydro-electric leads Brazil’s energy share, contributing a staggering 60 percent. It is followed by wind & solar (21 percent), which reflects a rapidly ascendant share in the country’s renewable energy landscape, and bioenergy (8 percent), with the rest catered by non-renewable sources (11 percent). [FAI](#)

Belenus Powers Up with Sunshine



Belenus Ltd, a major player in South America’s fastener market, is taking significant steps toward sustainability by adopting renewable energy sources. Recently in 2024 the company opened a new building of 25000 m² right beside its fastener factory unit in Vinhedo, São Paulo, Brazil. This facility accommodates around 450 employees, and is becoming 100 percent self-sufficient in electrical energy, thanks to its extensive installation of photovoltaic generators and batteries. Overall, the green energy installation has 2,260 photovoltaic modules (550W each), 60 batteries (5kWh each), and 5 hybrid inverters (50kWp each). This system generates approximately 150,422 kWh per month, ensuring a sustainable energy supply for the company’s operations. [FAI](#)

NEF Bolts Toward Clean Energy

Naschold Elementos de Fixação (NEF), a Brazilian fastener manufacturer founded in 1980, produces several kinds of metallic items through cold forming processes. Its portfolio includes little size items of rivets, screws and bolts, pins (flat, knurled, smooth), and rollers for bearings, all produced by National Machinery press, a North American manufacturer specialized in the fasteners sector.

Recently, NEF made modernization investments for the

conversion to sustainable energy, with a goal of meeting 100 percent of its electricity needs through solar power, according to Roland Naschold, CEO, NEF. “We already have 460 photovoltaic panels installed in a land area of 1,500 m². In 2023, NEF consumed 361 megawatts (MW) of electricity from the local concessionaire. Soon, our solar generation will reach 362 MW per year, practically making the bill zero, with a return on investment (ROI) in five years,” said the CEO. [FAI](#)



Metalúrgica SAM Tightens its Legacy



Metalúrgica SAM, a Brazilian manufacturer specializing in nuts, has been catering to sectors that demand mainly heavy metallic items, since its founding in 1964 in São Paulo, Brazil. Since 2000, the company has been led by José Ferreira Rosa (known as Zinho), its owner and CEO.

The company produces high-quality nuts for sectors such as automotive, road and agricultural equipment, machinery, oil and gas, naval industries, electrical transmission, and wind energy generation. It is certified with ISO 9001 and CRC (Petrobras certification), and its nut lines are manufactured using pressing and machining processes, including CNC machines.

Metalúrgica SAM produces items with sizes ranging from M3 to M120 at its 2,000 m² headquarters in São Bernardo do Campo, capable of processing over 130 tons per month.

"We can produce very large nuts every five minutes," said Rosa, who spent almost three decades as Manager of the famous fastener distributor Cisplatina, before taking over already existing SAM—initials of the former owners: Salvador, Alcides and Manoel. "I took over SAM when it was in the Lapa neighborhood, São Paulo, at age 36, with just five employees. Today, SAM has grown to employ 40 people and continues to expand its capabilities." **FAI**

Forte Fixadores Expands to USA



Forte Fixadores is a Brazilian manufacturer of bolts, screws and a wide range of metal fasteners to use in bolted joints, especially in large structures application, such as wind and hydroelectric energy, oil & gas, mining, alcohol production, and general industries.

Founded in 2012, the company is relatively young, with its factory and headquarters in Mauá Town, São Paulo State, Brazil. Recently, after expanding its operations, the company adopted the name Forte Group USA. In January, the group announced its entry into the US market with the opening of its first international business unit, according to Barbara Silva, the company's marketing head. **FAI**

IATF 16949 Update Hits Brazil



Brazil has 1,171 automotive parts manufacturers certified in accordance with the requirements of the International Automotive Task Force (IATF). For these companies to maintain certification, export, and market their products to large automakers, they need to adapt to the new rules of the 6th Edition of IATF 16949 and replace the 5th Edition.

"The new rules include changes to the maximum audit time, the end of the preliminary audit, and a ban on certification bodies offering consultancy on the quality management system, in addition to new deadlines for the audit process," says Plinio Pereira, Manager, TÜV Rheinland - Brazil. Compliance with the new rules ensures transparency in administrative and manufacturing processes, including product traceability, corporate accountability, and customer protection against component quality issues.

"Only one certification body may audit the production site and a nearby extended site. It is also prohibited for the certification body to provide consultancy on the customer's quality management system," he adds. "Each production site may have two annual maintenance audits, with an interval of -3/+3 months from the last day of the initial, transfer or recertification audit." **FAI**

Brazil's Fastener Imports Surge

Exports and imports of bolts, screws, nuts, rivets, nails, and similar metal fastening articles (made in iron, steel, copper, or aluminum), historic series from 2013 to 2024.

Years	IMPORT				EXPORT			
	US\$ (millions)	Thousand tons	Variations		US\$ (millions)	Thousand tons	Variations	
2013	1,048	191	13%	16.2%	136	26.4	-6.8%	1%
2014	962	182	-8.2%	-4.8%	131	25.5	-3.4%	-3.4%
2015	761	151	-20.9%	-17.2%	114	24.9	-13.6%	-2.1%
2016	619	107	-18.7%	-28.8%	107	29.4	-5.5%	18%
2017	748	130	20.9%	21.3%	126	31.1	17.4%	5.7%
2018	860	148	15%	13.7%	161	34.2	27.5%	9.7%
2019	847	146	-1.6%	-1.4	194	29.6	20.7%	-13.5%
2020	684	125	-19.2%	-14.4%	137	26.9	-29.5%	-8.9%
2021	934	205	36.6%	64.2%	153	58.6	12.1%	117.6%
2022	1,052	207	12.7%	0.9%	184	38.4	20.2%	-34.3%
2023	977	189	-7.13%	-8.6%	182	30.7	-1%	-20.06%
2024	1,131	252	15.77%	33.33%	161	25.5	-11.54%	-16.94%

The Brazilian market faced drastic changes due to a heavy depreciation in the Brazilian Real (R\$) currency value. The currency exchange rate for US\$ 1.00 changed from R\$ 4.89 at the beginning to R\$ 6.19 at the end of 2024, resulting in a 26.5 percent increase. Even so, in the fastener sector, as the import beat its own record, export did not witness the same growth. According to the Brazilian Ministry of Development, Industry, Trade, and Services (MDIC) report, during the year 2024, the country beat its own record on fastener imports. Considering the values recorded during both 2013 and 2022, that is the third time fastener imports exceeded the US\$ 1 billion barrier, and for the first time the annual volumes exceeded 250,000 tons.

Fastener Import Trends (2013–2024):

2013: US\$ 1.048 billion, 191,000 tons, US\$ 5.48/kg (FOB price)

2022: US\$ 1.052 billion, 207,000 tons, US\$ 5.08/kg (FOB price)

2024: US\$ 1.131 billion, 258,000 tons, US\$ 4.47/kg (FOB price)

China remained the top supplier to Brazil, importing US\$ 321 million worth of fasteners, leading to 28.4 percent of total imports during the period. Followed by USA with US\$ 189 million, Germany with US\$ 94.9 million, Japan with US\$ 84.3 million, and joined by Italy with US\$ 84.5 million, as the top five suppliers to Brazil during this period.

The fastener export side of Brazil experienced substantial decreases in comparison to the import figures. With a little more than US\$ 161 million in overseas sales and the sixth-best result since 2013 in revenue, it marked a fall of 11.54 percent compared to 2023. In terms of volumes, exports were 25.5 million tons, placing 2024 at the 11th-best result in the historic series, but a decrease of 16.94 percent compared to the year 2023. [FAI](#)

Top 10 Fastener Suppliers to Brazil (2024)	
1.	China – US\$ 321 million (28.4%)
2.	USA – US\$ 189 million (16.7%)
3.	Germany – US\$ 94.9 million (10.8%)
4.	Japan – US\$ 84.3 million (7.4%)
5.	Italy – US\$ 84.5 million (7.4%)
6.	France – US\$ 66.1 million (5.8%)
7.	Taiwan – US\$ 35.1 million (3.1%)
8.	Sweden – US\$ 32 million (2.8%)
9.	India – US\$ 27.7 million (2.2%)
10.	UK – US\$ 19.6 million (1.7%)

Top 10 Fastener Export Destinations (2024)	
1.	Argentina – US\$ 37.8 million (23.4%)
2.	USA – US\$ 34.7 million (21.6%)
3.	Paraguay – US\$ 18.3 million (11.3%)
4.	France – US\$ 8.49 million (5.2%)
5.	Germany – US\$ 8.01 million (4.9%)
6.	Peru – US\$ 3.06 million (1.9%)
7.	Chile – US\$ 5.84 million (3.6%)
8.	Mexico – US\$ 5.9 million (3.7%)
9.	Colombia – US\$ 4.79 million (2.9%)
10.	India – US\$ 2.9 million (1.8%)

Brazil Fasteners Rebound

A short view of the local fasteners market in 2024 up till November, though incomplete, highlights a rebound trend. It includes a summary of what happened in Brazil's industrial sectors, where a lot of fasteners are consumed, and therefore are very representative of the players in the supply chain that involves screws, bolts, nuts, washers, rivets, and others, in addition to technological services, coatings, and final application.

First, it is important to mention that the production of the domestic steel sector in Q1 and Q3 2024 was 25.2 million tons of steel, 4.26 percent higher than the same period in 2023, which in turn closed the year with 32 million tons. Underlining the progress, Brazilian industrial production, among automobiles, motorcycles, home appliances, and electronics products, has demonstrated a robust performance. These gains reflect a great end to 2024 and pose an optimistic outlook for 2025—if nothing breaks along the way in the economic and political macroenvironment, nationally and internationally.

Automobiles

Brazilian motor vehicle production stood at the 9th position globally for the year 2023, reporting 2,324,838 units in Dec 2023. China led with 30,160,966 units, followed by the USA (10,611,555 units), Japan (8,997,440), and Germany (4,109,371). It is estimated that each passenger car (not electric) requires 30 kg of fasteners, which indicates an apparent annual consumption of around 7.4 million tons of screws, bolts, nuts, and similar items, produced in and outside Brazil. In addition, there is a robust consumption from the aftermarket, currently orbiting 110 million vehicles in circulation in the country.


Brazil, and other countries, have not yet recovered the levels produced in 2019. On the other hand, the car prices have risen sig-

nificantly. By comparison, until 2020 in the US there were 17 car models under US\$ 20 thousand, and today there are only six, as per Jalopnik, a news and opinion website. In addition, car purchases by young people are falling, who in turn increasingly choose to use public transportation and app-based taxis. It is also worth noting that the drop attributed to high prices is significant in Brazil, where the average income is low, currently at US\$ 10,300 per capita, even though it is the 8th largest global economy, with a GDP of US\$ 2.173 trillion in 2023.

Motorcycles

The motorcycle 2-wheeler segment, unlike the 4-wheeler, is living its golden years. After producing 1.573 million units in 2023, surpassing the previous peak of 1.511 million in 2014, before the 2015-2017 recession. Between Q1 and Q3 2024, more than 1.323 million were assembled, an 11 percent higher than the same period in 2023, an expansion apparently driven by the growth of delivery services in the country. Projecting to close this year with 1.745 million motorcycles and an average of 6 kg of fasteners per unit, apparent consumption in assembly lines is expected to reach around 10,000 tons. It excludes the aftermarket involving 32 million motorcycles in circulation in the country.

Home Electronic Appliances

Between Q1 and Q2, sales of home electronic appliances in Brazil increased by 34 percent compared to the same period in 2023. This is the highest level over the historical series, according to Eletros and Forbes Brazil. On average, 12.9 million units have been sold per year, specifically among washing machines, stoves, and refrigerators. In the recent Q1 and Q2, there were 7.3 million more units, 16 percent more than the same period in 2023. Represented by 33 companies, this sector is equivalent to 3 percent of the national GDP, with 200,000 direct jobs shared among 51 factories in the country. In short, all these sectors are strong consumers of fasteners, in addition to the construction and renovation sector of residential, commercial, and industrial properties, which represents around 10 percent of the GDP. Additional contributions come from oil & gas, as well as renewable energy projects from hydroelectric, wind power, and solar sectors. 

Source: Revista do Parafuso
(The Fastener Brazil Magazine)

REVISTA DO PARAFUSO



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Fang Sheng Screws Advances Carbon Goals




Fang Sheng Screws, a leading Taiwanese socket screws and special products manufacturer, has been making staged achievements in corporate organization and carbon reduction in product manufacturing with a proactive and forward-looking pace and management in recent years—ahead of CBAM's full implementation on January 1, 2026.

After obtaining the ISO14067 product carbon footprint certification issued by French AFNOR International, Fang Sheng further completed the audit of ISO14064-1 greenhouse gas (GHG) inventory certification in November 2024, which is expected to have a formal certificate issued upon completion of the final review by the verification unit. After the introduction and implementation of ISO14064-1 and ISO14067, the company will start the application for ISO14068-1 carbon neutrality certification in the future. Through the full implementation of CBAM-related international standards, Fang Sheng will demonstrate to global partners and customers its capability of achieving the goal of carbon neutrality and enhance its competitiveness together with customers, hopefully gaining more advantages and opportunities for itself in response to the reshuffling effect that may be triggered by CBAM in the future market.

Fang Sheng's 10-year carbon reduction plan integrates many sub-projects, among which the addition of self-generated and self-consumed solar panels and the upgrade and replacement of heat treating and spheroidizing furnaces are priorities in the next few years. It is known that the installation of solar panels in Plant no. 2 is divided into two phases. The first phase has already been completed and the second phase is expected to be completed, no later than Q1 2025. It is estimated that the installation of solar panels alone will help the company reduce carbon emissions by at least 15-20 percent annually. As for the replacement of heat treating and spheroidizing furnaces and improvement of energy consumption, it is expected to be promoted gradually in the next few years. In addition, by prioritizing the improvement of energy consumption in power and heat treatment, Fang Sheng expects to accelerate the achievement of significant results in carbon reduction. In the future, it does not rule out the possibility of more

diversified carbon reduction in areas such as energy storage equipment and hydrogen reuse. Although Fang Sheng has already obtained the ISO14067 certification and the procedure for getting the ISO14064-1 certification has been almost done, its effort on getting more CBAM certificates is still ongoing. In 2025 the preparations for the ISO14068-1 certification will be commenced, including the education and training of relevant personnel and further development of medium- and long-term carbon reduction planning based on the ISO14064-1 (Scopes 1 & 2) and the ISO14067. It is hoped that through prior education and training, relevant personnel will be able to deeply understand the actual meaning of the regulations and review whether the actions taken based on ISO14064-1 and ISO14067 are correct and appropriate, and will set specific carbon reduction targets and implementation directions based on the training results to ensure that the future carbon reduction strategy is more systematic and forward-looking. It is expected that in a few years external organizations will be invited to successively provide specialized counseling to accelerate the certification process through professional resources, shorten the time to achieve carbon neutrality, and move towards the goal of sustainable development in a comprehensive manner.

"We hope to reduce our carbon emissions by 15-20 percent between 2026 and 2027, with a further 10 percent reduction after 2028, and a 30 percent reduction in total by 2030 as the first phase target," says Jess Tsai, General Manager, Fang Sheng, who is responsible for coordinating and planning the overall direction of carbon management. 

Taiwan Cracks Down on Greenwashing



Taiwan Ministry of Environment on December 6, 2024, announced a draft regulation stating that products with no carbon footprint certification will not be allowed to use or display carbon footprint labels. Companies found to be 'greenwashing' or using labels arbitrarily may

face fines ranging from NT\$ 10,000 to NT\$ 1 million. Additionally, considering the shortened life cycle of many products today, the validity period for carbon footprint labels will be reduced from five years to two years.

The Ministry stated that shortening the label's validity period will enhance its effectiveness and better demonstrate the product's carbon footprint to external parties. Large companies are required to pay carbon fees and conduct an annual carbon inventory. The carbon footprint label is voluntary and depends on the companies' objectives and whether they disclose their figures. Therefore, a shorter period of two years is set. A representative from the General Chamber of Commerce of Taiwan pointed out that applying for a carbon footprint label takes three to five months, and third-party verification also requires time.

The representative suggested extending the validity period to three years. In response, the Ministry indicated that it is currently in preliminary discussions with relevant verification agencies to simplify some verification processes for simpler products, aiming to minimize cost impacts.

Currently, there are six verification agencies that meet Taiwan's Government standards: the British Standards Institution (BSI), TÜV Rheinland, Bureau Veritas Certification (BVC), SGS Taiwan, AFNOR Asia, and the Agricultural Technology Research Institute (ATRI). Taiwan Ministry of Environment noted that several other organizations are also in the application process, so verification capacity will continue to increase. Representatives from verification agencies also advised the Ministry to reference international practices, which is to simplify processes and reduce costs by implementing a license extension system. They expressed hope for utilizing remote videoconferencing for audits to enhance administrative efficiency in the review process. [FAI](#)

Taiwan to Set 2032 Carbon Goal



Taiwan's President William Lai chaired the second meeting of the National Climate Change Committee on October 24, 2024. In the meeting's conclusions, it was noted that Taiwan Ministry of Environment reported plans to set a new carbon reduction target for 2032. In 2025, countries around the world will submit their updated Nationally Determined Contributions (NDCs) for 2035, and Taiwan must align with global efforts. Taiwan's new carbon reduction target for 2032 will be presented at the next committee meeting, aiming to build consensus.

The President emphasized that Taiwan should have a net-zero emissions goal, and both the central authorities and local governments must establish their own targets to accelerate two

key tasks. First, an internal carbon audit must be completed, including assessments of water, electricity, and fuel usage, referencing the private sector's practices. The electrification of government-used vehicles is expected to be completed by 2030. Additionally, all public sector buildings, both new and existing, should lead by acquiring 'Building Energy Efficiency Labels' and set target years for completion along with annual performance indicators to guide the private sector's participation.

President Lai also highlighted the need to enhance green procurement as the second task. In addition to special budgets allocated for green procurement each year, the central government should set an example by gradually increasing the proportion of green procurement in its annual budget. The current target is to reach 10 percent by 2030, with discussions on potentially achieving even higher percentages. The President pointed out that 'energy conservation' is a crucial first step. This requires full commitment from all authorities and consideration of how to effectively use administrative regulations to guide efforts. Collaboration between public and private sectors is essential to create innovative business models that will help achieve the goal of saving 20.6 billion kilowatt-hours of electricity over the next four years. [FAI](#)

Hu Pao's ESG Commitment Recognized




Hu Pao Industries, a professional nut manufacturer in Taiwan, is actively introducing ESG sustainability and net-zero transformation concepts. The company aims to achieve carbon neutrality and become a low-carbon solution provider. Recently, Hu Pao participated in the SBIR program promoted by the Tainan City Government, which encourages SMEs to research industrial technology and product innovation. In 2024, the company was recognized as one of the top 10 performers among 55 grant recipients. Bill Wang, General Manager, Hu Pao, attended the awarding ceremony on November 25, 2024, at WinWin Innovation & Incubation Base in Xinying (Tainan), where Hu Pao was recognized as one of the Best 10 performers. He showcased the award-winning 'Carbon Reduction Savior - Waste Oil Recycling Trough' to Tainan City Mayor Wei-Che Huang.

Waste oil generated from production lines will have a great impact on the environment if it is not properly treated. The Waste Oil Recycling Trough introduced in Hu Pao's production lines converts waste oil into reusable low-carbon-emission lubricant through innovative technology, effectively reducing the impact of waste oil and carbon emissions on the environment, lowering raw material costs, and realizing the purpose of recycling and reusing resources.

"We've seamlessly integrated the Waste Oil Recycling Trough into the production lines to streamline operations and improve resource efficiency. We also monitor the equipment data in real time through the Internet, which is then sent to the ERP system for the management to make accurate decisions," explained Wang. "In addition, staff training has been strengthened to familiarize them with equipment operation and make them

understand the environmental benefits. In this way, not only will our carbon emissions meet international standards to enhance competitiveness, but we will also be able to respond to possible policy changes after the implementation of CBAM. This is also an important step for us to continuously attract sustainability partners to create long-term economic benefits."

Under the principle of sustainability, Hu Pao has set itself a carbon reduction target of 60 percent by 2032, 80 percent by 2042, and net zero by 2050. It has also introduced the ISO50001 energy management system, purchased low-carbon materials, used reusable resources, developed green energy concepts, emphasized environmental protection and social responsibility, provided free veggie lunches for employees, and joined 'Zero+ College'. It has been responding to CBAM with proactive strategies and forward-thinking. In addition to obtaining ISO 14064-1:2018, it has continued to monitor carbon emissions data, increase employee participation in carbon reduction, invest in new technologies/equipment, strengthen cooperation among industry, Government, and academia, and participate in international exhibitions, so as to let customers know its efforts in carbon reduction. 


JCY Revolutionizes Fastener Production

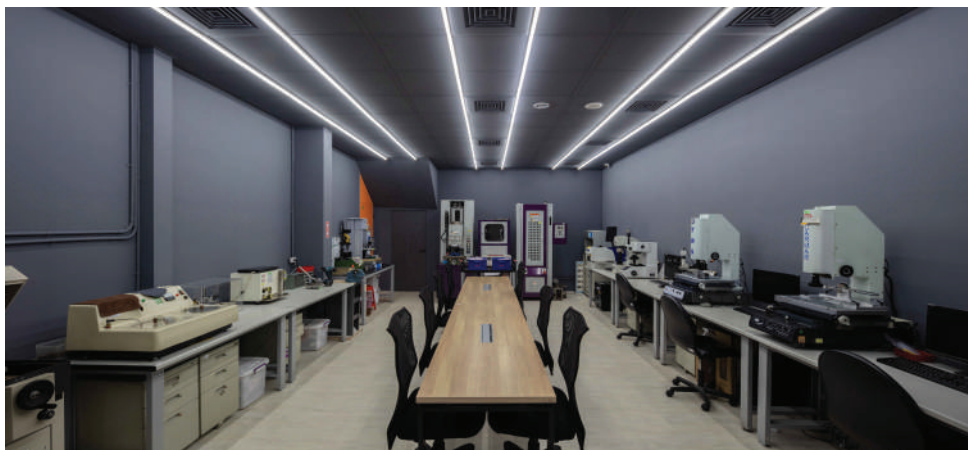


Masterpiece Hardware Industrial Co., Ltd. (JCY) is an iconic quality fastener supplier in Lukang, Changhua City in Taiwan, producing screws, nuts, plastic, and zinc alloy fasteners for the global market. Aware of manpower shortage in the fastener industry and the trend towards low-volume, diverse, and customized production, JCY invested in and introduced an automated intelligent factory in 2017, which has enhanced production efficiency and product quality, breaking away from the messy environmental impression of traditional industries and attracting people from the new generation. Digital transformation has positioned JCY as a preferred supplier for European and American clients. Rick Wang, President, JCY, stated that this smart factory transformation is not about reducing manpower but rather about placing people where they can provide real value and productivity. The company boasts a strong team of specialized engineers without having to rely on veteran craftsmen's experience in die manufacturing. By combining equipment, sensors, and software to analyze big data, they can calculate optimal parameter settings to shorten product development timelines and enhance design precision. JCY is devoted to developing high-value patent products by modularizing and parameterizing dies to reduce tooling setup time by 65 percent, allowing employees more time to focus on such products. It is also set to obtain IATF 16949 certification and expand high-value products into various industries. The company integrates automated equipment with systems to gain optimal and the most stable production parameters and automatically generate traceable production histories, reducing quality anomalies and downtime. The sensors on the equipment effectively monitor tooling status in use, predicting wear, and

enabling preemptive maintenance to extend tooling's life by 40 percent, significantly lowering waste and production costs. An online reporting system allows real-time monitoring and optimizes production processes, quickly catering to client inquiries about production progress and lead time while flexibly adjusting production schedules based on client needs.

JCY adopts a fully automated inspection system that replaces conventional machines requiring manual dimension input. It also developed an automatic optical inspection machine with 100 percent measurement accuracy that can determine product compliance in 3 seconds and generate visual data to eliminate human error in inspection and data transcription. The company also plans to introduce auto-sampling equipment for 24-hour auto-inspection!

Set for trial production in 2026, their new plant in Zhangbin Industrial Park covers 40,000 m² and will utilize wastewater recycling, oil filtration, thermal energy recovery, and storage systems to achieve energy savings and carbon reduction. While incorporating the aforementioned smart manufacturing system to become a one-stop production operation around the clock. Once completed, production capacity will more than double with a product yield rate of 99 percent. Further, from 2023, the company has been able to use software to auto-input carbon emission data and generate CBAM compliance reports for clients. Following the whole plant reform, JCY aims to shorten lead time, accelerate development, lower production cost, and increase added value to become a stronger low-carbon procurement partner. 



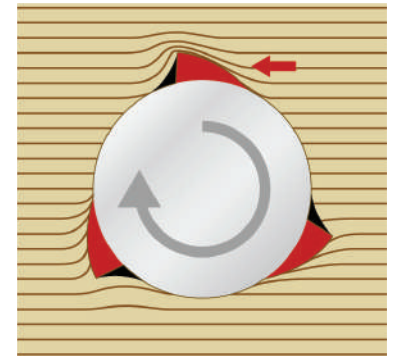
Kwantex Innovates for a Sustainable Future



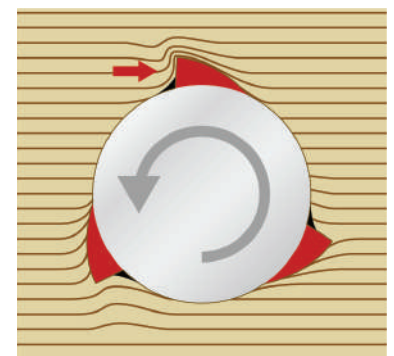
Hex Head



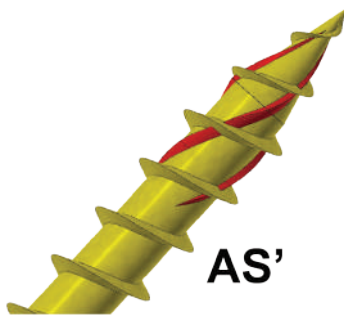
KTX-Convex Head



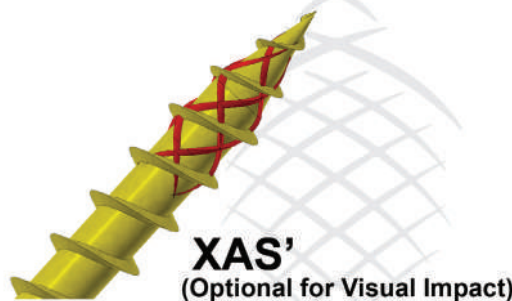
Screw Driving-in
Reaming the hole,
not to cut the wood fiber



Screw Backing-out
Generating resistance,
anti-loosing



AS'



XAS'
(Optional for Visual Impact)

Kwantex Research Inc. has been an R&D-oriented company since 1996. In recent years, the company has continuously developed new products and applied for new patents as well as safety certifications in different countries. It hopes that through the functions and performance of new products, it can help customers increase market share and ensure it stays competitive within the global market. The latest innovative products are as follows:

TTX® Drive and Bit: TTX® Drive features a special six-hook design that helps avoid cam-out and offers superior fit quality with TTX® Bit and maximizes torque transmission. TTX® Bit fits all 6-lobe drives, and all 6-lobe bits fit TTX® Drive.

Archimedes' Secret® (AS'/XAS') Thread: AS'/XAS' Thread can fast grab the wood surface and ream the hole without cutting the wood fiber, so the thread root can connect with the wood, thus increasing the tightness. AS'/XAS' Thread also reduces the driving torque, anti-split, and anti-loose and remains the pull-out value, a great design to replace regular TY-17 or two cuts on the thread.

KTX-Convex (VK) Head & VN Nut: Screws or bolts with KTX-Convex (VK) Head offer stable and high torque transmission, no wear out, no overdrive, and no slippage during installation. The special shape design of the VK head and VN nut enables them to be held firmly by hand.

Investing in ESG, Kwantex has established an environmental management and greenhouse gas investigation team and a sustainable development team to provide employees with a safe, healthy, and friendly environment, implementing local care, social participation, and environmental sustainability



(education, culture, assistance, and environmental protection). Kwantex also obtained ISO 14064-1:2018 (Greenhouse Gas Verification Statement) in 2022 and ISO 14067:2018 (Product Carbon Footprint Verification Statement) in 2023. Kwantex' ESG sustainability report was also completed at the end of 2024, with the company also committing itself to green electricity in 2025 as a practical manifestation of its investment in corporate governance, environmental sustainability, and social care. [FAI](#)



Source: Fasteners World Inc.

www.fastener-world.com.tw



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- Powder Coat - PC
- Electro Galvanized - Z
- Yellow Zinc - YZ
- Fibre-reinforced Plastic - FR
- Stainless Steel 304 - S4
- Aluminum - AL
- Stainless Steel 316 - S6

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