

2025

Press Pack

Our fasteners enable innovation
today to build a better tomorrow





Delivering value through engineering fastener supply chain simplification

By FastFixTechnology.com



Across a number of industries – in particular the Electric Vehicle (EV) market - TR Fastenings works closely with its customers to simplify their supply chains. We sat down with John Dick, global procurement director at Trifast Plc, to discuss how, through close cooperation and technical know-how, the company was able to create a new fastener solution for use in an Electrical Vehicle (EV) charging unit, whilst also simplifying the customer's supply chain.

John explains: "In the beginning, our customer approached us needing a safety critical component that was conducting electricity and needed to do so safely - at a cost that would be acceptable to the market. It was quickly clear that a standard fastener was not going to be a solution so we began to work closely with the customer to fully understand the requirements of the EV charging station. The challenge was to find the engineering and manufacturing capabilities to manufacture a safe part to specification, ensuring safety of both the component and the operator."

However as well as specific material requirements, the design of the part was still under a lot of deliberation. John outlines: "The duration of the design phase took the best part of 12 - 18 months because the connector was under such a high-level of scrutiny for the EV market. Once a prototype had been made and the customer was happy, we actually ended up supplying not only the newly created fastener solution, but the charging and handle unit itself, in order to simplify our customers' supply chain. The customer was

therefore able to reduce its vendor base and very importantly, the product was a quality safe to use product."

"Our strategy as an organisation is not to just sell a fastener, it is to deliver value to the customer through engineering and supply chain solutions. TR looks at supply chain simplification from both goods incoming from suppliers, as well as how we then deliver the service to the customer. This involves adapting to ever changing customer needs. We have recently started to look at the options of creating the availability of vending, which - whilst not new to the industry - has a slight difference in that TR will be offering vending for very specific needs and high value items."

"Working with our customers to understand exactly their needs and how to bring flexibility by adapting to requirements in a short space of time - is TR's strength. TR brings added value to customers' production."

Other services include technical drawings and information available to download straight away, as well as technical videos and animations on correct installation processes. John explains: "We have the knowledge and know-how to map out a customers' production, understand their needs and work with the customer to meet the goal - in the shortest time possible. We have a global engineering team - ready to assist the customer, as well as the capacity to offer call out opportunities, fast delivery times, as well as a quality department."





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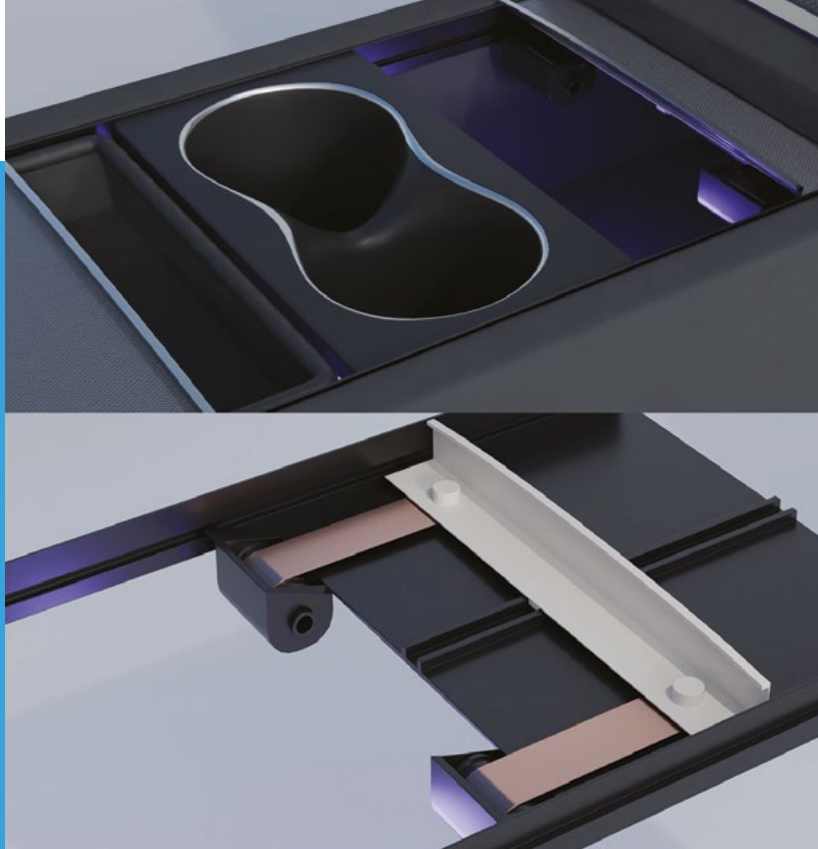
John concludes: “There is so much to consider when thinking about fasteners – fasteners really are the unseen heroes. Fasteners are all around us and without them, nothing gets held together. TR offers end-users across a number of industries the full package and is committed to sustainably driving our customers’ success by simplifying their fastener supply chain and supporting their technical requirements through world-class engineering and manufacturing capabilities.”





Collaboration for bespoke solutions

By FastFixTechnology.com



Whilst looking for a new and complex component to be installed in the centre console of its latest model, a well-known Electric Vehicle manufacturer based in the USA has worked closely with TR Fastenings to create a tailored spring and spool system, in collaboration with its global sales & engineering team.

Patrik Ringdahl, engineering manager at TR Fastenings who worked on this project, explains more: “The automotive industry has very high demands for precision, quality, and consistency. The EV manufacturer required bespoke spring and spool products for integration in the interior of the car. The challenge was to achieve precise and consistent movement of the centre console’s sliding mechanisms, with three variations developed for installation in the tray, cup holder and lid.”

The solution is a bespoke spring which is preassembled to a polymer spool. Patrik continues: “The customer struggled to find a partner capable of supplying the integrated spring and spool unit, and developing clear specifications for such a product was unfamiliar terrain for them – and at first, even for us. With the support from within our vast array of approved manufacturing sources, we were soon able to establish a technically feasible concept solution.”

In order to create a smooth and continuous motion, the spring performance was matched with a damper to ensure the console travelled smoothly, even when subject to vibrations due to vehicle movement. The spool was manufactured from a specific polymer and designed to align with the geometry of the spring and mating carrier components – which enabled low friction when

sliding the assembled parts without stick-slip, causing squeaking. Ultimately, the spring and spool assembly translates rotational torque into a linear sliding motion.

TR teams from the USA and Sweden worked alongside global manufacturers to solve this engineering challenge. “We did extensive research and had many interactions with experts in the manufacturing field. These relationships are so important. To have transparency around the challenges and capabilities – this open communication helps us find the right solution,” explains Patrik. Despite the initial challenge, TR was able to provide a full-service provision, offering extensive technical expertise from initial design and prototyping of the product to full serial production.

Patrik adds: “One of our greatest strengths is the breadth and diversity of our manufacturing capabilities. Thanks to our supplier relationships and our strong understanding of the manufacturing technologies – this helps us visualise how the product should be made.”

Through collaboration with its customers, as well as utilising its own global teams, TR has created a custom spring and spool system specially tailored to its customer’s requirements.





TR's journey to 'Recover, Rebuild and Resilience'

By Fastener + Fixing Magazine



After celebrating 50 years of providing customers with engineered fastening supply chain solutions in 2023, TR Fastenings (TR) has developed a new strategic transformation plan; 'Recover, Rebuild, Resilience'. Here we speak to Dan Jack, Chief Commercial Officer & Managing Director, UK & Ireland, about what this new strategy and growth plan means for both the business and its customers.

Can you explain your new 'Recover, Rebuild, Resilience' strategy, as well as what other key developments TR has introduced over the past two years?

"Our purpose is to sustainably drive our customers' success by simplifying their fastener supply chain and supporting them in their technical requirements, through our world-class engineering and manufacturing capabilities.

When starting our strategic review process last year, we felt it was important to reflect on the strong proud legacy of being a passionately customer focused business, whilst taking the time to understand how customer needs are changing and how our differentiated capabilities can ensure that we recover, rebuild and deliver a resilient future.

We recognise that our role is to help our customers remove and manage complexity in their fastener supply chain and add value to our relationship through the engineering and manufacturing talent and capabilities within the business. We are rightly proud of the high-quality, reliable and responsive solutions that we provide our customers every day and of the knowledge

and expertise we can leverage to help them succeed. Our ambition, described through our 'Recover, Rebuild, Resilience' journey, is to create a high-performing TR that is a safe, inclusive and an enjoyable place to work for our employees.

This new strategy has enabled us to bring focus to our business and recognise the things that we do really well, and at the same time have tough conversations on areas that haven't worked as we had hoped or expected. Over the years we have developed ways of doing things, acquired and built on certain expertise across global markets and it was important for us to reset with a clear strategy, purpose and set of values for our colleagues to embrace, which are in turn understood by our customers, shareholders and our suppliers - our 'OneTR' culture. 'OneTR' develops a sense of pragmatic team spirit, understanding individual roles, objectives and focuses. 'As a TR team member, what am I here to do? What does my purpose look like? How do I work together with my colleagues to get the best outcome?'

An example of this is our Engineering team, made up of talented people across the globe who really bring value to the customer, where we have now unified our entire global Engineering team under Sven Brehler, as Director of Engineering. 'OneTR' is also about unifying our functions to support our regions from our customers' point of view. Our aim is to make customer engagement seamless and as good as it can be - every day. 'OneTR' means one strategy, one vision, one set of values, regardless of whether you're in Germany, China, the USA or in Spain. A customer therefore enjoys an optimised, enhanced and standardised service - wherever they are located. In order to underpin this shift, our CEO Iain Percival visited every one of TR's 27





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locations across 16 countries in his first 12 months to both ensure 'OneTR' was felt throughout.

In this time, we've also opened our very first joint venture in Dongguan, China – TR Chai Yi Precision Fastenings Manufacturing – to have a domestic Chinese supply chain. The joint venture brings manufacturing competence, a high degree of engineering know-how, as well as the ability to meet core customers' expectations and help us retain and develop new customers in the region.

TR Chai Yi has achieved the globally recognised ISO 9001 certification demonstrating that TR has met the stringent criteria required for quality, safety and efficiency standards for its products and services to customers in the region. The accreditation affirms that the team is committed to providing the highest level of quality across the organisation and are continually looking at ways to improve – whilst adopting the 'OneTR' culture."

There have been several macro-economic and geopolitical uncertainties over the last two years. What have been the key challenges TR has faced, and continues to face, and how are you managing these as a business?

"As I mentioned earlier, part of the journey over the past two years has been to recognise where we haven't got it right, which includes difficult conversations around performance. Of course we've had profit warnings, and some of that's just been an exogenous shock from the marketplace, with the shortfall in demand due to this industrial macroeconomic world that we live in. However, as a business we also need to recognise that there were elements that we could have done, and should have done, much better, for example

passing on inflationary costs to our customers in a timely manner.

Post Covid-19 our stock control was also a concern, which in turn meant our cash constraint was quite high. We've done an amazing job in the last two years through an investment in various systems, to get our stock to optimal levels and make better supply chain decisions. These decisions include establishing specific key strategic indicators, which include margin management and focussed growth. Margin management is making sure that we are leveraging our procurement position and buying products at the best total cost of acquisition and making sure that 'feathers' or 'tails' nicely into our inventory management.

As part of this, John Dick, Global Supply Chain Director, and his team are working with our suppliers, making sure our approved vendor list is the best quality supply chain we can have. The other side of margin management is customer pricing and making sure that pricing is relevant or relative to our service offering and to the market. Those things don't come easily, and they require coaching, training, encouragement, support and leading by example.

I've spent a lot of time recently sitting in front of well-established long tenured customers, talking to them about the added value TR delivers to large OEMs and having what has traditionally been considered a difficult conversation about price and actually established stronger customer relationships on the other side. We supply tens of billions of fasteners every year with a very high-quality level – which sometimes customers need to be reminded of. TR brings the simplification of supply chains, with deep complexity management





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on low value items into higher value finished goods.

The post Covid-19 challenges, such as disruptions of freight and high freight costs, as well as long lead times and Red Sea challenges, led customers to recognise the importance of fasteners. Many realised that fasteners are an integral engineered component of finished goods, but it's important that this doesn't breed complacency. We still need to be held to high standards to deliver to our customers in a competitive landscape. However, I do think that collectively the fastener distribution community has a greater voice today than perhaps it has done in the past, which is so important when legislative compliance is concerned.

Whether it's tariffs and the emergence of tariffs, and how you control your supply chain, it continues to be very important to have an open dialogue with customers around the consequences of regulations such as CBAM and how that will directly impact them. Even though the European Union haven't finalised all the details – we have a dedicated team working on all CBAM related activities. I wouldn't hesitate to suggest that CBAM is the most disruptive legislation that this industry has seen in decades, and I still don't believe we fully understand the consequence. I'm not deeply familiar with what every one of our peers are doing, with some taking it very seriously – like TR – by dedicating resources, thorough risk analysis, as well as making tough decisions, including with our suppliers and customers. We are utilising our systems, as well as third party software, human beings and pairs of hands to get a handle on the data input.

On the other hand, others seem to be saying it

will pass and somewhat adopting a 'burying their heads in the sand' approach. I would suggest that CBAM will not pass us by. The more appropriate approach is to be upfront about the potential costs and how we mitigate these costs where it's possible and pass these costs along where we must. It's imperative that our customers understand that this regulation is imposed upon this industry well outside of our control. With that, we also have a responsibility to remind them of their environmental responsibilities too."

How important is sustainability for TR? What initiatives have you brought in regarding to sustainability?

"We are committed to reducing our impact on the environment and look for innovative ways to achieve this, with an ambition of achieving a net zero business. Meeting these targets will be achieved by energy and carbon reduction within our own operations; indirect emissions from travel; and logistics and our supply chain. As part of this, we must continue to respond to requests from customers and investors on our carbon emissions, such as completing CDP (supplier and investor) and EcoVadis submissions during the 2024 financial year and will continue to do so annually.

As a recent example, TR Italy announced a significant sustainability achievement at its manufacturing facility in Umbria, Italy. Opened in 1996, the 6,110-square metre main building recently underwent an upgrade with the installation of 1,395 solar panels on its vast roof. These panels are expected to generate approximately 25-30% of the facility's electricity, making a substantial step towards reducing its environmental impact.





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Being a responsible business is critically important for TR, and we are very conscious that we both distribute and manufacture across the world. We're always looking at how to make our factories greener, as well as our packaging, our emissions and our electricity use. This is not just a box ticking exercise, we are on a journey to a sustainable future and as a result all of our locations have targets, achievements and goals with regards to sustainability metrics. We've also implemented a dedicated global sustainability team – in order to provide another added service to our customers'.

As part of this commitment, it is also important that our internal culture reflects strong values that underpin our ways of working, giving due consideration to our global footprint, our local colleagues and the communities where we operate. A huge part of that is operating a safe and healthy working environment. As part of 'Recover, Rebuild, Resilience' we have increased the focus on protecting our team and environment, and built upon the existing platform. We are incorporating 'OneTR' into health and safety by providing a robust global framework that sets clear standards for all of our operations. We want to provide a safe working environment by engaging our team to help determine these standards and harness the best practice across our operations."

As part of this new strategy what markets will TR be focusing on and why?

"As part of our strategy formation, we conducted extensive analysis on our existing and potential alternative industrial markets, looking both geographically and sector-wise at future forecast growth versus the industrial average. From a

shortlist of growth sectors identified, we then evaluated customer needs, matching them against our value proposition and our current market position. Based on this approach, we identified three profitable growth sectors on which we will now focus: Automotive, smart infrastructure and medical equipment.

The automotive sector already represents our largest and most global revenue base, with TR holding strong positions with many of the world's leading automotive Tier 1 system suppliers. Critically, we see continued growth potential, however, we recognise the need to balance growth with a more risk managed contractual relationship and be focused on technologies and systems, which will be applied to future vehicle platforms. This includes working with companies that require newer fastener technology, including all the cable management and heat management for battery systems, whether they're small batteries or part of a hybrid.

Our second largest revenue stream has been relabelled deliberately as smart infrastructure, reflecting our focus on five subsegments of growth related to smart and interconnected cities and homes such as lighting, HVAC, water, power and data, communication and connectivity. For example, in a post Covid-19 world, we are seeing bigger investments in clean air systems in public places. As a planet, we're also seeing temperature changes, which means we're needing to cool the air more regularly – so the demand for cleaner, cooler air is increasing.

Finally, last year, we identified a high-growth segment of medical equipment, where TR already has captured initial business but where we feel





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there is significant opportunity for growth. From our customer and market insight, we believe there is a strong fit with TR's value proposition, geographic footprint and capabilities. Recognising the longer lead time to build relationships and satisfy qualification and regulatory requirements in this sector, we expect this to be a medium to long-term growth engine.

With our 'OneTR' philosophy we're taking our pockets of knowledge in certain industries, where we have an established customer base and then bringing that engineering know how to apply those same core skills into these key sectors."

With 'OneTR' and the 'Recover, Rebuild, Resilience' strategy, where do you see these initiatives taking TR in the coming years?

"We are ambitious in our growth and that includes organic and inorganic. We are investing in our engineering community, our team including future leaders and our manufacturing footprint which can be through acquisition or through brown or green-field. We clearly want to expand our portfolio, which also means we are ready to acquire – we have good headroom and financial support to make acquisitions that meet strategic intentions.

We are expecting medical and smart infrastructure to become a greater proportion of our revenue and consequently expect our total revenue to grow beyond the norms of GDP or other commonly used metrics.

I also expect our profitability to be enhanced and expect our manufacturing investment to lean into more bespoke specialised products. We are investing in creating our own products, we're

investing in our engineering community. It's also our intention to build customer engagement laboratories and regionalised innovation centres in order to test customers' products and showcase newer fastening technologies, allowing us to work with our customers even closer to create bespoke solutions. Our 'Recover, Rebuild, Resilience' strategy underpins all of this, making sure that we continue to create value for our customers."





TR Fastenings powers the growth of the medical equipment industry with precision fasteners

By TR Fastenings



The medical equipment industry is experiencing huge growth, driven by rapid technological advancements, increasing focus on healthcare infrastructure, the need for innovation and increased life expectancy. As manufacturers push the boundaries of medical device development, high-quality fasteners play a crucial role in ensuring reliability, safety and efficiency.

For over 30 years, TR Fastenings has been a trusted supplier of fasteners and components to the healthcare industry. With extensive experience and a deep understanding of the market, TR is firmly positioned as a reliable partner for medical equipment manufacturers.

The current landscape

According to [Fortune Business Insights](#), the global MedTech market was valued at approximately USD 518.46 billion in 2023 with projections suggesting it will reach around USD 886.80 billion by 2032. This trajectory highlights the increasing role of medical devices in modern healthcare systems.

TR Fastenings' commitment

In response to the evolving needs of the MedTech industry, TR Fastenings has enhanced its capacity to support both established medical equipment manufacturers and new entrants diversifying into this sector. With technical expertise, real-time inventory availability, a wide range of fasteners, and an intricate global supply chain, TR has been able to accelerate time to market for its clients.

Manufacturing excellence and supply chain optimisation

TR Fastenings not only supplies high-quality fasteners but also manufactures a wide range of its own products, ensuring stringent quality control and enhanced supply chain efficiency. With a global network of manufacturing facilities, TR is committed to supply chain optimisation, reducing lead times and enhancing operational efficiencies for customers. The company's in-house engineering expertise also enables the design and production of bespoke fastener solutions tailored to the unique needs of the medical sector, further strengthening TR's value proposition.

The role of fasteners in medical devices

Although fasteners are typically the smallest components in medical devices, they play an essential role in the assembly, functionality, and structural integrity of the equipment. This is why collaborating with a knowledgeable fastener manufacturer early in the design stage can prevent costly redesigns after product launch. TR engineers are fully engaged in the design process, making critical recommendations for the interface between the fastener and the medical device.

Comprehensive product range

TR Fastenings supplies a wide array of products tailored for the medical sector, including:

- Fasteners for Sheet Metal: Self Clinch Fasteners, Hank® Rivet Bushes, Blind Rivet Nuts, Blind Rivets, Weld Nuts, K-Series® Nuts, K-Series® Thin Nuts, CD Weld Studs, Masking Caps & Plugs, Spring Steel Fasteners, Solid & Tubular Rivets.





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- Fasteners for Plastic: Plas-Tech 30-20®, Screws for Plastic, Inserts for Plastic, Compression Limiters.
- Stainless Products: High-grade stainless-steel fastenings suitable for various medical applications.
- Plastic & Rubber Hardware: Circuit Board Hardware, Cable Management Solutions, Rivets and Panel Fasteners, Machine Screws, Nuts, Washers, Bumpers, Masking Caps & Plugs.
- Enclosure Hardware: Locking Systems, Locks, Lock Components, Clamps & Terminals, Gaskets, Hinges, Latches, Accessories.
- Castors: Swivel Braked, Swivel, Fixed Castors suitable for medical equipment mobility.

These components are integral to a range of vital medical equipment products, including ventilators, medical beds and furniture, ultrasound machines, medical imaging equipment, defibrillators, incubators, medical computer stands, volumetric pumps and infusion devices, vacuum extractors, and many others.

Innovative security solutions

Recognising the importance of equipment security in medical settings, TR has introduced a range of security fasteners designed to prevent tampering and theft. The innovative 5-Lobe Pin fasteners, made from corrosion-resistant A4-70 stainless steel, feature a unique five-sectioned screw head that can only be undone with specialist tools, providing a strong line of defence against unauthorised removal.

Application engineering excellence

In addition to offering a diverse product range, TR provides application engineering expertise. TR's engineers collaborate closely with customers, offering design support and making critical recommendations to ensure optimal integration of fasteners into medical devices. This partnership approach helps mitigate potential issues and enhances the overall quality and reliability of the final product.

The future of fasteners in the medical industry

As the medical industry continues to innovate, the role of fasteners will become even more critical in supporting the next generation of medical devices. The rise of Artificial Intelligence (AI) and robotics in healthcare is accelerating the development of automated diagnostic tools, robotic-assisted surgeries and smart medical devices. These advancements demand precision-engineered fastening solutions that can integrate seamlessly with cutting-edge medical technologies.

Moreover, the increasing adoption of 3D printing in medical device manufacturing is changing how components are designed and assembled. Bespoke fasteners tailored to specific applications will be key in enabling efficient production and enhanced performance.

TR Fastenings remains committed to meeting these challenges. With a focus on innovation, quality, and customer collaboration, TR is poised to support the medical equipment manufacturing sector's growth in the years to come.



TR powers innovation for KTH Formula Student Stockholm team

By TR Fastenings



High-performance fasteners play a crucial role in helping the Stockholm-based team build their most advanced electric vehicle yet.

TR, part of the [Trifast plc Group](#) is proud to renew its silver sponsorship of the KTH Formula Student Stockholm team for the 2025 competition, providing a range of high-specification fasteners that quite literally hold together the self-driving car engineered by the students.

[Formula Student](#) is the world's largest educational engineering competition, challenging students to design, manufacture and race an electric car with autonomous capabilities. With over 100 KTH Royal Institute of Technology students participating, the programme encourages hands-on innovation, teamwork and real-world problem solving, serving a vital transition between academia and professional engineering careers.

This year, TR has once again supplied a wide range of precision components, including:

- **Grade 12.9 Male Fasteners (M4-M6):** These high-strength bolts are essential in structural, high-load areas such as the chassis, suspension and transmission, offering both strength and weight-saving potential - a must in racing environments.
- **Wire-Thread Inserts:** Critical for use in aluminium components, these provide high-strength threads in lightweight materials, maintaining performance while reducing weight by up to 60%.
- **Cable Glands:** Made from nickel-plated brass, these are used in the firewall and to protect

and seal high-voltage cables - key to electrical safety and shielding in high-performance and demanding environments.

- **Heat-Sert Inserts:** Installed into plastic components across the car, these allow reusable metric threads and support repeated assembly and disassembly without degradation.

TR's engineering-grade fasteners are treated with zinc flake coatings to ensure superior corrosion resistance, friction control and to eliminate the risk of hydrogen embrittlement, ideal for the challenging and dynamic environments of Formula Student competition.

Patrik Ringdahl, Project Engineer at TR and a KTH Alumnus, commented: "As an engineering-led business, we're incredibly proud to champion the next generation of engineers through hands-on initiatives like this. Our partnership with KTH goes beyond sponsorship, it's about enabling innovation and investing in the future of the industry. We can't wait to see the 2025 car hit the track!"

Alexander Edenholt, Project Leader with the KTH Stockholm team, commented: "With over 800 teams taking part in Formula Student competitions worldwide, the level of global talent and innovation is higher than ever. One of the highlights for us this year is competing in Formula Student Germany's 20th anniversary event, which will host 84 of the world's top teams.

"Having a trusted sponsor like TR behind us makes a tangible difference, not just in the quality of the components, but in the confidence we have as a team. Their support empowers us to push





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boundaries in design, reduce weight, increase safety and ultimately build a car that reflects the very best of student engineering.”

The KTH Stockholm team has been recognised in previous competitions and is aiming for top-category success once again in 2025. With students dedicating over 15 hours a week across the academic year to the design and build process, TR’s components will support critical performance in every nut, bolt and screw used on the vehicle.

For more information, please see TR’s video:
https://www.youtube.com/watch?v=5rhCHy8x_IM



Fourth generation EPW offers greater fastening solutions

By FastFixTechnology.com - Becca England, Editor



An innovation originating from TR Fastenings' Italian manufacturing plant in the south of Tuscany, the patented EPW screw, with a unique self-extruding and thread-forming design, is now in its fourth generation and provides an efficient, high-quality and cost-effective solution when fastening thin sheet metal.

EPW is able to create an extruded collar before forming its own internal thread in sheet metal when fastened, thus ensuring a secure fastening. Installation into thin sheet metal is possible due to the increased thread engagement through extrusion, also enabling maintenance – the metric thread profile of the EPW ensures the fastener can be re-used several times, offering its users advantages when it comes to recyclability and supports the global movement Right to Repair.

But the screw's most unique feature is its ability to be installed with handheld power tools. As Sven Brehler, Director of Engineering at TR, explains: "For example, we already have many flow drill screws in the automotive market, being installed by highly automated robotic lines, these are complex capital investments, making it very difficult to be agile, adapting production lines with changing demands." The screw's standard internal hexalobular drive system allows standardised tooling to be used when installing or removing the fastener, creating an advantage as most service engineers will already be carrying those tools with them on a daily basis. Generally, this is offering more flexibility during installation, with a potential to reduce total cost of application.

Originally developed for the white goods industry, the EPW Screw was born from a request to

manufacture a flow forming screw which both outperformed other products in the market and was able to be installed using handheld power tools into a pilot hole. But shifts in market demand ultimately triggered incremental innovation leading to four generations of this innovative product.

"The fourth generation is self-piercing," highlights Sven. "Whereas the previous versions were developed for use with a pilot hole. The original variant concentrated on installation by hand or low-end automated tools and required a relatively low driving speed. The second and third generations followed an organic evolution to suit a wider range of materials, which were available in the market. The aim of each variant was to decrease the force needed during installation, whilst keeping low RPM. Continued market demand led us to develop the self-piercing variant of EPW."

He adds: "The idea of our EPW range is to give the customer maximum flexibility in joining, suitable to their budget and size of production line, whilst aiming to get to market as quickly as possible through providing a solution which is reliable and reusable."

TR is also dedicated to offering its customers technical know-how, providing knowledge that helps create the perfect fastening solution for each application. Sven outlines: "We're in the process of undertaking additional research with the EPW, working with external partners to expand on the practical application of the products."



Fourth generation EPW offers greater fastening solutions

By FastFixTechnology.com - Becca England, Editor



Meanwhile, we listen actively to the changing market needs.

Digitalisation in joining technology, for example, is becoming more and more important. While this is a long step ahead, accurately predicting how a joint will behave, how to automate it, and predict its life cycle through feedback, we can predict that the application is suitable without needing extensive testing beforehand. This understanding is important to stay at the forefront of engineering development.”



TR advances sustainable engineering with new ranges of nylon fasteners made from 100% recycled materials

By TR Fastenings



TR, part of the Trifast plc group and a global leader in engineering, manufacturing and supply chain solutions, unveils a breakthrough in sustainable materials with the development of a range of plastic fasteners and components produced using 100% recycled nylon. Following a comprehensive R&D programme, TR's new product line has demonstrated robust mechanical performance, whilst delivering up to a 90% reduction in raw material CO2 emissions compared to prime-grade counterparts.

As environmental legislation and design standards evolve, particularly in sectors such as lighting, power, data and water infrastructure, the demand for durable, eco-efficient components is rising. Yet the global sustainable plastics market remains dominated by single-use applications. TR has identified a critical gap and opportunity in engineered fasteners.

Extensive trials and testing

TR conducted detailed material research, mechanical property analysis, moulding trials, and accelerated heat ageing tests on several materials. The standout performer was a 100% recycled nylon proven to deliver processability and mechanical characteristics on par with prime materials, while offering up to a 90% reduction in raw material CO2 emissions.

Trials were conducted on a range of products, including:

- Cable Ties, Fir Tree Mount
- Push Lock Rivets

- Drive Fasteners
- Wire Saddles
- Snap Rivets
- Fir Tree Clips
- Threaded Pillars

These components are commonly used across smart infrastructure applications, from securing data cabling to fastening control systems and enclosures.

Sustainable by design

Andrew Fletcher, Head of Plastics & Rubber (Commercial & Technical) at TR, commented: "We've achieved outstanding results with our sustainable nylon products, not only matching performance requirements but also offering a credible path to net zero. This initiative sits at the heart of our strategy to support our customers with engineering-led, environmentally responsible solutions."

Commercial availability

Following successful production trials, the recycled nylon parts are now undergoing final assessments for commercial launch. TR invites design and production engineers to engage with its technical teams to explore integration options and sample testing.



TR advances sustainable engineering with new ranges of nylon fasteners made from 100% recycled materials

By TR Fastenings



Looking ahead

TR continues to lead material innovation for the smart infrastructure sector and is actively exploring enhancement to flammability ratings and further expansion of its sustainable materials portfolio.

For further information, please see TR's Sustainable plastics video on YouTube:

<https://youtu.be/Qdw7f9IJSuU>

Further Information

If your company is exploring sustainable supply chain solutions and you would like further information please contact us: sales@trfastenings.com or andrewf@trfastenings.com



TR Fastenings to Exhibit at Electronics Live 2025

By TR Fastenings



TR Exhibiting at Electronics Live

To discover more visit us on stand **E4**



TR, part of Trifast plc Group of companies is delighted to announce its participation in Electronics Live for the second year.

Taking place on 22nd January 2025 at the [National Conference Centre](#) in Birmingham, this dynamic event is a dedicated platform showcasing the latest advancements in the electronic components supply chain.

Electronics Live offers a focused environment where market leaders, innovators, and industry professionals come together under one roof. This streamlined approach provides exhibitors like TR Fastenings and attendees with the perfect opportunity to explore cutting-edge technologies, engage with thought leaders, and foster meaningful connections within the electronics sector.

Come and meet our friendly Engineering & Sales team, Dan, Liam and Natalie on Stand E4.

These experts will be on hand to discuss TR's latest technologies and how its innovative fastening solutions support the evolving needs of the electronic components supply chain. From technical insights to tailored solutions, visitors can gain a comprehensive understanding of how TR contributes to industry advancements.

Pioneering Innovation in Electronics

With its extensive expertise and commitment to quality, TR offers a diverse range of products and services designed to streamline production processes and enhance performance across the electronics sector.

Don't miss the chance to connect with the TR team and explore how our solutions such as the Plas-Tech 30-20® Screws, our patented TR EPW Screws, Plastic and Rubber Hardware, and Enclosure Hardware, can add value to your projects.

Join TR Fastenings at Electronics Live and experience the future of electronic components supply chain innovation.

For more information on how to register: Electronics Live: [Online Registration](#)



TR Fastenings at Fastener Fair Global 2025

By TR Fastenings



TR Fastenings (TR), part of the Trifast plc Group, will be exhibiting once again at Fastener Fair Global, the premier event for the fastener and fixing industry.

From **25th to 27th March** in Stuttgart, Germany, visitors can explore TR's latest innovations in **Hall 1, Stand 612**, where the expert TR team will be on hand to discuss solutions tailored to customers' needs.

TR's manufacturing expertise on display

TR Fastenings supplies components to over 5,000 companies worldwide, spanning industries such as automotive, medical equipment and smart infrastructure sectors. The focus this year is on TR's value proposition, showcasing an exceptional blend of manufacturing expertise, supply chain solutions, and engineering innovation.

Visitors to TR's stand will experience:

- **Innovative animations** showcasing key sectors and TR's comprehensive product range.
- **Branded products**, including proprietary solutions such as the [EPW Screw](#) and [Plas-Tech 30-20®](#), designed to meet the highest industry standards.
- **Extensive product range**, featuring Self Clinch Fasteners, Fasteners for Sheet Metal, Enclosure Hardware, Screws and Inserts for Plastic, Cable Glands, Security Fasteners and Plastic and Rubber Hardware.

Meet the TR team

TR's stand will host key personnel ready to explore collaborative opportunities:

- Adam John - European Distributor Sales Manager
- Peter Henning - TR Germany Managing Director
- Lena Juretko, Pierre Reimering, Cem Piskin - Sales Coordinators
- Sven Brehler - Director of Innovation and Engineering
- Dan Pereira - UK and Ireland Engineering Manager
- Abi Burnett - Head of Marketing

TR Germany: Leading the charge in Europe

TR Germany is a key focus for 2025, reflecting a significant investment in its European warehouse, which has expanded to 2,000 sqm. This strategic move enhances TR Germany's ability to provide distributors with:

- **Extensive stock holding** for diverse industry demands.
- **Excellent freight links** across Europe, ensuring fast, reliable delivery.
- **Streamlined supply chains**, reducing steps and easing pressure amid global challenges.



TR Fastenings at Fastener Fair Global 2025

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- **Multilingual teams**, offering seamless customer support.

These measures position TR Germany as a centre of excellence, ensuring distributors experience a hassle-free partnership with the confidence that comes from reliable supply chain solutions.

Spotlight on TR Italy and sustainability

In addition to TR Germany's advancements, TR Italy has enhanced its manufacturing capabilities, reinforcing its commitment to European production. TR is also focused on sustainability with compliance to CBAM (Carbon Border Adjustment Mechanism), simplifying European supply while supporting global environmental goals.

Building connections at Fastener Fair Global

TR will meet with their network of distributors to further strengthen relationships with its European network. Visitors can further connect with TR's partners exhibiting at the event:

- **Lancaster Fastener Co Ltd** - Hall 3, Stand 3-2340
- **Precision Technology Supplies Ltd (PTS)** - Hall 3, Stand 3-1596

Fastener Fair Global: The premier event for the industry

Fastener Fair Global is the leading meeting place for the fastener and fixing sector, and 2025 marks its 10th anniversary. In 2023, the event welcomed around 1,000 exhibitors and over 11,000 trade

visitors from 83 countries, highlighting cutting-edge innovations, products, and services from all areas of fastener and fixing technology. This year's event promises to continue offering a central platform for distributors, suppliers, engineers, and industry professionals to exchange insights, forge partnerships, and stay ahead of market trends.

Visit stand 612 and meet the TR team. For any enquiries, please contact:

Adam John, European Distributor Sales Manager
Email: adamj@trfastenings.com



Celebrating International Women's Day

By TR Fastenings



As a global company, we proudly recognise International Women's Day and celebrate the incredible women shaping our industry, driving innovation, progress and a more inclusive future.

Empowering Women in Leadership

At our company, we are committed to fostering an environment where women can thrive, lead, and inspire the next generation. From the boardroom to every level of our organisation, we believe in creating opportunities that empower women to break barriers and achieve their ambitions.

Spotlight on Our Female Leaders

This International Women's Day, we are showcasing the women driving change in our business and across the industry. Watch our special video highlighting the inspiring stories of our senior female leaders and their impact in shaping the future.

Watch the [Video on YouTube](#).





TR Ireland Team Takes Action for World Environment Day 2025

By TR Fastenings



Demonstrating that small actions can make a big impact, the TR team in Ireland marked [World Environment Day 2025](#) with a hands-on initiative that brought environmental values to life.

During their lunch break, team members took part in a local litter pick, donning high-vis gear and gloves to help clean up their surrounding community. The initiative reflects TR's growing commitment to sustainability and social responsibility across its global operations.

The activity was more than just a clean-up — it was part of a broader environmental ethos TR continues to promote within the business. Staff across the organisation are actively encouraged to reduce waste by including swapping out single-use plastic bottles and coffee cups for reusable alternatives.

“We’re incredibly proud of our Ireland team for taking the initiative and showing leadership when it comes to sustainability,” said Dara Horgan, Entity Director, Ireland. “It’s everyday efforts like these that build long-term impact — both for the planet and for our workplace culture.”

World Environment Day, observed annually on June 5th and led by the [United Nations Environment Programme](#) (UNEP), is the largest global platform for environmental outreach. TR's participation underscores the company's ongoing focus on environmental improvement and community engagement.