

2023

Press Pack

Our fasteners enable innovation
today to build a better tomorrow





ESG: A journey not a destination

By Andrew Nuttall - European MD



The Paris Agreement on climate change in 2015 initiated a change in attitude in dealing with greenhouse gas emissions. The European Parliament ratified this agreement in 2016. The objective was to respond to global climate change and ensure that rising global temperatures were reduced and controlled getting back to preindustrial levels.

TR is a Trifast plc company and as such ESG became a very important part of our future strategy and a Sustainability Committee was formed by our CEO Mark Belton. Members of that Team came from key disciplines in the business to ensure that we covered all bases embracing the Environmental, Sustainability and Governance elements. This culminated in Trifast's Sustainability Report being published.

As MD for TR in Europe my focus has been on our distribution sites in Norway, Sweden, Holland, Germany, Spain, Hungary and the manufacturing facility in Italy. As part of a group transformation project, we had already embarked on creating a 'modern workplace' environment. This involved enhancing the IT infrastructure, the décor and image of our offices, break out areas for staff to relax and lunch together and generally creating a pleasant working environment. All sites are air-conditioned and accredited to ISO 14001 the environmental management system.

In 2022 we embarked upon further expansion and opened a new a distribution hub in Hungary to service that geographical area, and the 7 countries on their border. A new greenfield site allowed us to build and create from the ground up the most sustainable facility in our Group. This included triple glazing ensuring that in very

cold winters and very hot summers that working conditions were excellent and cost effective, and the furniture came from sustainable sources. Solar panels and electric charging units were included in the specification, and the air extraction filtration system throughout the building created a great working environment meeting the building code regulations that the Hungarian government have mandated. Even the runaway rainwater is collected in an ornamental pond which is checked by the environmental agency to ensure that there is no pollution present. Once that has matured, we will be adding reed beds to further cleanse the water and encourage wildlife. [See the full story here.](#)

However, a manufacturing location the size of TR VIC in Italy is a wholly different proposition. This facility is located in Umbria in Italy and had been in private ownership for over 40 years until TR acquired it in 2014. This location in Fossato has a long history of manufacturing high volume fasteners, working on developing products and creating innovative designs for the domestic appliance market.

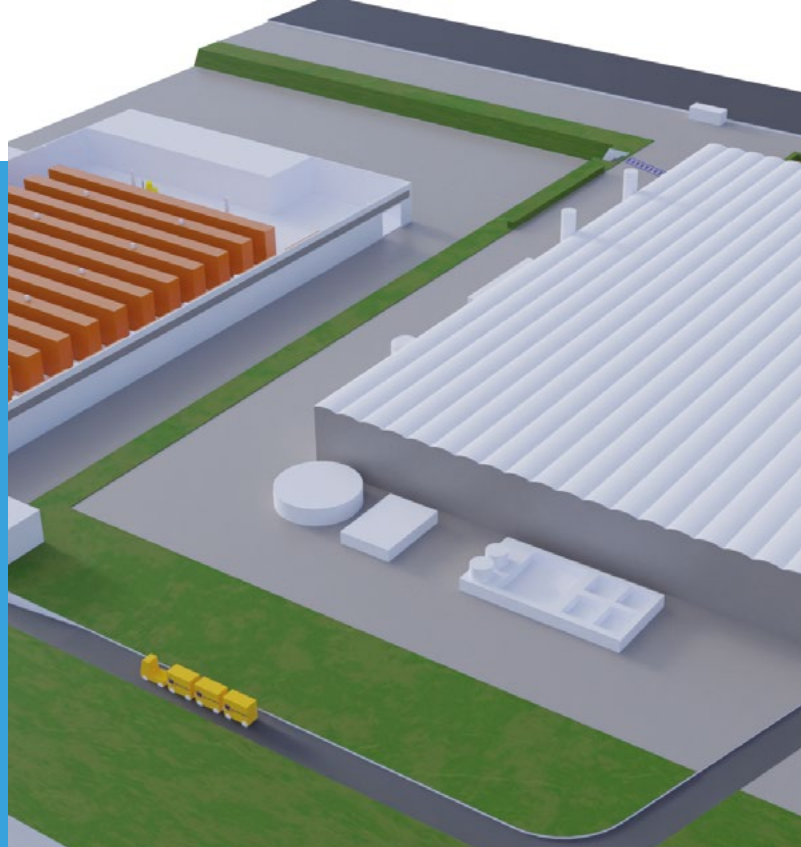
Over the last 5 years we have invested heavily in creating a manufacturing facility that is 'fit for the future' creating a sustainable production facility cold forging industrial fasteners.

Customers' needs and requirements have also changed over the last 5 years. ESG is high on multinational's agendas, and the reporting of CO2 emissions is a key factor. Their questionnaires, and those of industry bodies such as SAQ 5.0 focussed on supply chain sustainability are also driving change and decisions on where they place business is depending on fulfilling and meeting the criteria. The pandemic added another dimension as companies re assessed their dependence on Asia with increased lead times and the disruption



ESG: A journey not a destination

Continued



to supply chains that had been created. As a result, there has been a concerted drive by customers to 'near shore' to reduce lead times, the high cost of transportation and the need to be able to demonstrate Co2 reductions. It will be interesting however to see how the European cost of product versus anticipated Co2 savings will play out. We are however poised for further growth as we see that this desire to near shore is gathering momentum.

This year we are celebrating TR's 50th anniversary and our last major milestone was when we hosted a Group event for the 45th anniversary in TR VIC in Italy. We had 50 key personnel visit us from around the organisation including the Main Board of Trifast. This gave us an opportunity to completely revamp the offices, and all reception areas creating a modern environment prior to the event. Further investment followed and a roll out program of refurbishment of the main manufacturing location began, and investment in new Italian machinery. We were keen to diversify and had gained the IATF 16949 accreditation a few years before which has enabled us to attract and secure business with Tier 1s supporting the major OEMs. As a result, we invested in cold forging machines capable of making more complex and larger diameters, and in automatic packaging machinery. We have a conscious Industry 4.0 philosophy where feasible.

This investment continued with a recently opened extension to the manufacturing floor space creating an additional 33% capacity and injecting an additional 500-700 million pcs of new capacity. The last of the new machines are being installed during February. New efficient ventilation systems and power plants within manufacturing have been installed and major changes to the finished goods warehouse have been completed. This included infrastructure changes as we created

a new road into the revamped and re-racked warehouse that are Microsoft D365 compliant and operate electric tugs between both buildings. We have had an increased number of successful automotive customer audits since the pandemic and a high percentage of our new business wins have increased the sector diversification that we anticipated following the IATF 16949 accreditation.

I have a Sustainability Project Team in TR VIC headed up by Stefano Pisoni the Managing Director. We have initiatives underway including changes in the way we clean the product after forging to reclaim the oil for reuse and eliminate waste. Most of the domestic appliance manufacturers prefer their product in plastic woven sacks as they are easier to handle and tip into automatic feeders on the production line. We are working on alternative sack material that is organic and have two products on trial at the moment.

As I said in my earlier comments this is a journey not a destination and there is more work to be done, and we are fully committed to doing it. We have produced a video in house documenting this journey, [click here to view](#).





Sustainability into Action

Sven Brehler, Director of Engineering and member of Trifast plc ESG Committee & Torque Direct



As a major fastener supplier to the Health and Home sector TR is actively supporting new designs and the re-introduction of fasteners that can be accessible for disassembly and repair.

For us as consumers of household goods we have got used to more limited life span of appliances compared to say 30 years ago. Product then, was more solidly built and was assembled by conventional methods using the welding and riveting production methods used less often today. They were however not as aesthetically pleasing, the choice of colours was either cream or white, but they lasted for years. They could also be accessed and repaired quickly with spares readily available, as there were also fewer models available with common parts.

We have come a long way in the design of products to meet our requirements for modern appliances in our sleek kitchens and utility rooms. What has been sacrificed over time is the durability and longevity of the product which inevitably means that product cannot easily be repaired in or out of warranty, and then ends up as scrap and potentially in landfill sites. If it can be repaired, but is out of warranty, it is often too expensive and there is a tendency to replace rather than repair. You could deduce that there is built in obsolescence in the way product is currently manufactured today. It would be better for the environment, and our wallets, if products could return to having the ability to replace components with a screwdriver or wrench and buy spare parts easily. Once a product has been welded or riveted it is nigh impossible to do that. Another case in point would be electrical waste which could be reduced if replacement parts were readily available, and not just to costly service engineers.

Well known global brands of vacuum cleaners and electrical garden equipment are starting to enable consumers to buy online battery replacements which is a move in the right direction.

The environmental 'Right to Repair' legislation has put the consumer back in charge of their electrical goods and helps to address the 'throwaway tech culture' head-on which TR Fastenings supports. After years of campaigning, this EU legislation will drive change in assembly methods with a major shift in how electronics and domestic appliances will be manufactured and serviced. It is already playing a key role in helping to extend product life, cut carbon emissions, and reduce landfill. Where there are more mechanical assembly methods employed there could even be a boost to create more jobs within the industry sector.

One example to illustrate the changes that can be consciously made is in the assembly of a washing machine. Working in collaboration with domestic appliance customers this is being urgently addressed. It is clear to see in the [washing machine animation](#) which we have produced in house, the return to conventional assembly methods that is being encompassed in the latest designs. A good example would be the move to thread forming screws and high strength fasteners that allow for disassembly and reusability.

Sustainability case study

One example, the transit bolt, can be clearly seen in our [washing machine animation](#) which we have produced. This transit bolt used to be a 5-piece assembly holding the drum securely in transit when it was delivered to your home. Originally this assembly comprised of two plastic spacers, a rubber damper, a metal washer and a bolt which were then discarded once the machine



Sustainability into Action

Continued



was located in position. TR developed in our Italian manufacturing facility TR VIC, a one-piece assembly that is patented and fully recyclable.

TR Hungary case study

TR's Sustainability Report is published on our website. The challenge is to embed this strategy/ethos in a practical way within our business. Last year we opened a sizeable new build location in Hungary. It is not often that you get the chance to design a building from scratch. Our Teams used this opportunity to ensure this building was environmentally compliant, incorporating many features such as solar panels, triple glazed windows, clean air filtration systems in the warehouse, sustainably sourced office furniture and EV charging points. Company vehicles are now all electric. [Read the full article on our website.](#)

TR VIC Italy case study

This TR manufacturing location is a key supplier to the Domestic Appliance market. The collaboration with the European multinationals and their design and technical teams has been focussed on ensuring that the 'Right to Repair' legislation is being embraced and incorporated in all new models. We have taken the same approach in our manufacturing facility in Umbria based on the principal of working towards being Industry 4.0 compliant. This has enabled us to develop a modern, and greener and more efficient workplace. The investment made has been sizeable over the last 5 years culminating in a newly extended production facility and warehouse, new multistage forging machines being delivered, and the work does not end there. This investment increases our production capability by 33% to meet the demands of customers requiring 'near

shoring' which again is a sustainable target for many companies' intent on reducing Co2 emissions. There is a never-ending continuous improvement program in place working on reducing waste, oil reclamation and new extraction and filtration systems. [Read the full article on our website.](#)

"There is talk that the 'Right to Repair' is gathering strength in other sectors too including automotive."



TR introduces range of TENTE Castors



Smart mobility solutions for a range of sectors. TR Fastenings and TENTE Castors, a leading international castor and wheel manufacturer, are working together to enhance TR's already extensive sheet metal range.

The existing product range included on the TR website, has been enhanced with more than 150 new products. TR is now able to provide mobility solutions to a wide range of customers and applications from domestic furniture and laundry carts to hospital equipment and heavy duty industrial.

New products will include Swivel Braked Castors, Swivel Castors and Fixed Castors with accessories such as Circlip Stems, Stem Plates and Threaded Stems. Wheel diameters are available from 14mm to 200mm, serving a wide range of applications.

TENTE were attracted to working with TR to access and supply to their wide customer base in sectors such as health and home, energy, tech & infrastructure and general industrial.

Produced in high-quality materials, including solid rubber or synthetic compounds, this range of Castors is not only designed to be aesthetically pleasing but have longevity and increasing whole-life efficiencies.

Further product features include load capacities ranging from 25kg up to 1,200kg and a wide variety of wheel tread options to suit different situations including: Polyurethane, Polypropylene, Polyamide, Thermoplastic Rubber, Solid Rubber and Elastic Rubber Tread.

Sean Cushen, Commodity Manager, TR Fastenings, said: "Following on from the successful launch

of our Enclosure Hardware products, this was a natural progression to add the TENTE range. Having spent time with the TENTE technical and manufacturing teams on site, we have got to know the brand and we are confident that we can work very closely together."

Carl Garner, Managing Director, TENTE Castors Ltd, said: "TR Fastenings is a global company with a respected reputation in servicing and supplying a wide range of products in many fields of applications and TENTE is a global manufacturer with a wide range of castors and wheels to suit all industries needing the right mobility solution for all their customers.

"It was clear from an early stage, when I spoke with Glenda Roberts, TR Global Projects and Marketing Director at an exhibition and Sean Cushen at a networking event, that our two companies share many values and are passionate about exceeding customer expectations. We are now at the stage where both our companies can grow together through our teams and our brand."



TR launches new products to its Plastics & Rubber Hardware range



TR Fastenings, part of the Trifast group of companies, is expanding its product portfolio with the addition of 1500 new part numbers being added to the existing Plastic & Rubber Hardware range. This is in response to product requests across all sectors including automotive, health and home and energy, tech, and infrastructure.

With this rising market demand combined with technical support on new innovative plastic materials, TR has embraced the opportunity to work with design teams across different industries with varying application requirements. TR's strength is in the fast turnaround of prototypes and short lead time support on tooling, giving TR engineers a leading edge when involved in early engagement design projects.

The automotive industry in particular has experienced the biggest surge in growth with the use of plastic components over machined metal parts, mainly driven by the continued global momentum of electric vehicle production. Automotive manufacturers are looking at using plastics as base materials to build automotive parts due to their lightweight properties which can be 30% to 50% less compared to metal.

TR's top new product ranges and their application uses include:

- Screw Rivets provide a fastening that is simple to use and is removable, making them ideal for applications where maintenance or servicing via a removable panel is required. For automotive applications they are used in splash guards around wheel arches, internal upholstery, and bumper assemblies. Screw Rivets also find applications in domestic appliances, marine, audio equipment and furniture fittings.
- Barbed Push-in Rivets, also known as Fir Tree/ Pin Tree Clips are designed to secure two panels together. They are easy to install with a simple push-fit action. In automotive they are used in wheel arch bumpers, splash shields, bumper assemblies, internal upholstery, and trim. Other applications include domestic appliances, furniture and electrical/electronic equipment.
- Kwik Nuts are designed to push fit onto a threaded stud then turned through 180° to secure in place, allowing a tool free rapid installation. Automotive applications include vehicle acoustic engine liners and interior assemblies. Other applications include air conditioning and ventilation equipment.
- Push Screws are a new product which combines the rapid installation of a Fir Tree Clip with the versatility of a conventional threaded screw. The part is designed to push fit and retain in a female thread, then be removed with a standard screwdriver. The part enables rapid tool free installation with pull out forces ranging from 50N (M3) to 210N (M8) making them ideal for decorative trims, seat trim panels and mounting brackets.
- Shockproof Snap Rivets is a new development and an improvement on the standard design of a Snap Rivet. The design incorporates a locking mechanism under the head which resists pin movement when subject to mechanical shock or vibration, making them ideal for automotive interior applications, industrial lighting, pumps, heating, and ventilation. Heat resistant options are also





TR launches new products to its Plastics & Rubber Hardware range

Continued



available for applications where operating temperatures of up to 190°C are required.

Andrew Fletcher, Director of Plastics and Rubber (Commercial and Technical) at TR commented; *"We remain fully committed to offering our customers the very best in plastic components with our continuous product developments. It's more than just delivering a product, it's about design, development and collaboration; we're here to provide solutions and we're perfectly placed to react quickly to the changing marketplace."*



TR PSEP Malaysia receives prestigious Award from Boon Siew Honda



The TR PSEP Management Team were delighted to be given this award, presented by Boon Siew Honda when they visited its manufacturing facility in late November 2022. Mr Tong Ping Siong and Mr Philips George received the award on behalf of their Team.

This was of special significance to the TR Team as the pandemic and manufacturing restrictions imposed by the Government to control Covid meant that they had to work very diligently to ensure that no customers were impacted. The award was given based on service and quality as the best Chutanki - Cold Forging Manufacturer in their supply chain managing over 130 parts.

Boon Siew Honda is a joint venture company formed in 2008 between Honda Motor Company and Oriental Holdings Bhd. TR PSEP has many years of experience in supplying Japanese OEM's and has been a vendor to Honda since 2001. The companies experience of Japanese materials, methodology and expectations has been their strength. This has ensured growth within the Malaysian automotive sector, both with the two major Malaysian brands and the Tier 1's who require the level of quality and service that TR PSEP can provide.

TR PSEP, established in 1972, is accredited to IATF 16949 and was acquired by Trifast plc in 2011. The company manufactures multi-stage and safety critical cold forged products at both of its facilities in Shah Alam. Their capability and knowledge in supplying the Automotive industry strengthened TR's manufacturing and product offering in this sector.

Mr Tong said *"Following some difficult trading*

conditions due to the pandemic, receiving this award has really lifted everyone's spirits. We look forward to working even more closely with Boon Siew Honda. We are very grateful for this recognition."

TR PSEP has continued to invest in its facilities, completing the installation of solar panels on the roof of the buildings which provide not only the locations energy needs but enables the company to sell the overcapacity back to the national grid. Sustainability is a key pillar in the Trifast Group's strategy.





TR Fastenings at Fastener Fair Global 2023



TR Fastenings, part of the Trifast plc Group, is delighted to again be exhibiting at this year's Fastener Fair Global, an exciting year for TR as we celebrate our 50th anniversary.

TR supplies components to more than 5,000 companies globally across a wide range of industries, including [light & heavy vehicle](#), [health & home](#), [energy](#), [tech and infrastructure](#) and [general industrial](#). Our key focus at Fastener Fair Global is to reengage with our Master Distributors in Europe, and to seek out new [Distributors](#) in geography where we currently don't have coverage.

This creates a great opportunity to network and showcase our proprietary products and enhanced range. This includes our core product [Self Clinch](#) and the increased range of [Fasteners for Sheet Metal](#), [Enclosure Hardware](#), [Screws](#) and [Inserts for Plastic](#), [Cable Glands](#), [Security Fasteners](#) and [Plastic and Rubber Hardware](#).

Manning the stand will be key members of our Distributor Team, commodity specialists and technical engineering team. We are particularly keen to have meetings on the stand to discuss how we can further increase our support and assisting in distributing more of our product.

In 2022 TR invested heavily in Europe including creating a German logistics hub to ensure that we have near shored stock to support our Master Distributors, eliminating Brexit issues and smoothing out our supply chain. A by product of this is that this also reduces our carbon footprint assisting with our Sustainability goals. Additionally, we have invested heavily in another two of our European sites through creating a new facility in Hungary and a €5m extension to the TR VIC manufacturing location in Italy.

The TR Team is looking forward to meeting with our European distributors, and end users who attend the event. Visit us in Hall 1 stand 612.

21st - 23rd March 2023, Messe Stuttgart, Germany, Stand 612





TR Fastenings to exhibit at the Advanced Engineering Show in Sweden

The internationally regarded [Advanced Engineering](#) show returns to Sweden this April, and TR Fastenings Ltd (TR), part of the Trifast plc group of companies, is delighted to be making a return visit, the first since the pandemic.

This year the show is being held in Gothenburg, following the Advanced Engineering show in the UK in November 2022 which was a success. Advanced Engineering Sweden represents a unique opportunity for TR to meet representatives from across the industry spectrum.

The venue is the impressive Prioritet Serneke Arena, a multi-use complex in the city's Kviberg district. This is a two day event (April 19th & 20th), with manufacturers, designers and specifiers attending. The TR Fastenings team will be looking forward to existing customers visiting the stand and establishing networks with new ones. Much of the focus here will be on the environmental benefits and development of products, allied to the design and supply of specific materials and components.

TR's Technical and Innovation Centre is based in the Lindholmen Science Park in Gothenburg, which is home to representatives of major industries, including automotive and communications. TR's presence in the area enables collaboration with key customers and to have an involvement in development projects.

Niklas Andersson, Operations Manager for TR Sweden, says;

"We work closely with Tier 1 suppliers and using our expertise we assist with OEM requirements, advising on the right fastener technology for their needs."

Article published March 2023

You're invited!

**ADVANCED
ENGINEERING 2023**

19 & 20 April 2023

Prioritet Serneke Arena,
Gothenburg

**Stand
K10**



"Our Gothenburg operation opens doors for us, and this show will help with those early conversations with customers where we can discuss their requirements in person this year."

TR has established three global Technical and Innovation Centres; Birmingham in the UK, Gothenburg in Sweden and South Carolina in the USA.

Visit stand K:10 and meet the TR team:

Manoj Parmar – Business Development Manager

Nirari Yousif – Strategic Account Manager

Eugen Kuhn – Engineering Manager

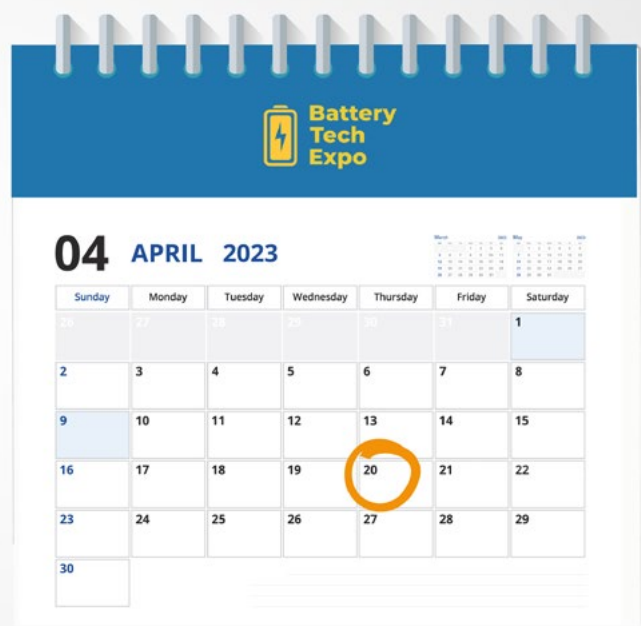
Patrik Ringdahl – Technical Manager

**19th & 20th April 2023, Prioritet Serneke
Arena, Gothenburg, Stand K:10**





TR Fastenings to exhibit at UK's largest Battery Tech Expo



TR Fastenings Ltd (TR), part of the Trifast plc group of companies, will once again be exhibiting at the annual Battery Tech Expo - the largest UK event for the battery sector. This year's event, the sixth of its kind, will be held at the world-famous Grand Prix venue, Silverstone on 20th April and promises to be as busy as ever with the largest audience of battery industry buyers, specialists and suppliers under one roof.

With hundreds of visitors and exhibitors, and 40 industry speakers all in one place, on one day, Battery Tech Expo 2023 will provide TR with a not to be missed opportunity to showcase its products and expertise to increase its influence within this hugely buoyant industry.

As EV sector growth continues apace with global record sales, this Expo is the perfect platform for TR to demonstrate the significance of fasteners and engineered components for the fast-moving EV and EVCU market. TR's product range includes battery retention bolts, cable management hardware, compression limiters and designed in special components.

Sven Brehler, Director of Engineering at TR who will be at the show, says:

"We are experiencing increased worldwide demand from car and battery manufacturers and so we are continuing to develop our product range to meet this opportunity. We have been exhibiting at this Expo for many years and as it attracts professionals from all segments of the battery industry, we look forward to increasing our network."

"The high-tech engineering sector is booming in the UK and this is the ideal event for key decision makers and influencers from across the power industry to share insights, best practice and latest innovations. It's a fantastic platform for TR to share expertise and to support this sector."

Joining Sven at the event will be Dan Pereira, UK and Ireland Engineering Manager and John Pountney, UK Automotive Sales Manager.

20th April 2023, The Wing, Silverstone, UK, Stands 27 & 28



TR celebrates 50 years of trading at this year's Fastener Fair Global



The TR Fastenings team was delighted to be back exhibiting at Fastener Fair Global, after four years since the previous event. This is a special year for TR, a Trifast plc Group Company, as it is its 50th Anniversary and the whole team was pleased to be able to celebrate this at the exhibition.

Its stand carried a 50th golden theme to acknowledge this major milestone and the design and layout received compliments from all the visitors. TR paid extra focus on comfort and it was designed to have comfortable seating areas which facilitated more in-depth discussions face to face with customers in comfort, and on numerous occasions we were so busy that every seat was filled. The two large TV screens showcased how fasteners are made from wire through to completed product explaining the different processes, including heat treatment and finishings. These videos have been produced in house for training purposes for both staff and customers and include animations illustrating where TR products are used. These created a lot of interest and are available in the media library on the TR website.

This show was very important to the whole TR team, who were keen to meet up with its 35 Master Distributors located throughout mainland Europe and thank them for their support in distributing its proprietary products including Hank Self-Clinch parts, Plastic and Rubber commodities and Fasteners for Plastic. There was interest shown too in TR's recently expanded manufacturing site TR VIC in Italy.

Managing Brexit to ensure that there were no supply issues, necessitated opening a central warehouse hub in Verl, Germany. This is close to the TR Kuhlmann site, and TR Kuhlmann Managing

Director, Peter Henning oversaw this successful project. He enhanced his Sales Team to manage the increased business and they continue to work with TR's distributor team in the UK who have long term relationships with many of these Master Distributors.

To thank them for their support, and the growth that TR is seeing, it hosted a 50th dinner celebration for 50 people during one of the evenings. TR Board members attended and Adam John, European Distribution Sales Manager hosted the event.

"It was amazing to be able to meet so many of our Distributors in one place and to thank them personally. Some of the conversations over dinner really cemented future opportunities." Adam John - European Distribution Sales Manager

Traditionally, this exhibition has been a distributor show and the team was very pleased to see high profile OEM's attending, in particular from the automotive sector. TR had been extensively advertising the fact that it was attending and that certainly boosted the visits to the stand. It scanned more than 350 visitors who spent time with our teams, and it has already secured sizeable new business wins and forged new relationships.

Scott Mac Meekin, Interim CEO of Trifast and Dan Jack, Chief Operating Officer supported the team on the stand, and they had a number of high-profile meetings during the days with both vendors and customers. It proved to be an exceptionally great place to network which has not been possible during the last few years.

John Dick, Group Supply Chain Director, and his team had booked a conference room on the mezzanine, where they held 24 supplier meetings





TR celebrates 50 years of trading at this year's Fastener Fair Global



Continued

during the show proving to be a very productive and effective use of their time.

"This venue enabled us to have personal meetings with key vendors which proved to be very beneficial. This cut down what would have been many weeks of travel and cost to meet so many people. We will certainly be utilising this facility again. As ever the exhibition was very well organised, and we are booking space for 2025. The exhibition staff were very supportive and visited us several times a day to ensure that we had everything that we needed. Glenda Roberts, Trifast Global Projects and Marketing Director; said "We had a very productive exhibition, and we were delighted with the quality of the footfall. It was good to be back and well worth the investment in time and money!" John Dick, Group Supply Chain Director



TR Fastenings to exhibit at the Automechanika Show



6-8 June 2023, NEC Birmingham on Stand D20

The highly anticipated automotive trade show Automechanika Birmingham returns to the NEC for the first time since 2019 and TR Fastenings (TR), part of the Trifast plc group of companies is delighted to be participating again.

In the last 4 years the pace of change to electrification in vehicles has accelerated dramatically. As a Full Service Provider (FSP) to The London Electric Vehicle Company (LEVC), we are very pleased to be able to showcase its innovative electric TX taxi on our stand. Our teams work very closely with LEVC in the UK providing technical and logistics support.

LEVC is part of the Geely Group of companies, and we are a key supplier to other parts of the group including Lotus, Perodua and numerous Volvo Tier 1's. We are proud of our association with this global brand.

Having enjoyed successes at previous events, this three-day show has proven to be the place to be seen, not only for TR but for companies working within the automotive supply chain. With TR's key focus on components for EV charging units and EV batteries, this event will enable TR to discuss its Full Service Provision for Tier 1 and Tier 2 businesses supporting global OEMs.

Around 12,000 visitors are expected from across the UK and Ireland making this an event not to be missed. The event will offer visitors 12 interactive feature areas, 4 workshop training hubs providing 192 hours of skills training and a 3-day keynote conference.

TR's technical and commercial Teams will be available throughout the 3 days at stand D20. We look forward to having productive technical and commercial discussions, and to be able to demonstrate our supply capability more fully.



TR Fastenings exhibits at the Advanced Engineering Show in Sweden



19th & 20th April 2023, Prioritet Serneke Arena, Gothenburg, Stand K:10

The internationally regarded Advanced Engineering show returned to Sweden in April, and TR Fastenings Ltd (TR), part of the Trifast plc group of companies, was delighted to be making a return visit. This year the show was held in Gothenburg where TR engineers are based. The Advanced Engineering Show represented a unique opportunity for TR to meet representatives from across the industry spectrum, and over those two days it proved to be very worthwhile.

TR's Technical and Innovation Centre is based in the Lindholmen Science Park in Gothenburg, which is home to representatives of major industries, including automotive and communications. TR's presence in the area enables collaboration with key customers and to have an involvement in development projects.

The venue was in the impressive Prioritet Serneke Arena, a multi-use complex in the city's Kviberg district. The TR Fastenings team was joined by the KTH Formula Student Team who showcased their concept car alongside their creative students. The car created a great deal of interest and enabled our engineers to have some interesting technical discussions. It was good to re-establish face to face contact with existing customers and to also meet some interesting new potential customers looking for technical and innovative support. There was a key focus on the environmental benefits and development of products, allied to the design and supply of specific materials and components especially for the EV sector.

Niklas Andersson, Operations Manager for TR Sweden, says; *"We were delighted to attend the show again, and very pleased with the quantity and*

quality of the visitors that took time to visit our stand. We are already seeing the benefits of these discussions, as visitors got a better perspective on our supply capability and willingness to assist in new and challenging developments in EV."

TR has established three global Technical and Innovation Centres; Birmingham in the UK, Gothenburg in Sweden and South Carolina in the USA.