Velocity

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NEWS FROM L.B. FOSTER EUROPE

LBFoster

MOVING FORWARD IN 2017

L.B. FOSTER EUROPE HAS COME A LONG WAY IN A SHORT SPACE OF TIME. THE LAST 12 MONTHS HAVE BEEN A WHIRLWIND OF ACTIVITY. AS A BUSINESS WE'VE BEEN WORKING HARD BEHIND THE SCENES TO BRING TOGETHER OUR PEOPLE, OUR SERVICES AND OUR PRODUCT SOLUTIONS IN A COHERENT AND COMPELLING WAY. NOW WE'RE FIRMLY FOCUSED ON BUILDING OUR FOOTPRINT AND DELIVERING INNOVATIVE ENGINEERING SOLUTIONS FOR OUR CUSTOMERS IN TRANSPORT, ENERGY AND AUTOMATION.

European HQ
Our European headquarters is now established in Sheffield, with centres of operational and engineering excellence in Sheffield, Nottingham, Lincoln, London and Herne, Germany. Our new Automation Centre of Excellence opened in 2016.

It now serves as a hotspot of innovation for automated manufacturing processes across a wide range of sectors - including automotive, food and beverage and logistics and distribution.

We're meeting our customers' needs better than ever before. We are solutions providers, working with our customers to deliver added value, enhanced operational efficiencies and increased return on investment. And we're achieving that by bringing together the wealth of skills and resources that we have across our diverse businesses and applying new thinking to old ways of doing things.

This is the second issue of our new Velocity newsletter. It's your introduction to L.B. Foster Europe. In this issue we take you on a guided tour of our business divisions, as well as setting out our stall for the next five years and beyond.

L.B. Foster Europe is growing in the many markets it serves.
I hope you enjoy learning more about the new world of L.B. Foster Europe and we look forward to working with you in the future.

Peter Jones
Managing Director
L.B. Foster Europe

CONTENTS

Global momentum - how it all started

Lee B. Foster was only 20 years old when he founded the company that bears his name. Financed in 1902 with a small $2500 loan from his father, L.B. Foster Company has grown for more than a century to become a leader in the manufacture, fabrication and distribution of infrastructure products and materials.

Foster began the company to service a transportation need he recognized while growing up around his father's oil business in Titusville, Pennsylvania. Lee saw that his father received many enquiries from mines, logging camps, and quarries about the availability of relay (used) train rail. No truck transportation existed at the time, so permanent and temporary rail spurs were the only means for transporting heavy materials to and from jobsites near and far. New rail was costly and Foster saw an opportunity to resell rail that had been retrieved from abandoned and replaced railroads and urban transit systems.

To encourage the sale of used material, Lee Foster initiated a guarantee that set his firm apart from others and contributed greatly to his success: "If the material is not up to the standard represented, ship it back and we will pay the freight both ways."

This dedication to customer satisfaction became a core company value and remains today at the forefront of the L.B. Foster customer service policy.

"If the material is not up to the standard represented, ship it back and we will pay the freight both ways."

UK

Silver & Gold President's Awards

In 2016 two members of L.B. Foster Europe's team received the prestigious quarterly 'President's Award', recognising individual excellence around the whole of L.B. Foster Company.

Tony Barham is a key part of the new Business Development team based in London and Lisa Holloway is an Account Manager located in Sheffield. Both received a President's Silver Award, whilst Tony Barham was also the proud recipient of the President's Gold Award.

Lisa received the Q3 'President's Silver Award' from Tony McEwen, Head of Sales and Commercial, Rail Technologies. Tony Barham was equally surprised when John Kasel, Senior Vice President, Rail Technologies, L.B. Foster Company presented his Silver Award during a meeting in London.

Peter Jones, Managing Director, L.B. Foster Europe, says: "Tony and Lisa are inspirations to their colleagues. They embody the SPIRIT of L.B. Fosterness, getting round the business and making things happen.

"Tony's Gold Award is the first time a colleague in Europe has received this recognition and all credit to him - he's always enthusiastic and has a true 'can do' attitude."

The President's Silver Award is a quarterly award with nominations by colleagues voted for by the L.B. Foster Company executive team. There is one winner per quarter in the whole company, inclusive of North America, Canada and Europe. The President's Gold Award is voted for by the Executive team from the four winners of the Silver Award.

Automation, UK

Bentley Robotics on the Fly

Luxury car brand Bentley set our Automation division the challenge to design a new engine assembly robot to work on its new, luxury Bentayga SUV production line.

The innovative, automated robot assembles the Bentayga's fly wheel and installs it on the engine's crankshaft. The robot uses a special vision system to align all components. The real masterstroke of the design is the bespoke all-in-one tooling system. All components are assembled using a single, universal tooling system designed specifically for Bentley.

News around our business

Stefan Reich

Business Development

European Team Expansion

L.B. Foster Europe has set out its intent with three new strategic appointments to its growing business development team.

Stefan Reich joins L.B. Foster Europe as new European Head of Business Development, following a consultancy role supporting L.B. Foster's TEW Mosaic Mimic system for signalling and energy market applications, as well as Driver Only Operation solutions for the new Elizabeth Line.

His responsibilities include developing opportunities for L.B. Foster's Track Infrastructure and Control, Display and Security solutions portfolios.

Strength in the North

Bryan Blareau rejoins L.B. Foster Europe as Business Development Manager, North, UK and is supported by new appointment **Michelle Bacon**. Both have previously fulfilled roles at L.B. Foster in its Sheffield office.

Bryan and Michelle will focus on developing L.B. Foster Europe's footprint in the north of the UK, including Scotland. Brian is based in Darlington.

Friction Management, UK

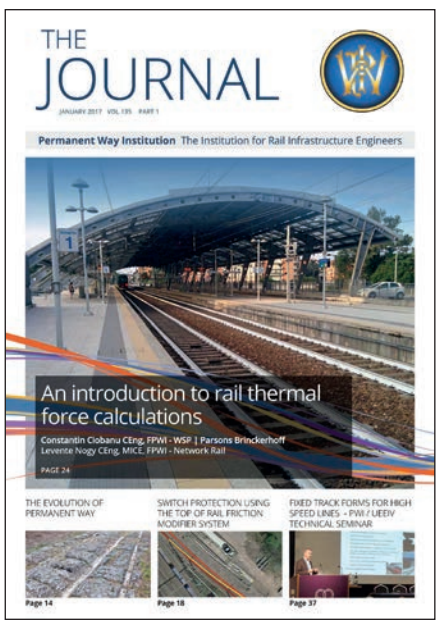
Press focus on switch protection

Dr Christopher Hardwick, L.B. Foster Friction Management, is featured as co-author of a technical paper on switch protection, using our KELTRACK top of rail friction modifier.

The article faocuses on extending switch life using KELTRACK friction modifier. The results are based on observations from Nuneaton Cemetery Junction, where the switch life was less than expected due to fatigue failure of the switch blade about two metres from the switch tip.

The Journal is the publication of The Permanent Way Institution. www.the pwi.org

Turn to **page 12** for more details.



View our Switch Protection video on our Vimeo channel https://vimeo.com/lbfoster

Control, Display & Security, UK

Crossrail Capability

A compelling new video is now available featuring detailed animations that show L.B. Foster Europe's consolidated capability on the new Elizabeth Line.

The five minute video short showcases our innovative engineering solutions, including:

- PAVA
- Customer Information Systems
- Driver Only Operation
- Friction Management
- Radio Systems
- Help Points
- Media Screens
- Track Products

For more information search 'LB Foster Crossrail' on Youtube.

Automation, UK

Conveyor for Cummins

Cummins is a global power leader that designs, manufactures, sells and services diesel and alternative fuel engines. L.B. Foster

Automation has designed, installed and commissioned an automated engine transfer towline conveyor for Cummins UK's Daventry engine manufacturing facility.

The high capacity towline conveyors are installed underfloor and provide continuous conveyor motion for a state of the art engine and generator set production line in Daventry.

Blue sky thinking

L.B. Foster Netpractise specialises in dynamic information solutions, including customer flow management, digital signage and data and asset management.

Part of L.B. Foster Control, Display & Security, Netpractise is one of the hidden heroes of our business, delivering inspiration and innovation in all that it does. Netpractise's skilled in-house software development team created the highly regarded Digital Media Signage software for delivering public information to screens worldwide.

Peter Jones, Managing Director, L.B. Foster, Europe, adds: "Pretty much everyone has come into contact with Netpractise's solutions at one time or another.

"It's their blue sky thinking that makes life easier for us all by helping us find our way or updating us on travel information. They use technology to improve our lives and to enhance the reputation of their customers."

High profile customers benefiting from our dynamic information solutions include:

- Network Rail
- Virgin Trains
- Queen Elizabeth University Hospital
- BAE Systems
- Bank of China
- City of York Council

Rail Retail Solutions

Our innovative customer flow management systems are helping passengers at Birmingham New Street keep moving.

Virgin Trains operates a strict Passengers Charter with a firm commitment to offering customers a safe, high quality service. They're committed to ensuring that customers using their ticket offices and travel centres are served within five minutes, or within three minutes at less busy times.

With the development of a new ticket office at Birmingham New Street, we worked with Virgin Trains to develop an innovative customer experience with the objective of migrating passengers towards self-service kiosks and reducing overall waiting times for face-to-face enquiries.

Our unique customer flow management system has vastly improved the overall ticket retailing customer experience for travellers using the station.

"Time scales were very tight, but there was a joint willingness to succeed with a positive approach from both parties."

Mike Bones
Senior Project Manager
Virgin Trains

Data mining

Big Data is everywhere. It's how you use it that counts. Smart data management involves collecting and interrogating information and sorting it into usable chunks. Mining the data then provides users with valuable insights into operating trends, cost savings and a range of other benefits, such as identifying training needs and the impact of specific behaviours. Graham Kett explains.

Fingerprint is our bespoke software platform designed for a base level root cause analysis for engineers and managers. It's also a portal for onward operational and personnel data management to help businesses grow and develop.

Fingerprint pilot

Our highly successful pilot with a major transit fleet operator has delivered exceptional operational insights, identifying major cost savings that previously impacted on bottom line financial performance.

In the past the fleet operator's paper-based service and maintenance records were manually duplicated and entered into a database system for centralised recording. Data analysis and interrogation was limited.

Fingerprint's intuitive user interface was introduced in the workplace using familiar touchscreen tablet technology, plus two large, floor mounted screens.

Users recorded entries on the tablets, building a picture of individual asset performance and maintenance.

Trends were viewed and interrogated locally, as well as at high level. All data was shared on a secure web portal

The primary aim of the pilot's root cause analysis was:

- to identify the factors that resulted in the nature, the location and the timing of the outcomes (consequences) of one or more past events
- to determine what behaviours, actions, inactions or conditions needed to be changed
- to prevent the recurrence of similar outcomes
- to identify lessons to promote the achievement of
- better consequences.

Fingerprint

Benefits

The Fingerprint pilot delivered a wide range of benefits, including:

- reduction of vehicle downtime
- faster fault diagnosis
- reduced part usage
- increased passenger numbers resulting from impropved service reliability
- increase in skills levels by identifying training needs and personal development
- reduced time spent on reactive vehicle maintenance
- fewer breakdowns and changeovers
- analysis of parts quality and supplier performance
- knowledge capture and sharing throughout the engineering function.

Scaling

Fingerprint is designed specifically for scaling across an organisation's touchpoints. It provides valuable management information and reduces the amount of time spent on low and non-value added activities inherent in manual and paper-based recording systems.

Markets

The asset management system is designed for use across a wide range of applications and industries.

For more information
contact Graham Kett
gkett@lbfoster.co.uk

or visit www.anatomysuite.co.uk

L.B. Foster Europe is changing. Our businesses are on the move, embracing new opportunities and exciting new technologies. We've set out our strategic vision for the next five years and we're ready for the journey.

Customer-focus

Each of our divisions is focused on delivering excellence for our customers in the markets that we serve - from transit and transportation to energy, automotive, food and beverage and more. Our excellent, market-leading engineering solutions are designed to keep our world moving for our customers and their customers.

We work collaboratively, developing smart engineering solutions that are changing the way we do things. We're increasing return on investment for our customers too, demonstrating real added value in the supply chain.

Focusing on o

L.B. Foster Track Infrastructure

L.B. Foster Company is a world leader in the development of innovative friction management technologies and applications for the global rail markets.

Our onboard and trackside friction management solutions deliver enhanced performance both in terms of friction and traction, according to the requirements of individual applications. That means quieter, smoother passenger journeys, as well as improved performance and increased asset service longevity.

Keith Churm, Managing Director, L.B. Foster Bahntechnik, says: "We're delivering innovation at the wheel rail interface as an important and integral part of the European rail network. Our solutions enable network owners to focus on the bigger picture, knowing that what we do quite literally keeps the wheels on the tracks.

"We are a key strategic partner with Knorr-Bremse, supplying our solid stick wheel flange lubrication systems and related consumable products. We are also expanding our footprint in Europe, increasing our market penetration across all the major rail networks in the territory."

For more information
contact Keith Churm
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L.B. Foster Automation

Our Automation division includes L.B. Foster Europe's materials handling operations, reflecting our expertise in all things automated. Going forward, we are focused on delivering our innovative solutions into three core markets.

Automotive

We are leading the way with our automated manufacturing solutions that are used throughout the automotive supply chain for brands including Jaguar Land Rover, Honda, Aston Martin, BMW, Triumph and JCB.

Logistics

Our integrated materials handling solutions keep the supply chain moving for Boots The Chemist, Wincanton Logistics, Tesco, Wm Morrisons and DHL.

Food & beverage

In this sector we supply bespoke, specialist automated food and drink manufacturing solutions that deliver for CocaCola, Diageo, Premier Foods, Unilever, Bass and Birds Eye.

For more information
contact Stephen Miles
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L.B. Foster Control, Display & Security

L.B. Foster Control, Display & Security (CDS) is a leading supplier to the European rail markets and global energy generation providers. Our electrical engineering and telecommunications solutions are a key part of keeping passengers safe and well informed on the new Elizabeth Line in London, which opens in 2018.

Neil Sheffield, Head of, L.B. Foster CDS, explains: "Our role as part of L.B. Foster Europe is to focus on what our customers need, providing them with joined-up solutions that add real value.

"True innovation is at the heart of what we do. Our new Fingerprint digital asset management solution is a fantastic example of the transformational role technology can play in business. It's a real game changer."

CDS solutions also include our LIDAR level crossing safety system , MOSAIC mimic control panels and new driver only operation camera systems.

For more information
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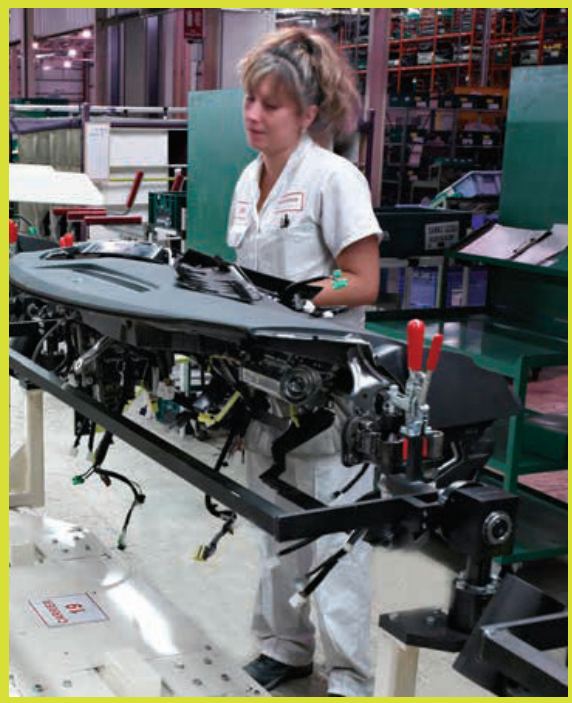
our customers

Handling success



In 2016 we brought together our materials handling and industrial automation businesses as L.B. Foster Automation.

We also opened our new 'Automation Centre of Excellence' in Nottingham, showcasing our capability and capacity in automation and materials handling solutions for the buoyant automotive, food and beverage and logistics markets.

Dr Martyn Paradise, Head of, L.B. Foster Automation, says: "We're feeding in to global supply chains, designing, building and installing smart, automated manufacturing technologies that are mission critical to our customers. So our solutions have to be fail-safe, which is why we undergo rigorous factory and field testing to ensure right first time installation and commissioning."

Customer satisfaction

We deliver intelligent, integrated materials handling and automated production line solutions for a wide range of market leading brands.

This demonstrates how our materials handling and industrial automation capability deliver an 'all under one roof' solution.

The power of dreams

Our expert engineers designed and installed a continuously moving, inverted monorail conveyor for a dashboard sub assembly line at Honda's UK manufacturing plant in Swindon.

Our conveyor solutions increased the process efficiency and reliability of the line. It is an enclosed track, equally pitched trolley conveyor, constructed to pull 20 individual trolleys carrying dashboards around the assembly line. The conveyor runs at a speed ranging from 700mm to 1700mm per minute.

Neil Adams is one of Honda's New Model Project Engineers. He says: "The conveyor requires low maintenance which is important for long term cost efficiency.

The conveyor is also future model proofed to assemble a different dash board we only need to redesign the jig to fit a new model."

"L.B. Foster also developed the software controls for the system."

For more information
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Safety Critical Systems

When you first think of a whisky distillery, it can conjure up romantic images of the Scottish Highlands and crystal clear mountain streams. But the reality of the modern manufacturing process is that it's closely controlled and governed by strict safety standards, such as the ATEX directive.

Fast forward to the work that L.B. Foster Automation is undertaking with a number of well-known drinks brands. Gaining a foothold in this exciting market requires investment in mission critical systems that comply with the highest safety standards, including ATEX. The ATEX directive consists of two EU directives describing what equipment and working conditions are allowed in an environment with an explosive atmosphere.

Paul Archer, Project Manager, L.B. Foster Automation, explains: "Whisky distilleries are amazing places. They're a fantastic fusion of the traditional and the modern. Parts of the process haven't changed for centuries. Yet other aspects of the manufacturing process are now closely governed by strict legislation - and rightly so.

"That means that the equipment that we supply in to these environments has to be designed and built to the highest safety standards. That's why our expertise and experience is much in demand in this luxury consumer goods sector.

"We're delivering safety critical systems for some of the biggest names in the market, including William Grant & Sons in Ireland and Scotland."

For more information
contact Paul Archer
parcher@lbfoster.co.uk

Or request a copy of our new ATEX certified conveyor solutions case study

Image courtesy of William Grant and Sons

650 per cent
increase in asset life

£40,000
net value savings

11 years
increase from 18 months switch life

11 months
payback time

Safer, quieter, easier journeys

We are market leaders in friction management for the rail and transit markets. Researching innovative applications for our friction modifiers has led to new thinking about how to increase network asset life and reduce costly track maintenance. L.B. Foster Track Infrastructure's Dr Christopher Hardwick explains.

This is an extract of an article first published in The Journal co-authored by Jay Benson, JB Rail

Switches and crossings are an integral part of rail infrastructure, which rail vehicles use to change from one track to another. As safety critical assets it's vital they are well maintained and suffer minimal damage.

In general terms, a switch represents a location of a geometrical track deviation (compared with plain line). A vehicle responds to a track deviation with an angle of attack (AOA) at the leading wheelset of each bogie, resulting in the generation of lateral forces and possible flange contact.

Switch blades can suffer from plastic flow leading to fatigue (RCF) crack formation due to excessive flange contact in an area about 2-5m from the switch tip. Repair welding is required to repair defects. These costly repairs can only be repeated a number of times, leading to premature replacement of switch blades.

Nuneaton Cemetery Junction

A study was undertaken of a switch at Nuneaton Cemetery Junction where the switch life was significantly reduced due to fatigue failure approximately 2m from the tip. Between 2004 and 2012 the high-rail half-set has been replaced every 15-18 months, with intermediate weld repairs about every four months.

Causes of the damage

It was clear from the initial observation of the defect that the lateral loading of the switch was excessive and that this was a fatigue issue.

Discussions within Network Rail revealed that this is a known issue at a number of sites and that it was thought to be a design issue with RT60/NR60 layouts.

The damage issues normally arise when trains are travelling in the trailing direction. The radius of curvature reduces on the approach to the switch tip so the reduction in the angle of attack is insufficient to counteract the reduced cross sectional area of the switch rail resisting the lateral loads.

The increasing load caused by the contact forces between the wheel/flange and switch rail create a fatigue cycle leading to a horizontal failure approximately 15mm below the top of the switch rail. Once the crack has initiated, it grows horizontally and turns to the vertical at the end of the crack closest to the switch tip. The horizontal growth continues away from the switch tip until the top of the switch rail breaks off.

A permanent solution

L.B. Foster's KELTRACK top of rail (TOR)friction modifier system was positioned to ensure that the friction modifiers covered the approach to WN572A so the steering of the wheelsets was optimised through the whole switch.

Since installation WN572A was defect free for 26 months until after one month of no friction modifier application (four months in total where there had been no treatment since the new switch blade was installed), the first S/053 inspection Hazard 4 failure was reported. Since the repair was undertaken and the installation has been maintained there have been no further failures of Hazard types 1, 2 or 4.

Benefits at Nuneaton

The key benefit of using KELTRACK top of rail friction modifier at Nuneaton include:

- the halt of the repeated failure of the equipment
- net value savings of approximately £40,000
- reduction in repairs including 650 per cent increase in asset life
- switch life increase from 18 months to 11 years
- less inspection time
- fewer man hours on track
- reduced delays
- payback time estimated at 11 months.

Benefits for the network

Since the first installation, a number of other sites have been identified as having similar repair issues to Nuneaton and have been treated using KELTRACK TOR friction modifier. These are Crewe Coal Yard, Reading West Curve and Birmingham Proof House.

As Network Rail moves from CP5 to CP6, with a greater focus on efficiency, TOR friction modifiers could be of benefit to the wider network. Nuneaton is demonstrating returns of £12,000 pa and Reading an estimated £100,00 pa.

Conclusion

KELTRACK TOR friction modifier system can give a significant improvement in the life of switches. It is expected that the improvement would be at least 650 per cent, as demonstrated at Nuneaton. This is achieved by reducing the angle of attack between the wheel and the rail through the switch so that the contact forces are greatly reduced or eliminated entirely.

For more information
contact Dr Christopher Hardwick
chardwick@lbfoster.co.uk

For more information about the PWI please visit www.thepwi.org

Securing future success

Our Control, Display & Security (CDS) division delivers advanced technological control and dynamic digital signage solutions in territories around the world. **Neil Sheffield** fills in the details.

In China, L.B. Foster CDS is firmly embedded in the supply chain feeding the country's ambitious nuclear power programme. We are now partners on a seventh nuclear power station project in mainland China with a tier one European contractor.

Mainland China has 36 nuclear power reactors in operation, 21 under construction, with more about to start construction. Additional reactors are planned, including some of the world's most advanced, to give a doubling of nuclear capacity to at least 58 GWe by 2020-21, then up to 150 GWe by 2030, and much more by 2050.

We are the partner of choice for the supply of Mosaic Mimic panels on a large number of these projects. We have a healthy pipeline of projects in place that will see our proven control panel systems providing security of service for the burgeoning Chinese nuclear power programme for many years to come.

Info on the go

ICON, our wireless, mobile, battery-powered display unit is really making waves in the rail sector.

Phil Chester, Head of Business Development, L.B. Foster Europe, says: "We've created a real opportunity with ICON, our new wireless totem technology. From the market reaction we've received it's clear that our future thinking is something that is much in demand from the likes of MTR Crossrail, Heathrow Express, Network Rail, the Association of Train Operating Companies and a number of other TOCs.

"This is a system that delivers customer information whenever it is needed, with the freedom to be positioned wherever it's required. It's high performance specification makes it suitable for use on the underground, as well as in transport terminals and passenger areas, meeting the most demanding operating parameters."

Infrastructure intelligence now accessible 24/7/365

The UK rail network comprises over 10,000 miles of track, carries around 1.7 billion passengers and transports more than 110 million tonnes of freight each year. Keeping the network moving is essential.

10,000 miles
of track

1.7 billion
passengers

110 million
tonnes of freight

Our Remote Condition Monitoring (RCM) technologies use wireless and mobile 3G and 4G platforms. This now enables network owners to view, monitor and deploy resources as required to maintain the effective operation of critical assets located in often inaccessible locations in real time.

Our smart RCM solutions are capable of recovering data for many "things," including flood, landslip, rail temperature and cable movement detection, as well as bridge strike. Dave Farman, L.B. Foster CDS explains: "Where our solutions really come into a class of their own is our expertise in power management. We provided Network Rail with a six-camera HD system that will run 24/7 for five years without intervention, other than cleaning. That's the kind of performance that's essential when installing monitoring equipment on parts of the network that could be miles from anywhere.

"Advances in ultra-low power technology, combined with low energy CCTV cameras, wireless and M2M communications enables the deployment of our RCM systems almost anywhere, without the requirement for expensive fixed line power or communications infrastructure.

"Our monitoring systems can use solar power, wireless radio and secure mobile 3G communications. They incorporate ultra-low power designs to minimize energy consumption, communicating with our cloud-based servers only when required and sending emails on specific events requested by the customer."

Keeping our level crossings safe

Our Network Rail approved LIDAR obstacle detection solution is now installed on over 90 level crossings around the UK, with a further 110 installations in 2017-18 and plans to complete 400 full barrier crossings by 2020.

LIDAR's unique on-scanner algorithm is capable of detecting obstacles down to 115mm from the ground. The system is proven to be highly reliable and immune from all environmental conditions including direct sunlight, fog and rain.

Integrated CCTV monitoring systems deliver full visual coverage of level crossing areas. Intelligence captured by CCTV includes vehicle number plates and has led to hundreds of successful prosecutions for Dangerous Driving Incidents.

Driving us all forward

Our new Business Development team is now in place and ready to take on the challenge to take us all forward for the next five years and beyond.

The team is led by Phil Chester, Head of Business Development and Marketing and the man behind L.B. Foster Europe's new brand expression 'keeping our world moving'. Phil is joined by a wealth of experience and expertise representing the various markets that we serve.

Sales team

L.B. Foster Europe's sales team now comprises:

> Stefan Reich is our new European Head of Business Development

> Closer to home Tony Barham is Head of Business Development for the UK

> Bryan Blareau is our Business Development Manager UK North

> Gillian Barham is Sales Operations Manager for UK South and Midlands

> Michelle Bacon is Sales Operations Manager for UK North

Marketing team

Supporting our sales team with the tools to do the job is a team of experienced and highly creative talent, under the leadership of Phil Chester.

> Jenny Jones is our Marketing Manager

> Naomi Hudson is Marketing Assistant

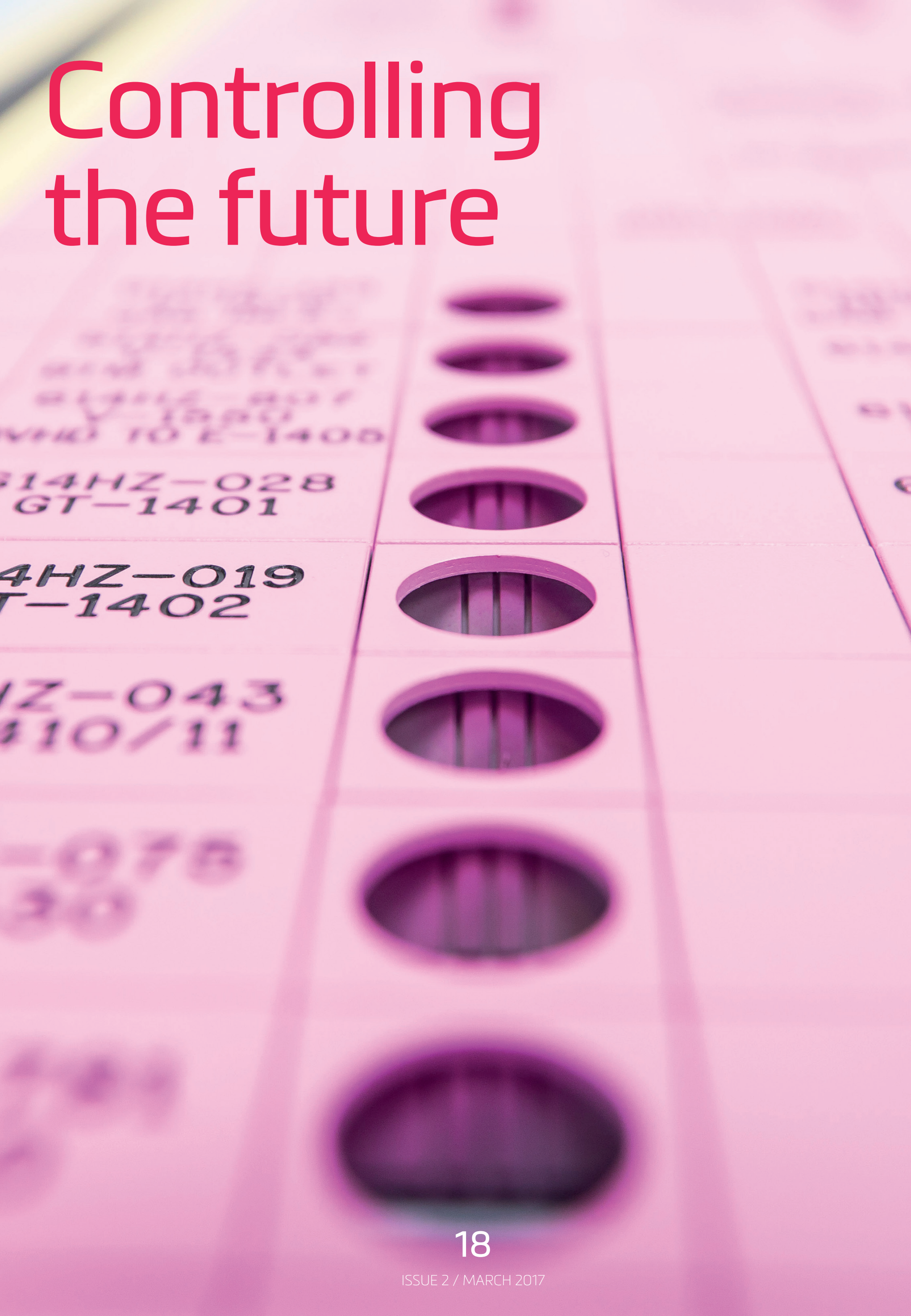
Both teams also draw on external resource for market intelligence, brand and marketing communications, plus reputation management.

Our Business Development team is fit for purpose and looking forward to driving forward L.B. Foster Europe to achieve our growth targets as we head towards 2020 and beyond.

OUR MISSION

Our engineering expertise will inspire the safety, reliability and performance of critical infrastructures, improving the lives of people who rely on us to keep our world moving

Controlling the future



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