

BRITISH PAPER MACHINERY NEWS

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News and views from the
British Paper Machinery Suppliers Association

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Fault finding skills are invaluable and can result in cost savings says Pilz
read about it on page 8



Using Salvtech's site scanning service helps prevent expensive errors when planning upgrades
read about it on page 12



Significant anniversaries celebrated by Deublin and Hoerbiger
read about them on page 5

80 DEUBLIN
CELEBRATING
80 YEARS
OF INNOVATION
1945 - 2025

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The next issue of BPM News will be published in October 2026

Editorial Comment

Paper bags ... the sustainable alternative -

As we went to press with the last issue, The Paper Bag Platform celebrated the 8th European Paper Bag Day using the theme of 'Simple choice, big impact'. There were many activities highlighting how choosing paper carrier bags as a sustainable packaging option can make a significant difference to the environment.



The platform is made up of leading paper manufacturers and was created in 2017 to represent the interests of the industry and promote the advantages of paper based packaging. It is steered by CEPI Eurokraft (www.cepi-eurokraft.org) and Eurosac (www.eurosac.org).

Paper carrier bags, of course, present an excellent opportunity to promote a brand image for suppliers and retailers, they are tactile and offer outstanding print quality allowing unlimited creativity in advertising and image development. They are



greatly appreciated by customers and create a tangible link between themselves and the retailer in line with a modern and sustainable lifestyle. Using packaging made from renewable, recyclable and biodegradable sources, contributes to reducing the use of non-biodegradable items and helps to inform greater environmental knowledge. It is quite simply a visible part of corporate social responsibility easily developed by a retail brand.

And this perspective is increasingly important for consumers reflected in changes in their behaviour. End users do prefer paper products and according to a survey 72% buy more environmentally friendly products today than five years ago. Also 81% plan to increase their purchases of environmentally friendly products over the next five years. Packaging does play an important role with paper bags preferred for environmental factors such as being recyclable (52%), compostable (47%) and the fact they are produced using renewable materials (43%).

Costs shouldn't deter us -

The Alliance for Fibre-Based

Packaging (www.letsrecycle.com) has said that the proposed Year 2 Extended Producer Responsibility (EPR) waste disposal fees for fibre-based packaging are disproportionately high. And many associations representing other materials have also criticised the fees.



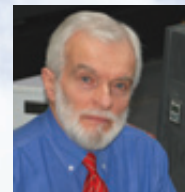
'It is essential that EPR fees accurately reflect real environmental performance and end-of-life outcomes of various materials' said the Alliance. **'If fees do not align with these impacts, the result will be reduced investment in recyclable, low carbon packaging solutions slowing progress towards desired environmental objectives'**.

The Alliance has continued to engage with Government and delivery partners to better understand the data, assumptions and calculations used for the fees, as well as sharing evidence and data on the performance of fibre-based packaging. Costs should not deter businesses from delivering genuine benefits.

However, PackUK, the scheme administrator for the UK's EPR for packaging programme (pEPR), has

identified a shortfall in the original Year 1 funding calculations which would have led to many producers incurring higher costs. The shortfall was due to more accurate data being resubmitted by producers resulting in a lower tonnage than previously. The UK Government has now stepped in with a one-time intervention of extra funding for the first year only of the pEPR scheme.

Welcome back - Jarshire Limited has rejoined the BPMSA as a full member and contributor to British Paper Machinery News. We welcome the company as a leading supplier of systems and equipment to the converting, paper, tissue, corrugating and board sectors.



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Don't hesitate - Industrial security needs attention now

The Machinery Regulation will be mandatory from January 2027, but the subjects it covers, such as external attacks and potential manipulation, are issues that we're all facing right now. Knowledge is power so take your industrial security to the next level with the experts.

Industrial security describes the protection of production and industrial plants from manipulation, whether intentional, unintentional, or

via cyber-attacks. These threats can compromise or disable safety measures designed to protect employees and ensure functional safety.

Pilz Automation Limited now has a dedicated training path for industrial security, with varying courses tailored to different levels of expertise. *Safety Meets Security* sits at introduction level and imparts an understanding of why industrial security matters and provides an

overview of the key legislation ... the Machinery Directive, the Cyber Resilience Act and NIS2.

The next level course, *Fundamentals of Industrial Security*, builds on that foundational knowledge and teaches delegates the key industrial security concepts, common threats, vulnerabilities and what these mean for automation and industrial networks.

Certified Expert for Security in Automation (CESA), the expert level

course, drills further into the specific requirements of industrial security, focuses on the correct application of IEC 62443 and practical implementation of robust cybersecurity measures.

CESA - like its certified predecessors Machine Safety Expert (CMSE®) and Expert in CE Marking (CECE) - is certified by TÜV NORD and, on successful completion of the exam, participants are awarded with a globally recognised certification. All courses are available in-person at the purpose-built training site in Corby, UK or online over two sessions.

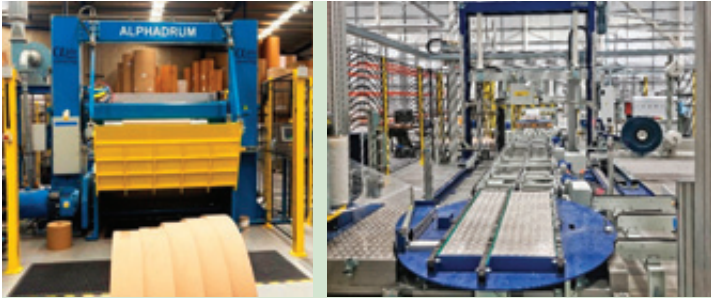


For Pilz's industrial security training course contents and dates visit <https://www.pilz.com/en-GB/trainings/industrial-security-trainings>

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UK position strengthened with new agency appointment



▲ Commenting on the development, Alpha Converting stated, "The UK market demands performance, reliability and measurable efficiency gains. Through our partnership with Reel Solutions, we are bringing the Alphadrum (left) and Alphamatic (right), highly competitive, technology-driven rewinding platform to UK converters, supported by strong local expertise."

Reel Solutions Ltd, led by industry specialist David Jobson, has been appointed as the exclusive agent for Alpha Converting Equipment Ltd in the UK. The appointment is a strategic step in Alpha Converting's growth plan, combining advanced European engineering with strong local industry representation. And with deep-rooted connections across the market, David brings extensive knowledge and established commercial relationships that will accelerate Alpha Converting's presence in the region.

At the centre of this expansion is the ALPHADRUM two-drum re-winder, a high-performance platform designed for converters seeking greater speed, automation, and production control. Capable of operating at speeds up to 1000 m/min, the re-winder is engineered to deliver both output and consistency ... two critical factors as UK producers continue to focus on efficiency, labour optimisation, and finished roll quality.

ALPHADRUM two-drum re-winder - performance highlights

- Production speeds up to 1000 m/min
- Proven two-drum winding geometry for stable roll formation
- Automatic core loading for continuous, high-efficiency operation
- Automatic taping for consistent tail sealing
- Automatic knife positioning enabling rapid format changeovers
- Integrated paper cross-cut system
- Advanced web tension management to reduce waste

- Flexible configuration to accommodate varying roll formats and core diameters

Supporting the mechanical platform is ALPHAMATIC, Alpha Converting's intelligent automation and control architecture, developed to reduce operator dependency and maximise line performance.

ALPHAMATIC automation system and complete packaging lines

- Fully automated, recipe-driven production control
- Synchronised core feeding and positioning
- Real-time monitoring and diagnostics
- Intuitive HMI interface
- Data-driven performance analysis
- Enhanced operational safety and efficiency

The combination of high-speed mechanical precision and integrated automation positions Alpha Converting as a competitive alternative for UK converters evaluating new investment or line upgrades. As the UK paper and tissue sector continues to modernise and invest in automation-led productivity improvements, the company's strengthened presence signals its ambition to become a key technology partner in the market's next phase of growth.

Reel Solutions Limited
David Jobson

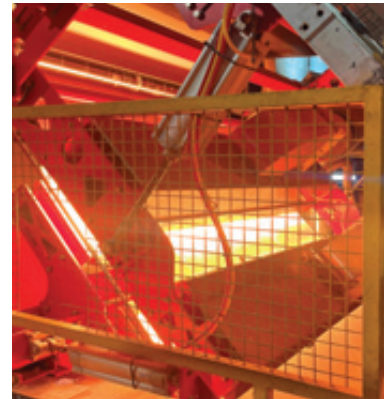
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Carbon-free coat drying trials

A paper mill in Germany is running trials to evaluate the energy efficiency and quality benefits of using Compact Engineering's infrared dryers to prevent binder migration while at the same time removing the evolution of carbon dioxide from the drying process.

Compact's dryers use electricity as the primary power source, which unlike gas, can be decarbonised. However, there are other benefits of using Compact's energy efficient dryers when drying coatings on board machines.

Due to the wavelengths that Compact generates with its lamps, made in-house and specifically designed to dry paper and board, the infrared is able to penetrate the coating and heat the board below. Heating the sheet creates a partial pressure in the sheet structure providing resistance to the coating colour, keeping the coating on the sheet surface rather than allowing it to move into the sheet voids. Coating colour is expensive and only effective if it covers the sheet surface, so preventing it being absorbed by the sheet saves resources and money and results in the highest quality finished products.



Compact's coat dryer is being trialled in a German mill

forming a skin as the latex cross links and this skin prevents free evaporation of further water from the coating. You can see when this is happening, as the rolls and cylinders on the coated side of the sheet become covered in coating colour. This clearly has a negative effect on the quality of the coat as well as the drying rate.

Compact's dryers, however, heat the substrate and the coating evenly and pay close attention to the drying requirements that result in the coating drying from the initial sedimentation layer, which is where the coating and the board meet. The coat is then dried from the base upwards and the coat surface remains both cool and open to further evaporation by the knowledgeable active management of the boundary layer.

Active management of the boundary layer ensures that the coated surface remains cool, as evaporation is a cooling process, and so prevents any heat related deformation while allowing the application of around 500 kW/m² of infrared energy to the sheet. This allows the removal of large amounts of water from the coating in a small amount of machine space and on existing machines, space is always at a premium.



Some of the test gear ready for dispatch

Board machines are reasonably slow and quite often the coatings are applied in relatively heavy weights to improve smoothness and coat opacity. For gas dryers, this presents a problem ... as soon as the coated sheet enters the dryers, the medium wave infrared from the emitters is immediately absorbed by the coat surface. This often results in the coat surface getting hot and

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Reduce maintenance costs with OEM-compatible progressive cavity pumps

LM-X Series Progressive Cavity Pump

Powerful performance
Versatile use



▶ The LM-X range of progressive cavity pumps are now available from L&M's UK agent, Salvtech Limited

Salvtech Limited has expanded its pump offering with the addition of the Lotzer & Mühlenbruch LM-X progressive cavity pump range, further strengthening its ability to support customers across a wide variety of industrial applications. Known for handling difficult, viscous, abrasive and shear-sensitive media, progressive cavity pumps remain a key solution in sectors where reliability, consistency and ease of maintenance are essential.

The LM-X range has been selected

to complement Salvtech's existing pump portfolio by giving customers a high-quality, dependable option for both new installations and ongoing maintenance requirements. Designed with practicality in mind, the range offers a robust solution for operators looking to maintain performance while simplifying servicing and reducing downtime.

A key advantage of the LM-X range is its suitability for sites seeking a straightforward replacement option for existing Seepex BN range or similar PC

pumps within existing progressive cavity pump installations. This makes it an attractive choice for customers who want to upgrade or maintain their systems without the need for major pipework or baseplate alterations, helping to keep changeover time and disruption to a minimum.

By adding the Lotzer & Mühlenbruch LM-X range, Salvtech continues to build on its commitment to deliver practical engineering solutions backed by strong technical support, aftermarket service and a

clear understanding of customer needs. The addition reinforces its position as a trusted partner for pump supply, spares and service across industry.

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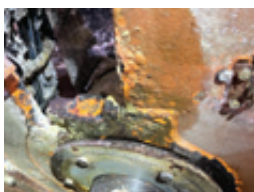
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It's called the 'dry end' for a reason

In the fast-paced world of paper manufacturing, even the smallest mechanical oversight can quickly escalate into a major operational problem. A recent inspection of a tissue machine reel section at the dry end highlighted how something as simple as worn pivot bushes, combined with excessive water use, can lead to costly downtime, equipment damage, and persistent production issues.

The domino effect of neglected lubrication - During the inspection, engineers from Walmsleys Limited identified significant wear in the primary arm pivot bushes. This wear allowed the primary arm to move out of alignment, pulling the reel spool too far towards one side of the machine.



Primary arm bore corrosion



Primary arm bore wear

The result was damage to the secondary arm rails, misaligned components, and a cascade of mechanical and control issues that disrupted production. While the mill had addressed some of the symptoms themselves, the underlying cause remained the same ... inadequate lubrication combined with accelerated wear.

Water ... the silent saboteur - One of the most striking findings from the inspection was the role that excessive water use had played in accelerating corrosion and component failure. Operators at the dry end of the machine, often under pressure to maintain production, were using large quantities of water to clean the reel section during operation.

Whilst this may appear to be a quick solution for removing tissue debris, the water washed away critical lubrication, promoting corrosion, and degrading mild steel and cast iron components.

Walmsleys engineers noted similar reel sections operating in other mills, some even older, showed significantly less corrosion. The key difference is that many of them used air lines rather than water at the reel end or simply used far less water.

The contrast is clear - Where water is used

frequently, components rust, fasteners deteriorate, and gear teeth become pitted when packed with wet-tissue pulp. And where air is used, or when comparing the tending side to the drive side of the same machine, equipment remains in far better condition on the drive side. The inspection also demonstrated how seemingly minor

components can cause major operational issues when neglected, issues not only affecting machine performance but also introducing potential safety risks.



Secondary arm pivot wear

- **Worn pivot bushes** - allow the spool to shift off-centre, damaging the secondary arm rails
- **Unused lubrication points** - mean only part of the pivot assembly was lubricated, leaving critical areas exposed to wear
- **Corroded fasteners and gear segments** - found in areas where water had washed away protective lubrication and allowed wet-tissue pulp to accumulate in gear teeth

Lessons for paper makers and maintenance engineers - This case highlights several key principles for maintaining reliable paper machine operation.

- **Lubrication is non-negotiable** - regular checks are essential to ensure lubrication reaches every critical component
- **Water is not always the answer** - the dry end of a paper machine is called that for a reason. Excessive water use accelerates corrosion, removes protective lubrication, and

shortens the lifespan of components

- **Even minor components demand attention** - pivot bushes, pivot pins, and lubrication nipples may appear insignificant, but their failure can quickly halt or disrupt production. These components should form part of routine inspection and maintenance programmes
- **Proactive maintenance prevents major failures** - the inspection concluded with a clear message ... preventive maintenance is far less costly than reactive repairs. Addressing wear early, maintaining proper lubrication and reducing unnecessary water use can prevent the domino effect of mechanical failures that leads to expensive downtime

Engineering support when it matters - For mills facing similar challenges, Walmsleys provides not only inspection services but also practical engineering solutions, from component replacement to system improvements designed to keep paper machines running reliably. In an industry where every second of production matters, the difference between smooth operation and an unexpected shutdown often comes down to the smallest details.

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Paper machine dryer section guiding systems

The needs of the paper industry constantly develop and production facilities must be used efficiently to achieve maximum productivity, high quality standards and low operating costs whilst meeting environmental sustainability. Among the most effective solutions are continuous technical upgrades whenever a clear decrease in performance is identified and the installation of modern technology will bring new operational benefits.

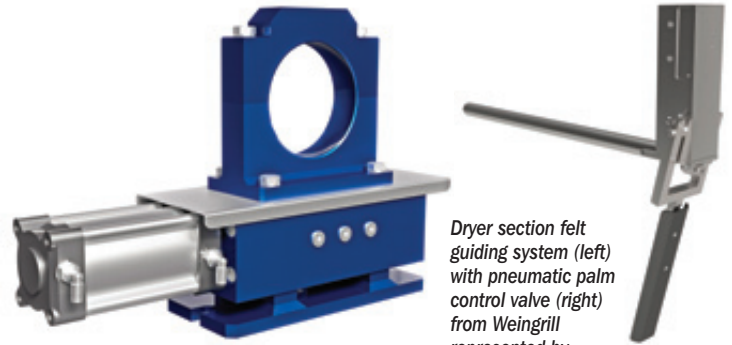
Paper machines are made up of countless parts in sections, systems and components ... forming, press, drying and reel. Weingrill, a company with more than 70 years of history offering high quality products with reliability and exceptional after sales service, is among the leading companies in the world supplying tensioning, guiding, cutting and cleaning systems for most sections of the paper machine including multi-cylinder drying sections.

A guiding system limits lateral oscillations of the dryer felt by a controlled movement of the guide roll which avoids displacement and resulting damage, reduces edge

wear, extends the life of machine clothing and optimises machine productivity. Guiding systems are designed to keep the felt centred with respect to the rolls that support it. By slightly moving one end of the guide roll in the correct direction, the felt path is corrected. The principle is based on the fact that the felt always moves away from the guide roll perpendicular to the axis of rotation. Thus, it always moves towards the end of the roll it encounters first.

Since traditional air bellows have a limited operating life due to low heat resistance, there is a specific model of guide for dryer section applications, actuated by a pneumatic cylinder ensuring a prompt and uniform movement. This linear guide can be installed in a horizontal, vertical or inclined position and has the following features:-

- Pneumatic cylinder suitable for high temperatures
- Compact size and easy installation
- High reliability, reduced and simple maintenance
- Excellent operational synergy with closed-centre palm valve



Dryer section felt guiding system (left) with pneumatic palm control valve (right) from Weingrill represented by Jarshire Ltd for 20 years

- Supporting plate customisable to match cylinder support
- Various sizes to cover all machine widths
- Internal mechanical spring for improved control sensitivity
- Mechanical spring customisable for vertical or oblique mounting

The position of the felt and therefore roll end movement is controlled by a pneumatic palm control valve with a paddle in continuous contact with the felt edge, the valve regulating the flow of air to the two chambers of the

guide actuator. The safety of the system is enhanced with alarm palms where electrical sensors signal any excessive displacement on any of the two sides.

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Celebrating anniversaries with Deublin



Pioneer Visionary Inventor Luke Deubler



Pioneer Visionary Inventor Hanns Hörbiger

Back in 2020 Deublin announced that it had been acquired by Hoerbiger to help ensure its continued growth as part of a company that shares the same cultures and values. Hoerbiger was founded in 1895, Deublin in 1945 so last year both companies celebrated significant anniversaries ... Hoerbiger 130 years and Deublin 80 years.

Hoerbiger operates globally in the energy sector, in the process, automotive, mechanical engineering and electrical industries and in safety technology. Deublin Company is a manufacturer of rotary unions ... a mechanical device allowing the transfer of pressurised fluid from a stationary source into rotating

machinery for heating, cooling or transfer of fluid power. Its applications include paper and packaging, automotive, food and processing equipment, machine tool applications, renewable energy, and more.

Deublin's product line includes steam joints and syphon systems for paper machine drying cylinders, and electrical slip rings used to conduct electrical currents or signals into rotating machinery.

When the founder of Hoerbiger, Hanns Hörbiger, set out to pioneer new possibilities in engineering in 1895, his vision led to the development of the first plate valve and laid the foundations for what has grown from a successful family

run company to an international organisation.

And when Luke Deubler and Dick Linn continued this spirit of innovation in 1945 with the development of the first rotary union, creating Deublin Company, this business too grew into a global leader and now an integral part of the Hoerbiger family.

The CEO of Deublin, João Pucetti, has praised local teams around the world, all celebrating in one common spirit despite the distance. Mr Pucetti said, "I am incredibly proud of what we have achieved together and deeply grateful to everyone who continues to build on this legacy. As we honour our past, we remain firmly focused on the

future, driving sustainable growth and innovative solutions for our customers worldwide with rotary unions and slip rings in key areas such as semiconductor, aerospace and defence, machine tool and renewable energies to name but a few".

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Effluent treatment plant capacity increase by Poole Projects

Poole Projects Limited, the Manchester based independent consultant engineering company, has recently been awarded a contract to upscale an existing effluent treatment plant (ETP) for a UK based food producer. The work is being carried out

expected once the operating lines are fully up and running. Through discussions with the customer and data figures received from the current site on the properties and volumes of wastewater, it was decided that a second DAF installation would be a good option to deal with the increased volume of effluent.

The DAF unit and associated air requirement equipment have been sized and will be supplied by KWI, with Poole Projects designing and installing the process and pipework to complete the system. Support steelwork, platforms and tanks are all included in Poole Projects design and supply.

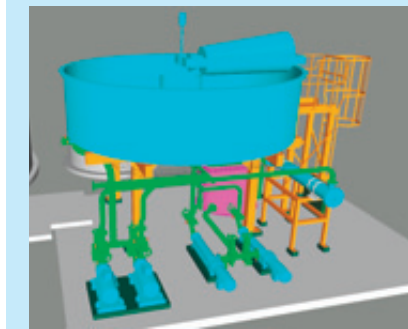
As the site is an existing plant, a major factor to be considered in the layout design is the lack of available space to site the new DAF, associated equipment and pipework. Using AutoCAD Plant 3D, Poole Projects engineers managed to model the equipment and create a layout providing the best available access to

equipment for installation and maintenance.

The delivery and installation work for the new plant, which is being carried out whilst the existing plant continues to operate, will start in late April with commissioning of the system expected to be in May 2026.



AutoCAD Plant 3D enabled Poole Projects engineers to model the new equipment providing best access for installation and maintenance



alongside KWI (formerly Krofta Engineering), specialists in water and wastewater treatment. KWI is a major supplier of dissolved air flotation units (DAF's), manufactured at its head office in Austria. Poole Projects and KWI have a long history of working together to successfully complete many projects dating back over 20 years.

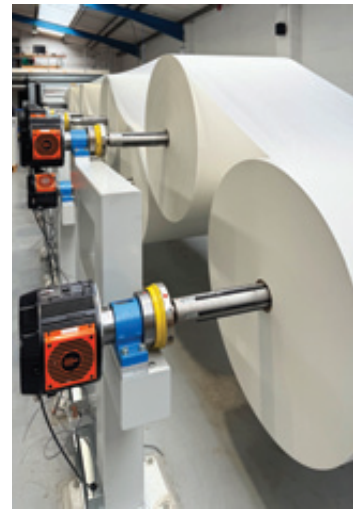
The customer recently closed another of its sites in the UK and will relocate certain of the production lines to the site in question. This site doesn't currently have the capacity to deal with the wastewater requirements which are

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Svecom safety chucks, shafts and Renova pneumatic brakes have been installed at Linwood Raker, UK to provide improved efficiency



Upgrade completed at Linwood Raker

A second installation of Svecom safety chucks, shafts and Renova pneumatic brakes at Linwood Raker in Nottinghamshire, UK by Reel Solutions Limited has recently been completed.

Linwood Raker is a UK-based specialist in the conversion of greaseproof, silicone-coated and food-grade papers, supplying precision sheeted and die-cut formats to food manufacturers operating high-speed automated lines.

As customer demand increased, the company wanted to expand capacity and had worked with David Jobson of Reel Solutions previously. The project brief was to design and supply a system that could be retrofitted to existing and new reel stands to achieve operator safety, safe reel handling, smooth unwinding, accurate web tension control and sheet length along with reduced downtime and maintenance.

The company met all the criteria offering Svecom safety chucks with side lay adjustment, lightweight air shafts and Renova pneumatic brakes on eight reel stands per sheeter. The upgrade allows longer continuous runs, reduced changeover frequency, and improved efficiency across multi-SKU schedules.

With growing pressure on consistency and uptime, Linwood Raker continues to focus on

dimensional accuracy, calliper control and crease integrity to ensure reliable performance during feeding and packing operations. Production is supported by documented quality systems aligned with BRCGS Packaging standards, providing full traceability from raw material intake through to dispatch.

For manufacturers where minor variations can create major disruption, Linwood Raker positions itself as a technically driven conversion partner, built around process control, scalable machinery investment and dependable line performance.

David Jobson has worked directly with Svecom-P.E. of Italy for over 35 years. The company offers a full range of expanding technologies from lightweight air shafts through to core plugs and reel spools, including a full range of handling equipment. Having real experience, solutions are provided that reduce downtime, maintenance and the requirement for a next-day spares service.

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Another press/Yankee framework rebuild by Walmsleys in the Far East

A legacy machine reinforced for the future -

A major tissue manufacturer in the Far East has partnered with UK-based Walmsleys Limited to execute a critical structural upgrade on a decades-old tissue machine. Originally installed in the early 1980s, the machine had suffered significant corrosion in its Yankee dryer support framework, posing both operational and safety risks.

Diagnosing the challenge -

A structural survey and finite element analysis (FEA) revealed severe corrosion in the horizontal press frame beams and their supporting posts, particularly near the wet-end press roll area. Additional deterioration was found on the dry-end posts, prompting a full-replacement to be planned.



Column corrosion

Engineering a safe solution - Due to the complexity of removing the hoods, it was decided to leave them in situ. Walmsleys designed a bespoke temporary structure to support them during the rebuild. This included hydraulic jacks and bridging beams, a custom made

hood support framework to avoid dismantling the Yankee hood, and props to prevent the Yankee dryer from moving should there be an earthquake. These measures ensured structural integrity and safety throughout the rebuild process.



Hood support structure (in grey), along with jacking arrangements



Precision execution - Key steps included:

- Installation of stainless steel datum plugs in the floor and wall targets for alignment
- Protective wrapping of the Yankee dryer surface
- Alignment checks on each of the rolls to be removed
- Removal of felt and wire rolls and Yankee dryer head insulation panels
- Flame cutting of corroded beams and subsequent re-welding



Yankee surface protected, head insulation panels removed, temporary support structure in place and beam flame cut and prepared

New beam assemblies, prefabricated in Europe and airfreighted for speed, were craned into position and welded onsite. Optical alignment of rolls and framework ensured precise re-installation.



New beams and columns

Start-up success - After reinstallation of all components, the machine was restarted. From a pre-rebuild limit of 850 m/min (limited

by vibration) the machine reached its maximum speed of 1050 m/min on the first day. Vibration levels were significantly reduced, confirming the success of the structural upgrade.



Machine rebuilt

This project demonstrates the value of proactive structural assessment and tailored engineering solutions. Walmsleys comprehensive approach took into account site specific restrictions and requirements, resulting in the need to design temporary supports, coordination with mill maintenance teams, through to rebuild and final alignment until full operational capability was restored ... all aimed at extending the life of a critical asset for tissue production.

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CIBSE-certified heat recovery CPD for the print and paper industry launched

Turnbull & Scott (Engineers) Ltd, specialists in heat recovery and thermal engineering since 1933, is inviting professionals across the paper, printing and wider manufacturing sectors to attend its upcoming CIBSE-certified heat recovery continuous professional development (CPD) sessions.

Available as online webinars or in-person team training, the

sessions focus on the requirements, applications and benefits of flue gas heat recovery (FGHR) in energy-intensive industries such as print, packaging and papermaking. Attendees will gain practical insight into how waste heat can be captured and reused to improve efficiency, cut carbon emissions and reduce operating costs.

The CPD covers key topics including UK decarbonisation

targets, the environmental and financial impact of wasted heat, available recovery technologies, real-world case studies, and design considerations for both retrofit and new-build projects.

Led by Turnbull & Scott's technical team, the training is designed for facilities managers, engineers and decision-makers looking to integrate heat recovery into existing operations. As the presentation is now CIBSE certified, participants can also gain CPD hours by signing up.

The next available session is 29 May 2026 and the training runs throughout the year on a regular basis. For further details or to book a session, contact info@turnbull-scott.co.uk

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Fault-finding skills are invaluable says Pilz

Full details of this training session from Pilz are available at: <https://www.pilz.com/en-GB/trainings/articles/242391> ►



The mastery of fault-finding is one of the most invaluable skills for anyone dealing with plant and machinery. Locating and rectifying defects in a system will improve productivity, extend the life of machinery and equipment, and result in substantial cost savings.

And it is exactly those invaluable skills that attendees walk away with when attending the new Pilz training course, 'Machinery Safety for Maintenance Technicians'. Over two

days a machinery safety expert will impart techniques and commonly used approaches to fault-finding in safety-related control systems, easily utilised in day-to-day working.

Delegates will also be able to put their new skills into practice before they leave the machinery safety academy via a series of hands-on exercises including practical wiring and fault finding on safety relay-based circuits.

As is the case for the majority of Pilz UK training courses, 'Machinery Safety for Maintenance Technicians' is certified by external independent test organisations. City & Guilds Assured, delegates will receive both a traditional paper certificate and a digital credential on successful completion of the course.

The course is also CPD-certified, and attendees can log 10.5 hours of points in their personal portfolio whilst participating. It runs from the

company's training academy in Corby, UK with the next sessions being 22/23 June and 7/8 September 2026.

Pilz Automation Ltd

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A digital revolution for expanding shafts

In the paper and tissue industries every minute of machine downtime has a cost. And every incorrect setting can compromise high-value components such as expanding shafts, which are at the heart of unwinding and rewinding processes.

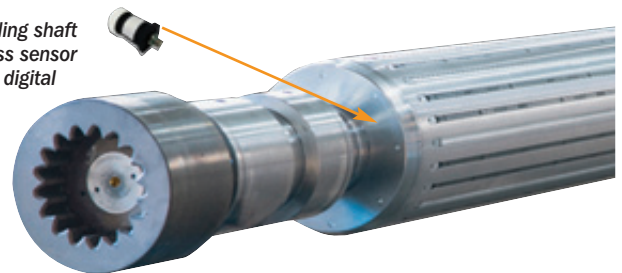
From this Svecom-PE., represented in the UK by Jarshire Limited, developed the Digital Pressure Control System, a technology designed to bring expanding shafts into the industry 4.0 ecosystem, transforming them into intelligent, monitored, and traceable devices.

In paper and tissue plants, shafts made of different materials and sizes - steel, aluminum, and carbon fibre - are often handled manually by operators. Incorrect pressure settings or improper use can lead to damage, premature wear, and unexpected downtime, directly impacting efficiency and operating costs.

The Digital Pressure Control System makes it possible to move beyond this reactive approach. Each expanding shaft is uniquely identified and continuously monitored. A PLC automatically adjusts machine parameters, reports anomalies, and records operating cycles and maintenance status. The result is a safer, more controlled, and standardised process.

At the core of the system are industrial wireless sensors installed directly inside the expanding shafts. And with encrypted radio

The expanding shaft with wireless sensor becomes a digital asset ►



transmission and no wiring, installation is fully plug-and-play. The sensors are rated at IP67 or higher, are resistant to shocks, vibrations, oils, acids, and alkalis, and offer selectable measurement ranges from 2 - 1000 bar operating between -20°C and +85°C.

The system is designed to adapt to different configurations allowing integration into existing lines and new plants, without requiring modifications. The new system

delivers measurable advantages enabling predictive maintenance and extended life, fewer replacements, reduced waste, and a lower environmental impact ... the expanding shaft, in fact, becomes a digital asset generating data.

Svecom shafts, chucks, core plugs and handling systems are exclusively available through Jarshire for all UK paper and tissue mills with spare parts held in stock for same day / next day delivery.

Data is collected through radio receivers and transmitted to an edge gateway unit



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A sound result for Compact Engineering

Compact Engineering Ltd has been awarded a repeat order for an innovative drying system used to dry moulded pulp used in the manufacture of loudspeaker cones.

Loudspeaker cones are made by vacuum forming pulp onto a mould where the mould is submerged into a vat of pulp, a vacuum is applied to the inside of the mould, and the pulp forms a uniform fibre mat on the outside of the mould. The mould is then withdrawn from the vat and the vacuum provides the initial dewatering to about 50% solids.

The cones have a relatively high basis weight and reasonably low starting solids content immediately after forming, leaving plenty of water to remove. They are also prone to differential shrinkage if the drying is not uniform and this can influence the acoustic properties of the speaker cone. The cones also come in a wide variety of sizes, requiring the zoned application of heat to both prevent over drying and the waste of energy.

Compact's cone dryers offer a unique solution to these problems

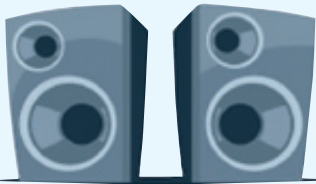
The infrared energy is applied via lamps Compact makes specifically to heat cellulose fibre, running at a wavelength that maximises both penetration into the pulp and absorption by the cellulose fibre. The cooling air used to keep the lamps and reflectors at an optimum temperature, is impinged onto the cone surface to break and replace the boundary layer. The impingement air creates a low

vapour pressure outside the cone, and this is exploited by the high vapour pressure induced inside the cone structure by the application of the infrared. This vapour pressure differential serves to drive the water vapour out of the sheet structure and into the surrounding air. The moisture laden air is then collected at the top of the cone dryer and exhausted from the premises.

Careful management of the boundary layer allows the application of infrared at high intensity without causing any adverse surface effects due to the very high rate of

evaporation keeping the surface cool. It is important that the finished product is free of defects as cones can be exposed components in high-end sound systems and the visual impact is important. Scorching the fibre also changes its physical properties having an influence on acoustic performance.

The use of Compact's infrared dryers is much quicker than alternative methods, more controllable and cheaper to run than normal moulded pulp drying solutions. The dryers are also, inherently safe as they cool to touch within a second of switching off the power. The company has wide experience making bespoke dryers for a wide range of moulded pulp products.



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Jodie Emmerson receives her 15 years service award from Turnbull & Scott's managing director Peter Murphy

Celebrating the women behind Turnbull & Scott

In March 2026, the month of International Women's Day, Turnbull & Scott (Engineers) Ltd is proud to recognise and celebrate the talented women who play a vital role in its success.

Jodie Macleod, its research and development engineer, graduated from Heriot-Watt University in 2021 with a bachelor's degree in chemical engineering. Since joining the business, she has specialised in thermal energy storage using PCM, supporting both company development projects and Turnbull & Scott's clients. The company is also delighted to share that Jodie has now been promoted to quality & engineering manager.

Jodie Emmerson recently celebrated receiving her 15 years service award. Now Turnbull & Scott's customer service manager, Jodie is a valued part of the supply management team, and her dedication and contribution over the years have made a lasting

impact on the business.

Another key member of the team is financial controller Stacie Robertson, who has been with the business for 17 years. Stacie began her career with Turnbull & Scott as an office junior and has progressed through the company with determination and commitment. She also completed a Diploma in Business Studies at Heriot-Watt University. As Stacie prepares to begin her maternity leave later this year, her role will be covered by Ashley Swan.

Turnbull & Scott is proud to have strong, talented women across the business whose expertise, commitment and leadership continue to shape its success.

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Lawrence Jobson joins the sales team at Reel Solutions

◀ Lawrence Jobson has moved into the sales department at Reel Solutions Ltd

Reel Solutions Ltd is pleased to announce that Lawrence Jobson has moved into the sales department. Lawrence spent the past few years office-based, successfully managing the spares department and warehouse operations. During this time, he developed a detailed understanding of the company's product range, operational processes, and the practical challenges faced by customers. His

move into sales marks a natural progression, combining his technical knowledge with a forward-facing customer role.

Having worked closely with customers behind the scenes, Lawrence is now looking forward to meeting them in person, strengthening relationships, and introducing the latest products and solutions that Reel Solutions has to offer. His hands-on experience within the business provides him

with a strong foundation to deliver informed, solution-focused support.

For David Jobson, welcoming Lawrence into the sales department is a particularly proud moment. It brings back memories of when his own father, Peter Jobson, invited him to join the family business over 35 years ago. The continued involvement of the next generation reflects the enduring commitment of the

Jobson family to the converting, paper and tissue industry. Peter would undoubtedly be proud to see his grandson taking an increasingly active role in Reel Solutions future.

Outside work, Lawrence maintains a disciplined and driven mindset as a dedicated fitness enthusiast. A former personal trainer and Muay Thai kickboxing instructor, he brings the same focus, resilience, and work ethic to his professional role ... qualities that align closely with the values of Reel Solutions.

Reel Solutions Limited
David Jobson

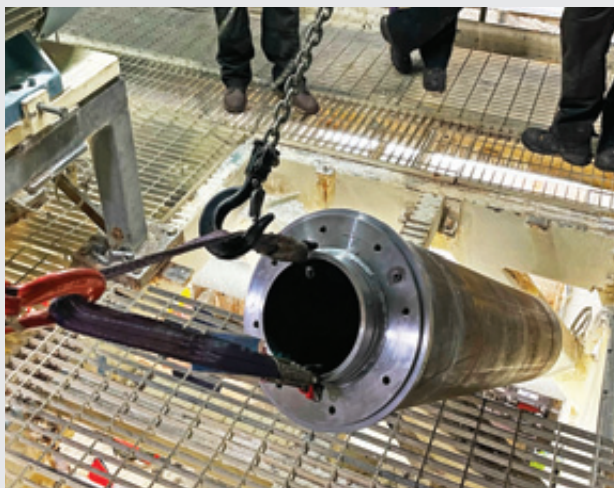
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Yankee insulation sleeves deserve more attention

A Yankee dryer might be the heart of a tissue machine, but its insulation sleeves are the quiet components that keep everything running smoothly. If that sleeve fails the consequences can be costly.

A healthy insulation sleeve acts as a thermal barrier, limiting conductive heat transfer from the Yankee journals into the bearings or bearing inner race. If the sleeve degrades, its thermal resistance drops, allowing the potential for excessive heat to migrate into the bearing and lubrication system. That rise in temperature can accelerate lubricant oxidation, reduce oil viscosity, and weakens the hydrodynamic film that protects the rolling elements increasing the risk of metal on metal contact. The result is a perfect recipe for premature bearing fatigue, micro pitting and spalling, which can accelerate quickly to catastrophic failure of the bearing.

From a production standpoint, the stakes are high. A failed



Yankee dryer insulation sleeve inspection and timely replacement by Walmsleys engineers can help protect this high-value asset and preserve machine uptime



Yankee bearing can take a machine offline for days or weeks depending on the severity, requiring heavy lifts and precision realignment. In contrast, routine inspection and timely replacement of the insulation sleeve is a low cost intervention that protects a high value asset and preserves uptime.

In short, the insulation sleeve may be small and an out-of-sight component, and can be easily overlooked, but its role is anything but. Keeping them in good condition safeguards bearing life, lubrication efficiency, and reduces the risk of bearing failure making it one of the smartest preventive maintenance checks a mill can prioritise.

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The Kadant way to filter process water

A leading UK-based paper mill has awarded Kadant an order for multiple products to enhance the production of high-quality filtration papers for the food and beverage industry. The project scope included a high-capacity gravity strainer.

The Kadant gravity strainer provides an effective and proven solution for filtering process white water containing relatively high levels of fibre concentrations. Typical applications include filtering vacuum pump seal water, clear-leg save-all water systems, cylinder vat overflows, stock washer filtrate, and press section water for the removal of felt hair.

Designed to operate under gravity feed conditions, Kadant gravity strainers can eliminate the need for feed pumps, reducing energy consumption and simplifying system design. They are engineered for robust, low-maintenance operation and include the following features:

- High flow rates with relatively

- high solids loading
- Gravity feed capability can eliminate the need for pumps
- Continuous media cleaning with rotating showers
- The rotating shower is the only moving part
- Corrosion-free stainless-steel construction

These features translate directly into measurable operating benefits for paper mills:

- Lower cost per m³ processed
- Minimal power use and cost
- Low maintenance
- Maximum throughput, minimal downtime, high efficiency
- No freshwater requirements

How the gravity strainer works - Process water enters the gravity strainer and is evenly distributed around the periphery of the tank, flowing upwards across a fine screen with mesh sizes from 40-400. Fibres and solids are retained on the media surface, while filtered water is collected on

the lower section and discharged from the unit. A continuously rotating shower above the screen washes retained material towards the central reject outlet for removal.

High efficiency is achieved with the Kadant gravity strainer through controlled flow and gentle separation forces, enabling efficient removal of long and short fibres, felt hair, and granular solids, without fibre stapling commonly associated with pressure filters.

Proven reliability - Kadant gravity strainers have been the industry standard in pulp and paper mills for decades with hundreds installed worldwide, delivering reliable, non-pressurised

operations across a wide range of applications. With few moving parts and flow capacities exceeding 45 m³/hr, gravity strainers offer an economical, dependable, and efficient solution for process water filtration.



Kadant gravity strainers deliver reliable operation over many applications

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Efficient slitting for tissue and paper winders

The Taurus slitting system from Espo s.r.l. represented by Jarshire Limited, offers maximum spatial nip-point stability due to excellent geometry and quality engineering as well as a range of steel grades for special applications to improve slitting and tool performance.

Manual positioning is achieved via a digital read-out, and the system has user-friendly and fully customisable automatic positioning with web-in or web-out configurations, both having repeatable accuracy.

The knife holders and knives are the main core of the slitting system, designed and constructed to ensure necessary stability and body rigidity. Main features include only one air inlet which, with consecutive non overlapping

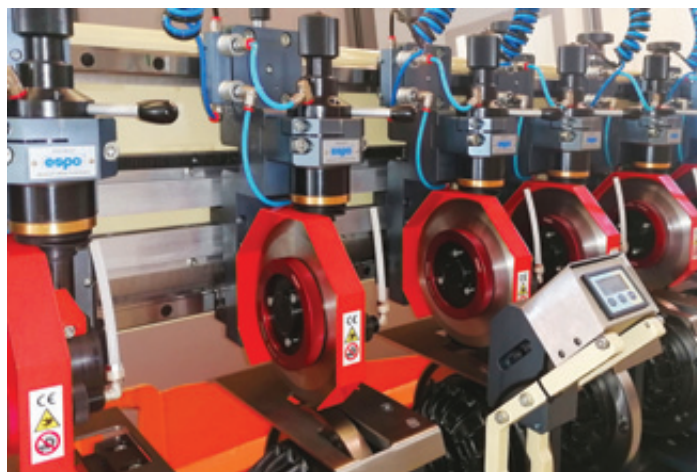
movements, activates the vertical stroke and the axial lateral approach. There is quick left or right orientation as well as a cant angle setting, an axial setting for optimal control of the lateral side load, and

the patented pre-loaded flange activated by peripheral spring reactions for optimal stability.

Further options include a vertical downstroke (overlap) setting by means of a visual depth gauge,

and an integrated dust control system.

Every Espo slitting system can be tailor-made to meet specific processes. They can be customised with different slitting sizes and by including a spreader and support rolls available in different materials. Fully customisable turnkey projects are undertaken, and an installation, training and slitting workshop is available to customers.



Espo's Taurus slitting system is available from Jarshire Limited

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Broadened heat optimisation offer for paper mills



◀ Turnbull & Scott has partnered with Italian manufacturer Robur S.p.A. to expand its range of practical heating solutions

Turnbull & Scott (Engineers) Limited is pleased to announce a new partnership with Italian manufacturer Robur S.p.A, expanding its heating offer for the pulp and paper industry. Robur develops high-efficiency heating systems and gas unit heaters designed for industrial and commercial applications, giving customers a proven alternative where older heating methods are no longer the best fit.

Many paper mills still rely on older steam-based heating systems. While steam remains the right solution in some environments, it can also create inefficiencies, complexity and rising maintenance demands when systems age. By adding gas heating technology to its range, Turnbull & Scott can now support customers with a broader approach to heat optimisation based on site requirements, process demands and operating costs.

This partnership means customers can now access steam, gas and electric heating solutions through one engineering-led supplier. Instead of forcing one technology into every application, Turnbull & Scott can help pulp and paper mill sites assess the most effective route for their building, process and energy strategy.

For customers looking to modernise ageing plant heating, improve control and reduce wasted energy, Turnbull & Scott can now

offer a wider choice of practical heating solutions backed by technical support and application knowledge.

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Site scanning by Salvtech reduces project work time and risk

The advanced site scanning service by Salvtech Limited provides a fast, accurate, and highly detailed way to capture plant, equipment, and infrastructure in full 3D. Using a combination of Faro area scanning and high-resolution handheld scanning, the company can create 3D drawings helping in both equipment layout and detailed

component interfacing. The Faro scanner allows quick mapping of entire areas, producing precise point clouds and spatially accurate models of buildings, pipework, and machinery. This is ideal for layout planning, clash detection, and retrofit projects. For more intricate requirements, handheld scanning technology captures fine component-level detail, enabling accurate reverse engineering, part replacement, and fabrication drawings.

By combining both technologies, Salvtech bridges the gap between macro and micro scanning, giving a single, cohesive 3D model that reflects real-world conditions with exceptional accuracy. This reduces site revisits, minimises design errors, and speeds up project delivery.

Whether planning upgrades, troubleshooting existing installations, or creating as-built documentation, Salvtech's scanning service provides a reliable foundation for confident decision-making. The result is less guesswork, lower risk, and a smoother path from concept to completion.



◀ Advanced site scanning by Salvtech means less guesswork, lower risk and a speedier project

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Excellence in electrostatic solutions and web cleaning

Reel Solutions Limited is pleased to announce its appointment as the UK agent for Hildebrand Technology. Located in Gossau, Switzerland and specialising in the field of extracting dust in addition to electrostatic charging and discharging from different types of moving substrates in web and sheet form, Hildebrand Technology confidently offers custom made solutions.

Advanced know-how gained over many years combined with vast international experience in flow and vacuum technology as well as

electrostatics, is the basis of this independent company.

Custom specific solutions using revolutionary technology, along

with a full customer service package has set new standards since 1995. And from December 2015 Hildebrand Technology is a division of Gema Switzerland GmbH.

A highlight of the portfolio is the xStream non-contact web cleaning system, which combines intelligent airflow design with robust construction. xStream delivers exceptional cleaning

performance, low maintenance requirements and long term operational stability. With continuous investment in research and development, Hildebrand Technology remains committed to providing high quality solutions that support cleaner, more efficient and more reliable production processes.



The xStream non-contact web cleaning system from Hildebrand Technology is available through Reel Solutions Ltd in the UK

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PT2X™ rotary joint ... the new generation

With many 1000's of proven installations around the world Kadant's PTX rotary joints and stationary syphons have long set the benchmark for reliability. Building on extensive research and development, engineering innovation, and field trials, the PT2X rotary joint is the new generation representing the latest technology designed exclusively for paper machine drying cylinders.

This patent-pending system

allows papermakers to operate their steam and condensate system over a wide range of conditions, with flexibility and reliability. The heavy-duty design and materials handle high-speeds and angular misalignment, yet the lightweight construction allows for ease of installation. The PT2X rotary joint can also accommodate thermal expansion of the drying cylinder journal, even when used on the floating frontside bearing assembly.

The seal cartridge is protected by a stainless-steel shroud to prevent any contaminants from shortening the life of the rotary joint. And a high-visibility seal wear life indicator enables engineers to plan predictive maintenance when the seal ring is worn. The PT2X rotary joint is rated up to 14 bar, 232°C and 500 r/min allowing paper mills to increase operating pressures and temperatures.

Features of the PT2X rotary joint include:

- Seal cartridge design with protective shroud and high visibility seal ring wear indicator, polished stainless steel end cap, proprietary balanced seal design

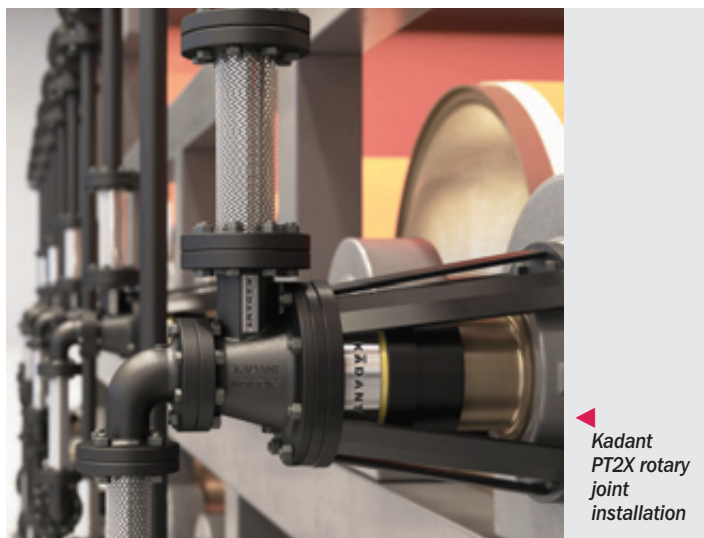


Kadant PT2X rotary joint and syphon with steam sleeve

Benefits of the PT2X rotary joint include:

- Accommodates misalignment and run out, increased operating pressures and temperatures, and extended durability
- Simple maintenance and installation, protection from outside contaminants, increased flow performance, reduced vibration and strain to extend life

- Large flow passages to reduce pressure drops, 14 bar (200psi) capability



Kadant PT2X rotary joint installation

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Did you know?

Pulp & paper manufacturing resilient in 2025 - In the context of rising costs, increased competition and industrial downturn, preliminary statistics from the Confederation of European Paper Industries (Cepi - www.cepi.org) show that whilst European paper and board production decreased slightly in 2025, the industry is showing moderate resilience.

The general trend since 2021 reflects problems encountered across all manufacturing sectors over the past 5 years due to adverse macro-economic trends, a sluggish demand, heavy impact on the industry of high energy and

manufacturing costs compared to global competitors, along with a growing regulatory burden in Europe, geopolitical challenges and rising trade tensions.

In 2025 the performance of the European pulp and paper sector compared to that of global competitors is positive with production decreasing more than in Europe in most paper and board producing countries. The USA, Japan, Canada and South Korea all recorded a substantial decline with Brazil and China being exceptions.

“Insufficient demand remains an important limiting factor to production. A further growth potential exists in replacing fossil-

based materials but there we face an unlevel playing field with fossil-based materials and asymmetric information guiding the customer choices,” said Jori Ringman, Cepi Director General.

Did you have a cracking Easter? - 80 million Easter eggs were purchased in the UK over the recent break and it is likely that over 5600 tonnes of packaging waste will need to be disposed of. A recent survey

found that on average just 75% of each egg was chocolate, the remaining being packaging ... around 4500 tonnes of cardboard with the remainder being plastic and foil.

Over the years Easter egg producers have made great strides in reducing and in some cases eliminating plastic

packaging in their products relying generally on easily recyclable cardboard which, of course, benefits us all.



Engineering services from Jarshire

The Jarshire Limited engineering team was recently called out to support a mill experiencing excessive leakage on the stuffing box of a Solvo pulping unit. The initial scope of work, which was straightforward, was to replace the shaft sleeve which had been identified as being worn.

Jarshire’s engineering team always look beyond the immediate issue to ensure the long-term reliability of the equipment. During the inspection it was confirmed that there was significant wear on the shaft sleeve, validating the planned replacement. And further investigation by the company’s engineers also identified excessive play in the bearings on the hanging drive assembly, which posed a risk of further failure if left unaddressed.

Following discussions with the client, the decision was made to expand the scope of work to ensure the equipment could be returned to service in the best

possible condition. This proactive approach allowed the underlying issue to be resolved and helped prevent potential unplanned downtime in the future.

Nick Jobson, managing director of Jarshire said, **“Our focus is on delivering more than just the requested task. We deliver practical engineering solutions that keep mills running reliably. If your paper or tissue mill requires experienced mechanical engineering support, inspections or equipment rebuilds, our team is ready to assist.”**



▲ **The Jarshire engineering team consists of former tissue mill engineers with the required qualifications, specialist tools, lifting equipment, and a fully equipped workshop to carry out inspections, repairs, and rebuilds efficiently and safely**

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BPMSA at the UK Corrugated Industry Trade Show

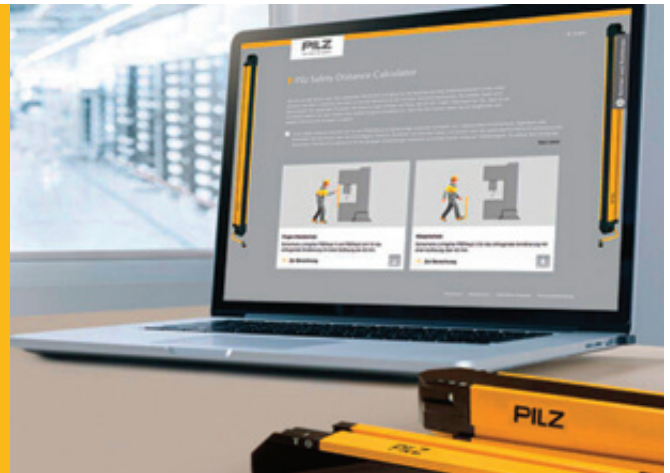
The Association will showcase its services at the 2026 UK Corrugated Industry Trade Show taking place at the Telford International Centre in Shropshire, West Midlands on Tuesday and Wednesday, 6th & 7th October 2026.

The BPMSA booth will be situated in the entrance foyer where visitors will be able to discover the wide range of services and technical expertise offered by members covering the papermaking process and the fibre-based supply chain.



Free safety distance calculator for light curtains

It's easy to determine the appropriate safety distance for safety light curtains using the free online Pilz safety distance calculator ▶



With the safety distance calculator, Pilz provides a free, browser-based software tool, making it much easier for users to calculate safety distances for safety light curtains. Calculations can now be carried out in accordance with the previous version of EN ISO 13855 as well as the revised EN ISO 13855:2024.

The international standard EN ISO 13855 forms the basis for the safe design of machinery. It defines how safeguards such as light curtains, laser scanners or guards must be positioned so that people are reliably protected. The focus is on the safety distance ... the distance required for machinery to

stop in time before a person is endangered. With the 2024 revision, the standards body responds to technical developments and practical experience gained in recent years. The key changes are new terms and definitions, adjusting the basis for calculating the safety distance and additional notes on the practical application. This gives design engineers, planners and inspectors a more precise and practical basis for standard-compliant implementation.

Benefits of the safety distance calculator

- Automatic calculation of the safety distance for all safety light

curtains on the market

- Suitable product recommendation from the ranges PSENOpt and PSENOpt II
- Saves time by shortening the search for the right light curtain
- Intuitive operation with extra information and graphic representation of the calculation
- Flexibility for applications in special purpose machine buildings and retrofitting

From safety level to the right product

The safety distance calculator helps users calculate applications with vertical protected fields (perpendicular approach) for finger,

hand and body protection. The tool suggests a suitable product, based on the calculations and the required safety level. Integrated info points provide in-depth explanations, while the graphic representation makes the calculation transparent and comprehensible.

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UK mill turns sanitary paper waste into animal bedding

A global hygiene and health company behind many household brands has launched a recycling partnership with a major waste company and a wood shavings business to transform toilet paper and paper towels into sustainable bedding for livestock in a UK first for the Lancashire, UK mill.

This is the first time in British manufacturing that hygiene paper waste has been repurposed in this way, giving paper products a new life on farms instead of ending up in landfill or incineration.

The major waste stream from two mills is turned into kiln-dried animal bedding products now widely used across the livestock sector, predominantly in the dairy and poultry industries.

British paper mills generate significant quantities of surplus non-hazardous solids. These fibres are discarded

during the pulping process and until now have been treated as a waste by-product. The material, known as paper crumb, created during the recovered fibre papermaking process, has now been awarded full product status, meaning it is officially recognised as a usable, marketable product rather than waste.

The initiative now operates exclusively between the Lancashire mill and the processing facility and



in almost two years around 20,700 tonnes have been processed and converted into bedding products.

High-intensity kiln drying reduces the moisture content to between 10-8% from an average of 45% in the paper crumb, creating a biosecure, absorbent bedding used mainly in poultry farming.

A spokesman for the mill said, "This is a big step forward and for the way the broader industry thinks about resources. None of this waste stream goes to landfill ... instead this process gives it a

useful second life. That means lower emissions and a smaller impact on the environment. It's a great example of how practical changes in processes can make a real difference, not just for the planet but for the local communities and industries."

At one broiler farm in North Yorkshire housing 260,000 poultry, the paper crumb bedding absorbs more moisture but releases it efficiently, making it easier to manage resulting in fewer top-up bales and savings in both time and money. Elsewhere, a Somerset farm with 180,000 chickens reported halving its use of top-up bales, removing the need for extra labour and improving bird welfare.

Application-driven technologies for better mill performance

Represented by Salvtech Limited, Aikawa Fiber Technologies (AFT) brings over 120 years of application expertise and deep process understanding to the pulp and paper industry.

represent world leader AFT in the UK market, bringing many advanced technologies closer to its customers with local expertise and high quality support.

AFT technologies are engineered to meet the unique requirements of each mill, ensuring seamless integration across a wide range of operating environments. From targeted upgrades to new installations, AFT technologies deliver measurable improvements in fibre quality, energy efficiency, and process stability ... from pulping to headbox.

Salvtech is very proud to



What's on around the world?

PAPER & TISSUE AFRICA	08-10 May 2026	Kampala, Uganda www.mxmexhibitions.com/paperTissueUganda/
LATAMPAPER 2026	13-14 May 2026	Buenos Aires, Argentina www.latampaper.com
PAPER EXPO CHINA 2026	13-15 May 2026	Guangzhou, China www.paperexpo.com.cn
PAPER & BIOECONOMY	20-21 May 2026	Graz, Austria www.paper-bioeconomy.com
PAPER & TISSUE SHOW	03-05 Jun 2026	Abu Dhabi, UAE www.paperoneshow.net
PAPER EURASIA 2026	10-12 Jun 2026	Istanbul, Turkey www.papereurasia.com
PAPER VIETNAM 2026	10-12 Jun 2026	Ho Chi Minh City, Vietnam www.paper-vietnam.com
ZELLCHEMING EXPO	16-18 Jun 2026	Wiesbaden, Germany www.zellcheming.de
PAPER & TISSUE AFRICA	20-22 Aug 2026	Nairobi, Kenya www.mxmexhibitions.com/paperTissueKenya/
TISSUE-ME CAIRO	15-17 Sep 2026	Cairo, Egypt www.tissueme.com
UK CORRUGATED INDUSTRY TRADE SHOW	06-07 Oct 2026	Telford, UK www.ukcorrugatedindustrytradeshow.com
INDIA PAPER EXPO 2026	14-16 Oct 2026	Mumbai, Maharashtra, India www.indiapaperexpo.com
PROPAPER DUBAI 26	20-22 Oct 2026	Dubai, UAE www.propaperdubai.com
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