BRITISH PAPER MACHINERY NEWS

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News and views from the
British Paper Machinery Suppliers Association

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The next issue of BPM News will be published in April 2027

Editorial Comment

UK government urged to extend papermaking support - The Confederation of Paper Industries - CPI (www.paper.org.uk) is pleased to see that the Government has recognised the energy cost crisis affecting British manufacturing, with support announced for the ceramics and chemicals sectors earlier this year but argued that the paper and board industry faces very similar pressures from high energy costs and international competition.

CEO Alex Veitch said, "The UK has a successful paper industry, providing high quality manufacturing jobs and enabling a sustainable, circular economy. Yet even in our sector we are also seeing several closures and pressure on sites to secure the investment required for long-term viability. In a highly competitive, global marketplace it is vital the Government widens eligibility rules to help secure UK paper production."

And Cepi is championing a bio-based carbon economy - The Confederation of European Paper Industries - Cepi (www.cepi.org) has highlighted how responsibly managed forests and circular value chains can support climate goals and industrial competitiveness, all at the same time. At the EU Green Week industry leaders and EU officials convened to discuss circular forest-based value chains including paper-based packaging which today is mainly made from recycled material. Key priorities emerged including effective carbon leakage protection, access to competitively priced fossil-free energy, secure sustainable biomass supplies and bio-based carbon capture solutions. These elements together are critical to strengthening competitiveness whilst also advancing climate neutrality.

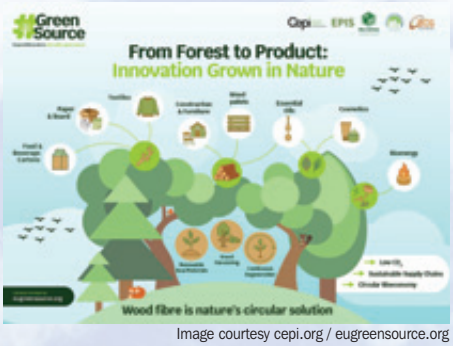


Image courtesy cepi.org / eugreensource.org

Jori Ringman, former Cepi Director General added that "Bio-based materials are not only good for the climate, but are also one of the few sectors with growth potential. The Emissions Trading System (ETS) should dovetail into the circular bioeconomy and the emerging bio-based carbon economy to fully tap into the benefits of a resilient, sustainable, competitive, and security-driven economic growth."

Rising demand hints at machinery growth - The increase in the use of packaging paper and tissue products coupled with automation, resource and energy-efficient paper mills, flexible multi-grade production and total versatility, which has become as important as throughput, is leading and accelerating modernisation across the industry. Maximize Market Research (www.maximizemarketresearch.com) has suggested that the paper making machinery market will grow by up to 5.1% by 2032.

Mills are being pushed to produce a variety of grades using less energy, less water and reduced unplanned downtime which, in turn means that automation becomes an operating requirement … in fact over 65% of machinery installed in 2024 incorporated smart automation and/or data driven systems which reduced downtime by as much as 20%.

And sustainability too has become a significant criterion in equipment selection with machines having to be compatible with such categories as recycled pulp use and closed-loop water systems, a direction which is likely to continue and contribute to a reduction of up to 30% of energy usage per ton of paper by 2030.

Naturally BPMSA member companies can help with all these demanding requirements which are key investment trends driving growth … cost, of course, is where government support really does become crucial to success!



Rod Lomax
Editor
British Paper Machinery News
rod@rodlomaxpublicity.com

Getting pump selection right in the paper mill

Why process understanding matters as much as pump selection - When a pumping system fails in a paper or board mill, the consequences extend far beyond the equipment itself. Downtime, maintenance callouts and production disruption are often traced back to unsuitable equipment. Yet selecting the right solution is frequently more complex than matching a flow rate and pressure requirement.

Paper and board mills present some of the most demanding pumping duties in industry. Fibre content, stock consistency, entrained air, solids, temperature and viscosity all influence performance, reliability and service life. For many applications, centrifugal pumps remain the preferred choice. Well suited to process water, white water and stock duties, modern pulp pump designs have expanded their capability into higher-consistency applications.



▲ *Progressive cavity pump model LM-X*

However, not every process behaves like water - As consistency increases or products become more viscous, pumping system demands change. Sludges, starches, coating colours, fillers and other solids-laden media quickly expose the limitations of an incorrectly selected design. This is where progressive cavity pumps excel. Their ability to handle difficult products while delivering a steady flow makes them a popular choice for a wide range of processes.



◀ *Degassing, self-priming horizontal centrifugal pump model LMS-SPR*

But technology selection is only part of the story - Reliability issues can often be traced to incorrect sizing or operating equipment away from its optimum duty point. A centrifugal pump running outside its preferred range may suffer increased wear, vibration and energy consumption. Likewise, a progressive cavity pump must be selected to suit the pressure, viscosity and solids content of the product being handled.

As mills continue to focus on reliability and efficiency, there is growing recognition that equipment selection should be based on the whole process, rather than simply replacing like-for-like installations. Modern selection software and application expertise help Salvtech engineers identify the most appropriate solution for each duty. Salvtech supplies centrifugal and progressive cavity pumps from Lotzer & Mühlenbruch and is therefore able to present a solution for all mill applications.

No single pumping technology is right for every application … the key is matching the technology to the process. After all, in a paper or board mill, the best pump is not necessarily the biggest or the most expensive. It's the one that operators never have to think about because it simply gets on with the job.

Salvtech Ltd
Martin Christmas
+44(0)1244 638900
+44(0)1244 638900
info@salvtech.com
www.salvtech.com



Investment in Lean skills targets areas for added value

Stuart Nixon of Secundum Ltd helped Turnbull & Scott focus on adding value to company capabilities

Continuous improvement at Turnbull & Scott (Engineers) Ltd began this year with a straightforward question: where in the business could capability and efficiency actually be built? Answering it was the work of Stuart Nixon of management consultancy Secundum Ltd.

Stuart used his formal Continuous Improvement skills and decades of senior operations management experience gained over more than 30 years in the paper industry. He worked with key Turnbull & Scott personnel to go through key departments drawing ideas out of the people doing the job, then mapped what came back, weighing reward against effort and urgency against importance.

The result was an initial Lean assessment of the business, and from it a shortlist of projects shaped for the company's Lean leaders to take on together. The Lean Assessment provided a baseline score to guide future decisions on where value could best be added to company capabilities and the shortlist delivered specific project targets with estimated payback to allow the business to choose where to focus immediately.

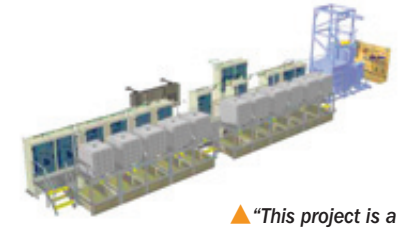
That shortlist is what made the training that followed worth doing. Quality and Engineering Manager Jodie, Manufacturing Manager Andrew and Supply Chain Manager Bradley went into the Scottish Manufacturing Advisory Service Business Improvement Academy already knowing the problem they wanted to solve and came out with the means to tackle it: root cause analysis, 5S, process mapping, TIMWOODS waste analysis and Kotter's change model, alongside leadership development, all applied to a live project drawn from the earlier work. That project is the control and consumption of stock part pieces, better known on the factory floor as offcuts.

The plan now targets a 25% reduction in the value and number of active stainless steel stock parts, and changes the process so offcuts are considered at design stage rather than after a job is won. Standard operating procedures and visual management follow, before the same method extends to the next largest stock groupings, and on into the rest of the business.

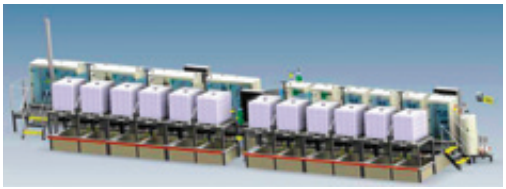
Secundum Limited (www.secundum.co.uk) is a management consultancy created by Stuart Nixon to help manufacturing businesses deliver real business improvement. Having been responsible for international paper manufacturing plants and full P&L performance, introducing lean and continuous improvement across multiple European paper sites, leading 350 to 400 people operations, and running a €100 million+ global business unit end to end, Stuart can operate at all levels in a business, combining hands on process knowledge with strategic clarity to drive change without disrupting the core business.

Turnbull & Scott (Engineers) Ltd
Peter Murphy
+44(0)1450 372053
+44(0)1450 377800
info@turnbull-scott.co.uk
www.turnbull-scott.co.uk

A long-standing partnership







"This project is a great example of how things should be done," said Kim Viitala, Production Manager, Metsä Tissue Mänttä mill

A Kemex chemical dosing installation at the Mänttä tissue mill in Finland has tightened process control, cut chemical waste and improved safety on the floor … and shows what the 20 year partnership between Kontram and Jarshire Ltd can offer mills in the UK and Ireland. This recent project at Metsä Tissue's Mänttä mill illustrates the kind of result the partnership is built to deliver.

Metsä Tissue is one of Europe's leading tissue producers and a global leader in greaseproof paper. Its Mänttä mill set out to achieve three things from a new chemical dosing system: safer handling of chemicals, better efficiency, and tighter control of the process itself.

Kontram was chosen as the supplier on the strength of its record in the paper and board sector, and of the Kemex system's accuracy and reliability. Kemex was already running at several other Metsä Group sites, but Mänttä was the first installation to use it this extensively for dosing retention chemicals, according to production manager Kim Viitala.

The installation went to plan, which Mr Viitala attributes to the groundwork rather than to luck. The system was configured around Mänttä's own chemical inventory and the safety standards that apply to it, and detailed site surveys and measurements were carried out before commissioning so that the equipment integrated cleanly with that already on site.

The operational gains showed up quickly -

Chemicals are now held in containment basins and locked cabinets, with automatic leak detection and alarms, which reduces the exposure of both people and the environment. Dosing is accurate to the millilitre, so product quality is more consistent and chemical consumption has come down. The mill now works from a centralised dosing area with optimised container changes, and the measurement data from the system is reliable enough to base consumption decisions on and monitor the process closely.

A model for other sites -

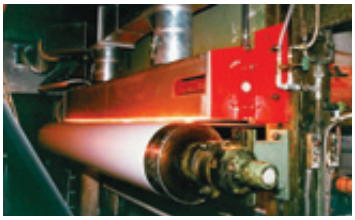
On the strength of the Mänttä result, the system should suit other mills in the group due to its precision, its patented technology and Kontram's willingness to customise a solution rather than supply a standard one.

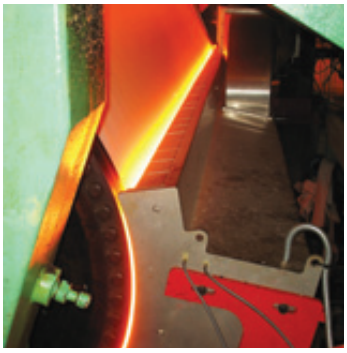
For UK mills weighing up the same three questions … chemical safety, efficiency and process control … the Mänttä project is a useful reference.

Jarshire Limited
Nick Jobson
+44(0)1753 825122
+44(0)7585 969101
sales@jarshire.co.uk
www.jarshire.co.uk

A significant milestone for Compact Engineering

This year, Compact Engineering Ltd celebrates a significant milestone in its life, its 40th birthday. It was back in 1986 when infrared dryers were in their infancy and shrouded in some bold claims and outrageous science when, in fact, most were not dryers at all, just not very efficient heaters. The company was established with the sole aim of improving the energy efficiency of electric infrared dryers and along the way has quashed many of the bold claims and tamed the science to deliver some remarkable improvements.





Compact's original Apollo infrared dryer from the 1980s (above) and a modern Corona dryer from the 2020s with front loading for easy maintenance and lamps offering a 15,000 hour guarantee

Today, Compact's dryers remove up to twice as much water for each kilowatt consumed as competing dryers. They switch on from cold to full operating temperature within 3 seconds and are controlled so that they deliver unity power factor and zero harmonics. More importantly on a paper machine, they cool from their maximum operating temperature of around 1,700°C to hand hot within two seconds. This is a vast improvement on some early dryers that suffered from high residual heat loads, frequently resulting in fires when the sheet broke.

Typical applications have included the drying of aqueous coatings on paper, including heat sensitive applications such as NCR where overheating would result in a black sheet, and CD moisture profile control. Profile control is fully automatic, taking data from the QCS scanner and calculating the power requirements to remove the wet peaks from the sheet, while the dry troughs in the profile are filled by speeding the machine up. This configuration optimises the entire dryer section and production increases of 10%+ are normal with payback of the capital investment typically well under 300 days, even on fluting.

Other uses of Compact's non-contact heat transfer include the manufacture of plastic flooring, increasing the output from pulp dryers by 10% for an increase in energy consumption of just 3kW/h/tonne and the drying of heat sensitive anti-rejection drugs on medical stents. In fact, the list is pretty long, and the range of applications makes for interesting reading.

At the heart of Compact's dryers are the lamps that are used to create the infrared at wavelengths best suited to both penetrating and being absorbed by the sheet.

Compact makes these lamps in-house and through a combination of material selection, care in the manufacturing process and thorough testing prior to despatch, offer a 15,000 hour guarantee, some three times longer than the industry standard.

Making its own lamps also allows Compact to be creative. The company's Corona dryer, for instance, is curved in the machine direction, so that it will sit comfortably over a drying cylinder and allows for the installation of 320kW per metre width of dryer per frame, which allows the dryers to remove around 115kg of water per metre per hour from the sheet.

Looking back over the last 40 years and the improvements that Compact has made to the operating and ownership costs of electric infrared dryers, it's fair to say that it has made good headway, though there are still improvements to be made … probably.

Compact Engineering Ltd
Tim Klemz
+44(0)1845 525356
+44(0)1845 525357
tim.klemz@compact.co.uk
www.compact.co.uk



The MYZEL Lifecycle Platform from Pilz is a software-as-a-service solution supporting production and safety managers throughout a machine lifecycle

Secure your access and entry points now says Pilz

Who's allowed to do what on which machine? This question is fundamental to a safety concept that covers both safety and industrial security. The functional safety of a machine must not be compromised by unauthorised access, malicious attacks or manipulation. This makes it more important than ever to have a holistic approach to machine access, the assignment of permissions and the associated management of staff and machinery.

Security measures are becoming mandatory for manufacturers and operators. The Machinery Regulation requires manufacturers to provide protection against accidental or intentional corruption and to ensure that checks are in place before a machine's parameters can be changed and recommends the introduction of 'effective authentication procedures' such as access cards.

Technically, these requirements can be implemented using an identification and access management (I.A.M.) system such as the one available from Pilz which clearly sets out which member of staff has permission for certain processes or operating modes on a machine. One of the hardware components used is the access permission system PITreader. The operator's permission and qualifications are stored on an RFID-enabled transponder and if the person has the necessary permission, they are granted access to the process.

Even with a small workforce, it's difficult to maintain an overview and in the event of an accident, the first thing that is checked is whether the employee has completed all the necessary training and received all safety briefings. This information can be stored in the MYZEL Lifecycle Platform from Pilz, a software-as-a-service solution supporting production and safety managers throughout the machine lifecycle. It digitises processes, reduces documentation workload and ensures safety, productivity and compliance are guaranteed at all times. And in the event of an incident occurring, thanks to Myzel it can quickly be demonstrated that all necessary documents are in place and accessible, and that staff have received relevant training … that's something that not only saves time but also improves safety for machine operators.

Pilz Automation Ltd
Kelly Cornwell
+44(0)1536 460766
+44(0)1536 460866
k.cornwell@pilz.co.uk
www.pilz.com

Four decades of collaboration

David Jobson of Reel Solutions Ltd has worked with Svecom PE for over 40 years. From his first visit to the manufacturing facility in Italy, the relationship developed from a business partnership into one built on trust, collaboration and friendship. Throughout this time numerous innovations have been introduced to the UK market, many of which have since become established standards within the industry.

One significant development came in the late 1980s with the introduction of Svecom PE's multi-bladder air shafts, manufactured from lightweight aluminium profiles. These replaced traditional single-bladder shafts made from heavier aluminium and steel tubes. The benefits were considerable as air shafts became light enough to be handled by a single operator, whilst offering improved concentricity and running accuracy. Maintenance was also transformed. Instead of heating journal ends and dismantling assemblies to access a failed bladder, routine maintenance could take place using little more than an Allen key and a pair of scissors. This simple, practical approach to maintenance remains fundamental to the company's engineering philosophy.



Customers are provided with spares, servicing and technical help throughout the working life of their equipment, simply and cost effectively

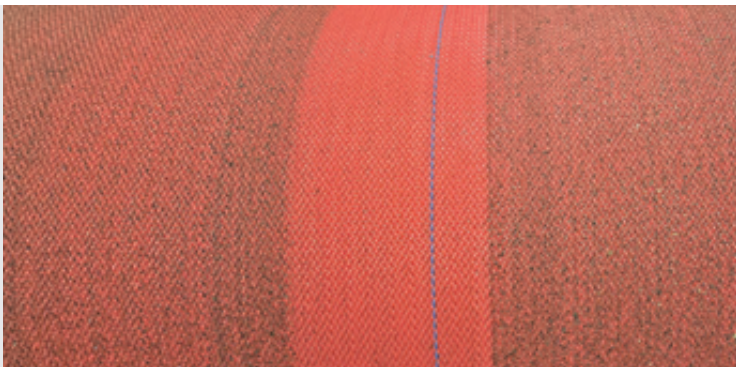
Being a pioneer in the development of multi-bladder shafts and reel spools incorporating independent internal valves meant that fail-safe solutions could be engineered for demanding, high-speed and heavy-duty applications. Today, these systems are found in slitting machines, coaters, paper winders and high-speed tissue machinery. Recently introduced monitoring technology now identifies maintenance or servicing requirements further improving reliability and reducing downtime.

Innovation continued with the development of air-expanding core plugs for rewinders and a system was supplied in the early days to a UK mill incorporating a nylon insert enabling the customer to rewind tissue reels using several different core diameters. These core plugs evolved into pneumatic expanding systems, providing an even greater expansion range and increased flexibility.

Whilst many of these innovations are now industry standards, the company's capabilities extend far beyond air shafts and core plugs with an extensive product range for most applications … but at the heart of every product is the same principle … robust engineering combined with simple maintenance and long-term serviceability. Both companies continue to provide proven engineering along with new technology … supplying reliable, maintainable solutions for the UK web processing industry.

Reel Solutions Limited
David Jobson
+44(0)1189 479501
+44(0)7411 303093
davidjobson@reelsolutionsltd.com
www.reelsolutionsltd.com

Dryer fabric cleaning from Kadant



Dryer fabric showing a section where the Kadant M10 head has cleaned it

The M-clean™ PRO contains a set of high-pressure vacuum pumps, evacuation equipment, and a PLC control system where a desired number of cleaning units are connected. The system effectively cleans both the surface and deep inside the fabric structure or roll cover and ensures all removed impurities are collected and discharged outside the machine.

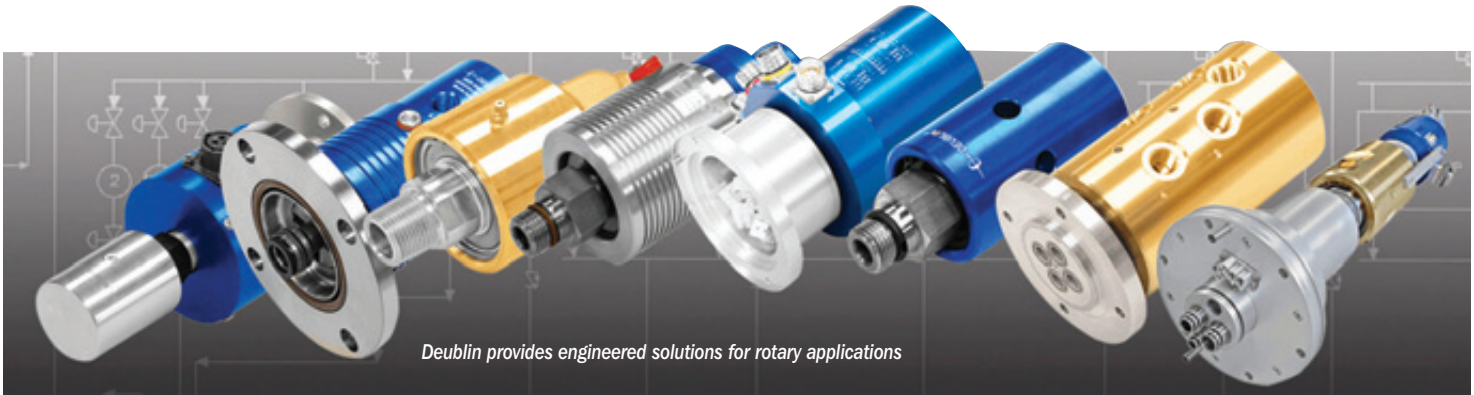
The M10™ cleaning head further enhances the well-established range of the M-clean system for dryer fabric cleaning equipment, the M10 head incorporating a unique 5D design nozzle assembly that delivers multidirectional cleaning for more effective removal of contaminants from dryer fabrics.

The M10 head has been developed to give:

- A perfect cleaning result even with the most demanding contaminated fabrics
- Maintained high air permeability levels throughout the life of the fabric
- Elimination of damp streaks in the paper sheet from dryer fabric cleaning
- Improved contaminants evacuation via the revised internal air flow path and more efficient air doctors providing a high dryness of the fabric being cleaned
- Enhanced housekeeping of the cleaning head via additional air nozzles
- Improved flexibility for service and maintenance
- Easy integration with existing M-clean™ PRO and MultiJet units
- Extended fabric life

The M10 head has been installed in demanding applications following successful trials in customer sites around Europe. In addition to these points the inside surface of the dryer fabric runs significantly cleaner with almost no contamination passing from the fabric to the support, guide and stretch rolls in the fabric loop. The M-clean PRO equipped with the M10 head is generally only required to operate once per shift to remove stickies from dryer fabrics and prevent sheet breaks … unlike our competitor's equipment which has to operate on a 24/7 basis.

Kadant UK Ltd
+44(0)161 764 9111
+44(0)161 797 1496
sales.bury@kadant.com
dcf.kadant.com



Deublin provides engineered solutions for rotary applications

High quality rotating unions from Deublin

Deublin Ltd is dedicated to producing high-quality rotating unions, focusing on reliability, service and repair. The company has evolved from a small business to a global leader, emphasising quality and customer satisfaction. Deublin employs advanced sealing technologies and precision CNC machining with high-quality materials to ensure long service life and reliability. Various seal technologies cater to different applications.

Rotating unions transfer media from a stationary source to a rotating device, essential for applications requiring coolant, air/oil mist, or hydraulic fluid transfer. The design includes a rotor, non-rotating element, housing, and mechanical seals for efficient operation. Rotating unions require careful installation and maintenance for maximum service life, ensuring efficient operation and reduced downtime. Proper installation of hoses and supply lines is crucial for extending their service life and correct positioning and adherence to guidelines prevents premature wear. Key steps include ensuring hoses are attached before connecting to the shaft, avoiding twisting, and ensuring pressure-tight connections. Deublin's rotating unions are ATEX certified for safety in explosive environments and hold AEO F certification, highlighting quality and security commitment.

A wide variety of rotating unions are manufactured and supplied for different applications and used in various industries, including paper, printing, plastics, wind power, coil winding etc, enhancing efficiency and reliability. The CK series of rotating unions are used extensively in paper mills and operate at high temperatures and pressures, offering maintenance-free operation with life-time lubrication.

Deublin offers comprehensive support including training courses, seminars, and workshops on rotating unions, covering installation, maintenance and support to maximise lifespan along with quick delivery and repair services to minimise downtime.

Founded in 1945, the company has grown by producing high-quality products, inviting customers to visit its manufacturing facilities worldwide, having a global presence with locations in 17 countries along with representation in 47 countries and ensuring a comprehensive sales and support service.

Deublin Limited
Lee Ramplin
+44(0)1264 333355
+44(0)1264 333304
lee.ramplin@deublin.com
www.deublin.com

Reel rebuilds are on the rise

In the months following the last edition of BPM News and Walmsleys article *'It's called the dry end for a reason,'* the response from mills across the UK and Europe has been revealing. What began as a discussion on overlooked maintenance and the use of water at the reel has since led to a series of detailed investigations and mechanical rebuilds being scheduled.

The common thread is clear, once corrosion, wear and misalignment take hold at the dry end, failures, downtime and quality issues soon follow. A number of mills have been in touch after recognising similar symptoms in their own equipment … worn bushes, deteriorated gear segments, corrosion, and component looseness, all resulting in poor jumbo build at the reel.

Walmsleys has carried out multiple site inspections, dimensional surveys and strip downs. This has resulted in replacement of hooks, bearing housings, gear quadrants and complete new primary arms. Quality and operation improvements have immediately followed.

The mill response highlights a growing recognition that the reel end occasionally needs more than a cursory inspection. Reliability depends on more than routine lubrication and replacing worn components can improve quality.

By tackling issues early and replacing worn parts with newly engineered assemblies, mills are seeing immediate improvements in reel stability, sheet handling, and overall reel performance.

With two major reel rebuilds pending and further inspections scheduled, it's clear that the conversation around dry end maintenance is changing. Walmsleys continues to support mills with inspection, engineering design, manufacturing, and rebuild services … ensuring that the reel operates as reliably as the rest of the machine.

Work in progress showing several newly manufactured items from castings to the finished machined gear, representing just a few of the components required to ensure reliable reel performance



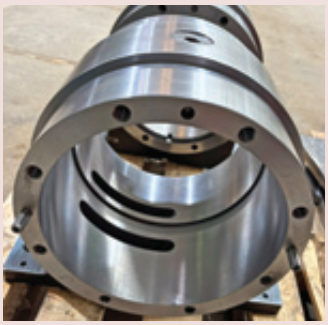
Gear quadrant castings



Machined gears



Primary arm hooks



Reel drum bearing housings



Bearing housings and covers

Walmsleys Limited
Craig Frankowski
+44(0)1254 830486
+44(0)1254 832181
sales@walmsleys-uk.com
www.walmsleys-uk.com

Future-proof automation

Networked machines exchange data and form part of complex systems. As a result, safety requirements are also becoming more stringent. It is essential that safety and security are considered together.

Current legislation in Europe - in particular the NIS 2 Directive, the Machinery Regulation and the Cyber Resilience Act - show that security is no longer optional but is now a mandatory requirement. In future, access to the European market for machine builders and the operation of plant and machinery within the EU will be subject to even more comprehensive, and in some cases new, requirements for the safety and security of machinery.

As an automation company with safety as its core competency, Pilz provides comprehensive support to customers when facing these challenges. Firstly, it is adapting its own products to meet the requirements of the new Machinery Regulation and Cyber Resilience Act.

Secondly, it supplies automation solutions that enable machine manufacturers and operators to guarantee the safety and security of their plants. That's because, in addition to its automation solutions for functional safety, it also offers a comprehensive range for industrial security.

Pilz has the necessary knowledge and experience in machinery safety, which it shares with its customers in the form of services and training. Last year, Pilz launched a multi-stage training programme for industrial security, and this year it introduced two modular specialist services worldwide … Security Evaluation of Machinery (SEM) and Security Assessment of Machinery (SAM). Through these services, it provides support with assessing security risks and identifying vulnerabilities in machinery. Finally, to ensure industrial security on machinery, it offers the Identification and Access Management (I.A.M.) system.



Safety and security were discussed extensively at the Pilz online press conference this summer hosted by Managing Partners, Susanne Kunschert and Thomas Pilz

The Pilz portfolio focuses on cloud-based and AI technologies, such as those used in the MYZEL Lifecycle Platform. This enables companies to manage machinery, processes and personnel data centrally and digitally throughout the entire lifecycle of the production facilities. The company is convinced that in future safety begins where safety and security go hand in hand … and that means more than just protection. It is the prerequisite for trust and progress.

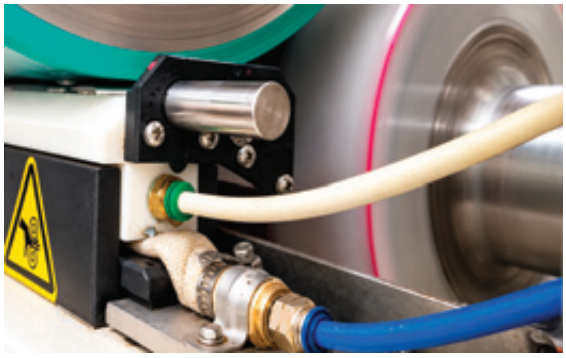
Pilz Automation Ltd
Kelly Cornwell
+44(0)1536 460766
+44(0)1536 460866
k.cornwell@pilz.co.uk
www.pilz.com

The rod coater is well placed for barrier coating

As corrugated packaging moves towards repulpable, PFAS-free barrier coatings, how the coating is applied matters as much as what is in it. Jarshire Ltd, UK and Ireland agent for Kohler Coating, looks at why the rod coater remains the benchmark after five decades. The chemistry of sustainable barrier coatings has had much attention in recent years, but less discussed is the application technology, which determines if a coating performs on the box as it does in the laboratory. TAPPI says the rod coater is the best available method for applying coatings uniformly and smoothly and the way the machine works explains why.

How it works - An air-loaded rod coater has an applicator roll, a rubber backing roll and an air-loaded rod holder. The web first meets the applicator roll, which lays down an excess of coating. An air bladder then presses the rod holder against the web, nipping it between the metering rod and the backing roll, and the surplus is removed precisely. The rod turns continuously, is self-cleaning and leaves the coated sheet free of streaks and scratches. Water flowing through the rod holder lubricates the cradle, stops coating drying on the rod and carries away heat making the result repeatable. Rod choice does the rest. Grooved rods meter starches, PVAs, functional coatings, inks and water, with groove depth and pitch controlling wetting, wear life and coating flow. Smooth rods work on viscosity, hydraulic force and rod pressure to level pigmented and functional coatings into an even film.

Where it scores - Functional coatings have an accuracy and consistency other methods struggle to match, across viscosities from water-thin to paste, and including dry-edge and strip coating. Motorised automatic edge deckles track the web and misters protect the backing roll from heat wherever coating has been deckled off. The result is consistency across the web and simple clean-up, and the absence of defects that appear when application is less controlled … uneven coat weight, slinging, roll contamination, excessive consumption, orange peel and pin-holing. For a converter, those defects are not cosmetic, they are waste, downtime and rejected board.



Kohler's rod coater applies any coat weight precisely, with typical uniformity of ±2%

Coating and moisture from one machine - Kohler Coating's HYCO rod coater takes the principle further with WaterDeck Adapt, which allows a single machine to switch between true coating and moisture management. In WaterDeck mode the rod meters a thin, uniform film of water 25 microns or less, either directly onto the web or onto the applicator roll. That gives independent, repeatable control of moisture and warp, rather than relying on the starch as the water source. For UK corrugators dual capability is important. Moisture and warp control is where lines lose productivity, and being able to address it with the same asset that applies barrier coatings changes the investment case considerably.

A technology suited to the moment - The water-based barrier coatings market is forecast to grow around 4.7% a year to 2030 and as converters and integrated mills take that opportunity, accuracy, versatility and low cost of ownership makes the rod coater the best platform to deliver it … not only for today's chemistries, but for those still to come.

Jarshire Limited
Nick Jobson
+44(0)1753 825122
+44(0)7585 969101
sales@jarshire.co.uk
www.jarshire.co.uk

Spreader and bowed roll expertise

Drawing on extensive experience gained across a wide range of industries and applications, Tecnomec 3, based in Italy, specialises in the manufacture, maintenance and servicing of spreader and bowed rolls. David Jobson of Reel Solutions Ltd said, "I have personally worked closely with the company for over 35 years providing solutions to common web-handling challenges, particularly where creasing, wrinkles or interleaving following slitting can affect production quality and efficiency".



Extend the life of existing equipment … 35 years of experience combines engineering, application knowledge and servicing capabilities to provide reliable spreader roller solutions for demanding web-processing applications

Spreader rolls are available in many configurations to suit different substrates, web widths and operating conditions. Options include fixed-bow rolls with variable incidence, variable-bow designs, and rolls manufactured with either rubber coverings or metal sectors. The company's G Series bowed rolls can be installed in a range of machinery and processes, including coating machines, cutters, pope reels, press sections, size presses and tissue machines. Depending on the application and operating environment, they can be supplied with specialised rubber coverings, including abrasion-resistant, anti-adhesive and high-temperature compounds, together with many specialised groove patterns.

For demanding paper and tissue applications, Tecnomec 3 rolls can incorporate additional protection and performance features, including sealing systems designed to prevent the ingress of water and dust, internal cooling for high-temperature and infrared applications, and continuous bearing lubrication.

An increasingly important part of the partnership between Reel Solutions and Tecnomec 3 is the maintenance, servicing and overhaul of large spreader rolls used within paper and tissue mills. Rolls do not need to be originally manufactured by Tecnomec 3 as those supplied with OEM machinery, as well as produced by other manufacturers, can be inspected, stripped, rebuilt and comprehensively tested before being returned to service … a practical alternative to replacement helping to extend equipment life while minimising disruption and capital expenditure.

Reel Solutions and Tecnomec 3 are presently handling the overhaul of a 380 mm diameter, 10 metre long spreader roller for a customer including fitting a new sleeve and bearings, comprehensive testing, heat monitoring and vibration analysis before being returned to operation.

Reel Solutions Limited
David Jobson
+44(0)1189 479501
+44(0)7411 303093
davidjobson@reelsolutionsltd.com
www.reelsolutionsltd.com

Graeme Tinlin returns to Turnbull & Scott



Graeme Tinlin, manufacturing manager at Turnbull & Scott

Turnbull & Scott (Engineers) Ltd appointed Graeme Tinlin as manufacturing manager, effective 1 October 2026. Graeme is a familiar face at the Hawick, Scotland works, having served his apprenticeship with the company before building his career elsewhere. He returns to strengthen welding, engineering and quality capability across the manufacturing operation.

His connection to the site goes back more than two decades. Graeme first joined on work experience in 2004, before starting his apprenticeship the following year through Edinburgh College. He completed it in 2010, qualifying as a fabricator welder, and went on to become a quality engineer and NDT (non-destructive testing) inspector in 2017. From 2020 he moved into education, teaching at UHI Perth and later at West Lothian College from 2024. He now brings that combination of shop floor, quality and teaching experience back to where his career began.

His main brief is the company's Future Factory strategy, which asks a question facing a good many UK manufacturers: how to build more, in this case more heat exchangers, within the same footprint. That work will shape how the Hawick site is laid out and equipped over the coming years.

The immediate task is more pressing. Turnbull & Scott is carrying a very full order book into the final quarter, and Graeme takes on responsibility for shipping it by year end.

Turnbull & Scott (Engineers) Ltd
Peter Murphy
+44(0)1450 372053
+44(0)1450 377800
info@turnbull-scott.co.uk
www.turnbull-scott.co.uk

New starters at Walmsleys



Walmsleys two new starters, David Houghton (left) and Charlie Knowles

David Houghton and Charlie Knowles have recently commenced work at Walmsleys Limited. David joins the engineering team, having begun his working career at Beloit and Sandusky Walmsley, completing his five-year technical apprenticeship before progressing to the drawing office, specialising in designing and detailing machine frameworks, felt rolls, paper dryers and reel drums. Over the next 20 years he carried out bespoke design for several major industries, including in the defence and nuclear sectors.

Returning to his roots in the industry, David joins Walmsleys as a mechanical design engineer. He is currently integrating into the design office and is excited to apply his knowledge of paper machinery and design expertise to upcoming projects.

Mark Porter, engineering director said, "David has been able to hit the ground running and has already completed a number of reel end design projects since starting in June. Recruiting someone who already has design knowledge of paper machines has been a real bonus for us."

Charlie joins the project team as a project engineer, is a recent graduate in mechanical engineering and has been working as a design engineer. The new role will see him utilise his design experience to ensure that every detail is considered in his projects.

David Williams, senior project manager said, "Charlie is a great addition to the project team. Design experience always helps in a project and having a young pair of eyes is going to bring a fresh perspective."

Both David and Charlie have completed their passport to safety courses, as well as other courses that have already enabled them to take an active role in site work.

Walmsleys Limited
Craig Frankowski
+44(0)1254 830486
+44(0)1254 832181
sales@walmsleys-uk.com
www.walmsleys-uk.com

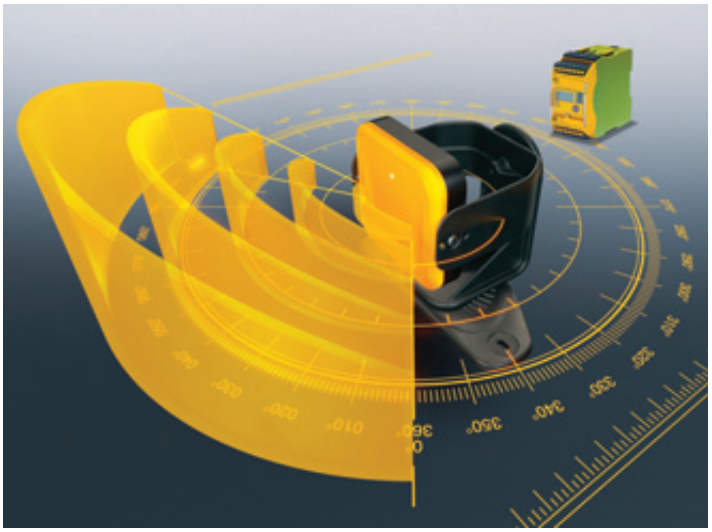
Safe radar systems provide efficient protection

Protective devices are the preferred solution for area guarding, enabling barrier-free access when intervention in a process is required, particularly when people require frequent access to the danger zone. Safe radar sensors provide non-contact protection and, unlike other sensor types, can monitor volumes. But when is this special type of sensor used and when is it an advantage to use it?

The general rule of thumb for using a safe radar system in automation is that radar technology is the right choice wherever optoelectronic sensors reach their environmental limits. Compared with optoelectronic sensor technologies, a radar sensor is not only able to tolerate rugged environments contaminated with dirt and dust, but is also an ideal protective measure in environments with extreme temperature fluctuations and weather conditions. Rain or extreme light, as well as flying sparks or vibration, present no problem to radar systems as they operate with electromagnetic waves in the two-digit gigahertz range and therefore react to movements. The use of radar technology should also be considered when it is necessary to go beyond area monitoring and to detect objects in a 3-dimensional space.

A radar sensor handles two safety-related functions at once … area guarding and rear access protection. The former guarantees that the machine is brought to a safe state when the danger zone is accessed. Rear access protection prevents the machine from restarting unintentionally when there is still somebody in the danger zone. A safe radar also detects micro-movements, and in the case of rear access protection the radar even detects a person's heartbeat. The radar is highly sensitive to barely perceptible movements, reliably recognising them.

In principle, area guarding of plant and machinery should be user-friendly. In practice, this means that devices for safe zone monitoring must be 'out of the way' and must be capable of being used in any industrial environment. Because robust radar technology measures three-dimensional spaces, users can also mount the sensors on the wall or ceiling. Flexible, integrated radar technology is ultimately a guarantee that the safety of a monitored zone is reliably ensured - as is its productivity.



A system's actual protection zone depends on the positioning, installation height and inclination of the sensors. The safe radar system PSENradar from Pilz can monitor an area or zone of different sizes, depending on the radar type selected

Pilz Automation Ltd
Kelly Cornwell
+44(0)1536 460766
+44(0)1536 460866
k.cornwell@pilz.co.uk
www.pilz.com

Drop in replacements for obsolete force measuring blocks

When upgrading existing plants, it makes sense to re-use as many components as possible. But if some components are no longer produced and spare parts are not available, you have to search for alternatives. This was the case at the Visy Wastepaper & Waste Management site located in Melbourne, Australia.

Planned upgrade - The actual line had been in operation for over 20 years with regular maintenance and service. However, the key components for web tension monitoring had previously remained untouched. Due to the planned increase in production speed, a review of the machine design was carried out to ensure that all components would meet the desired demands. At this point it became clear that the Philips original tension monitoring equipment no longer existed, and an adequate alternative would have be found.



Force Measuring Systems (FMS) quality products for the pulp and paper industry are available in the UK from Reel Solutions Ltd

Data collection - The main goal of the Visy engineers was to find a suitable replacement for the force measuring blocks whilst having to make the smallest possible modifications to the machine and the PLC. The Force Measuring Systems FMS UMGZP-series block fitted the bill precisely and was the perfect drop-in replacement for the former Philips 9951 block with identical dimensions and even better performance.

Quick project realisation - After a final check of the resonance frequency, the sizing was confirmed and the order placed. The supplier (CGB Precision Products) proposed the use of a dual channel measuring amplifier which would allow the operator to monitor the tension on each side of the web independently, giving a better insight into the production results, possible faults and adequate counter measures in an early stage of the production process.

Installation and start-up on-site were supervised by the project manager from CGB and following calibration the machine was back in operation after only a few hours of downtime.

Reel Solutions Limited
David Jobson
+44(0)1189 479501
+44(0)7411 303093
davidjobson@reelsolutionsltd.com
www.reelsolutionsltd.com

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The Kadant PT2X rotary joint can play a critical role in the dryer section

Rotary joint requirements in paper production

Papermaking is fundamentally a water removal process. In the forming section, gravity and vacuum systems drain free water from the pulp slurry. The press section then applies mechanical force to remove additional water before the sheet enters the dryer section, where steam heated cylinders evaporate the remaining moisture. Because drying requires significant energy and capital equipment, reducing sheet moisture before this stage is essential to efficient production.

> “. . . drying requires significant energy and capital equipment, reducing sheet moisture before this stage is essential to efficient production.”

Rotary joints, including Kadant’s PT2X™, play a critical role in the dryer section. Each steam heated drying cylinder is typically fitted with a rotary joint and syphon. The rotary joint connects stationary piping to the rotating cylinder, allowing steam to enter while condensate is discharged through the internal syphon. Effective heat transfer depends largely on the design and operation of the rotary joint, syphon and dryer bars.

Operating steam pressures vary according to the paper grade and machine requirements, from heavy board to lightweight tissue, graphic papers, newsprint, and packaging grades. Developed and validated through extensive research and testing, Kadant rotary joints deliver reliable performance and extended service life across a wide range of papermaking applications.

Rotary joints are also used in other paper machine applications, including water cooled rolls in press and size press positions. Heat generated by nip pressure, combined with starch temperature, can affect the soft roll cover. Cooling water is circulated through the centre of the roll to remove heat from the metal shell and help control the temperature of the rubber cover.

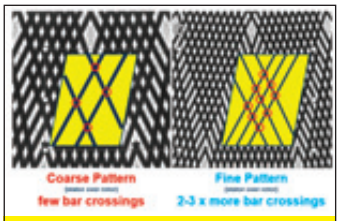
In soft nip calender applications, rotary joints transfer hot water or thermal oil to the calender rolls. Maintaining a consistent roll surface temperature supports uniform finishing and helps achieve the required gloss, matte or smooth surface on the paper web.

Kadant UK Ltd
+44(0)161 764 9111
+44(0)161 797 1496
sales.bury@kadant.com
fluidhandling.kadant.com

Better fibre development ... lower total cost of ownership

In today's pulp and paper industry, mills are under pressure to improve product quality while reducing energy consumption, maintenance and downtime. Investment decisions are increasingly based on total cost of ownership (TCO) rather than purchase price alone. For low-consistency refining, the cost of refiner plates represents only a small portion of overall refining costs. Factors such as energy use, equipment availability, maintenance and paper quality have a far greater impact on mill profitability.

For nearly 30 years, AFT Finebar® technology has helped mills improve refining performance through three key principles: better fibre development, mill-tailored plate design and extended plate life. Finebar® technology promotes a high number of bar crossings resulting in lower specific edge load (SEL), allowing refining energy to be distributed more evenly across fibres. Rather than cutting fibres, the process encourages gentle external fibrillation, improving fibre flexibility and bonding potential while preserving fibre length. The result is improved paper strength, bulk and drainage, often with lower energy and reduced chemical use.



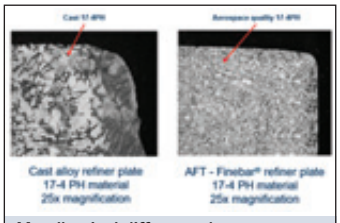
Impact of pattern design on number of bar crossings

Recognising that every refining application is different, AFT engineers design Finebar® plates to suit each mills furnish, production targets and operating conditions. By optimising plate geometry, hydraulic capacity and refining intensity, mills can achieve more efficient fibre development and improved overall process performance.



Impact of pattern on hydraulic capacity

Durability is equally important. Finebar® plates are manufactured using precision laser-cut stainless-steel components joined through diffusion bonding technology, providing excellent wear resistance and maintaining refining performance throughout their operating life. For abrasive applications, AFT's EdgeGuard™ technology offers additional protection, helping extend plate life and reduce maintenance.



Metallurgical difference between casting vs fabrication impacts wear resistance and leading-edge rounding

The benefits of this approach have been demonstrated across a wide range of applications, including chemical pulps, OCC, DIP, NSSC, mechanical pulps and non-wood fibres. Mills have reported lower refining energy consumption, longer plate life, reduced maintenance costs, increased production capacity and improved paper properties. In one OCC application, plate life was more than doubled while no-load power consumption was reduced by 23%, saving approximately 400,000 kWh annually.

By combining advanced refining technology with application expertise and process support, AFT helps mills optimise fibre development, improve operating efficiency and reduce long-term costs. The true value of refining is measured not by the cost of the plate, but by the value created throughout the mill.

Salvtech Ltd
Martin Christmas
+44(0)1244 638900
+44(0)1244 638900
info@salvtech.com
www.salvtech.com

Jarshire ... the first Svecom agency outside its home market

When Svecom-P.E. appointed Jarshire Ltd as its sole agent across the paper and tissue mill and tissue converting markets in the UK and Ireland back in 1980, it was the first agency the Italian manufacturer had granted anywhere outside its home market. Now, four and a half decades later this arrangement still stands. For mills and converters this means a single point of contact for the company's shafts, chucks and web handling equipment ... from specification and application advice through to spare parts.

Over the years that relationship has moved well beyond simple distribution. Jarshire engineers work directly with Svecom on application questions, specification and retrofits, and the two companies have between them built up a vast record of what is installed across UK mills, in many cases going back to the original machine build.

Jarshire holds all Svecom spare parts in stock ... a deliberate commercial decision rather than a by-product of buying well, and two recent cases illustrate why it matters. In both instances two UK tissue mills needed replacement parts the same day. In each case the alternative to same-day supply was a mill standing idle. The parts were on the shelf, and both mills kept running. For a tissue or paper mill, the cost of unplanned downtime dwarfs the cost of the component that caused it. A shaft or chuck component on a European lead time is, in practice, no help at all to a mill that is down now. Jarshire says that a spare part is only genuinely available if it can be in the customer's hands the same or the next day.

That thinking drove the move in 2022 to new premises in Oxfordshire, UK, chosen specifically for a substantially larger warehouse. The site also has a showroom, and customers are welcome to visit, see the Svecom range in person and discuss applications with the engineering team.

Jarshire supplies the full Svecom product range to paper and tissue mills and the tissue converting sector, including expanding shafts, safety chucks, core chucks and associated reel handling and web equipment. Among the models most in demand at present are the 640 POPE shaft and the 714 MZL and 700 NEC chucks, a number of which are scheduled for delivery to customers in the UK and Ireland over the coming months, reflecting a clear pick-up in mill investment and in the replacement of ageing equipment.

Jarshire Limited
Nick Jobson
+44(0)1753 825122
+44(0)7585 969101
sales@jarshire.co.uk
www.jarshire.co.uk

Shell and tube heat exchanger design expanded for paper mills



Tube bundle in Turnbull & Scott shell and tube heat exchanger

Turnbull & Scott (Engineers) Ltd has extended its shell and tube heat exchanger design and manufacture for the paper industry, covering site assessment, thermal design, material selection and fabrication.

The capability was developed through recent shell and tube repair work at a Scottish paper mill. Taking a unit through survey, design, manufacture and return to service put each step under scrutiny, and those steps have since been documented so they can be repeated.

Units are designed to the duty. Tube count, pass arrangement, baffle spacing and material are set against the flow rates of the plant, temperatures and fouling conditions, and a shell can be built to an existing footprint where a replacement has to meet existing pipework.

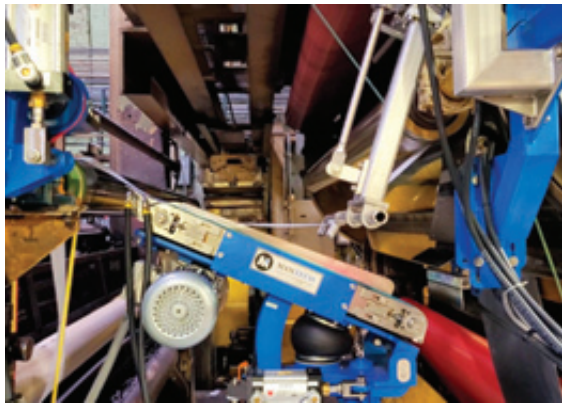
Where a shell remains sound, retubing can return a unit to service within a shutdown window and at lower cost than a new unit. Where corrosion is more advanced, a replacement can be designed around current operating conditions rather than the original specification. Units are delivered to site for installation by the mill's own team or contractor.

Typical mill applications include steam and condensate systems, process and white water heating, stock and pulp heating, seal water and lube oil cooling, boiler feedwater, and heat recovery from dryer condensate and warm effluent.

Turnbull & Scott (Engineers) Ltd
Peter Murphy
+44(0)1450 372053
+44(0)1450 377800
info@turnbull-scott.co.uk
www.turnbull-scott.co.uk

Reel Solutions expands its product range





Mantech automated tail threading systems are available in the UK from Reel Solutions.
The Canadian company was chosen as the primary threading equipment supplier for the Making Paper Safely programme under UK HSE HSG279 guidelines.



Re-entering the UK market in an arrangement with Reel Solutions Ltd, Mantech Enterprises Inc from British Columbia, Canada, supplies automated tail threading systems from its Advanced Paper Systems (APS) division to the pulp & paper industry, and also provides a custom CNC machining and fabrication service for various demanding sectors. The company is certified to ISO 9001:2015 and AS9100D, and every APS system is designed, machined, fabricated, wired and tested in-house before delivery.

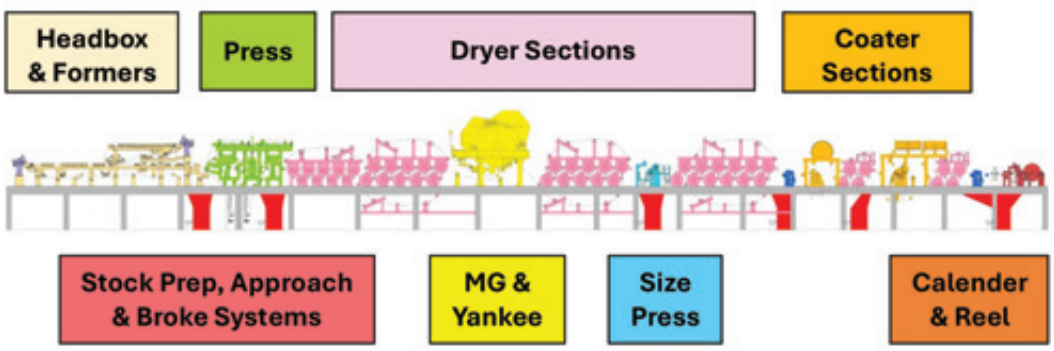
For more than 30 years, automated tail threading has been the company's core business with APS equipment operating on more than 450 installations at over 100 mills in 21 countries across six continents. Systems operate on machines from every major OEM and across all grades and speeds, from high speed lightweight and tissue through to heavy board and market pulp. They are configured to each mill's layout and operating conditions rather than adapted from a standard package, and customers deal directly with the engineer who designed their system. Products supplied into the EU and UK carry CE marking.

APS equipment is built to take the operator out of the danger zone around ropes, pulleys, rolls and cutting areas, shorten thread times and make every thread the same as the last. And its products cover the complete threading sequence, carrying the leading edge of the paper tail across a transfer point in the machine, replacing the old method of hand-threading a rope through the section. They control the tail, cut it, transfer it and widen it out to full sheet width and are supplied standalone or combined into a fully automatic hands free system.

Other products from Mantech include continuous vacuum conveyors, air foil threaders, calender threaders, tail cutters, tail and sheet breakers, rope diverters, automated mechanical hands and system controls.

Reel Solutions Limited
David Jobson
+44(0)1189 479501
+44(0)7411 303093
davidjobson@reelsolutionsltd.com
www.reelsolutionsltd.com

Paper machine engineering from headbox to reel



Walmsleys Ltd is a global specialist in paper machine engineering, from headbox to reel and everything in between. All staff are experienced in designing, building, operating and maintaining paper machinery, the company drawing from a long history of its people working in the paper industry … as machine designers, as site specialists and as mill engineers. In fact, it has the experience you need on every part of the machine … if you've got it, Walmsleys supports it.

Some of the services provided include:

- New machine design and build
- Machine rebuilds
- Design engineering, CAD & 3D modelling
- Yankee services
- Service and repairs
- Project management
- Spare parts supply
- Corrosion inspections
- Finite Element Analysis (FEA) modelling
- Process planning and modifications

Mills choose Walmsleys for its machine knowledge and experience. It understands your paper machine and its systems. It knows what can go wrong, why processes can be inefficient, and it knows how to put things right. It provides a UK-based engineering service that is both practical and mill-focused, bringing global insights and engineering knowledge to your mill.

Walmsleys Limited
Craig Frankowski
+44(0)1254 830486
+44(0)1254 832181
sales@walmsleys-uk.com
www.walmsleys-uk.com

Iain Bullock succeeds Bettine Pellant as CEO of Picon



Iain Bullock took over from Bettine Pellant as Picon CEO from 1 October 2026

Former managing director of Renz (UK) Iain Bullock succeeded Bettine Pellant as chief executive of Picon on 1 October 2026. Identified as a potential candidate earlier following Ms Pellant's decision to step aside, the Picon Council moved quickly to confirm the appointment.

Iain began his career in textiles before joining Renz (UK) in 1994 and started by selling wire binding equipment and consumables to the finishing industry, later becoming sales manager in 2001 and managing director in 2004. Well known within the industry, he is approachable and understands the challenges facing the graphics, paper and associated businesses, particularly SMEs. He has represented Renz (UK) since the company became a Picon member in 1997 and has been on the Council since 2001.

Bettine joined Picon in 2007 to organise its involvement at drupa 2008 and became chief executive on 1 January 2015. During her tenure, she has been heavily involved in the expansion of member benefits following the sale of Ipex in 2006, including additional training grants, an internship scheme and the Business Forum. "I still hope to take on project work within the industry but if I had one last wish as Picon CEO it would be to be remembered as the organisation's friendly face!" she said.

Paying tribute to Bettine's leadership, Iain said, "I have known Bettine for nearly 20 years. During this time, at Picon events and industry functions, I have only ever heard complimentary comments about her. She is respected, liked and admired by all and has led the organisation with the highest degree of professionalism." He continued, "Picon is predominantly a high-level networking organisation, bringing members together through focus groups, webinars and social events. Graphics, paper and associated businesses have undergone rapid and significant change and my ambition is to help Picon and its members proactively drive change rather than simply reacting to it."

Bettine is a keen gardener and following the BPMSA autumn 2026 executive committee meeting, she was presented with several gardening related gifts from Association members including a personally engraved stainless steel trowel.



BPMSA Chairman, David Carrington presents Bettine with the engraved trowel



David Stone has joined Jarshire Limited

New business development manager

Jarshire Ltd is delighted to announce the appointment of David Stone as its business development manager. David joined the company in April this year and has brought along over 35 years of experience in the papermaking and web converting industry. His career includes roles with Black Clawson Ltd, Paper Converting Machine Company, and Cameron and Elite Cameron in the UK.

He has extensive expertise across board, tissue, and papermaking processes, from pulp preparation through to rewinding and sheeting, along with both on- and off-machine coating. David is also knowledgeable in slitting and rewinding a wide range of materials, including board, tissue, paper, film and non-wovens.

Nick Jobson, managing director of Jarshire, said, "We're very pleased to welcome David to the team and look forward to the experience and insight he brings to our continued growth".

Jarshire Limited
Nick Jobson
+44(0)1753 825122
+44(0)7585 969101
sales@jarshire.co.uk
www.jarshire.co.uk

Did you know?



Work continues at this internationally significant industrial heritage site





Historic Frogmore Paper Mill gains National Lottery Heritage Funding - In June this year at a critical moment in the site's recovery following the devastating fire back in 2022, the National Lottery Heritage Fund awarded Frogmore almost a quarter of a million pounds to help protect key buildings that are currently at risk of irreversible damage from water ingress, deteriorating roofs and structural movement. The project will create a stronger foundation for Frogmore's long-term redevelopment plans including expanded visitor facilities, new exhibition galleries and enhanced learning spaces.

The mill is located in Hertfordshire, UK and is widely recognised as the birthplace of mechanised papermaking in 1803. The funding is a major step to securing the future of the mill and ensuring its stories, skills, collections and machinery remain accessible to the public. It remains open to visitors during the works wherever safely possible and it is likely that other areas of the site will reopen to the public later this year. Further information is available at www.frogmorepapermill.org.uk

Action taken - The European Commission has taken action against several Member States that have failed to notify the Commission on measures they have adopted to include EU-wide green claims and sustainability label legislation into national law. The Directive is designed to ensure transparency and reliability for on-pack green claims or sustainability labels … avoiding the use of obsolete symbols or 'greenwashing' attempts. It is also intended to provide consumers with clear information about a product's durability and repairability as well as legal rights.

Member States should have added the Directive into their national law by 27 March 2026, in preparation for the rules to apply from 27 September 2026. But in June the countries in question had not informed the Commission of the steps they had taken. Each Member State had two months to respond and notify the Commission of the measures taken. If they don't, the Commission could issue a reasoned opinion and possibly the case being referred to the EU Court of Justice.

Whilst the Directive was temporarily paused in 2025, regulations still apply and ban generic, unsubstantiated claims such as 'eco-friendly' or 'green', unverified sustainability labels and claims of 'carbon neutrality' based purely on carbon offsets.



New managing director at Two Sides



Josh Birch (far left) takes over from Jonathan Tame as MD of Two Sides on 1 January 2027

Josh Birch will take over from Jonathan Tame as managing director of paper and print campaigning group Two Sides (www.twosides.info) from 1 January 2027.

Mr Birch takes over the role after working for Two Sides for more than six years, most recently as marketing & campaign manager and has been central to the organisation's communications, research, member engagement and campaigns.

During Mr Tame's tenure Two Sides has developed into a globally recognised initiative promoting the sustainable aspects of paper, print, and paper-based packaging with activities across Europe and North and South America.

Chair of Two Sides, Martyn Eustace said, "I'm delighted that Josh has accepted this new role and that he will lead the next phase of Two Sides' development, including the launch of its new multilingual European digital platform, an enhanced membership proposition, and continued expansion into markets where local activity has previously been limited."

Two Sides has assured members that it will remain focused on promoting the attractiveness and sustainability of paper and print with trusted research, effective communications, and greater value for the wider industry.



Tim Klemz (right) takes over the chairmanship of Picon from Stuart Murphy

BPMSA committee member becomes Picon chairman

Tim Klemz, managing director of Compact Engineering Ltd, has been appointed Picon Chairman, the position being ratified at the Picon AGM on 26 June 2026. He is only the second member of the British Paper Machinery Suppliers Association (BPMSA), a division of Picon, to hold the position. The previous was Michael Southworth 30 years ago.

Bettine Pellant, former Picon CEO, said, "Tim will bring new thinking to the role of Picon chairman. He is smart, committed and knows his own mind. His company, founded by his father David, produces energy efficient infrared drying solutions for the pulp and paper industry so his environmental knowledge and European business experience will be a great asset."

Tim has been instrumental in raising the profile of the BPMSA which exhibited recently at the UK Corrugated Industry Trade Show in Telford, UK. He has been a member of the Picon Council since 2009 and succeeds Stuart Murphy, managing director of Rollem Patent Products Ltd, who he says has 'maintained a steady course in turbulent times'.

Commenting on the appointment Tim said, "Membership of Picon has given me and my company some great friendships, top advice and the benefit of a well-educated and wise Picon council."

A commitment by Salvtech to many industries

At the Environmental Services & Solutions Expo (ESS Expo 2026), held this September at the NEC Birmingham, UK, Salvtech Ltd demonstrated its commitment to supporting the water, wastewater, recycling, energy-from-waste, paper and process industries with reliable pumping, screening and air movement solutions.



Salvtech's stand at ESS Expo 2026 was built entirely in-house

A standout feature of the exhibition was the company's bespoke stand, designed and built entirely in-house by the Salvtech team, showcasing its practical engineering expertise and hands-on approach.

Throughout the event, visitors met with company specialists to discuss reliability improvements, maintenance strategies, equipment upgrades, and replacement opportunities aimed at reducing downtime and improving plant performance.

The stand featured solutions from leading manufacturing partners, including Lotzer & Mühlenbruch (L&M) pumps, Pollrich industrial fans, and AFT's world-renowned screening technology, which is now being introduced to a broader range of industries through Salvtech.

The exhibition provided an excellent opportunity to strengthen relationships with existing customers, develop new connections, and demonstrate how Salvtech and its partners continue to deliver dependable engineering solutions for some of the UK's most demanding industrial applications.

Salvtech Ltd
Martin Christmas
+44(0)1244 638900
+44(0)1244 638900
info@salvtech.com
www.salvtech.com



BPMSA group at the Picon annual dinner this summer

A truly memorable evening

Picon's annual dinner this June offered 146 guests a real musical treat at the world-famous venue of Abbey Road Studios in north London.

The evening started with drinks in Studio 2, where the Beatles recorded nearly all their landmark songs from 1962 - 1970. Dinner followed in Studio 1 where many major film scores have been recorded including Skyfall, Raiders of the Lost Ark and all the Harry Potter films. Guests were entertained with a fascinating presentation 'Stories from the Studios' which included archive footage of past recording artists and live music.

What's on around the world?

PAPER & TISSUE SHOW	11-12 Nov 2026	London, UK www.london.paperoneshow.net
PAPER-ME 2026	16-18 Nov 2026	Jeddah, Saudi Arabia www.paperme-saudi.com
PAPER ARABIA 2026	16-18 Nov 2026	Dubai, UAE www.paperarabia.com
TISSUE WORLD ISTANBUL	18-19 Nov 2026	Istanbul, Turkey www.tissueworld.com/istanbul
PULPFOR EXPO	24-26 Nov 2026	St Petersburg, Russia www.en.pulpfor.ru
PAPEREX SOUTH INDIA	03-05 Dec 2026	Chennai, India www.southindia.paperex.in
PAPER & TISSUE AFRICA	27-29 Jan 2027	Dar es Salaam, Tanzania www.mxmexhibitions.com
ICE EUROPE 2027	09-11 Mar 2027	Munich, Germany www.ice-x.com
PAPER & TISSUE SHOW	16-18 Mar 2027	Abu Dhabi, UAE www.paperoneshow.net
TISSUE WORLD LISBON	07-09 Apr 2027	Lisbon, Portugal www.tissueworld.com/lisbon
PAPER EXPO CHINA	13-15 May 2027	Guangzhou, China www.paperexpo.com.cn

bpmsa Membership directory

Compact Engineering Ltd
Tel: +44(0)1845 525356
www.compact.co.uk

Deublin Ltd
Tel: +44(0)1264 333355
www.deublin.com

E+L (Erhardt + Leimer) Ltd
Tel: +44(0)3333 200773
www.erhardt-leimer.com

Jarshire Ltd
Tel: +44(0)1753 825122
www.jarshire.co.uk

Kadant UK Ltd
Tel: +44(0)161 764 9111
www.kadant.com

Pilz Automation Ltd
Tel: +44(0)1536 460766
www.pilz.com

Reel Solutions Ltd
Tel: +44(0)1189 479501
www.reelsolutionsltd.com

Salvtech Ltd
Tel: +44(0)1244 638900
www.salvtech.com

TS Converting Equipment Ltd
Tel: +44(0)1823 283411
www.elitecameron.com

Turnbull & Scott (Engineers) Ltd
Tel: +44(0)1450 372053
www.turnbull-scott.co.uk

Walmsleys Ltd
Tel: +44(0)1254 830486
www.walmsleys-uk.com

BRITISH PAPER MACHINERY NEWS

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Tel: +44(0)1438 832742 **Web:** www.picon.com/bpmsa

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Thank you
Rod Lomax, Editor - BPM News

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