

BRITISH PAPER MACHINERY NEWS

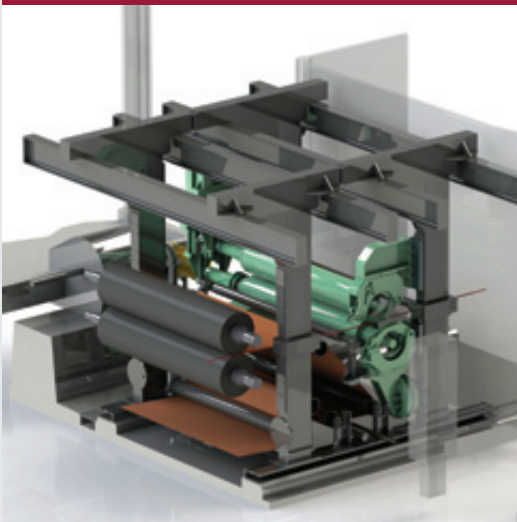
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News and views from the
British Paper Machinery Suppliers Association

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Walmsleys resourcefulness
and engineering expertise
boosts mill efficiency
read about it on page 9



Reel Solutions offers a full range
of wet end equipment ensuring
accurate and efficient operation
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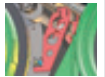


Poole Projects provides a fully
independent design, manufacture
and installation service
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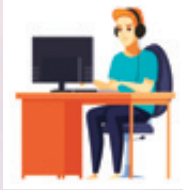
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Editorial Comment

Is paperless becoming unappealing? - for many the paperless office was going to become the latest 'big thing', but now it seems that this isn't always the case. In fact, the view that the younger generation see paper and print as old fashioned is not necessarily true as most will use both paper and digital as appropriate for the task being undertaken. And they believe that there are specific tasks where paper and pen really do have the upper hand.



Many too it seems have a desire to return to the days before we were constantly online and yearn for simpler times. And amazingly this is happening amongst the younger generation with around 70% saying they would like to 'disconnect'. Clearly this group has grown away from the likes of online chats and fake news.

This survey shows that print and paper is definitely not dead and that there is a clear surge in the use of paper based products such as magazines, stationery, cards, diaries, calendars etc., let alone

the intensive growth in packaging products. And studies have shown that there is a lot more thought put into writing a response in ink on paper as against keying a quick email or text message meaning that the former is likely to appear more meaningful.

Magazines back in print - and backing this up is the fact that a number of iconic magazines, catalogues and local newspapers have revived their print editions to extend their reach to a wider audience. Our colleagues at Two Sides (www.twosides.info) said that Elle Magazine, last printed more than four years ago, has returned to print in Australia with the publisher stating that there is an enduring brand strength in a printed magazine during tough economic times along with adverse consumer reaction to the 'digital deluge'.



Also legendary music publication NME Magazine has returned to print after halting its printed version five years ago in favour of an online-only approach. The publisher said that print had

always been a cornerstone of its brand and it was pleased to announce its return.

Local newspapers too have been quick to adopt this approach. The Barnet Post returned to print last December having gone online only in March 2022. The publishers found that a digital-only approach limited its readership and impact so had taken the decision to print and distribute 15,000 free copies each month via supermarkets and community venues across the borough.

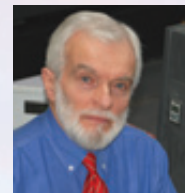
And Amazon is creating more paper based solutions - the shopping giant is replacing single-use plastic delivery bags and air pillows with 100% recyclable paper and cardboard packaging ... in fact since it started doing this the business has avoided using more than 1 billion single-use plastic delivery bags across Europe meaning that more paper based packaging can be easily recycled by the consumer.

Paper vs electronic - whilst all the above is good news for our industry there are still many misconceptions around the sustainability of both paper and



electronic communications. "Paper and print products are among the lowest greenhouse gas emitters at 0.8%, whereas the ICT industry accounts for more than 2% of global greenhouse gas emissions," said Jonathan Tame from Two Sides. "Many consumers massively underestimate the paper recycling rate and do not understand the sustainable nature of paper products."

Let's all shout it loud and clear ... paper and paper products are sustainable!



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

Tissue machine DAF upgrade

Poole Projects has completed a DAF upgrade at a UK tissue mill



Poole Projects Limited, the Manchester based independent consultant engineering company, has recently completed a DAF upgrade at a tissue mill in the UK. The installation is to reduce freshwater consumption on the machine by integrating a disused DAF unit, already in position, into the existing tissue machine water system to work in parallel with the existing DAF system. This would increase the water treatment capacity, improve performance and reconfigure the current ageing

system to be used in parallel with the other existing DAF unit. Poole Projects engineers completed an initial engineering survey of the existing process and equipment and identified points in the system where re-working of the existing DAF piping and control system could be made in order to allow the parallel set-up, increasing both performance and throughput. Poole Projects completed the work as a full turnkey contract through to commissioning.

Following the completion of detailed process, plant and E&I

engineering, the installation work was planned to allow the majority of the work to be carried out on the run, therefore reducing the length of the final installation shutdown. Mechanically Poole Projects relocated existing pumps, re-purposed two disused tanks, supplied and installed new equipment, re-worked existing pipe routes and installed new piping. New instrumentation was supplied and installed, along with electrical connections and upgrades to the existing control system. Company engineers assisted mill technicians

in commissioning the new system which was completed by the end of 2023.

Feedback from the customer has been positive in these early stages, the new system proving to be a success with results exceeding expectations in all aspects of water consumption and quality.

Poole Projects can provide bespoke solutions through knowledge developed over years of experience both within and outside the paper and board industry.

Poole Projects Ltd
Paul Stoney

+44(0)161 724 7692
 +44(0)161 724 6544
pstoney@pooleprojects.co.uk
www.pooleprojects.co.uk

How to find the right safety locking device

Let Pilz help you find the right safety locking device for your machinery



There is a wide range of movable guards on plant and machinery ... from small covers to large, accessible gates. But how can you reliably protect human and machine? In three simple steps, Pilz shows you how to find the right safety locking device for each application.

Step 1: Accessible or non-accessible? - a look at the respective installation situation of the safeguard on the plant or machine provides an initial, important indication of the right safety locking device. The deciding factor here is whether or not the safeguard is accessible. That's because accessible safeguards require an escape release, for example.

The standard EN ISO 14119 – 'Safety of machinery - Interlocking devices associated with guards - Principles for design and selection' regulates the safeguarding of movable guards, whether that be swing gates or sliding gates, covers, flaps or rolling doors. It also refers to the subject of manipulation, and describes measures designed to prevent the defeat of safeguards and their interlocking devices.

Step 2: Process or personnel protection? - Assess whether the respective plant or machine still presents a hazard, even after the stop command. This relates to machines that still overrun, robot applications for example. In this case, the guard may not be unlocked until the machine is in a safe state and has completely stopped. It must not be possible to open the safety gate

until the machine no longer poses a danger. Process guarding or safeguard locking may be required for personnel protection - that depends on the stopping time. If the time it takes to reach the danger zone is greater than the stopping time, then process guarding is sufficient. In this case, the process itself should be protected as a priority, and unwanted disruptions to production should be excluded. However, if the danger zone can be reached before the stopping time is ended, then personnel protection in accordance with EN ISO 13849 -1 is required - accordingly, a safety locking device that guarantees this must be selected, because in this case, the safety of the operator must be guaranteed.

Step 3: Which Performance Level is required? - Ultimately, selection of the right safeguard is made on the basis of the Performance Level (PL). This is determined using a risk analysis in accordance with EN ISO 13849 -1. The key factors for this calculation are the severity of the potential injuries, frequency of exposure to the risk and ability to avoid the risks. PL e indicates the highest risk.

Pilz Automation Ltd
Kelly Cornwell

+44(0)1536 460766
+44(0)1536 460866
k.cornwell@pilz.co.uk
www.pilz.co.uk

Emergency pumps delivered in record time



Thanks to its supplier collaboration Salvtech was able to deliver two duplex stainless steel pumps along with bespoke base frames in a very short time frame

In March 2024 Salvtech Limited delivered two emergency duplex stainless steel pumps to a confidential customer having an immediate need for two open impeller stock pumps. Due to process challenges, the new pumps had to be specially sized with bespoke base frames being made in the UK. The sizing was performed using L&M's SPAIX software by Salvtech engineers in its North Wales, UK office and the availability of parts in the German stores was checked using the new L&M distributors portal. This meant there was no delay waiting for the German applications team and warehouse manager to confirm if the correct pumps could be delivered in time.

The pumps were assembled in Germany and shipped within two weeks. They were assembled from stock parts and fitted to the bespoke baseplates in the UK.

These were laser aligned in the UK workshop and then delivered by special transport to site. Final post installation laser alignment checks were made on-site, and commissioning was undertaken in early April this year.

No other supplier of pumps, able to handle paper stock, could deliver in the time frame requested and Salvtech was only able to deliver because of the excellent tools and software developed as part of its distributor collaboration with L&M pumps.

Salvtech Ltd
Martin Christmas

+44(0)1244 638900
+44(0)1244 638900
info@salvtech.com
www.salvtech.com

Wet end equipment from experienced builders



▲ Reel Solutions can provide a full range of ST Machine wet end equipment and services

The wet end of the paper machine is a vital part of the paper making process and ST Macchine has been at the forefront of the technology involved for many years. David Jobson from Reel Solutions Ltd has worked with ST Macchine for over 30 years and can provide a full range of wet end equipment from headboxes of various types to complete Fourdriniers and associated components ... and all benefitting from finite element method (FEM) analysis and flow simulation to ensure accurate and efficient operation.

Pressurised headbox - The pressurised headbox allows production of a wide range of consistencies and speeds in Fourdrinier applications. A conical header uniformly distributes the pulp to a two-stage step diffuser before entry into a pressurised expansion chamber where two perforated rotating rolls deflocculate

and mix the fibre. The pulp is accelerated in a nozzle before exiting onto the Fourdrinier where fine adjustment of the top lip allows excellent basis weight control.

Rectifier Rolls - ST Macchine has manufactured rectifier rolls for many years and already supplies many of the leading paper machine builders. Having long standing experience in this field and by utilising the most modern equipment available, the company builds rectifier rolls which meet specific customer requirements. Finishing is extremely accurate utilising mechanical or electrolytic polishing treatment.

Hydraulic headbox - The hydraulic headbox is used mainly on medium and high speed machines for Fourdrinier applications. Consistency and speed range is reduced compared to a pressurised headbox but the quality formation is

increased. A conical header distributes the pulp uniformly to a three stages step diffuser which induces micro-turbulence to the pulp necessary to mix and deflocculate the fibre. The pulp is then accelerated in the nozzle until it exits the headbox where the geometry of the bottom lip plus fine adjustment of the top lip provides good basis weight profile.

Dilution - For better profile control a dilution solution comprises two conical headers separated by the headbox. The water is dosed by the dilution valve and injected in a plastic element where it is mixed with the pulp. Each mixing chamber is connected to the headbox with a flexible hose. The dilution system can be interfaced with a wide choice of QCS brands and, as an option, a turnkey solution complete with software and hardware can be supplied.

Fourdrinier - The Fourdrinier where the sheet is formed and dewatered can be one or more layers and always has a specific configuration according to the type of production, paper machine speed and the available space. Tailor made solutions can be designed and manufactured from small alterations, through a Fourdrinier length extension to a completely new turnkey solution, including beams, doctors, tensioners, savealls, suction couch rolls and automation.

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

Rotary joint requirements for paper production

The papermaking process is essentially one of removing water. This process begins in the forming section where free water is drained from the pulp slurry using gravity and suction (vacuum) boxes. The forming section is followed by the press section where mechanical pressing forces are used to squeeze water out of the sheet. The press section is followed by the dryer section where water is evaporated using steam to heat the surface of

multiple drying cylinders. Paper drying requires a large amount of energy and expensive equipment, so it is desirable to minimise the amount of water in the sheet entering the dryer section. This is where rotary joints, particularly the PT2X plays a critical role in the papermaking process. Every steam heated drying cylinder is equipped with at least one rotary joint and syphon. The rotary joint connects the piping to the rotating cylinder and

allows steam into the cylinder and condensate out via a syphon inside the cylinder. The capacity of the cylinder to transfer heat depends mainly on the design and operation of the syphon and dryer bars.

Rotary joints operate with different steam pressures. Pressures vary to suit the respective grades of paper being produced, from heavy board grades to lightweight tissue, graphics, newsprint, and packaging grades. Through extensive research and development testing, all Kadant rotary joints used in the papermaking industry provide reliable and extended service for all paper grades.

Rotary joints can be found on other sections of a paper machine as well. One area is on water-cooled rolls for press and size press positions. In this application, heat is generated by nip pressure

and starch temperature influences the soft rubber cover which needs cooling. The cover gets cooled by introducing water to the centre of the roll to cool the metal shell and therefore the rubber cover.

Where soft nip calenders are used to give a specific finish to the paper being produced, rotary joints provide the transfer of hot water or hot oil to the calender rolls to heat and maintain an even surface temperature which gives a gloss, matte, or smooth finish to the paper web.

The PT2X rotary joint from Kadant can play a critical role in the papermaking process ▶



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



Cross functional engineering team successfully refurbish headbox

A crucial component of any paper mill, the headbox, plays a vital role in forming the sheet of paper with consistent quality and calliper. These assemblies do not usually suffer from structural failure, so it was a shock when cracks were discovered in the structural supports of this one requiring the machine to be immediately stopped and potentially leading to a costly replacement with a twelve-month closure until a new headbox could be sourced. These cracks went through a 25mm (1”) thick stainless steel fabricated box section and resulted in the back side resting on adjacent framework nearly 10mm lower than the front, with the real risk of total headbox structural failure and collapse.

On finding the problem, the mill engineers pulled a team together, including Walmsleys, contract fitters, NDT, fabricators, roll balancers, alignment engineers, etc to effect a thorough investigation and repair in the quickest possible time. Walmsleys was asked to provide technical support, design, and analysis services to the mill team.

The first phase of the project was to make the structure safe to be worked on and around. This required the design, build and installation of a bespoke support structure, which had to be completed as quickly as possible over the Christmas holiday period. The structure also had to incorporate jacking points so that the headbox could

be put back into its original position, ready for repair.

Once the headbox was safe, investigating the cracks revealed that they weren't simply wear and tear. With the benefit of modern finite element analysis (FEA) and non-destructive testing, areas of high stress in the headbox design were identified as the likely root cause which was further exacerbated by abnormally high vibration levels, resulting in a fatigue failure of the structure. Following an iterative process, a number of designs to support the high stress areas were investigated until a combination of stiffening and bracing was arrived at that reduced the stresses to a level where no further fatigue cracking would be expected.

With the machine safe and the root cause identified, the team could focus on a two-pronged approach ... repair and prevention.

For the repair, cracked sections were removed and replaced with new material, further cracks were gouged and repaired, and additional structural supports were designed and installed to reduce the stress in repaired corners and give additional factors of safety. The weld repairs were carefully sequenced and monitored to minimise distortion, crucial for maintaining dimensional accuracy in the

headbox.

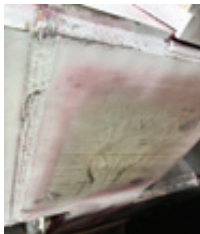
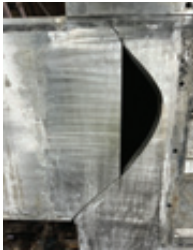
Given the extended down time for the repair of the headbox, the opportunity for additional maintenance on

the machine was also taken.

Once the extensive repairs were complete, the headbox had to be aligned ... following repairs the misalignment, front to back, was 0.3mm

By opting for a refurbishment instead of a full replacement, the mill saved significant time. The project was completed in eight weeks, much quicker than sourcing and installing a new headbox, and minimised production downtime. Additionally, the repair itself proved more cost-effective, offering a sustainable solution compared to the significant investment of a complete replacement.

This project highlights the ingenuity and problem-solving skills of cross functional engineering teams. By delving deeper than the surface cracks, they identified the root cause and carried out extensive repairs, saving the mill valuable time and money, and ensuring continued paper production. This highlights the importance of thorough investigation and having the right engineering expertise.



Walmsleys Limited
Craig Frankowski

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

Get essential facts from machinery safety webinars

Pilz Automation Technology is continuing its series of free machinery safety webinars throughout 2024, with some new additions to the schedule.

The webinars aim to share the essential facts and updates on a range of key machinery safety topics and updates, covering key facts in a short session. Participants will also have the opportunity to get instant support for specific questions with a question-and-answer function available throughout the presentations.

Adding to Pilz' portfolio of popular machinery safety training courses and seminars, the hour-long webinars all start at 09:30 and if the time or date of any of the webinars isn't suitable for your schedule, it asks you to register anyway and a recording of the webinar will be sent directly to you shortly after the broadcast.

Upcoming webinars include:

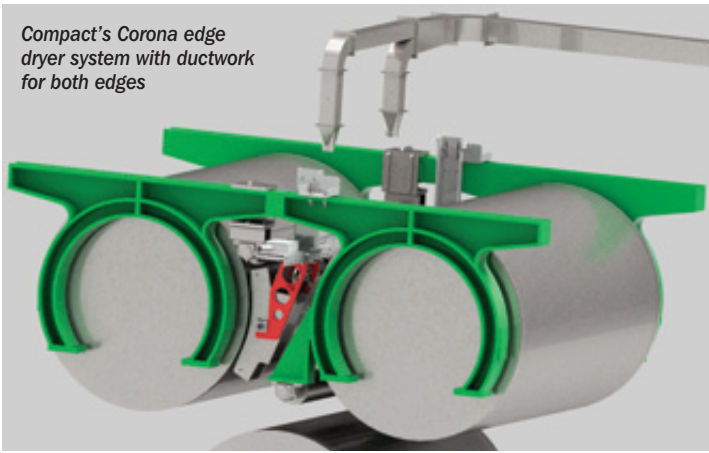
- Safety and security for man and machine - 10th May 2024
- Safety and security for man and machine: A practical demonstration - 23rd May 2024
- Robot safety - 21st June 2024
- Packaging machine safety - 20 September 2024
- Machine safety legislation - 22 November 2024

For the full 2024 webinar schedule, further details of each topic and to register, visit www.pilz.co.uk and enter webcode 150739.

Pilz Automation Ltd
Kelly Cornwell

+44(0)1536 460766
+44(0)1536 460866
k.cornwell@pilz.co.uk
www.pilz.co.uk

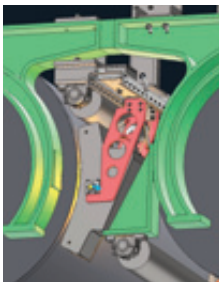
Compact's Corona edge dryer system with ductwork for both edges



Compact's Corona edge dryers destined for Austrian mill

Compact Engineering Ltd has won an order for its high energy efficiency Corona edge dryers to remove excess moisture from the sheet edges on a linerboard machine in Austria.

The Corona dryer is designed specifically for high moisture removal applications where a high energy input is required in a small amount of space. The Corona uses emitters curved in the machine direction so that the infrared is presented at right angles to the sheet surface to maximise absorption of infrared by the sheet. To achieve the high levels of moisture removal required, the sheet surface is scoured using turbulent air that is first used to cool the internal workings of the emitter, so has a very low relative humidity.



One of the Corona edge dryers in position

The Corona has an installed capacity equivalent to 320kW/m and in this case the power is controlled in 37.5mm wide control zones. The narrow zone resolution allows precise control of the moisture and thus shrinkage of the sheet, delivering excellent product quality on the reel. Despite very high energy density, the Corona dryers are safe to use on even the lowest basis weight sheets as the front of the dryers cool to touch within two seconds of switching the power off.

Rondo Ganahl AG in Frastanz, Austria chose to invest in Compact Engineering's edge dryers to correct wet edges on its machine in order to improve the overall quality of products on the reel. This follows a reference visit to Mondi AG in Weinfelden, Switzerland where Compact has had similar dryers running for the last year.

The application requires papermaking know-how in addition to energy efficient water removal. To maintain structural stability of the sheet it is important that water is removed from the edges in such a way that ensures the entire sheet shrinks at the same time in the machine direction. To meet the shrinkage requirements, the water will be removed from the sheet in three locations in the machine direction, two before the size press and one between the size

press and the reel.

Delivery is timetabled for July this year with installation taking place during a 36-hour shut at the end of that month.

Compact Engineering Ltd
Tim Klemz

+44(0)1845 525356
+44(0)1845 525357
tim.klemz@compact.co.uk
www.compact.co.uk

New H68-Series rotary pressure joint from Deublin

The H-Series is Deublin's most popular self-supported rotary pressure joint, engineered specifically for steam and hot oil applications common in the pulp & paper and other general industries.

Especially suited for open gear machines, where external mounting surfaces are not available, the self-supported design of the H-Series features two widely spaced, self-aligning carbon graphite bearings that distribute the load evenly, reducing wear and promoting longer seal life. The sealing surfaces can be easily reconditioned with an emery cloth.

The sealing mechanism is designed so that the carbon graphite is under compression. Carbon graphite under compression is four times stronger than in tension so it better withstands pressure surges and water hammering. The convex seal ring is also suited to handle mechanical and thermal shock.

The H68-Series is available in either monoflow or duoflow configurations, with flanged or threaded rotors. The end cap of the duo-flow version for steam service



The new H68-Series of rotary pressure joints from Deublin directly replace the H67 units



has dual sight glasses to monitor condensate flow.

This simple and robust design extends operating times and reduces maintenance. A single model is applicable for multiple sizes, reducing lead times and spare parts inventory ... and the H68 is a one-for-one replacement for the H67.

Deublin Limited
Lee Ramplin

+44(0)1264 333355
+44(0)1264 333304
lee.ramplin@deublin.com
www.deublin.com

Two new sensors added



Pilz has added two new sensors to its safety locking devices portfolio

IAC chairman receives Lifetime Achievement Award



Peter Lewis, Chairman of Industrial Automation & Control Ltd (second right) received his Lifetime Achievement Award at a ceremony last November

After nearly 30 years steering the growth of the Industrial Automation & Control Group (IAC), company Chairman Peter Lewis has been recognised with the South Wales Argus Business Awards' prestigious Lifetime Achievement Award. This award celebrates Peter's enduring, profitable and community-focused contribution to business in Gwent, South Wales.

Peter's journey began in 1973 when he started as an engineering apprentice. He honed his skills across various roles before spending over a decade as Senior Applications Engineer at Black Clawson International. This experience gave him the foundation to establish IAC in 1988 with a mission to 'maintain the long-term employment of the workforce'.

Under Peter's pioneering leadership, IAC has grown from two to over 100 employees globally across six companies, with a £10 million annual

turnover. He has also built the IAC Group's assets to over £2.5 million through shrewd financial management, seizing opportunities at key moments ... such as acquiring part of Black Clawson International in 2000, expanding the workforce from eight to 45.

Passionate about developing talent, he pioneered IAC's apprenticeship programme which has nurtured over 40 graduates. Leading by example, he gained an MBA and Masters in Marketing qualifications during his career, becoming a Fellow of the Chartered Institute of Marketing.

Having an engineering mindset and personal drive has steered the IAC Group through challenges like recessions and Covid-19. And he focused on retaining staff during downturns and enabled safe remote working during the pandemic. Under his chairmanship, IAC continues to

diversify, innovate, and identify new export opportunities.

Upon receiving the award, Peter commented, "I'm honoured to be recognised for playing a role in developing Gwent's business landscape over the past 50 years. My focus remains on building a responsible, sustainable business for the future."

Peter was presented with the Lifetime Achievement Award at the South Wales Argus Business

Awards last November. As he looks ahead to 2024 and beyond, he retains the same ambitions that sparked his entrepreneurial journey back in 1988.



Industrial Automation & Control Ltd
Kath Lewis
+44(0)1633 293000
+44(0)1633 293030
@klewis@iac-ltd.co.uk
www.iac-ltd.co.uk

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to safety locking devices portfolio

When protecting guards, there are various factors to consider, depending on the application. For example, the type of safety gate, the respective installation situation and how it is used. With this in mind, Pilz has added two new sensors to its portfolio of safety locking devices - PSEnmlock mini for space-critical applications and PSEnslock 2 with optimised hygienic design, as well as new versions with stainless steel components. Both sensors offer particular benefits including a high level of manipulation

protection and added flexibility for the user, all of which can have a positive impact on productivity.

With its compact design, the new safety locking device PSEnmlock mini for personnel protection has a wide range of mounting options, enabling a high level of flexibility during installation. The new generation of safety locking device PSEnslock 2 offers greater productivity due to its robust process guarding, and thanks to its robustness and protection type IP 67 / IP 6K9K, it is suitable for use in rugged and hygiene-critical conditions.

No space? No problem! - compact design means there's always space

No time either? Also no problem! - attached simply and quickly using just two screws

Safe and energy-conscious - high level of safety in the event of a power failure

Economy included - minimised wiring and simple commissioning

Robust guard locking = higher productivity - safety gate misalignment or vibration are offset

Reliable, powerful package - increased flexibility in the design and installation phase

Everything and everybody safely in view - easy for operator to recognise status

Suitable for industries with special requirements - thanks to IP 67 (IP 6K9K) protection

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

2023 - a year to remember for Turnbull & Scott

Turnbull & Scott has increased personnel at its Hawick site ►



Jim Davidson



Belinda Guo



Ben Vance-Daniel



**Euan Robson
Lee Armstrong**

In 2023, Turnbull & Scott celebrated its 90th anniversary by showcasing the compelling journey from its 1933 inception to the present day. The company was honoured with a prestigious award from Scottish Engineering, recognising its commitment to innovative solutions for heating, cooling, and energy-saving challenges. Internal highlights included the appointment of a sales manager and marketing executive, alongside the recognition of its engineering manager celebrating over 40 years with the company.

In commemoration of its illustrious 90th birthday milestone, T&S embarked on a journey of storytelling, tracing its compelling evolution over the years. Throughout the entirety of 2023, the company embraced the opportunity to share an extensive array of captivating stories, cherished memories captured in photographs, and other fascinating anecdotes, providing stakeholders and enthusiasts alike with a rich and detailed showcase



Latest water jet cutting equipment at T&S achieves precision cutting of 2D profiles up to 75mm thick

of the organisation's remarkable journey through the decades. This celebratory initiative not only reflected the company's proud heritage but also served as a testament to its enduring commitment to innovation and excellence across the years.

The business was extremely honoured to be recognised by Scottish Engineering as the winners of the Sustainable Development Award. Managing Director Peter Murphy, delighted with the award, highlighted the company's longstanding efforts in helping customers reduce heat energy consumption and emphasised the significance of receiving the Sustainable Development award in a year marked by innovative engineering solutions for climate change. The award capped off a successful week which included participation in the 2023 All-Energy event in Glasgow, engaging with industry professionals on creative approaches to energy-saving challenges.

Internally, 2023 saw T&S announce the appointment of Ben Vance-Daniel as the new sales manager and with a proven track record of success in the engineering industry, Ben has brought a wealth of experience to complement the team. In addition, the company warmly welcomed Belinda Guo who joins the marketing department as marketing executive. And 2023 marked a significant milestone as Jim Davidson, the engineering manager, celebrated an impressive 40 years of dedicated service, a testament to the enduring commitment and expertise within the organisation.

The year also saw improvement in the Manufacturing Centre in Hawick with Bobby Hunter (engineering apprentice), Lee Armstrong, Euan Robson (both fabricators) and Graeme Tinlin (welder) joining. T&S proudly introduced a state-of-the-art in-house water jet cutter, utilising advanced nesting software to achieve precision in 2D profiles up

to 75mm thickness with minimal waste. Primarily employed for tube plates and casing components in heat exchangers, this cutting-edge technology has also opened doors to unique projects, ranging from personalised house signs to intricate sculptures. Additionally, the company expanded its capabilities by acquiring a new brake press and enhancing its welding capacity, demonstrating a commitment to innovation and versatility in fabrication.

2024 promises to be another exciting year for the Hawick based company as it further commits to helping customers achieve net zero goals in their heating and cooling needs.

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

Business growth in UK and Ireland

Salvtech Limited has recently won fan servicing contracts in Dublin and Belfast based on word-of-mouth recommendations. With these two new projects and customers from 2023 already booking their labour for this year, the company order book for 2024 fan servicing already exceeds that of 2023. As a result, the company's staff will be increasing with two new personnel starting in the second quarter of 2024 and the business recently investing in a new service vehicle.

The AFT screen basket business

has also grown since Salvtech became the exclusive UK agency.



Salvtech's business growth in UK and Ireland exceeds the previous year with fan servicing, screen baskets and new or replacement pumps leading the way

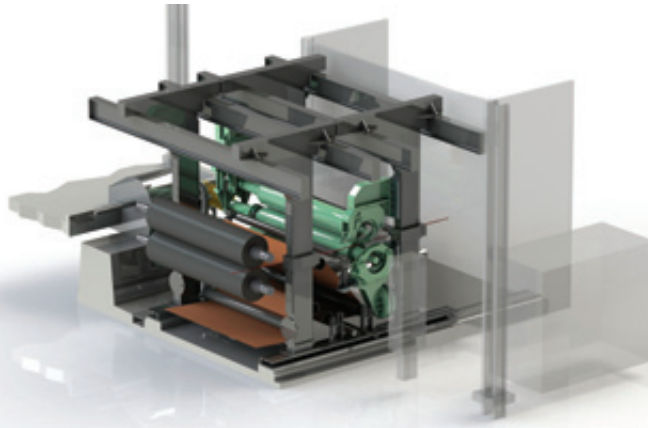
This is despite significant price pressure and targeted selling by competitors, demonstrating that the AFT products, coupled with Salvtech's site services are a winning combination with UK customers.



New pump sales are also up on the same period last year with new customers converting from longstanding previous OEM ones to Salvtech supplied L&M centrifugal pumps. This includes orders for both new project pumps and replacement pumps for existing units supplied by other OEMs.

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

Press section transplant boosts paper mill efficiency



◀ Walmsleys engineered the installation of this press section from one machine to another for James Cropper plc

In the ever-evolving world of paper production, adapting to changing demands and maximising resource utilisation is key. This is exactly what a forward-thinking paper mill - James Cropper plc, a leader in advanced materials and paper products - is aiming to achieve by transplanting a press section from a soon-to-be mothballed paper machine onto an existing operational machine.

The key challenges lay in seamlessly integrating the press section, originally designed for one machine, onto another with different operational parameters.

The hurdles included:

- **Gauge width discrepancy:** The widths of the two machines were not identical, requiring adjustments to ensure proper sheet handling and quality. Transition elements were required to integrate the new press section to the existing machine seamlessly, whilst

maintaining the correct gauge position for the functional elements despite the width difference.

- **Speed control:** The original press section operated at a different speed than the existing machine line shaft could handle. To overcome this, Walmsleys used a variable frequency drive (VFD) system, designing the integration between the new drive and the existing line shaft speed control systems. Safety-critical features such as the integration of E-Stops have been designed into the combined system.

The press section relocation project will have major advantages for the mill:

- **Extended lifespan:** Instead of scrapping the press section with the mothballed paper machine, it received a new lease of life, contributing to increased

production capacity and resource utilisation.

- **Cost savings:** Compared to purchasing a brand new press section, the reuse and adaptation offered significant cost benefits.
- **Minimised downtime:** The swift integration minimised production downtime, ensuring operational continuity and product availability.
- **Environmental impact:** This innovative approach reduced the need for new equipment manufacturing, thus minimising the environmental footprint associated with material extraction and production processes.

Richard Bracewell, Managing Director, Paper Products at James Cropper said, "Extending the lifespan of machinery is not only the right thing to do from an

environmental standpoint, but it makes commercial sense. Working with the experts at Walmsleys ensured the machine in question could continue to produce the high quality product that our customers expect from us."

This press section transplant shows how resourcefulness and engineering expertise can breathe new life into existing equipment, fostering sustainability and cost-effectiveness within the paper production industry. It paves the way for further innovative solutions that maximise resource utilisation and minimise environmental impact in an ever-changing market.

Walmsleys Limited

Craig Frankowski

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

Paper machine maintenance and repair

Field service -

Kadant UK Ltd takes field service to a new level. Its expert team of UK based field service technicians are committed to providing mills with a safe, quality, timely, and efficient experience onsite or remotely. Let the Kadant UK field service team plan, implement, manage, and develop customised maintenance strategies for your paper mill.

The field service technicians will inspect all mechanical components



Kadant UK field service team (left to right) Liam Baldwin, Mark Newton, Joshua Naylor-Wright, Stephen Birnie, Graham Bodger, Garry Wilson, Phil Eastwood

in the dryer section and press section. This includes mounting brackets, bearings, journals, doctor structure and condition,

blade application angle, levers, air cylinders, oscillation, rotary joints, and other equipment. Also, the blade angle will be adjusted to your specific application and the blade holder profile will be checked and necessary adjustments made to

ensure a proper blade-to-surface fit.

A full report including service details before and after the maintenance and recommendations for improved performance will be provided after each service.

Machine and equipment audits -

A true understanding of machine and equipment performance is key to a safe, high-quality, and efficient process. Kadant's field service team performs comprehensive machine and equipment audits including digital machine mapping. The result is a detailed service assessment with feedback, recommendations, and project justification which are aligned to customer corporate strategies including energy efficiency

targets, freshwater reduction management, and production optimisation.

Having reliable, skilled mill resources available to perform necessary preventative maintenance services of paper manufacturing equipment is becoming more and more of a challenge and can lead to unexpected maintenance costs if delayed or not done at all.

Kadant UK Ltd

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

Web tension measurement in paper production and processing



▲ PMGZ-series in paper production



▲ UMGZP-series, drop-in replacement for Philips Block, recycling paper production

Increasing requirements - As in other industries, the demands on producers and machine builders in the paper industry are increasing. Higher productivity and thus higher profitability of production plants and more cost-efficient products of higher quality are just a few of the keywords to be mentioned in this context. Web tension is an important factor in paper production and constant tension is crucial for maximum product quality and overall productivity. The components required for this are subject to extreme conditions depending on the installation location and must therefore be carefully adapted to these. Applications with high temperatures, low web tension with high roller weights and speeds are frequently encountered in the paper industry.

Web tension monitoring is essential for many applications - In a typical Fourdrinier machine, continuous tension monitoring is already used at the transition from the headbox to the wet end of the machine. The paper is still in suspension in the wet section and force sensors are used here to measure the web tension of the endless wire mesh. The same applies to the felt section, where force sensors measure the tension of the felt. From the dryer section onwards, the tension of the paper web is measured to minimise the risk of breaks. Continuous measurement and precise measurement signals are essential for this. Finally, the last measuring point is in the reel section, just before the spool.

Force Measuring Systems AG force measuring blocks - For web tension measurement in the dryer section UMGZ-series force measuring blocks are recommended by FMS and are available in the UK from Reel Solutions Ltd. Depending on the residual moisture and temperature, the technical properties (and costs) can be optimally adjusted to the ambient conditions by selecting the appropriate options. This ensures accurate and reliable measurement and a long service life.

The robust PMGZ-series was developed for use in the wet section and is rated IP 67. The stainless-steel design and its special sealing with glass feed-through make the measuring body insensitive to any aggressive media. As additional protection, the strain gauges operate in hermetically sealed inert gas atmosphere. The robust construction with increased rigidity is designed to withstand machine and web vibrations at the highest production speeds.

FMS force sensors are not subject to zero-point drift and offer the best repeatability. They also withstand overloads of up to 10-times their nominal force and the mechanical hard stop prevents damage caused by unintentional overloading.

Reel Solutions Limited
David Jobson

☎ +44(0)1189 479501
☎ +44(0)7411 303093
✉ davidjobson@reelsolutionsltd.com
🌐 www.reelsolutionsltd.com

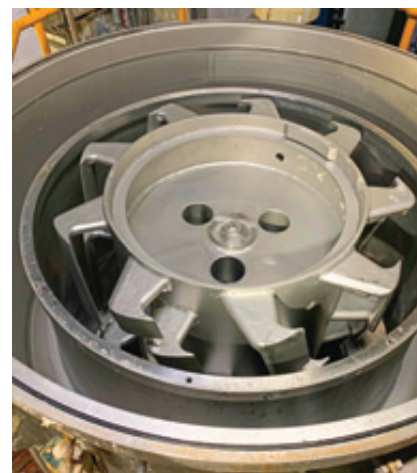


Poole Projects Ltd specialises in the design, manufacture and installation of pulp and paper making machinery and process systems and offers a fully independent service to handle complete turnkey projects. Poole's workforce consists of engineers each with many years' experience in

the industry gained either working for major paper mills or for OEMs.

One of the reasons for Poole Projects success in delivering successful bespoke solutions to meet clients' needs is its ability to offer all aspects of project management and engineering design.

Join Salvtech at Telford or the NEC



Salvtech Limited will be exhibiting its products and services at two exhibitions in 2024.

The first one is the Water Equipment Show - WES (<https://waterequipmentshow.com/>) at the Telford International Centre in Shropshire, UK on 16 May 2024. There the company will be showcasing its range of pumps including the LMS-ES and LMS-AN which can be delivered as direct replacements for many Sulzer, SCAN, Ahlstrom and Andritz pumps. Also on show will be the range of progressive cavity pumps which can replace the likes of Netzsch, Allweiler and Seepex pumps.

The second exhibition is the Resource and Waste Management Expo - RWM (www.ess-expo.co.uk/five-shows/rwm) at the NEC in Birmingham, UK from 11-12 September 2024. Here Salvtech will have a much larger

▲ Pressure screening equipment from AFT will be amongst the various products and services to be shown by Salvtech at trade shows this year

stand showing not only pumps but also site services for fans and rotating equipment. This will include demonstrating technology such as the Phantom 4G card remote triaxial vibration monitoring packages for troubleshooting equipment live in the field from a remote office. The company will also be showing AFT's range of screening products as well as the Algas water filtration system.

Salvtech Ltd
Martin Christmas

☎ +44(0)1244 638900
☎ +44(0)1244 638900
✉ info@salvtech.com
🌐 www.salvtech.com

Innovation and experience from the specialists

◀ Installation and 3D AutoCAD layout of a semi-turnkey project undertaken by Poole Projects for very fine filtration showers, supplying engineering, piping, tanks and E&I

Project management, process, plant, piping, mechanical, E&I and software engineering expertise are all services the company regularly offers to its clients. This enables it to deliver both turnkey and engineering only projects, along with feasibility and pre-engineering studies. "Due to the continued

downsizing of in-house engineering departments at pulp and paper mills, the majority of our recent workload has been engineering support within the various disciplines we are able to offer," said Poole Projects Director Paul Stoney. 3D Scanning and modern

engineering design software is employed to make sure that items manufactured fit first time and every time. Projects are implemented with exacting attention to detail which ensures on-time and on-budget delivery.

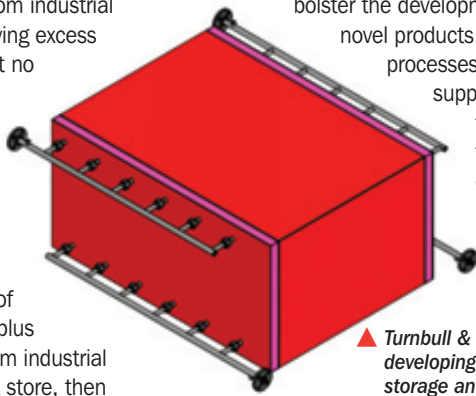
Poole Projects Ltd
Paul Stoney

+44(0)161 724 7692
+44(0)161 724 6544
@ pstoney@pooleprojects.co.uk
www.pooleprojects.co.uk

Transportable heat storage

Turnbull & Scott (Engineers) Ltd has been developing an idea to allow the storage and transfer of waste heat energy. The opportunity for such a solution emerged from recognition by the T&S team that there was an increasing number of enquiries from industrial customers having excess waste heat but no immediate or near time use for that which was available.

The project will determine the feasibility of recovering surplus waste heat from industrial sites to a heat store, then transporting the heat store to a secondary site or heat network where the heat can be discharged and reused. It will combine the company's expertise in heat exchanger design with the use of phase change materials (PCMs). The company's research and design team is building models to predict and optimise the sometimes conflicting goals of thermal efficiency, transportability, charge/discharge times and, of course, costs. T&S will construct a test unit this year, allowing for testing heat loss during transportation, discharge times, combinations of mediums and



▲ Turnbull & Scott is developing the storage and transfer of waste heat energy

PCMs, and hope to find and install a demonstration site during 2024. To develop the idea further, T&S has been selected as one of 16 companies to share a Scottish Enterprise fund that aims to strengthen Scotland's 'green heat' supply chain. The support is set to bolster the development of novel products and processes that support the transition to low carbon heat or

improve the thermal performance of buildings. "We are excited to be part of this initiative which recognises the importance of finding sustainable ways to utilise excess waste heat," said Peter Murphy, Turnbull & Scott's managing director. Other recipients include Aberdeenshire-based engineers Geothermal Energy Ltd and industrial heat pump developer and manufacturer Star Renewable Energy, from Glasgow.

Suzanne Sosna, director of energy transition at Scottish



Enterprise, said, "Decarbonising heat will play a crucial role in meeting global net zero targets, creating opportunities for Scottish businesses in supply chain areas such as design, manufacturing, assembly, installation and consultancy." She continued, "This funding will help businesses that stand to benefit from the growth of green heat to conduct detailed assessments of the feasibility of their solutions with a view to future commercial development."

Since securing the funding, Turnbull & Scott made a presentation at Scottish Enterprise's Green Heat Feasibility Showcase in February to highlight the project's potential to likeminded organisations. The

event, organised by Scottish Enterprise, provided a great platform for sharing ideas, networking, and collaboration among Scotland's leading innovators and business minds. It was an honour to join this gathering, which was a melting pot of creative and sustainable solutions aimed at tackling the urgent issue of climate change.

Turnbull & Scott (Engineers) Ltd
Peter Murphy

+44(0)1450 372053
+44(0)1450 377800
@ info@turnbull-scott.co.uk
www.turnbull-scott.co.uk

French mill to install Apollo coating dryers



▶▶ Compact's Apollo dryer with reflector frames closed in the operating position (left) and open for maintenance (right)



Papeterie Zuber Rieder has chosen Compact Engineering Ltd to supply infrared coating dryers after the film press on its machine in France. The aim of the project is to improve drying between the film press and the after dryers by setting the coating quickly and efficiently on the sheet surface and to potentially deliver a production increase.

The application does not require an enormous amount of energy, but the chemistry used in some of the coating formulations provides

challenges to the effective removal of water.

The order is for two of Compact's Apollo dryers and reflector frames with active air management. This creates an air bearing that supports the sheet as it is dried whilst simultaneously removing any slack from the sheet, ensuring that the coatings are dried onto a stable sheet and improving the overall quality.

The combination of Compact's unique wavelengths of infrared and active air management provides dryers able to work on a wide range

of basis weights, coat weights and variable machine speeds without overheating the coating. The infrared is able to heat the sheet beneath the coating and create a positive vapour pressure in the sheet structure. This vapour pressure provides resistance in the sheet to the uncontrolled migration of the coating colour into the sheet, keeping the coating on the sheet surface where it is wanted.

An additional benefit of the Apollo dryers is that they cool to touch within seconds of switching off the power, making them safe to

use on even the lightest weight sheets.

The Apollo dryers are being manufactured and will be delivered this July with installation planned for August.

Compact Engineering Ltd
Tim Klemz

+44(0)1845 525356
+44(0)1845 525357
tim.klemz@compact.co.uk
www.compact.co.uk

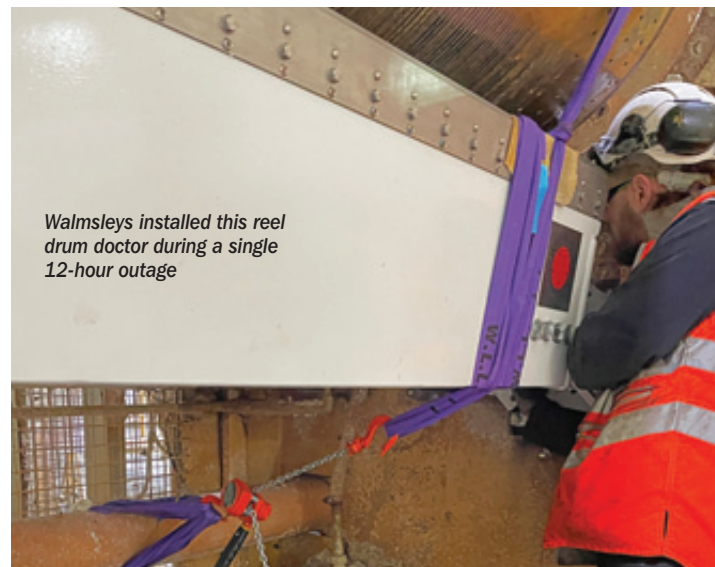
Walmsleys reel drum doctoring upgrade

The tissue machine reel drum plays a crucial role, ensuring a smooth and uniform sheet wind onto the parent reel. A vital component within this system is the doctor, responsible for cleaning excess coating or material from the surface of the drum. The quality of the parent reel sets the standard for the final product as any debris or contamination on the reel drum can lead to defects, resulting in lower quality tissue products.

A leading tissue producer was looking to make improvements to its reel drum doctoring and Walmsleys Ltd was asked to assist. The first thing was to understand what the reasons were for wanting to change the whole doctor. Was it ineffective, inefficient, or simply corroded? Inspections highlighted corrosion

so the next step was to determine the key dimensions, mounting and loading methods, as well as blade requirements. A thorough site assessment enabled Walmsleys design team to utilise existing mounting points to minimise site installation time. The design of the doctor back and holder took into account the sheet width and running speed to eliminate the potential for vibration during operation.

With these factors considered and the doctor fabricated and machined, the next step would be the installation. To remove the existing doctor and install the new one during a single 12-hour outage and connect services so the existing controls could be re-used, would be the most cost effective way of replacing the doctor for the client.



Walmsleys installed this reel drum doctor during a single 12-hour outage

The existing doctor was dismantled and removed from the machine and the new one offered up to the framework. New brackets were mounted to the existing framework and secured so that the doctor and its loading mechanism could be lifted into position. Once in place and secure the blade was fitted and set to the mill specifications. All the work was completed in the

single day and the installation started-up successfully.

Walmsleys Limited
Craig Frankowski

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



Kadant UK donates plotter to Ilkley Grammar School

▲ Some of the students from IGS preparing layouts for printing on the new plotter

Kadant UK recently donated a plotter to Ilkley Grammar School (IGS) in West

Yorkshire, UK instead of scrapping it, as part of a commitment to reduce waste and support the local community.

What Kadant UK used the plotter for - The Kadant UK office in Otley, West Yorkshire specialises in energy efficient turnkey steam system design. The design of these systems

requires large format printing, so this is where the plotter fitted into the process. The plotter was used for printing large format P&ID (process and instrumentation drawings) along with 3D piping drawings.

Why Kadant UK donated the plotter - The plotter was 15 years old and had served Kadant UK well. However, it was time for a replacement, yet despite its age it was still fully functional and in good condition. Recognising its potential value, the company contacted three local schools and offered the plotter free of charge. IGS was very receptive, seeing the potential benefits for its design and technology students. IGS has a

strong IT department that works closely with teaching staff and integrates technology into the curriculum and it even sent its own driver and school van to pick up the plotter making the handover simple.

Kadant UK found satisfaction and pride being able to contribute to the local educational community and the next generation of designers and engineers. It hopes the plotter will inspire students' creativity, skills, and an understanding of how design offices use large format plotters as part of the workflow.

Thank you from IGS and the Design & Technology Department - "This plotter provides a fantastic opportunity to print A2, A1, or A0 technical drawings for our students in engineering design, D&T and A-level product design. Every bespoke design drawn in OnShape can be produced in a series of large scale manufacturing drawings, which will improve accuracy in manufacture, and also their experience of the design to manufacture process," said Rachel Eyles, curriculum leader of Design & Technology at Ilkley Grammar School.

She continued, "Alongside this our D&T textiles and fashion &

“ This plotter provides a fantastic opportunity to print technical drawings for our students in engineering design, D&T and A-level product design. ”

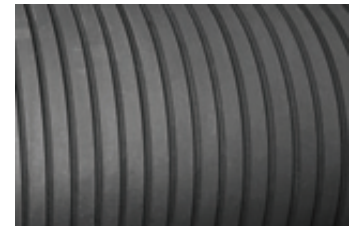
Reel Solutions adds new roll manufacturer to its portfolio



Reel Solutions Ltd supplies safe, practical, and efficient solutions to the paper, tissue, converting, printing and web processing industries. The company now offers rolls manufactured by South Wales business KV Rollers Ltd who manufacture industrial rubber rollers, printing rollers, rubber mouldings and engineered products for a wide range of differing markets.

Established in the early 1980s and initially operating from a small site in Cwmbran, South Wales, KV Rollers has grown to become one of the UK's leading industrial rubber roller and printing roller manufacturers with a 28,000 ft² production facility housing a state-of-the-art process laboratory, a comprehensive rubber production plant and extensive manufacturing and advanced engineering facilities. Back in 2022 the business celebrated its 40th year of trading.

▲ Reel Solutions can supply a wide range of rolls to suit most production requirements



A flexible production model enables it to produce products for all sizes of customers, from small, single-machine printers and specialist process engineers to original equipment manufacturers and multinational organisations. KV Rollers exports to over 20 countries worldwide with North America being its largest overseas market.

At the heart of success is an unwavering commitment to customer service and technical support, allied to a willingness to invest in state-of-the-art equipment and processes. The aim is to develop long-term relationships with customers through collaboration, problem solving and delivering dependable and repeatable products.

Bespoke roller coatings and finishes are supplied for a wide range of industries, such as paper making, mechanical handling, packaging, and web converting and printing, whilst its range of products include brush rollers, chromed rollers, Rilsan® rollers, Teflon rollers, grooved metal and anodised rollers. Each specialist coating performs its own unique function, helping to create an expert finish and boost quality and productivity for the end user.



▲ The plotter donated by Kadant UK

textiles pupils can now print full sized patterns to support accurate production of their bespoke toiles and garments. For all our students this provides an industry standard process to maximise their learning and prepare for their next steps."

Kadant UK Ltd

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

Reel Solutions Limited
David Jobson

+44(0)1189 479501
+44(0)7411 303093
davidjobson@reelsolutionsltd.com
www.reelsolutionsltd.com

Pilz launches digital magazine

To accompany the printed version of 'Mensch und Automation', Pilz has launched a digital version of the magazine for safe automation ▶



Mensch und Automation published by Pilz since 1995 to share knowledge, reveal stories and report on industry trends has established itself as the magazine for safe automation. Now the company has launched an online digital version expanded to include important digital added value with videos, animations, infographics and interactive elements to make the world of safe automation even clearer and help provide a better understanding of the background issues.

The second issue last year marked Pilz's 75th anniversary and

focused on the automation company's key milestones. It was also the first time the content had been available online and the digital issue included expert interviews and further background information on key trends in machinery safety and security. "With digital content, we now offer readers more added value," said Horst-Dietrich Kraus, vice president marketing and communications at Pilz GmbH & Co. KG.

The digital version, of course, supplements the company's printed customer magazine and appears in parallel with the printed version three times a year in both

German and English. The latest issue, plus contributions from the last two years, are available online at www.pilz-magazine.com or via the Pilz website under 'News'. Readers can also register for the Pilz newsletter there, to receive regular information via new articles.



Did you know?

Health and Safety - it's in our hands - The 6th Paper and Board Industry Advisory Committee (PABIAC) strategy launched since 1998 sets out the priorities for the UK's paper-based industries over the next four years. Building on the foundations of each of the previous strategies, this new strategy focuses on key health, safety and psychosocial issues identified for improvement by the industry. PABIAC partners committed to the following objectives at the official strategy launch last year.



- Objective 1: Understanding and integrating human factors into health and safety
 - Objective 2: Accident and incident investigation
 - Objective 3: Proactive and reactive mental health and wellbeing measures
- Over the years, significant investment and improvements have been made in physical safeguards, but incidents still occur. Objectives 1 and 2 were chosen to challenge the industry to review safety critical tasks, emphasising taking account

Headguard programme is 'hugely positive'

We are now halfway through delivering the first season of the Headguard programme at Chester Rugby Union Football Club (RUFC), which is funded by Salvtech Ltd, and designed and

delivered by Little Blackbird Ltd. The programme is a well-being initiative which enables parents, coaches, and players across all age groups to access group interventions, focusing on improving mental well-being. The feedback from all groups

has been that it is an overwhelming success and is helping to develop personal skills that can be applied in the sporting arena, in personal relationships and in the workplace.

With sessions delivered both actively on the pitch and in the club

house, Headguard explores well-being fundamentals, promotes emotional resilience, and highlights the importance of sport in nurturing positive well-being.

Salvtech decided to sponsor the programme after witnessing



Salvtech's sponsorship helps deliver mental wellbeing sessions in the club house and on the field at Chester RUFC





of human error. Objective 3 was chosen to reflect an industry increase in psychosocial work-related issues from CPI data collated under the previous strategy supporting HSE's ten-year strategy 'Protecting people and places'.

To achieve these objectives, PABIAC recognised the importance for everyone to work together and at the launch each partner reaffirmed that commitment.

Carbon footprint 'cut by a third'

- Tetra Pak and dairy products brand Lactogal have recently launched an aseptic beverage carton featuring a paper-based barrier and 80% paperboard. Portuguese food products company Lactogal focuses on dairy products, milk, fruit juice and mineral water. The launch of the Tetra Brik® Aseptic 200 Slim Leaf carton with paper-based barrier, together with Lactogal, provides a package that can be distributed under ambient conditions, whilst making the 90% renewable content



mark. Manufactured from around 80% paperboard, Tetra Pak said the package increases the renewable content to 90%, reduces its carbon footprint 'by one third' and has been certified as carbon neutral by the Carbon Trust™.

The president of Lactogal, said, "Both of us are focused on an ambitious sustainability transformation and the 33% reduction in greenhouse gas emissions of this new carton, together with its carbon neutral certification by the Carbon Trust, is a significant achievement towards this goal."

Tetra Pak added, "The development represents a critical point in our longstanding work to design beverage cartons for recycling ... something that is continuing to set the pace for the 'paperisation' of packaging. By joining forces with Lactogal, we're now demonstrating that it's possible to progress the sustainability of aseptic beverage cartons whilst securing food safety and enhancing food access."

Seaweed ashtrays -

Ashtrays made of seaweed paper were being handed to beachgoers in an effort to reduce seaside littering last summer in a Dorset, UK resort. It comes after 48,000 cigarette butts were found in just one month

on the beach! The butt holders are portable ashtrays printed on paper designed to help reduce the number of cigarettes stubbed straight into the sand. They are created from seaweed and plants that disappear naturally to reduce plastic waste.

Smokers just need to put a small amount of sand in the bottom of the holder and stub out the cigarette butt before standing the holder up in the sand until they are ready to leave. The paper can then be folded over and put in a bin.



Own-brand paper wine bottles launched

- Aldi launched what it claims is the UK's first supermarket own-brand paper wine bottles this spring. Two popular wines will be available in the new bottles which are made from 94% recycled paperboard and lined with a food-grade pouch to hold the wine. The paper bottles are fully recyclable and 'five times lighter than a standard glass bottle', Aldi said. They have been developed in conjunction with Frugalpac, an Ipswich, UK-based sustainable packaging firm. "Shoppers are striving to become more sustainable in

their everyday lives and are looking for small ways to make a big difference for our planet," said Julie Ashfield, MD of buying at Aldi UK. "We are proud to be the first supermarket to launch an own-brand paper bottle, helping to drive sustainable change."



David Carrington joins the Picon team

firsthand the effects it had on its own workforce. A spokesperson from the club said that the investment from Salvtech is crucial in ensuring that Chester RUFC is able to support emotional wellbeing across the whole local rugby community and works hand in hand with the values and aims of the club.

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

Following the retirement of Tony Pope at the end of last year from the position of chairman of the British Paper Machinery Suppliers Association (BPMSA), a division of Picon, David Carrington has taken over the role of paper industry consultant effective from 1 January 2024.

Tony had worked in the pulp and paper industry for over 40 years and held various R & D and sales & marketing roles for several key OEMs. He had been involved with the BPMSA most of

his working life and the Association is grateful for his long and dedicated service.

David had worked continuously in the pulp & paper industry since qualifying as a mechanical engineer in 1975 until his retirement in 2016. He graduated through senior management and director positions within sales and marketing roles, culminating in becoming managing director of Kadant Johnson Systems in 1999. He was an active executive committee member of



David Carrington becomes Picon's paper industry consultant

the BPMSA for some 20 years and was the BPMSA's representative on the Picon Council for one year before retiring.

The BPMSA and Picon wish David much success in his new role.

Obituary - Barry Read



Barry with Ollie his beloved Yorkshire Terrier

Members of the BPMSA were saddened to hear of the sudden and unexpected death of Barry Read, CEO of PITA, the Paper Industry Technical Association, following a short illness in late January 2024.

Barry spent more than 40 years in the world of paper and was a well-known and highly respected personality throughout the industry. He had worked in both pulp and paper mills and for the equipment supplier side before becoming a consultant, working as the Fibre Technology Association. He joined PITA as CEO in 2008 and worked tirelessly to promote paper and board and all bio-fibre industries both in the UK and abroad. He had plans for many future projects and his passing has come as a shock to his numerous colleagues around the world.

Barry's funeral took place on 15 March 2024 in the north of England from where the service was also live streamed.

What's on around the world?

PAPER ARABIA	14-16 May 2024	Dubai, United Arab Emirates www.paperarabia.com
PAPER & BIOREFINERY	15-16 May 2024	Graz, Austria www.paper-biorefinery.com
PAPER EXPO - CHINA	28-30 May 2024	Guangzhou, China www.paperexpo.com.cn
DRUPA	28 May-07 Jun 2024	Dusseldorf, Germany www.drupa.com
LATAMPAPER	12-14 Jun 2024	Mexico City, Mexico www.latampaper.com
PAPER VIETNAM	12-14 Jun 2024	Ho Chi Minh City, Vietnam www.paper-vietnam.com
ZELLCHEMING EXPO	18-20 Jun 2024	Wiesbaden, Germany www.zellcheming.de
PAPER & TISSUE AFRICA	08-10 Aug 2024	Nairobi, Kenya www.mxmexhibitions.com/paperTissueKenya/
PAPER & TISSUE ASIA	09-11 Aug 2024	Lahore, Pakistan www.paper-tissueasia.com
PAPER-ME / TISSUE-ME	08-10 Sep 2024	Cairo, Egypt www.paper-mideast.com www.tissue-me.com
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