

BRITISH PAPER MACHINERY NEWS

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News and views from the
British Paper Machinery Suppliers Association

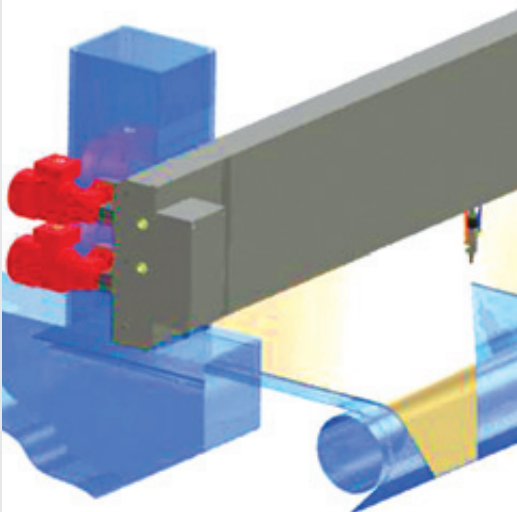
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Turnbull & Scott wins
Scottish Engineering 2023
Sustainable Development award
read about it on page 13



Automatic tail cutter system
from Jarshire allows
increased machine availability
read about it on page 8



Installation of Corona dryers from
Compact Engineering corrects
moisture profile in Swiss mill
read about it on page 7



Deublin forms alliance
with Gardner Systems to offer
the complete turnkey service
read about it on page 6



What's in this issue . . .

Compact
Engineering Ltd
Page 7



Deublin
Ltd
Page 6



Industrial Automation
& Control Ltd
Page 10



Jarshire
Ltd
Pages 4, 8, 12 & 15



Kadant
UK Ltd
Pages 4, 7 & 14



Pilz
Automation Ltd
Pages 5, 11 & 12



Poole
Projects Ltd
Pages 4 & 14



Reel Solutions
Ltd
Pages 3, 6, 10 & 16



Reiss Process
Machinery Ltd
Page 5



Salvtech
Ltd
Pages 6, 8, 10 & 15



Turnbull & Scott
(Engineers) Ltd
Pages 3, 9, 11 & 13



Walmsleys
Ltd
Pages 2, 8, 13 & 14



Editorial
Page 2



Picon/BPMSA dinner
Page 9



BPMSA membership
directory / What's on?
Page 16



The next issue
of BPM News
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published in
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British Paper Machinery News in a digital page-turning version at
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Editorial Comment

Welcome - for this issue we welcome new BPMSA member company Reel Solutions Limited. The business is run by David Jobson who has over 30 years' experience supplying safe, practical, and efficient solutions to the converting, paper, print, tissue and web processing industries. Reel Solutions has worked with small businesses to large OEMs and says that if it can't provide a solution, it will know somebody who can.



End of waste criteria for paper ... paper for recycling (PFR) is a valuable resource and an integral part of the circular bio economy. A major contributor towards a resource-efficient society, the recycling rate for paper and card was almost 70% last year and was the most important raw material for the UK paper and board industry, with



around 80% of all paper products made in the UK utilising recovered paper.

The Confederation of Paper Industries (CPI – www.paper.org.uk) has released a position paper to reaffirm the UK's paper-based industries' position that the End of Waste (EoW) for paper and board occurs at the point of actual recycling ... the pulping stage.

And this position is aligned with that of the Confederation of European Paper Industries (Cepi - www.cepi.org) which represents thousands of companies across the European Union. There are a number of clear reasons why the industry believes that EoW occurs at the point of recycling including the impact on quality of the material and the economic impact.

Andrew Large, Director General of the CPI said that, **"The industry firmly believes there should be an improvement in PFR quality in the UK which should be achieved by legislative and policy reforms to ensure existing standards are met. It would not be achieved by moving the End of Waste point."**

The paper industry position is

that the EoW is currently at the best place for the quality of UK recycling, namely at the pulper of the paper mill. Moving it to an earlier point would have adverse environmental and economic impacts.

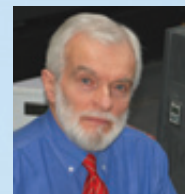
Paper still has environmental perception problems -

research from our friends at Two Sides (www.twosides.info) from its 'Trend Tracker Survey 2023' cover the changing consumer perceptions towards print, paper, paper packaging and tissue products. Results of the 2023 study show that, whilst paper is still a vital communication and packaging material, there remain misconceptions about the environmental impact of the paper industry.

The study found that consumers still think forests are decreasing in size, with 60% believing European forests are shrinking whilst the number of consumers who think European forests are growing in size has improved to 15% in 2023



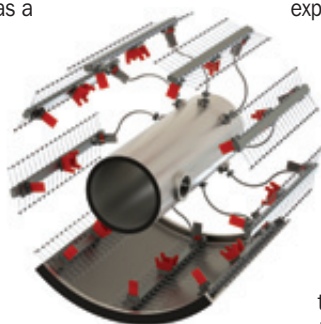
compared to 10% in 2021. The truth is European forests are growing in size and between 2005 and 2020, grew by an impressive 58,390km² ... an area larger than Switzerland and the equivalent to 1,500 football pitches of forest growth every day ... a statistic we should all be proud of and shout long and hard about!



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Yankee dryer condensate removal systems ordered

Walmsleys Limited has received a substantial order for 2 - nine header Yankee dryer condensate removal systems. The company's condensate removal systems are used on dryers all over the world, with the advantage that the system will operate at all speeds but is most efficient when condensate is rimming in the dryer. Walmsleys design has a low blow-through/differential pressure requirement during normal operation and is therefore less likely to 'dump' steam to atmosphere. The system comprises full length headers



▲ Walmsleys Yankee dryer condensate removal system

and outrigger straws that maintain a small and very even layer of condensate in the dryer to maximise heat transfer and minimise cross-machine moisture variations. All parts are rigidly supported while still allowing for differential thermal expansion.

Walmsleys outrigger condensate removal straws maintain a constant clearance to the shell and are not affected by temperature or press roll loading, resulting in a more even sheet and better production and



Rib wear (traditional T-piece removed for clarity)



Standard T-pieces next to Walmsleys new spring clips

quality. The design eliminates rib wear as there is no relative movement of the straw support to the shell ribs.

Complete condensate systems can be retrofitted to any Yankee dryer and traditional T-piece straw supports can be replaced by the new spring clip to prevent further rib wear on the dryer. As well as full replacement, Walmsleys offers replacement parts and servicing all

over the world for any manufacturer of dryer and can also supply condensate systems for plain bore dryers and MG cylinders.

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Low carbon energy scheme inspires Turnbull & Scott

Customer journeys to Net Zero are fascinating the team at Turnbull & Scott. And although the company is supplying components to the overall Net Zero project, the actual projects are of huge interest. Managing Director, Peter Murphy says, "It's remarkable how invested our people become in the overall projects in which we play a part. It seems 'Journeys to Net Zero' have become a galvanizing theme."

Malting customer embarks on trailblazing low carbon project - The most recent project to captivate the team features a long-established customer, Simpsons Malt, a leading supplier of malts that help the world's brewers and distillers craft fine beers and whiskies. With sustainability at the core of its operations the company aims to become carbon neutral by 2030.

Electrification of Industrial Heat - Simpsons Malt has commissioned a low carbon Energy Centre at its site in Berwick that will deliver large scale Scope 1 emission reductions. It will house a 12MW electric boiler powered by 'curtailed' wind energy and three 6MW biomass boilers using locally sourced woodchip and will reduce carbon emissions generated during the energy-intensive process.

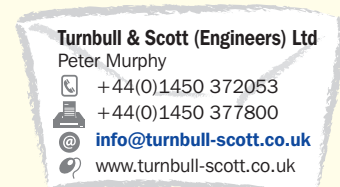
For the first time in the UK, a high voltage electric boiler will be powered by wind energy that would have otherwise been switched off when there was too much wind, allowing increased renewable electricity generation and reduced compensation payments to wind energy generators. In the current system, the grid can't store

excess renewable energy at scale or transmit it to other locations, so there is no option but to turn off turbines on windy days. The project will save 25,000 tons of carbon per year reducing carbon emissions by around 80%.

Blending cutting edge and traditional technology - Turnbull & Scott's contribution to this project will be embedded in the traditional part of the process - the kilning stage.

The company will supply 30 custom designed LPHW plate-fin air heating coils for the malting kilns. Renowned for its highly durable industrial coils, central to the robustness of its plate-fin coils is the unique steel encased tube header incorporating the taper ferrule joint method. This joint is formed using high grade thick wall copper tubes and BS EN1501-161-430B boilerplate with interference fit steel ferrules. Due to the use of two metals with different expansion coefficients, this form of tube joint ensures integrity at high temperature and pressure and negates the requirement of traditional return bends which have fragility and are prone to frost damage.

Turnbull & Scott has been producing coils manufactured by this method for over 30 years. They are used in many OEMs and end-user applications and industries including nuclear, oil and gas, food and drink as well as the pulp and paper industry.



Robust and reliable reel mover



The Easy Roller, available from Reel Solutions, is an easy to use reel mover with an innovative design

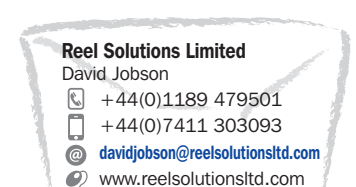


Some people call it an 'Easy Mover', a 'Roll Mover' or a 'Roll Pusher', but at Reel Solutions we call it the *Easy Roller* from CFE Nordic in Sweden, quite simply because it's easy and safe to use!

The *Easy Roller* from CFE Nordic has been designed to be a robust and reliable battery driven unit to push reels of material weighing up to 10 tonnes. Its unique and innovative design means it can be operated sideways so it can be used in tight spaces or where reels are positioned close together. It comes complete with a sturdy handle with an LED indicator showing battery life and a belly button 'E-stop'. All the motors,

chains etc are hidden inside the chassis of the machine, avoiding these vital items getting damaged during use.

There are numerous installations in corrugator plants and paper and tissue mills in the UK, in Sweden and in Europe. A demonstration unit is available for trial, so that the mill and its operators can see why the CFE Nordic *Easy Roller* is pushing forward expectations in reel moving!



Paper mill shafts for non-stop machines



◀ Svecom expanding shafts available from Jarshire in the UK with spare parts held in stock for next day delivery

The Svecom 640/PQL pneumatic expanding shaft is standard in the tissue industry and OEMs supplying machines in this market, as well as the top five major fabric manufacturers, all use this shaft, with Jarshire being the UK agent for them in all UK paper and tissue mills. Svecom large diameter steel expandable shafts operate 24/7 in paper mills around the world using multiple tube technology with internal and external valves for inflation and deflation. The 640/PQL model is the preferred option by machine manufacturers for producing jumbo rolls of paper and tissue on cores.

Hundreds of heavy and expensive expandable shafts currently used to wrap, store or transport reels are not needed and only from three to six 640/PQL shafts are required to run non-stop. On today's high-speed paper machines, it is essential to minimise vibrations and out-of-balance on rotating items. Svecom technology centres the core on the shaft diameter before locking it. The metal centring ledges work in combination with the rubber gripping ledges: the metal ledges are designed to expand first, centring the core on the shaft diameter; subsequently, the rubber ones are raised to block it. This allows the shafts to work quickly, without hitches or vibrations at higher speeds. All shafts are dynamically balanced up to grade G-1.6.

This reliable expansion is provided by air pressure in the durable urethane tubes under the ledges. There are 12 to 24 locking ledges covering the entire table length, each with a steel support to completely protect the air chambers. The shaft has three external valves along the body: one to inflate the tubes under the metal centring ledges, another for the rubber ones and the third to deflate all tubes simultaneously. Each tube has its own internal valve for controlled expansion so if one chamber fails, the remaining ones remain inflated.

The fault is easily found and can be repaired simply in-house in just 10-15 minutes. Mills often return shafts for repairs which is costly and takes time so the ability to repair them in-house is a real money saver.

Everything is automatically inflated and deflated through one end. The ledges expand more than other air shafts to provide ample space to insert the shaft into the core and are equipped with springs to always retract the ledges within their respective idle position. Svecom has more expansion on the shaft diameter, significant for two reasons: firstly, compatibility with the machine for extracting shafts from reels and, secondly, no problem with vibrations or breaks, problems associated with smaller single-tube shafts.

Both pneumatic and mechanical models are available. All reel shafts are balanced to critical tolerances to minimise machine vibrations, allowing maximum possible winding speed. Less vibrations and greater speed mean economic savings with more production and superior quality, less tape breaks and less machine wear.

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Tissue forming fabric cleaning



Tissue forming fabric cleaning from Kadant

Widely accepted as the most successful dryer fabric cleaner, the M-Clean™ PRO system has now been adapted for use in cleaning forming fabrics on both regular paper machines and tissue machines where a combination of water savings and contamination removal has provided exceptional benefits.



Reduced holes after using Kadant's M-Clean™ PRO - before (left) and after use

The cleaning system incorporates application specific water pressures, nozzle sizes and spray pattern configurations to ensure effective, yet gentle, fabric cleaning. As a result, users have experienced reduced holes, fewer sheet breaks, and less downtime attributed to fabric cleanliness issues.

The M-Clean tissue fabric cleaning system can be operated continuously or intermittently and can be programmed to provide additional cleaning at specific fabric points. The system's reliability is recognised as one of the highest in the industry, and the elegant design accommodates quick fabric changes as well as ease of maintenance. A vacuum system is incorporated into the cleaner assembly to ensure debris accumulation in the water loop is minimised and spray mist from the cleaning nozzles is eliminated.

On forming sections where space is limited for the cleaning beam, an alternative design known as the ULTRA cleaner can be used, which has all the benefits of the PRO system, with the exception of an on-board vacuum system, and a simple Venturi system is used to remove and discharge any contaminants.

Features include:

- Stainless steel beam and traversing shower components
- Continuous, one pass cleaning
- Can be used in any doctor holder type
- Active vacuum system for debris removal
- Ease of maintenance

Benefits include:

- Reduced number of holes in the sheet
- Fewer sheet breaks
- Less passivation and cleaning chemicals
- Up to 95% decrease in water consumption
- Reduced second quality product due to holes
- Reduced pump energy for high-pressure, full width shower
- Increased use of internal broke
- ROI in less than one year

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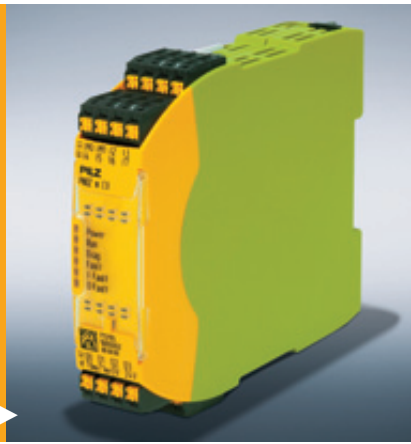
Andrew McPhilimy will help strengthen Poole Projects design team

Poole Projects enhances process design team

Poole Projects Limited has recently appointed Andrew McPhilimy as a process design engineer, an appointment which will further strengthen its design team. Andrew has relocated from Scotland where he previously held the role of process engineer in a paper mill and has achieved a master's degree in chemical engineering.

Standalone safety controller is compact and economical

New base unit PNOZ m CO is as narrow as a safety relay, but as powerful as a safety controller



The extremely narrow PNOZ m CO has the structural properties of a safety relay but is as powerful as a configurable safety controller. It provides eight safe inputs and four safe semiconductor outputs on a width of just 22.5 mm meaning that up to four safety functions can be reliably monitored. These include E-STOP, safety gate monitoring, safety light curtains and two-hand control. Its function range and space-saving width ensure that costs are minimised.

The new standalone base unit PNOZ m CO is now available from Pilz as part of its range of safe configurable small controllers, PNOZmulti 2. It is as narrow as a safety relay, but as powerful as a safety controller.

This extremely compact base unit

is just 22.5 mm wide and monitors up to four safety functions on machines. Depending on the application, it can be used to implement safety requirements up to the highest category PL (performance level) e or SIL CL 3. The new base unit enables high

productivity on smaller machines and, as a result, is a safe, high-performance, and highly economical solution for small machines in different industries and application areas, such as packaging, on robot cells or in the pulp and paper industry, for instance.

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Reiss works for specialist mills around the world

Reiss Process Machinery (RPM) is currently working on orders for several specialist mills across the world involved in manufacturing a diverse range of products. RPM's Managing Director, Chris Wright, says that the company's past experience with many specialist machine projects is a big factor in its ability to secure orders from this sector.

An order for a headbox has been received from a mill in South America for the production of a niche market paperboard grade. The order was received following RPM's involvement in several projects for other mills within the same group. And a repeat order has been received for cooling showers for a North American steel mill. The showers operate in a very hostile environment and the

showers pipes have a special heavy duty armour coating to ensure a long and trouble free life.

Another repeat order has been received for one of the company's Rotabelt dewatering units, this time from a mill in Europe. The unit allows high vacuum levels to be applied without the risk of stalling the machine forming fabric. A similar unit at the mill has been running successfully for some time, leading to the decision to place a second order.

RPM is currently completing deliveries of wide ranging equipment for a mill in East Asia manufacturing specialist high-value products. Equipment supplied includes a dual-layer former, an upward dewatering unit, electrically heated drying cylinders and a reel-up with precise web tension control. Also, an order for a reel

drum has been received from a paper mill in South America with RPM's in-house manufacturing being a factor in its gain.

In the UK, the company is currently commissioning a new forming section featuring a headbox with radial distributor for producing specialist board grades. RPM also supplied equipment for the approach flow system and a range of process tanks.

Chris Wright says that one of



A European mill has ordered a further Rotabelt dewatering unit from Reiss Process Machinery

the company's main strengths is its knowledge and capabilities within the specialist paper and non-paper sectors and that this, coupled with having its own fully in-house design and manufacturing facilities, enables it to respond and adapt to a wide range of customer requirements.

Andrew has been with Poole Projects for five months and is already playing a key role in the process design of one of its major ongoing projects. Andrew said, "I am delighted to have joined Poole Projects and I am thoroughly enjoying working with some of the most experienced and knowledgeable people in the industry."

Paul Stoney, Poole Projects Operations Director, says "We have been lucky to find someone of Andrew's calibre at a young age. This is reflected in the quality of his work and his attitude towards developing his own skills and knowledge. Our business is built on the quality of our engineering team and as we continue to build and improve this

team we can continue to provide our customers with the high-quality engineering and project management support they are looking for."

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An introduction to Reel Solutions

◀ David Jobson of Reel Solutions Ltd

Recently Reel Solutions had a stand at the PPMA Show 2023 exhibiting Dotec reel and box handling systems, Svecom shafts and chucks, Bilstein slitting systems and CE Nordic reel pushers



Reel Solutions Limited might be thought of as a new venture and as a company it is, but its owner, David Jobson, is well known in the industry and has previously been a member of the BPMSA for over 15 years, a member of Picon's Council and worked in the paper and tissue industry for over 30 years.

Reel Solutions started in late 2021 to supply equipment and servicing to the converting, paper and tissue industry in the UK, using the real experience gained supplying and installing equipment.

A number of UK and European suppliers were interested in collaborating and presently Reel Solutions works with these companies.

- Bilstein - slitting knife holders, blades and regrinds
- Compact Engineering - IR drying and heating systems
- CFE Nordic - robust and reliable reel pushers designed for the paper and tissue industry
- Dotec - reel and box handling systems
- KV Rollers - all types of steel and rubber rollers

- ST Machine - headboxes, stock preparation equipment and water treatment systems
- Svecom PE - suppliers of the lightest air shafts through to the largest reel spools and shaft handling equipment
- Tecnomec 3 - bowed and brush roll suppliers, recovering and repair of any make of bowed roller
- Turnbull & Scott - industrial heating and heat recovery systems

The company carries a full inventory of spare parts for same day despatch if required and understands and is able to advise on why you may be buying the same spare part, month in month out, and how this can be changed.

Reel Solutions provided with real experience!

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Gardner Systems joins Deublin Company

Deublin Company, a leading provider of steam joints and syphons for the paper industry, announced on 17 July 2023 that Gardner Systems has joined Deublin. This broadens Deublin's capabilities in the design, supply, and installation of steam and condensate systems for paper machine dryer sections.

"We are excited to welcome Gardner Systems to the Deublin family," said Roland Rauch, interim CEO of Deublin Company. "This alliance will allow us to offer our customers complete turnkey services for rebuilding or optimising paper machine dryer sections. Gardner Systems has been a leading supplier of high-quality steam and condensate systems to the paper industry, and this will enable Deublin to serve our customers as a complete solution provider."

Gardner Systems is a leading provider of steam and condensate systems for the paper industry and was founded in 1967 and is headquartered in Appleton, Wisconsin, USA. The company

employs a team of experienced engineers and technicians who can design and install steam and condensate systems that meet the specific needs of paper mills.

"We are proud to join the Deublin team," said Steve Letwin, President of Gardner Systems. "Deublin is a recognised leader in steam joints and syphon systems, and we have been reliable partners for 25 years. Joining forces will increase the benefit for our customers. We are excited to work with Deublin to continue to provide them with the best possible service."

As a company of the Hoerbiger Rotary Business Unit, Deublin is a leading provider of rotary unions and slip rings for a wide variety of industrial applications and manufacturing processes. The company was founded in 1945 and is headquartered in Waukegan, Illinois, USA. Deublin has a team of experienced engineers and technicians who can design and install systems that meet the specific needs of manufacturing plants.



Deublin Company announces Gardner Systems has joined it and will broaden the company's capabilities in steam and condensate systems

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Salvtech is the main sponsor of the HeadGuard mental wellness initiative at Chester RUFC Mini and Juniors section

Wellbeing initiative sponsorship is invaluable

Understanding thermocompressors

Thermocompressors boost low-pressure steam to higher pressures for reuse in multiple applications, maximising energy efficiency by retaining the energy in low-pressure steam, while increasing its pressure by mixing in high-pressure steam. Although they are often used in paper machine steam systems, the differences between a 'recirculating' thermocompressor and a 'boost' thermocompressor are not often understood.

Recirculating Thermocompressors -

Recirculating thermocompressors are used to control the drainage of condensate from steam cylinders. When differential pressure is required to drain the drying cylinders, the pressure control loop sends a signal to the thermocompressor, increasing both the amount of vacuum generated in the suction port of the thermocompressor and the differential pressure available for draining.

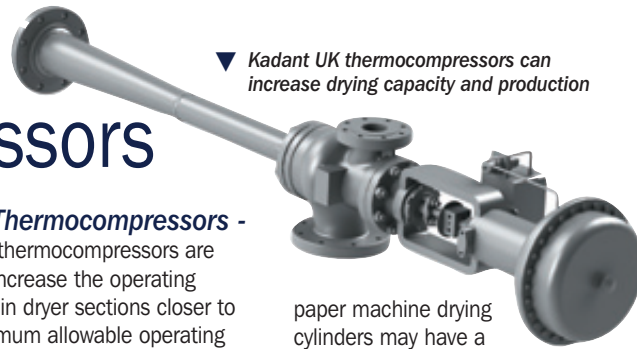
The thermocompressor creates a suction pulling steam and condensate through the drying cylinders. Both are passed to the dryer section separator tank where they are separated. The steam from the outlet of the separator is connected to the suction side of the thermocompressor, where the low-pressure created in the unit pulls the steam in and mixes it with higher pressure steam. It is then returned to the same dryer section at operating pressure. The steam that flows through the drying cylinders has been recirculated within the same dryer section, creating an efficient, closed steam loop.

Boost Thermocompressors -

Boost thermocompressors are used to increase the operating pressure in dryer sections closer to the maximum allowable operating pressure of the cylinders. This increase in pressure directly increases heat transfer and thus increases the machine drying capacity and production potential.

In many mills with co-generation turbines, there is a low-pressure steam extract from the turbine which feeds the paper machine, and a medium-pressure steam extract for higher pressure applications. The

paper machine drying cylinders may have a higher maximum allowable operating pressure than the low-pressure steam extract, but a lower allowable operating pressure than the medium-pressure steam extract. In cases where there is some margin between the maximum operating pressure of the cylinders and the low-pressure extraction, it can be efficient to install a Kadant boost thermocompressor, which uses



▼ Kadant UK thermocompressors can increase drying capacity and production

medium-pressure extraction steam as the motive steam supply.

The thermocompressor entrains the low-pressure extract steam into the suction side of the thermocompressor and discharges it to an intermediate pressure close to the maximum operating pressure of the cylinders. The lower pressure steam to the drying group has been boosted using the minimum amount of higher-pressure steam needed, giving additional drying capacity to the previously limited section.

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Excellent results with Compact's Corona dryers

Compact Engineering Ltd has installed its Corona infrared dryers on PM 1 at Model AG at Weinfelden in Switzerland with excellent results.

The sheet on the machine is run a little too wide for the effective width of the drying cylinders and this resulted in baggy edges where the sheet stiffness is compromised by the excess moisture in the edges of the sheet.

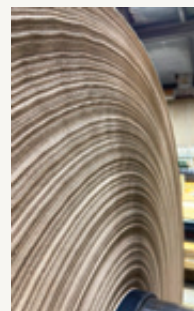
When making paper, papermakers restrain the sheet as it dries, paying particular attention to a narrow band of solids contents

where the sheet undergoes a large majority of its shrinkage. If the shrinkage takes place in different machine direction locations, then the sheet will end up with stresses in it which will lead to a lack of stiffness. Sheet deformations impact on the success of the converting operations and reduce converting efficiency.

Model Paper decided that the proper solution needed some thought and worked with Compact Engineering to identify the best place in the machine direction to remove the excess moisture from the sheet.

Compact's Corona dryers were installed on two cylinders before the size press to shrink the sheet at the same point in the machine direction, improve the moisture profile and moderate size pick-up at the size press. The edge dryers each have four control zones of 37.5mm width, providing a fine control resolution for optimum quality.

The improvement in product quality was immediately apparent after the IR was switched on, these improvements in the finished product being clear to see. The dryers from Compact Engineering have now set in place the possibility of machine speed increases in the future.



◀ The sheet with uncorrected moisture profile with slack edges



Installation of Compact's Corona dryers has corrected the profile giving nice sharp edges ▶

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Salvtech Ltd has announced it has become the main sponsor for an exciting new initiative supporting the mental well-being of players, coaches and parents involved in the Chester Rugby Union Football Club Mini and Juniors section.

Gemma Morton, the driving force behind the initiative said, in a statement on behalf of the club, "Chester RUFC Mini and Juniors

section are really excited to get our HeadGuard mental wellness programme off the ground thanks to the partnership with Salvtech.

Our programme will make a difference to the 600+ players we have in our youth section by being able to incorporate mental and emotional wellness into our physical training sessions with trained mental wellness coaches.

The sponsorship that Salvtech has provided is not just limited to educating and supporting our youth players but will also help enhance our coaches' skills in being able to identify areas of concern and give constructive and accurate guidance where needed ... valuable skills to be added to their coaching kit.

The belief and support Martin and the Salvtech team have

shown by sponsoring our project is invaluable and we are really pleased to be able to grow our mental wellness project and make a huge difference to many families."

Salvtech Ltd

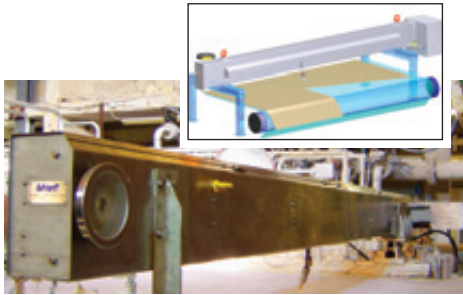
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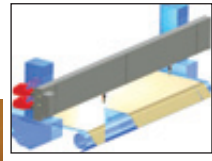
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◀ Weingrill tail cutter (TCU-1) with single nozzle



Weingrill tail cutter (TCU-2) with double nozzle ▶



Tail cutters for wet sections - single versus double nozzle

Time saved after a sheet break gives higher machine efficiency so with the Weingrill Tail Cutter systems, available in the UK from Jarshire, manual operation is replaced with a fast programmed and automatic sequence. The use of an automatic tail cutter allows increased machine availability, optimised machine efficiency and operator safety during sheet breaks. Weingrill offers two systems, the single tail cutter with a single movable nozzle (TCU 1) and the double tail cutter having two movable nozzles (TCU 2).

The single tail cutter is a typical application for the majority of paper machines. In normal operation the nozzle is at the back of the machine and when a sheet break occurs the nozzle moves to the front side and stops at the tail position creating a paper tail, 150-200 mm wide used for threading.

Two separate external trim squirts cut each edge of the paper on the wire into a small band which goes into the couch pit and two other internal squirts cut the paper width as required at the reel. The operator can adjust the internal widths to suit but the external trims are usually fixed.

The double tail cutter is more flexible and is used where continuous paper width changes are required. Two nozzles continuously cut the paper with positions that can be easily adjusted remotely whilst the external squirts do not need adjustment. The remote

control also allows movement of the paper sheet towards the front or backside as required.

In normal operation the nozzles are near the front and back side cutting the paper. When a sheet break occurs the back side nozzle moves to the front side and stops at the tail position, creating a paper tail, 150-200 mm wide used for threading.

The double tail cutter provides automatic positioning of the edge trims and includes the basic tail cutter features. Both cutter versions provide performance and efficiency, the single cutter being used for a machine that rarely changes paper width whilst the double tail cutter would be applied on a machine with continuously changing paper widths.

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Fan service team targets market leadership



Fan service growth at Salvtech has created a technology and recruitment drive ▶

Salvtech Ltd has recorded a fourth year of growth in fan service work as the team targets market leadership in Energy from Waste (EFW) fan services.

Providing services to both the UK paper industry and the EFW sector, the Salvtech team has taken on several new service contracts in the last year as well as retaining all its existing contracts against stiff opposition from major engineering brands.

Jack Woodward, Salvtech Service Manager said, "We continue to focus on individual engineering skills and delivering high quality site work in which the team has risen to the challenges. The next task is to grow the site team to meet the demands from the market. We have put a training programme in place involving around 40 modules. These range from formal external

qualifications to internal knowledge and quality modules which make sure that everyone we send on site has a deep understanding of the job they need to do."

Martin Christmas, Salvtech's Managing Director said, "We have also invested in new hardware and software such as additional Digivibe vibration analysis equipment, more advanced laser alignment equipment and Joblogic software. The aim is to make sure that when Salvtech engineers visit site, they have world class skills and tools at their disposal to ensure they perform to the highest standards."

“ ... when Salvtech engineers visit site, they have world class skills and tools at their disposal ... ”

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Training and development continues at Walmsleys

Walmsleys Limited is utilising support and funding offered by Picon and the BPMSA to upskill staff. A programme of training and development started in 2022 with a trainee service engineer completing key practical modules at Alliance Learning in nearby Horwich. The trainee is now following a tailored development plan which will provide

the necessary training, development and opportunities that will enable a full and active role within the service team.

In 2022/23 the company hosted a T-level student for work placement which was beneficial to both the student and Walmsleys. An introduction to 3D modelling software and 2D draughting was provided which was picked up

Paper industry helps support thriving workforce



Jim Davidson (left), Ben Vance-Daniel and Belinda Guo

Turnbull & Scott (Engineers) Ltd recently welcomed Belinda Guo to enhance its digital marketing expertise. Belinda joined the company as a marketing intern, thanks to a Picon sponsored internship scheme. Sam Rippin, Marketing Manager commented, "The internship scheme allows us to elevate our content creation ability and continue to grow."

Belinda is a master's student at the University of Edinburgh, majoring in Digital Sociology and holds a bachelor's degree in social work

from Beijing University of Technology in China. After joining Belinda said, "This is an amazing opportunity and has given me the chance to work for a dedicated Scottish business and better understand the marketing strategies in a business-to-business organisation."

In line with the company's investment in people, Turnbull and Scott was also delighted to welcome Ben Vance-Daniel as sales manager. Ben, an accomplished manager with a

proven track record in engineering, brings a wealth of experience to the Turnbull & Scott team. Before joining the company, he worked for five years as a design and project manager for Vessco Engineering, manufacturers of large pressure vessels and heat exchangers. He stated, "I am excited to join the highly skilled team at Turnbull & Scott and look forward to helping ensure the company's continued growth."

With a rich history spanning 90 years, Turnbull & Scott understands

the importance of nurturing its staff, a culture epitomised by Jim Davidson, Engineering Manager, an integral part of the team for 40 years. With exceptional commitment and expertise, Jim has contributed to the growth and success over the years. He commented on how different work is now to when he started by saying, "Technology has transformed our work beyond recognition. We now rely less on manual calculations, blueprints, and physical prototypes to design and build products. Today, we have powerful computers, simulation software, and 3D design capability to innovate at a pace we couldn't have imagined."

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Picon/BPMSA dinner held in historic vehicle museum



Bettine Pellant, Picon CEO



Picon Chairman, James Boughton

Following the dinner, musical entertainment was provided by Tony Hadley, former lead singer of the 1980s new wave band Spandau Ballet, who launched his solo career after the group split in 1990.

On 23 June 2023, eighty couples from Picon and BPMSA member companies enjoyed a prestigious black-tie dinner in the surroundings of the British Motor Museum at Gaydon in Warwickshire, UK.

The Museum is celebrating its 30th anniversary this year and participants were able to view the world's largest collection of historic British cars prior to dining in the venue's Sky Suite.

BPMSA member companies represented were Compact Engineering Ltd, Jarshire Ltd, Kadant UK Ltd, Poole Projects Ltd, Salvtech Ltd and Turnbull & Scott (Engineers) Ltd.



without difficulty. Walmsleys has now agreed to host another T-level engineering student in 2023/24 for block release over 45 days.

Part of the commitment to staff development saw 14 members from various departments complete a 3-day first aid training course over the last four months. Given the travel and site commitments, it is important that as many staff as

possible are able to render first aid. All complimented the trainer at Alliance Learning for interesting and engaging presentations.

Finite Element Analysis (FEA) is a key analytical tool used regularly to verify design concepts and one engineer recently completed an advanced FEA course at SolidWorks. This additional training has increased their capabilities and

allowed an increase in the amount of work that requires FEA to be carried out. This includes static analysis, thermal and frequency response.

Another course promoted by Picon was social media use for businesses. In this digital age, Walmsleys wanted to upskill a younger member of staff to help develop its online presence.

All in all, it has been a busy time for training which will continue in 2024.

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▲ The new Svecom 640/PQL reel spools are proving to be a success at Pelta Medical Papers

Reel spools for Pelta Medical Papers

The operations manager of Pelta Medical Papers, Mark O'Shaughnessy, was examining the feasibility of winding reels of paper on cardboard cores on his paper machines. The project would be to determine if productivity and efficiency of the machines could be increased by storing reels on cardboard cores and processing them through the winder as required rather than stopping the paper machine. The benefits of Svecom PE expanding reel spools, based on experience in supplying reel spools to the paper and tissue industry in the UK, were explained. A reference visit was arranged for Pelta to see Svecom pneumatic reel spools running and get first-hand experience from operators and engineers on their benefits.

Following this visit the design of the pneumatic spool, journals and bearing housings was agreed on and an order placed for two Svecom 640/PQL pneumatic reel spools. Following delivery to the mill Mark reported, "I am delighted to say that the reel spools are working wonderfully well, so the project looks to be a huge success."

Following this success, Reel Solutions was approached by Pelta in 2022 for an additional two Svecom pneumatic reel spools and a non-expanding batching spool. A project meeting was held to discuss if any of the application requirements had changed. It was decided to have inflation and deflation at both ends of the pneumatic reel spools

so the operators could work from either side of the paper machine. Also confirmed was that the original two pneumatic spools had run since start-up with no lost time and no requirement for any spare parts! This second order of reel spools has recently been delivered and was put into production straight out of the box.

Reel Solutions offers a complete service to customers, from original concept through design and production to delivery. Once delivered it keeps a complete inventory of spare parts if required and offers a full maintenance and service package in the UK. Reel Solutions with Svecom reel spools provides a real solution with unrivalled experience to the paper and tissue industry in the UK.

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Systems integration from the leaders - IAC

Industrial Automation & Control Ltd operates from state-of-the-art facilities in Newport, South Wales, and is one of the leading industrial control systems integrators in the UK. In Newport it employs around 65 people and has a further 30 personnel around the world. Dedicated to delivering technology and service solutions, the company aims to help improve process lines in a wide variety of industries. The industry has matured a great deal since it commenced operations back in 1989 and during that time several businesses have come and gone, but IAC still remains highly recognised for delivering diverse and versatile systems.

The company's expertise covers the application and manufacture of variable speed drive systems, along with vast experience in PLC and SCADA design. And its engineers possess over 700 man years of knowledge dating back to the 1970s with the company being approved and authorised as proficient in the use and application of equipment manufactured by the world's leading electrical manufacturers.

IAC is in business for the long term and can be your working partner and dedicated solution provider for the life of your business. The company believes that the correct drives and process solutions are key to enabling you to meet business challenges and use them to gain a competitive growth advantage. And with a proven history of using major brand technologies, it is able to provide integration expertise on a global scale.

The company provides dedicated teams for project management, applications, installation, commissioning, and service. And during the project design cycle can provide dedicated hands-on training for all standard as well as application specific products, plus its after sales service division is there for you with 24/7/365 support.

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Pump installation by Salvtech will help future-proof the mill

Tissue mill trusts Salvtech for pumps and screen baskets

Scottish Minister joins the celebrations

In August 2023 Turnbull & Scott (Engineers) Ltd welcomed Gillian Martin, the Scottish Minister for Energy and the Environment, along with other distinguished guests, to celebrate its 90th anniversary at its Hawick factory. Guests were given a guided tour of the factory along with a timeline of the company history including artefacts and documents, many unearthed from corners of the old factory vacated in the early 2000s. Other items had been generously contributed by veteran members of staff. Over 30 guests attended the event and as they learned about the history of the company they were also treated to freshly baked goods and

homemade jams provided by local suppliers. Much value is put on the path that led Turnbull & Scott to where it is today, evident on the company website where stories and photos have been shared to illustrate the pride it has in its long history. Pages tell the story of how the company was formed including the discovery of a fascinating tool recovered from Germany during the second world war. In addition, staff stories dating back to 1993 are available to read with more to be added in future. If any readers involved with Turnbull & Scott over the years have a story to tell please get in touch as it is keen to feature more experiences on the history pages.



Gillian Martin, the Scottish Minister for Energy and the Environment, joined Turnbull & Scott as it celebrated its 90th anniversary

During the visit, the Minister praised Turnbull & Scott's efforts in supporting customers on the journey to Net Zero, stating, "Some might speak negatively about the chances of working toward Net Zero, but Turnbull & Scott is living proof that companies can adapt to this way of thinking. It is great to see a Scottish company doing this while encouraging local workers and

apprentices to be part of it."

For the future, the company will continue its 'Journey to Net Zero' by bringing Net Zero to its customers. From the wide adoption of energy efficiency measures to partial or full energy transition activity, it will work directly with end-users, or ESCOs and EPCs, offering a wide

range of products and services to support customers' carbon reduction plans.

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Safety distance determined simply and quickly



◀ The free Safety Distance Calculator is available to download at www.pilz.com

The new browser-based software tool Safety Distance Calculator from Pilz enables users to calculate safety distances for all common safety light curtains on the market simply and quickly ... and free of charge. The digital calculation tool uses the values entered to determine the necessary safety distance and suggest the appropriate light curtain in each case. Users can choose between the different types from the product range of safety light curtains

PSENopt or PSENopt II. Looking for the appropriate light curtain is significantly faster, saving users time. Using the calculator to work out the distance is beneficial in industry sectors such as custom machine building, where the safety distance needs to be recalculated frequently.

Users can download the tool online via the Pilz website. The intuitive Safety Distance Calculator provides additional information on the individual calculation steps,

such as calculating the minimum distance for example.

From safety level to the right product - the free calculator enables calculations to be made for an application for vertical protected fields (perpendicular approach), and for finger, hand and body protection. Based on the required safety level, users receive an appropriate product suggestion for their respective application, designed in accordance with either ISO 13849

or IEC 62061. Integrated information points with in-depth explanations provide support with the search and a graphic representation illustrates each calculation to make it easy to understand.

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A UK tissue mill has placed a repeat order for process pumps for its new stock preparation system supplying a new machine. The pumps, from the LMS centrifugal range, have been sized by Salvtech's engineers using the SPAIX pump sizing software provide by the German pump manufacturer Lotzer & Muhlenbruch (L&M Pumpen). The

software was used to model the current and potential future flows and pressures required by the mill, meaning the pumps selected give the best possible efficiency now, whilst future-proofing the mill for later expansion.

In addition to the new pumps, the mill has placed orders for new slotted and perforated

screen baskets from AFT to upgrade existing centrifugal screens which are to be re-used. These will be installed in the new stock preparation system to ensure high quality fibre with minimal losses on the tissue machine. The mill project engineer provided feedback to say that the ongoing technical support given over recent years was a

major factor in making the decision to award these important orders to Salvtech.

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Customised drying and heating solutions

The Ircon-Solaronics Gemdryer IR drying system installed by Jarshire and Solaronics at Filtrix Carson, Barnoldswick, UK



Solaronics designs and produces customised drying and heating solutions based on infrared, air, and microwave technologies for a wide range of industries and applications. It can satisfy any process requirements from individual units to complete turnkey packages whilst making customers central to its operations.

Available in the UK from Jarshire Ltd, Solaronics equipment is installed in a range of projects such as new production lines, upgrades to existing lines, rebuilt lines for increased capacity, reduced operating costs or adding further flexibility or quality

improvements. Service support includes installation, training, maintenance, and spare parts supply.

Dedicated process engineers spend time studying customers' production lines, learning their requirements and implementing these into future products whilst also taking care of guarantees and performance. Drying expertise is consolidated into simulation tools based on customers' processes. If new developments or specific trials are required, Solaronics solutions are available in a selection of pilot plants all with R&D capacity.

Company expertise covers installation, maintenance,

automation and integration of its solutions into customer plants whilst making sure regulatory compliance on safety, quality and the environment are all satisfied.

Jarshire and Solaronics have worked together for many years installing small to large systems, its latest installation being for filtration and solid/liquid separation company Filtrix Carson, Barnoldswick, UK where the team installed an Ircon-Solaronics Gemdryer IR drying system. The new installation is part of a large upgrade project and Lee Waring, project manager for global capex, is delighted with the system.

Ircon-Solaronics has been

manufacturing non-contact drying solutions for the paper and tissue industry for more than 50 years. Its state-of-the-art infrared dryers improve paper quality and optimise energy use with minimal operating costs. Designed with flexibility and ease of operation, systems can be integrated into any size of manufacturing process.

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Pilz offers tailor-made validation based on need

Three levels of independent safety validation are now offered by automation expert Pilz ▶

The range of services offered by automation company Pilz for the safety validation of plant and machinery is now tailor-made according to need. Machine manufacturers and operators can now choose between three

different levels, selecting the scope and depth of validation that matches their exact needs.

After risk assessment, creation of the safety concept, the safety design and then system implementation, safety validation is the final step towards safe commissioning of

plant and machinery. It is intended to ensure that protective measures are implemented correctly and that the safety system is fully functional.

International standards such as ISO 13849, IEC 62061 and IEC

61508 form the basis to specify that machine manufacturers or operators must regularly confirm that the safety design has been implemented correctly.

However, the requirements may vary depending on the specific application. Pilz provides support with tailor-made validation

and, for this purpose, has extended its range of machinery

“ At all three levels, machine manufacturers and operators benefit from the specialist knowledge of Pilz experts. ”



safety services. Based on proven methods and many years of expertise in validation, the automation expert is now offering independent safety validation in levels of varying scope.

While Level 1 validation contains a basic check, which highlights the key non-conformances, Level 2 carries out a more thorough examination, particularly in the area of functional safety. This guarantees that the machine provides adequate safety measures. Level

3 validation service is an intensive, detailed conformity check, as required for CE conformity. At all three levels, machine manufacturers and operators benefit from the specialist knowledge of Pilz experts.

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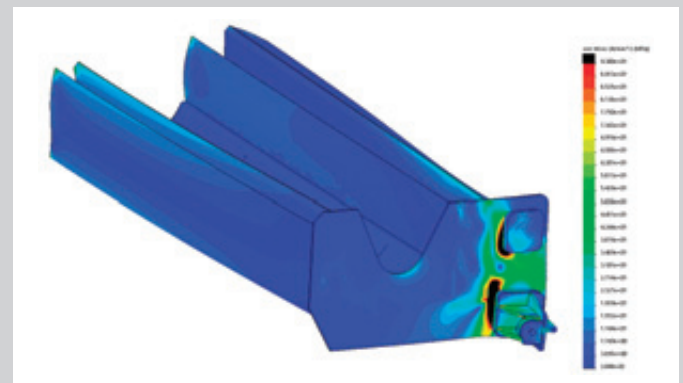
Rebuilt coater now has problem free operation

Walmsleys Limited recently visited a customer having issues with leaks from an old Beloit coater installed in the early 1980's. The coater pan was found to be split due to insufficient control of the hydraulic raise and lower system and following years of in-situ repairs.

Walmsleys engineers assessed the pan and load system and found that the pan, raise/lower arms, hydraulic valves, and the main pins and bushes required replacement. To ensure future operation repeatability, reliability and no leaks, significant upgrades were required.



New equipment pre-assembled prior to site delivery



Finite element analysis completed by Walmsleys engineers



Problem free operation after the rebuild

Sustainable Development award winners 2023

Everyone at Turnbull & Scott is honoured to have been recognised by Scottish Engineering as the 2023 Sustainable Development award winners. The company is committed to investing in the continual development of innovative products and in its dedicated workforce to enable customers to address their comfort

Murphy said, "We are delighted to be receiving this award in 2023, the year we celebrate our 90th birthday. We have been quietly helping our customers reduce their heat energy consumption for much of that time and to receive the Sustainable Development award is a huge honour, particularly this year with so many companies doing innovative



The Turnbull & Scott team at the Scottish Engineering awards

or process heating, drying, cooling, chilling, and energy saving challenges. It is also passionate about helping its customers work towards a Net Zero future by supplying commercial and industrial electric space heaters, flue gas, refrigeration systems, process air and steam heat recovery and re-use systems, and most recently, heat storage solutions.

engineering to solve the climate change challenge."

Winning the award rounded off a great week for the company last May after exhibiting at the 2023 All-Energy event in Glasgow. Sam Rippin, Marketing Manager said, "It was great to connect with so many amazing people across the two days and discuss creative ways we can help customers with energy saving challenges."

This award comes as a great birthday present for the company as it celebrates its 90th anniversary this year and reaffirms its belief that it is on the right track for another successful 90 years ahead! Managing Director, Peter

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The new equipment and components were designed to achieve the customer's requirement whilst replacing as little as possible to make the upgrade economically viable. A full site survey took place and the design was carried out using SolidWorks 3D CAD system with full FEA and calculations being completed by Walmsleys experienced and qualified engineers.

by testing, commissioning and start-up support.

The resulting design was manufactured and pre-assembled before being shipped to the mill site where installation was carried out by Walmsleys personnel, followed

This project again shows that older, problematic systems and machine sections can be rebuilt and upgraded without incurring the cost of a full replacement, while benefiting from problem free operation following a comprehensive rebuild.

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It's a new challenge at Kadant UK

With an impressive 11-year journey at Kadant UK, Phil Eastwood has demonstrated remarkable growth in his career. When Phil initially joined the team, he played a crucial role in overseeing day-to-day manufacturing operations, which equipped him with an in-depth understanding of Kadant's extensive range of high-performance doctor and roll cleaning blades.

After then gaining experience as a service technician and design draftsman in Kadant's engineering office, Phil transitioned into a sales role, an area he found most fulfilling. As his career continues to evolve, Phil has now assumed the challenging role of Industrial Business Development Manager.

"The role of industrial business development manager requires a range of activities that can change daily," says Phil. "This includes key account management, meeting customer needs, and nurturing and expanding client relationships. Discussing new solutions with existing customers and project parameters, as well as maintaining existing equipment is also a major element of the role."

Phil is no stranger to regularly meeting valued customers and tackling field challenges head-on. One major challenge Phil aids with is helping customers maximise their production output. "Minimising machine downtime, optimising operator maintenance and cleaning processes, and enhancing product



Phil Eastwood takes on a new challenge as Industrial Business Development Manager at Kadant UK

quality are all key drivers when it comes to maximising production output," Phil explains. "Kadant products are specifically designed with these objectives in mind. Meeting the demand for increased machine speed without compromising machinery and quality can be highly challenging. However, in the paper industry, even small improvements can translate into significant profitability for our customers. Recommending the right blade solution, for instance, can lead to improved runnability and reduced blade change frequency."

The entire Kadant team extends its best wishes to Phil as he embarks on this new role.

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The vital role of E&I and control engineering

In today's paper industry with an ever increasing level of automation, electrical, instrumentation and control engineers play a vital role in projects undertaken. Poole Projects success in delivering outstanding bespoke solutions to meet clients' needs is having an ability to offer all aspects of engineering design and project management, including electrical and instrumentation services. The scope of these can vary greatly between office design only through to full turnkey installations including commissioning and on-going optimisation.

Depending on the type and scope of projects, the electrical design team can be involved in low, medium or high voltage distribution, including equipment specification such as transformers, MCCs, inverter drives, motors, preparation of detailed specifications and cable sizing using in-house AMTEC software. And the control and instrumentation scope varies anywhere between specifying and supplying individual field

instruments, through to full PLC SCADA and DCS control systems. Over the last few years Poole Projects has also completed several DCS replacement projects.

Following detailed site surveys any new distribution, marshalling and cabling requirements are identified enabling the preparation of a detailed scope of works and installation schedule. This thorough approach at the design stage, followed by a detailed FAT prior to the system being installed, has

resulted in each project being delivered on time and within budget. All of these control system replacement projects required the changeover to be carried out during normal plant operation with no machine downtime.

“... having an ability to offer all aspects of engineering design and project management, including electrical and instrumentation services.”

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Central oil lubrication system installed in Eastern Europe

The new central oil lubrication system delivers 125 litres/min



Walmleys Limited has supplied a central oil lubrication system for a dry part extension at a board mill in Eastern Europe. The system delivers 125 litres/min and has a tank capacity of 2,500 litres. To aid cold start-ups, the unit has three 3kW immersion heaters to warm the oil and a water fed oil cooler to





A new chapter for Jarshire

◀ Jarshire Managing Director Nick Jobson (right) with Business Development Manager, Gareth Lloyd

Sam Williams, Office Manager at Jarshire ▶



The last few months have seen big changes at Jarshire Limited. Gareth Lloyd has joined as the new Business Development Manager, and Sam Williams, a valued member of the Jarshire team, has been promoted to Office Manager at the firm's headquarters in Sonning Common, UK.

Previously, Gareth spent 22 years as an aircraft engineer in the Royal Navy, before beginning his paper industry career as a senior mechanical technician at Essity. He

is now bringing his engineering expertise and extensive industry knowledge to a more customer-facing role, working closely with paper mills in the North of England, Scotland, and North Wales. Over the next few years, Gareth plans to build strong and lasting relationships with Jarshire's clients, both old and new, providing them with cutting-edge equipment to improve productivity and reduce wastage.

When Sam started at Jarshire near the end of 2021, he only intended to stay for a few weeks.

However nearly two years later, he's taking on the position of office manager, and will play a crucial role in developing the business over the next few years. He plans to increase the range of spare parts that Jarshire offers for next day delivery, so it can continue to provide emergency support for clients, whatever the issue.

Nick Jobson, Jarshire's Managing Director, said, "Sam brings his proactive approach and entrepreneurial mindset to everything he does at Jarshire. We

hope that both Gareth and Sam will be part of our team for many years to come." Going into 2024 and beyond, the growing Jarshire team plans to continue providing the highest quality systems and equipment to paper mills across the UK and Ireland.

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Strategic partnerships deliver real world benefits

Salvtech's strategic partnership with CBM Partners offers a technical lifetime support package ▶



As a business, Salvtech Limited has always believed that partnerships with both customers and suppliers are a great way to deliver long-term success for all parties. When two parties feel committed to a relationship, it allows a greater depth of trust and makes investments of time and money in development areas less risky. One

example of this is the strategic partnership between Salvtech and CBM Partners with each company able to develop a range of services that plays to their strengths. Salvtech provides mechanical site services and rotating equipment knowledge, as well as frontline vibration analysis and machinery balancing services. CBM Partners

provides the hardware, training, back-up, and know-how as well as specialist in-depth vibration analysis using techniques such as ODS simulations.

This partnership between suppliers has resulted in Salvtech being able to offer not only site services for shutdowns and outages, but a robust and highly technical lifetime

support package for ongoing condition monitoring. This has meant it has been able to offer key clients a three-year fan maintenance package which includes ongoing remote assets monitoring by installing phantom monitoring systems which talk to the cloud via 5G cards installed at the client's site for the duration of the contract.

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◀ Training on the new equipment was given to mill operation and technical personnel



▶ Rotameters feed each bearing in the dryer section

maintain feed temperature to the dryer section bearings. Oil is fed to each bearing in the dryer section via an array of Rotameter oil flow meters each of which is fitted with an alarm to indicate low flow on the mill's DCS system. The

whole system is controlled by a local Siemens PLC, all of which was also supplied by Walmsleys.

Walmsleys engineers recently visited the mill site to commission the unit and provide training for mill operation and technical staff. This project is part of a larger project co-financed from European Union sources, specifically from the Operational Programme Environmental Quality, called 'Recycling of waste

paper for paper production'. The main project is to increase the recycling rate of waste paper in an innovative way by 70,000 tons/year.

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Advanced roll handling equipment

Reel Solution's partner, Dotec has been at the forefront of developing advanced roll handling equipment for many years, with numerous installations in the UK and worldwide. Dotec's LiftAssist technology stands out for its ease of operation, speed, and ergonomics, hence why it has the name of 'The friendly lift assist'.

Incorporating state-of-the-art roll handling equipment is crucial for companies dealing with the challenges of heavy rolls. Dotec's roll handling systems not only prioritise operator safety but also significantly enhance production efficiency. The user-friendly design allows operators to control all

LiftAssist
technology
from Reel
Solutions



functions with a finger touch. Given the substantial weight, manual movement of the handler can be heavy but its tractor drive is a compact motor that propels it. This automation ensures smooth transitions without manual effort, reducing operator strain with precise roll positioning. A Dotec roll handler is the solution preferred by operators.

Reel Solutions can optimise a solution for your application, provide existing customer visits to see similar applications and, of course, provide back-up and spares if required.



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