



SPM Instrument Launches Intellinova Parallel MB

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In This Months Issue



Contacts

Publisher

Michael Dominguez

Editorial

editors/contributing: Jon Barret, Christer Idhammar

Advertising

Steve Aslett
Paul Miles
Brian Simpson

Production

Tom Britten

Email

Info@engineeringmaintenance.info

Website

www.engineeringmaintenance.info

Phone

tel: +44(0)1634 731646
Fax: +44(0)1634 731644

Address

MSL Media LTD, Cobalt House, Centre Court,
Sir Thomas Longley Road, Rochester, Kent,
ME2 4BQ



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IN SAFE HANDS: BSIF AWARD FOR BRAMMER AND THE ROYAL MINT

A project by Brammer and The Royal Mint to rationalise the use of safety gloves on site and ensure compatibility and safety for employees has been recognised for its success by the UK's leading health & safety industry body.



The British Safety Industry Federation (BSIF) aims to improve occupational safety and protect and develop the safety and environmental protection markets. As part of this, the organisation runs the annual BSIF Safety Awards and, in a ceremony at London's ExCeL Centre on 16 June, Brammer was announced as winner of the Safety Excellence category for its work with The Royal Mint in Llantrisant.

With 33 different types of gloves being used regularly on site by its employees, The Royal Mint was faced with an annual spend in this area of some £70,000. However, the range of products available did not necessarily mean that the most suitable gloves were being used for each task, with gloves often selected on the basis of familiarity over suitability.

Russell Gardiner, Brammer Insite™ Manager based at The Royal Mint, explains the award-winning actions taken to heighten safety for employees: "Brammer joined forces with Ansell, a leading manufacturer of working gloves, to undertake a thorough audit of all areas of glove usage. Chemical analysis was undertaken to confirm the selection was correct, with the chosen gloves then extensively trialed in each working area before a final selection was made. We discovered that 85% of site requirements could be catered to by holding just six types of glove in stock, thanks to the new robust and measurable methodology of product selection."

Gloves are now also distributed on site through Brammer's Invend™ service, an industrial vending system with each machine containing only the

gloves required in each area. With each member of staff having to enter a code before an item is distributed, The Royal Mint now has full visibility of which gloves have been retrieved by which employee – ensuring complete traceability while identifying any areas of excessive use or incorrect product selection.

John Steggles, Contract Manager at The Royal Mint commented: "Best practice in glove selection and usage is now commonplace throughout the organisation. In terms of optimising health & safety practice and reducing the risk of accidents and the associated lost time, the joint Brammer-Ansell project has been an unprecedented success."

In awarding the Safety Excellence prize to Brammer and The Royal Mint, the judging panel noted the 'exceptional and impressive close working relationship' between the two parties, along with the commitment to 'improved health & safety best practice combined with the health & safety benefits of the Invend™ service'.

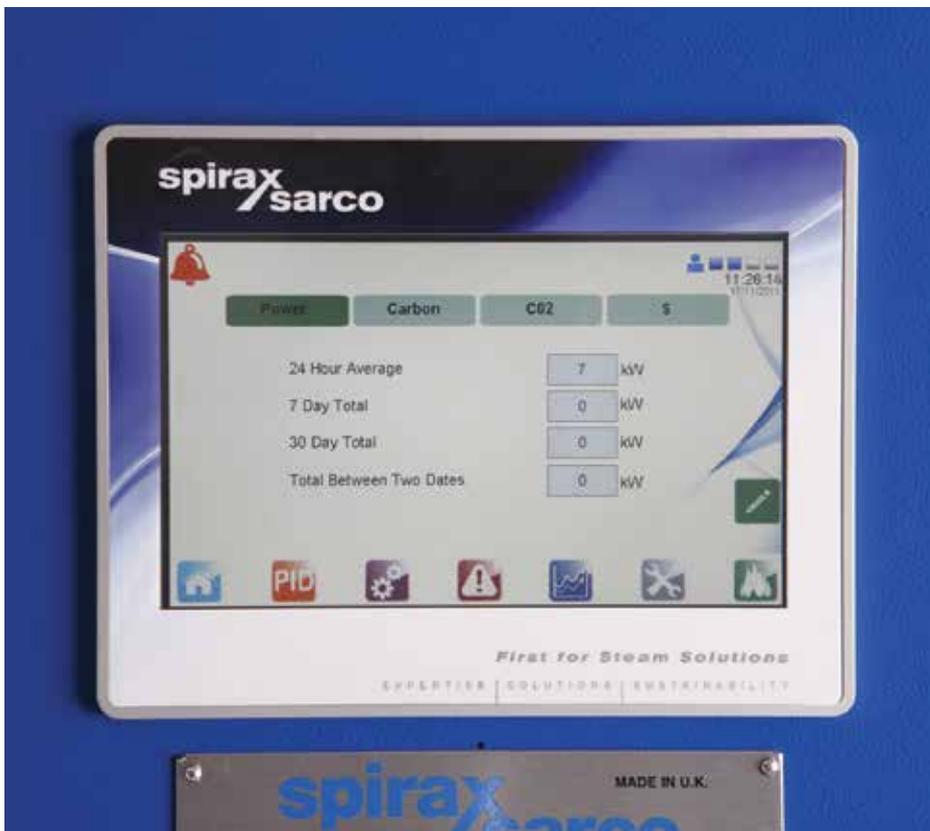
For further information on Invend™ and Brammer's health & safety offering, please visit www.brammeruk.com

For further information on The Royal Mint and its products, please visit www.royalmint.com

SIMS Control Panel Boosts The Energy Efficiency Of Water Heating By Up To 10%

Spirax Sarco has launched the SIMS (Spirax Intelligent Monitoring System) control panel to enable steam users to boost the energy efficiency of their existing EasiHeat™ steam-to-hot-water systems by up to 10%.

exchanger to provide instant hot water for space heating, domestic hot water (DHW), or process applications. The resulting supply of hot water is available on-demand, without the need for a buffer or storage tank.



SIMS is an innovative control and monitoring technology that uses a colour touchscreen interface to deliver key performance data to operators, such as steam use, energy consumption and flow and return temperatures. This enables operators to monitor energy use more closely.

EasiHeat systems typically offer 6 to 10% energy savings compared with traditional systems based on shell-and-tube exchangers. The addition of a

Above: The SIMS control panel will boost the energy efficiency of existing EasiHeat steam-to-hot-water systems by up to 10%

SIMS control panel will deliver up to a further 10% energy saving by ensuring that all the useful energy is extracted from the steam before the resulting condensate is returned to the boiler.

EasiHeat is a ready-to-install engineered system that uses steam in a compact, plate-and-frame heat

The latest generation EasiHeat systems can be supplied with SIMS technology built in. However, the SIMS control panel will appeal to EasiHeat users who want the energy and cost-saving advantages offered by SIMS technology but are not yet ready to replace their existing system. The SIMS panel can be retro-fitted to any existing EasiHeat system, enabling users to bring the cost and energy efficiency of their unit into line with latest generation models.

SIMS technology is easy to integrate into existing plant communications such as Ethernet, BACnet, Modbus, Profibus, CANopen, EtherCAT and DeviceNet. It can also be accessed remotely over the internet or via smartphones.

The system can be set up to automatically send an alarm notification by text or email alerts if an event occurs. SIMS can also alert users when a routine service is due, speeding up service and repairs.

Spirax Sarco
Charlton House
Cheltenham
Gloucestershire
GL53 8ER, UK
Tel: 01242 521361
E-mail: UK.Enquiries@spiraxsarco.com
Web: <http://www.spiraxsarco.com/uk>

RayTemp 6 Infrared Non-Contact Thermometer

The new RayTemp 6 infrared non-contact thermometer is a compact, durable and easy to use instrument, simply aim and pull the trigger to display the temperature of the item being measured over the range of -60 to 550 °C.



The RayTemp 6 infrared non-contact thermometer is competitively priced, at £55 each exclusive of VAT and available direct from www.etilt.com ordering code 814-075.



Each thermometer incorporates an eight dot circle laser indicator, which allows you to precisely target the diameter of the area to be measured. As

you move closer or further from the target the laser circle changes diameter, indicating the measurement area. The unit incorporates a 12:1 optic ratio (target distance/diameter ratio) and features an adjustable emissivity which allows the user to measure a variety of surface types.

The RayTemp 6 has a clear, easy to read, custom LCD display that features a backlight for when ambient light levels are low and an auto-power off facility that turns the instrument off after 35 seconds when not in use, maximising battery life.

The thermometer is housed in a robust IP54 splash-proof case and features a three-button keypad, allowing the user to select °C/°F, display hold or one of the many mode options available, i.e. max, min, differential or average temperature.

For further information contact
Electronic Temperature Instruments Ltd
Phone 01903 202151
email sales@etilt.com
www.etilt.com

BSRIA Holds 60 Year Celebration Reception At The House Of Lords

As a part of their 60 yr celebration BSRIA held a reception at the House of Lords, the event hosted by Lord O'Neill of Clackmannan, a previous Chairman of the BSRIA Briefing was held in the Cholmondeley Room.

The event was attended by representatives of over 100 of BSRIA's member organisations. During the event Lord O'Neill in-conjunction with Tom Smith BSRIA Chairman, presented a commemorative plaque to the representatives of the 22 companies who were the founding members of BSRIA and have retained their membership of BSRIA for 60 years.

"For 60 years BSRIA has provided leadership for the industry, developed people and skills, promoted the advancement of the industry, smart technology and its introduction to deliver a sustainable future, allowing BSRIA to deliver on our mission of making buildings better" said Julia Evans, BSRIA Chief Executive.

"Over the last 60 years BSRIA has evolved to now have offices in France, Spain, United States and China and undertake a wide range of different activities a heritage we should be rightly proud of, but I know that the Association Members and the BSRIA team care passionately about improving our industry and will continue to work together to lead the industry through the challenges of the next 60 years" Julia continued.

During his warmly received opening address to the attendees, Lord O'Neill commented that BSRIA's success for the last 60 years has been in part because of its collaboration with different industry



stakeholders and he commented to the attendees that through the introduction of BIM the rest of the construction industry now needs to adopt an engaged attitude to collaboration - a view well received by the BSRIA members present.

BSRIA Limited
T: +44 (0)1344 465600
F: +44 (0)1344 465626
E: bsria@bsria.co.uk
W: www.bsria.co.uk

GROUP HES APPOINTS NEW GROUP REGIONAL MANAGER IN THE NORTH

Leading hydraulic engineering company, Group HES, recently announced the appointment of Simon Dickinson as its new group regional manager, responsible for business development in the north of the UK.

Based at the Group's Hydraulic Equipment Supermarket's office in Leeds, Simon works across all company divisions comprising Hydraulic Equipment Supermarkets, Branch Hydraulic Systems, HES Tractec and HES Lubemec.



Bringing a wealth of engineering experience to the team, Simon has worked within the engineering industry since university, progressing from technical, mechanical and electrical engineering roles to various senior management positions. His career has spanned concept design, installation and the commissioning/management of complex engineering projects, including hydraulic control systems, and most recently large multi-million pound mechanical handling structures at Qualterhall & Co Ltd. Simon has also implemented health and safety strategies for complex maintenance and installations projects and top tier Comah sites.

For further information visit www.grouphes.com or follow us: @GroupHES

Densoband Aids Prevention Of Concrete Surface Cracking

Winn & Coales Densoband was specifically developed to meet Highways Agency requirements for concrete-to-asphalt joints and asphalt-to-asphalt road joints.

Now, a new use has been found by CLS Civil Engineering of Brigg, Lincs., which does not rely on Densoband's long-term water sealing properties.



Following discussion with Winn & Coales (Denso) Ltd a 55x8mm version of Densoband was used to provide an expansion joint between the concrete and the steel anchoring in a gap in the channel of a steel anchor plinth base for a wind turbine foundation. The purpose was to prevent cracking on the surface of the concrete base to which the turbine is anchored, which can be caused by temperature differences and the vibration that can arise from movement of the wind tower. The Densoband strip also prevents any stone or gravel debris getting into the channel.

Densoband is a polymer-modified bitumen strip whose fundamental use is for sealing joints. Providing a uniform flexible seal, it is ideal for base and wearing course joints that can withstand thermal changes and the movement from traffic load.

Winn & Coales (Denso) Ltd
Tel: 020 8670 7511. Fax: 020 8761 2456
e-mail: mail@denso.net web: www.denso.net

Dialight's New DuroSite Low Profile Linear Lighting Solution Now Meets CE Compliance Standards

The Latest Low Profile Linear from Dialight Is Ideal for Indoor and Outdoor Industrial Applications



Dialight (LSE:DIA.L), the world leader in LED lighting technology, revealed today that the company's new low profile linear lighting product, DuroSite CE Low Profile Linear, now meets CE compliance requirements. The energy efficient, low maintenance luminaire delivers up to 7,000 lumens at 106 lumens per watt and is designed to replace conventional fluorescent fittings in industrial applications.

Available in both 33 and 66 watts, the DuroSite CE Low Profile Linear excels in the most demanding

environments. With its superior design and low profile housing, it not only offers full protection from water, salt and dust ingress but can also be installed in environments with ambient temperatures ranging from -40C to 65C.

"The CE Low Profile Linear is an exciting new product for our international markets," said Roy Burton, Dialight's Group Chief Executive. "With its rugged low profile housing and five-year full performance warranty, it offers our customers

increased energy efficiency and guaranteed savings over the extended lifetime of the fixture.

With a low profile housing and lightweight design, the new linear is easier to install in limited spaces compared to traditional luminaires, and it also allows for through wiring and mounting versatility, as well as ease of installation for a variety of lighting applications. Dialight designed the DuroSite CE Low Profile Linear as a more compact model in response to customer demand for smaller lighting options.

For more information about Dialight's complete industry-leading line of LED lighting solutions for industrial and hazardous locations, including IES files, LM-79 reports and technical datasheets, please visit www.dialight.com.
Sales-europe@dialight.com
+44 (0)1638 665161

Applied Maintenance Technology Ltd. secures Adash distribution agreement for the U.K.!

Applied Maintenance Technology Limited is proud to announce the distribution of Adash vibration products for the U.K.

For a number of years A.M.T Ltd has utilised various Adash products for measuring machinery condition and diagnosing plant failures.

Graham Simpson Managing director and principal consultant at A.M.T. said;

"Our belief in the Adash brand and product is uncompromising. Based on vibration monitoring technology Adash offers a comprehensive range of equipment from entry level to professional systems, hand held measurement to On-line surveillance and protection. The functionality is second to none and the value is market leading. Adash have a strong commitment to continually develop and improve their product range in conjunction with end users."

He went on to add;

"To be able to offer the products we use is a massive positive for A.M.T. This will benefit our supplier and customer base as well as strengthening A.M.T. further as a condition monitoring consultancy and provider."

Earlier this year A.M.T. Ltd was offered the chance to extend the relationship and

become not only a user but a distributor of Adash products to the U.K. market.

A.M.T. were delighted to be given the opportunity and have accepted the U.K. distribution.

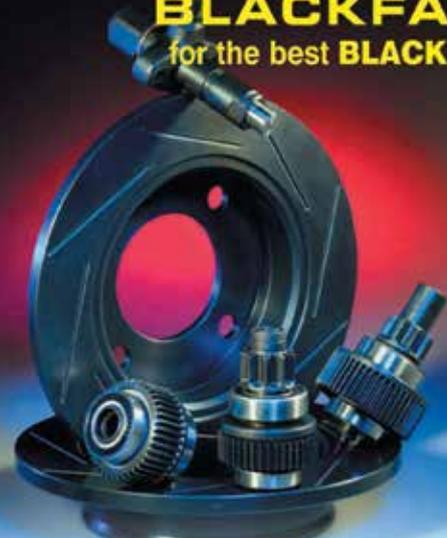
Adash is based in the Czech Republic and have been manufacturing and developing measuring instruments for vibration diagnostics for over 20 years.

The Adash range of products can support all requirements regarding the measurement of vibration and have tools to suit all budgets. Whether you are interested in trying out vibration analysis or a professional user then there is an Adash product for you!

Below is a flavour of what's on offer from the extensive range of Adash vibration products.

- Vibration route data collection
- Outstanding AC/DC multi-channel recording
- Professional analysis (Frequency, Amplitude,Phase)
- Run up/coast down
- Low speed measurement
- Balancing
- Octave analysis
- On-condition Lubrication optimisation
- On-line, Continuous machinery monitoring and protection

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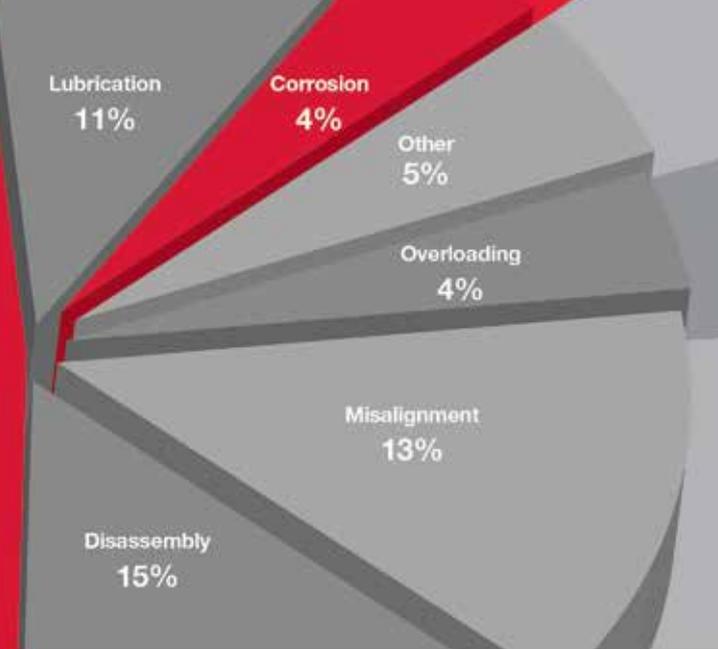
TEST INSTRUMENT CENTRE

Sales, Hire, Repair and Calibration

<p>SOUTHERN Unit 4 Spectrum Business Estate Berrills Road, Moulton, Kent, ME15 9YP Tel. 01622 690187 south@alpha-electronics.com Fax: 01622 678827</p>	<p>NORTHERN 22 Dalhousie Park, Burnley Adlington, Manchester, M6 5DP Tel. 01942 886993 north@alpha-electronics.com Fax: 01942 886490</p>	<p>WALES 7 Riverside Court, Albany Street, Newport South Wales, NP23 5HT Tel. 01633 853803 wales@alpha-electronics.com Fax: 01633 959048</p>
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ACE presents NEWTONLINE

A brand new family of industrial gas springs

Motion control products manufacturer, ACE Controls International has introduced a brand new family of gas springs that will now become their standard product range solution for customers.

Called NEWTONLINE, ACE has managed to integrate several notable innovations in this new generation of industrial gas springs to give customers a higher quality product offering improved performance and lifespan.

NEWTONLINE gas springs are available in cylinder sizes from 15 to 40 mm with strokes from 20 to 1000 mm and force ranges from 40 to 5000 N.

Externally, their striking grooves and graphite-grey UV coating offer performance benefits. The new grooves are not just a superficial design feature; they offer a substantial installation advantage for the user. Alongside improved stability, the two grooves provide better running properties as well as excellent concentricity and centring. Less friction is also produced, which means that the extension force of the springs is immediately available.

The grey UV coating increases the mechanical strength of the tubes and, at the same time, offers improved resistance to chemicals and corrosion.

Internally, ACE has been able to implement five integral enhancements into this new range. A new slide bearing is accommodated in the piston rod's guide. This

results in reduced friction and improved lubrication, leading to less wear and tear.

In addition, the overall guide has been extended by some 50%. This allows higher side load forces than before to be absorbed. This results in safer, longer lasting constructions and lower costs in the long-term thanks to the reduction of failure risks.

The above also supports the use of a new seal in each NEWTONLINE pressure cylinder.

The smooth running pistons with overflow channels are the fourth innovation. The larger passage for the compressed nitrogen gas makes it easier to compress the gas spring without compromising the controlled extension.

And finally, ACE also uses a new valve technology in NEWTONLINE.



Right: The innovative NEWTONLINE grabs attention with their striking grooves and graphite-grey UV coating. ACE design engineers have managed to integrate five more innovations inside these industrial gas springs.

The industrial gas springs that can be individually filled and also filled on-site by customers have a new defined O-ring fitting. This gives more controlled filling and releasing of the pressurised nitrogen gas.

Edward Abbott, general manager of ACE Controls International said: "Our standard 'off the shelf' gas spring range is now greatly improved; offering our customers premium products at realistic prices.

"Product innovation has always been core to our business and this new range together with our ongoing ability to produce bespoke solutions for customers will continue to reflect this."



ACE Controls International, Unit 404,
Easter Park, Haydock Lane
Haydock WA11 9TH
Tel: 01942 727440.
Fax: 01942 717273.
E-mail: info@ace-controls.co.uk
Web: www.ace-controls.co.uk

Vibration Analysis Training That Is More Understandable

Crystal Clear™ training methodology uses hundreds of 3D animations and Adobe® Flash® software simulators that make complex concepts easier to understand.

Mobius Institute, an ISO 17024 & ISO 18436-1 accredited training and certification organization provides highly understandable reliability and condition monitoring training to industry using its Crystal Clear™ training methodology which uses 3D animations and interactive simulators to engage students and make complex concepts easier to understand. The courses exceed the ISO 18436-1 and ISO 18436-2 standards, and ISO accreditation assures that your certification is recognized worldwide. We offer all four Vibration Analyst categories of training and certification:

Category I – Basic Vibration Analysis

For new vibration analysts, people collecting vibration data, and those who want a better understanding of vibration analysis and condition monitoring

Category II – Intermediate Vibration Analysis

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Category III – Advanced Vibration Analysis

For analysts who are confident with spectrum analysis but who wish to push on and learn more about signal processing, time waveform and phase analysis, cross-channel testing, machine dynamics, and fault correction

Category IV – Master Vibration Analysis

Analysts will learn advanced measurement signal processing techniques, including torsional vibration and cross-channel measurements, dynamics including mass/stiffness/damping and natural frequencies, modal analysis and operating deflection shapes, orbit and centerline analysis, rotor dynamics, correction



techniques including isolation, damping, and tuned absorbers, and other advanced topics

Mobius Institute has provided classroom training to more than 16,000 vibration analysts from 153 countries since 2005, and thousands more via e-Learning. Mobius Institute public training courses are provided by authorized training centers in 50 countries, and through Online Learning via the Internet.

For further information please contact:

Mobius Institute

Email: learn@mobiustitute.com

North America: (877) 550-3400

Australia: (+61) (0)3-5989-7285

Worldwide: (+1) 615-216-4811

Website: www.mobiustitute.com

Exclusive PPE Range Launched By Brammer And Buck & Hickman

Q-Safe, a comprehensive range of personal protective equipment (PPE) which provides a 'head-to-toe' solution for manufacturing and industrial environments, is now exclusively available through Brammer and Buck & Hickman.

Compliant with all relevant European health & safety and quality standards, Q-Safe comprises more than 80 different products, covering head, hand, eye, ear and respiratory protection as well as short-life clothing including coveralls, overshoes and aprons.

Representing great value for money, Q-Safe combines guaranteed, quality-controlled protection with a wide range of ergonomic PPE products to ensure wearability and a suitable fit for each user. With a number of different size, fit and colour options within each product range, Q-Safe provides health & safety managers with the confidence that the

individual needs of each employee can be catered for. Q-Safe products are also fully compatible with Invend™ dispensing via vending machines (industrial vending at line side) for a complete audit control of stock levels and PPE consumable usage.

Ian Ritchie, Managing Director of Brammer and Buck & Hickman, explained: "While manufacturers are always seeking to reduce costs, PPE and the protection of employees is one area in which they cannot compromise. Q-Safe provides an effective and viable solution to the challenge of reducing purchasing costs while maintaining a duty of care



to staff members and adhering to stringent health & safety legislation. Offering real value for money, the range is practical and affordable without cutting corners on safety."

For further information, please visit

www.brammeruk.com or

www.buckandhickmanuk.com

Infrared Training Limited

Sister company to The Institute of Infrared Thermography

Infrared Training Limited (IRT) is one of only 3 organisations in the UK that can offer BINDT certified Thermography Training Courses. IRT is the only company that offers training as its core business and is not associated with any camera or equipment sales.

It is a corporate objective of IRT to invest in the company to ensure training remains at a consistently high standard, enabling Global competition with International organisations who offer training in addition to their product sale. Over the past 12 months we have introduced the use of an interactive smart board and hand held iPads to enhance the learning experience. We have also developed a portion of our training material into an online Handbook; this means that students can study 8

hours theory in their own time prior to attending 3 practical training days at our Head Office at Liverpool, whilst still conforming to ISO 18436 and ASNT SNT TC 1A.

As a training organisation we have seen a dramatic increase in students pursuing certification either via third party PCN examinations or second party ASNT report submission. IRT have responded to this by transforming our process for ASNT report submission. With professional web designers, we have developed a section of our website whereby a full Thermography report and supporting documents (letter of verification from supervisor, digital photo and 20 infrared images) can be uploaded and accessed directly for review by one of our experienced Thermography trainers.



Benefits of this include:

- Ease of submission for students.
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For further information contact :
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Pump Refurbishment Completed At A Fraction Of The Cost Of Replacement

A leading petrochemicals company had serious concerns about a badly deteriorated HSC pump.

Prior to entering into the costly process of scrapping and replacing with new, it was sent to leading corrosion protection and engineering services contractor Corroserve for a free no-obligation 'Strip & Report'. The subsequent report highlighted the elements of the pump and impeller that required rebuilding, replacing or cleaning and as a result of this report, Corroserve was contracted to proceed with the work.

Having stripped the pump casing and impeller they were blast cleaned to identify areas of serious internal pitting and erosion. Once pre-machined, the casing internals and the impeller were coated with Corroglass 600 Series which allowed the damaged areas to be rebuilt.

The refurbished impeller was balance checked to BS6861 – g2.5, the pump casing externals coated with Plasmet ZF and Corrothane AP1 and a new shaft, sleeves and casing rings manufactured. The pump was finally reassembled using new gaskets and packings.

This full pump refurbishment was completed at a fraction of the cost of purchasing a new unit. The life span of the reconditioned pump, which otherwise would have been scrapped, has now been extended by in excess of 10 years.

Pump and impeller coating and refurbishment is a key element of the Corroserve service stream.



With its second-to-none engineering, coating and test facilities, the Leeds based company is able to provide a one stop shop for its clients.

Corroserve is a member of the Corrosioneering Group which also includes specialist paints and coatings manufacturer – Corrocoat and research and development division – Corrolabs. Working together, we provide the ultimate 'one-stop-shop' for our customers.

Corroserve
T: +44 (0)113 2760 760
E: info@corroserve.com
W: www.corroserve.com

SPM Instrument launches Intellinova Parallel MB



SPM Instrument, leading worldwide provider of condition monitoring technology and products, now announces the launch of Intellinova® Parallel MB, a new unit in the Intellinova product range for continuous monitoring of rotating machinery.

With parallel-processing capability, Intellinova® Parallel MB is a highly efficient monitoring solution for a broad range of industrial applications.

Intellinova® Parallel MB is a small and robust unit for parallel condition measurement on four channels. With online or offline capabilities, this compact-size unit supports all vibration and shock pulse techniques, including the high definition technologies HD Enveloping® and SPM HD® for superior vibration, lubrication and shock pulse monitoring, providing immediate condition evaluation.

High-performance characteristics and easy configuration

Intellinova® Parallel MB delivers advanced vibration analysis and shock pulse monitoring in a small, high-performance package. Careful hardware design and component selection ensures exceptional response time

and high-efficiency data acquisition, making the system well suited for a wide variety of industrial applications.

The unit is easy to configure, using rotary switches on the front panel. In offline mode, the appropriate settings are selected from a large number of predefined setups stored in an internal configuration file. When operating online, the measurement setup is configured via the Modbus master.

Ideal for operator-based maintenance

For facilities implementing operator-based maintenance to optimize plant reliability, Intellinova® Parallel MB is an excellent candidate for first-line condition monitoring. Run as an offline unit, Intellinova® Parallel MB can be connected for example to an alarm light, siren, circuit breaker or other external device, alerting for fault symptoms such as gear and bearing faults, unbalance, poor lubrication etc. In case of high readings, follow-up

and further analysis can be done using a portable instrument on the unit's isolated signal output.

Trouble-free communication with process control systems

Intellinova® Parallel MB is also easily integrated into existing industrial automation systems via the widely supported Modbus RTU protocol, thus enabling troublefree communication of measuring results to PLCs, SCADA or other process control systems.

SPM Instrument UK Ltd.
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www.spminstrument.co.uk

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HD ENV

spminstrument.co.uk



UK Manufacturing Is On The Up And Its Maintenance Teams Are The Unsung Heroes

Alan Whetstone, Managing Director of ERIKS UK, argues that maintenance teams need to be given a share of the credit for the UK's manufacturing renaissance.



The maintenance teams who keep this equipment working deserve a lot of credit for helping deliver these numbers in often exceptionally difficult circumstances. Because, as industrial technology has taken giant leaps forward over the last decade, our maintenance teams have been stretched ever thinner.

The primary driver of this situation is the complexity of the technology used in modern machinery. A modern servo drive system found in CNC machining, factory automation applications and robotics, to name but a few potential applications, is a much more complex piece of machinery compared to traditional DC or AC motors, particularly in terms of its ability to give motor feedback during operation. In fact, a number of surveys recently have made the point that the outsourcing of maintenance for complex machinery is increasing because of the impracticality of maintenance teams being able to do the job themselves.

What's more the breadth of equipment that is being maintained has grown dramatically. Nowadays the range of equipment used in production environments ranges from air flow equipment through to electrical test, high voltage and gas detection, through to tooling to torque wrenches, calipers and micrometers.

In turn, the complexity of test and calibration equipment has increased to keep pace with this technology and breadth of equipment. Proper

The long term trend of Purchasing Managers Index is now consistently above the 50 point mark which signifies growth – a clear demonstration that the manufacturing sector is in good health.

There are a number of reasons behind this outlook. Whilst short-term factors like the oil price will inevitably have a positive impact, my own view is that the UK is now reaping the benefit of sustained

investment over many years, in part fuelled by low interest rates. This has enabled manufacturers to invest in new state-of-the-art plant and machinery which has increased overall efficiency, productivity and competitiveness.

However, whilst the UK's manufacturing success is cause for celebration, in each factory, process plant and industrial site there are vital contributors to this success who are being, once again, overlooked.

asset management nowadays involves the regular inspection and calibration to ensure safety, accuracy and compliance with the relevant regulations. In effect, maintenance engineers have been hit with a double whammy of an ever growing range of more and more complex equipment.

Whilst there can be little doubt that the maintenance engineer's job has got more and more challenging, there is little evidence that production departments are creating the ideal conditions for maintenance to succeed.

One of the oldest arguments in industry is between production and maintenance, with those responsible for maintenance, repairs and operations (MRO) wanting access to machines in order to perform essential service and repair work, whilst production is unable to release machines because of the inevitable impact on output.

This is the root of the problem, namely maintenance and production teams, which should be on the same side, being pulled apart by conflicting objectives.

In Japan, the model is very different, with the philosophy being for all machines to have an element of spare capacity to allow time for preventive maintenance. This means that if there is a machine breakdown, the idle machine can be brought online and production continued. What's more, it ensures that maintenance engineers can prioritise preventive maintenance work over knee-jerk breakdowns.

My worry, is that in the UK, production targets demand that our packaging machines, conveyors, machine tools and lifting equipment are working 24/7 with no time for proper inspection and



maintenance. For the UK's manufacturing statistics to be in such rude health in these circumstances is nothing short of a remarkable achievement, but I do wonder if we can keep going like this indefinitely.

All of which makes you wonder what would be possible if we actually built-in some machine redundancy time and gave maintenance people the opportunity to dig a little deeper and identify whether a bearing is going to fail, or a spindle is nearing the end of its life or if a ball screw needs changing. How much better would our manufacturing statistics be if we gave our maintenance teams the chance to plan, predict and prevent?

The danger is that our ever more impressive manufacturing output statistics lead to complacency. I don't mean to tar every manufacturer with the same brush, because there are some outstanding

examples of maintenance best practice in the UK, but the truth of the matter is that our maintenance practices do lag behind many of our foreign competitors. In order to maintain our competitiveness we need a change of mindset in UK manufacturing that sees maintenance and production teams working in partnership to shared objectives, which in turn will mean that maintenance is regarded as a vital cog in the production process, and a potential profit generator, not just a cost to the business."

For more information on ERIKS, please visit: www.eriks.co.uk.

Mobile App Brings Industry 4.0 To All Pumps

To help plant operators increase productivity and transparency as well as improve competitiveness across the entire life cycle, Frankenthal-based pump manufacturer KSB has developed an app for smartphones and tablets that can determine the efficiency of fixed-speed pumps in just 20 seconds.



The KSB Sonolyzer app is based on an algorithm that has been integrated in PumpMeter units for five years now, of which well over 30,000 have already been sold.

The smartphone-based application does not require knowledge of the individual characteristic curve nor any additional technical data of the pump set to be measured. However, it can also be used with pumps from other manufacturers. Users can utilise the app to determine the load at which each centrifugal pump driven by a fixed-speed asynchronous motor is being operated. The following data must be entered for this purpose: the motor rating, the rated motor speed, the head and the flow rate of the

The KSB Sonolyzer mobile app allows users to analyse the efficiency of fixed-speed pumps with asynchronous motors in just 20 seconds.

pump. This information can be read from the name plate affixed to every pump.

When the measurement routine starts, the microphone built into the smartphone or tablet is used for approximately 20 seconds to record the noise emitted by the fan of the electric motor. This noise spectrum is then filtered by the application to ascertain the exact speed of the pump set and determine the torque. By correlating the performance data entered by the user with the

hydraulic systems database developed by the manufacturer, the app can conclude whether the pump is operating at part load and lets the user know if any energy could be saved by optimising the hydraulic system or the drive.

The KSB Sonolyzer app is available for the iOS and Android operating systems and can even be used in potentially explosive atmospheres if the smartphone or tablet PC has appropriate protection. The average life cycle of plants used in the chemical industry exceeds 30 years, which is why it is seldom that pumps installed have been connected directly with the Internet. In many cases, users are not even aware of a pump's current load condition.

This, in turn, points to a considerable amount of energy-saving potential that can be tapped by optimising existing pump installations. All analytical data that is uploaded to a secure, cloud-based environment does not reference an individual. The data serves statistical purposes and is only used to further develop and advance the analysis algorithms in the cloud application which is accessed by the app.

Should a user be in need of support or assistance from the pump manufacturer, he or she must actively contact the company. Those interested in the app can download it to their device free of charge via the App Store (Apple) and Google Play (Android).

KSB AG Contact:

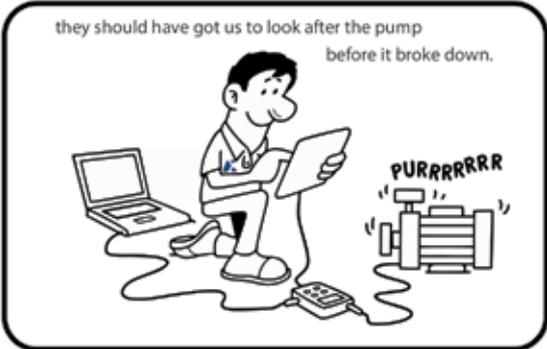
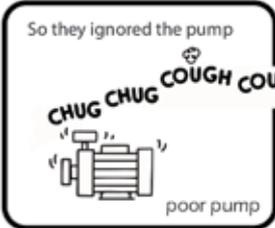
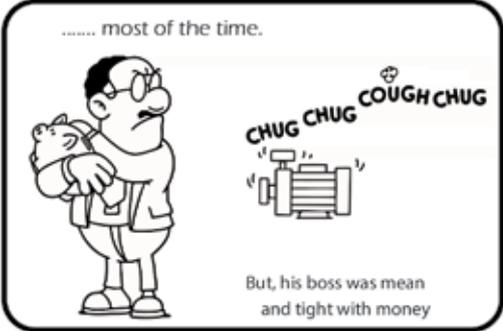
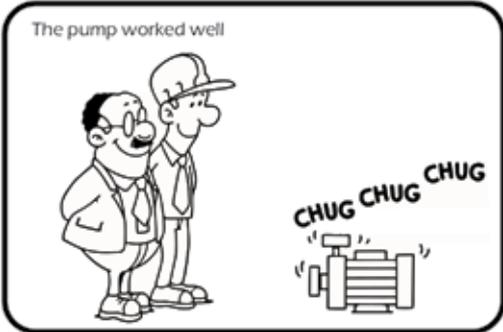
Christoph P. Pauly

KSB Aktiengesellschaft, Johann-Klein

Strasse 9, D-67227 Frankenthal,

Germany

Tel: +49 6233 86-3702



Pump Monitoring

London 0208 579 2111 - Huddersfield 01484 543 649 - Durham 01325 327 322
Windsor 01344 886 633 - Aberdeen 01224 729 367
email info@axflow.co.uk www.axflow.co.uk

Waukesha Pumps Excel In Hygienic Cream Production

Transferring media with a high viscosity can be problematical for some types of centrifugal pumps and where the problems of shear have also to be taken into account, selecting an appropriate pump type needs careful consideration.



For one leading UK manufacturer of medical creams and gels, the difficulties encountered in pumping products in the final stages of production, where viscosity has increased substantially, has been overcome by the introduction of AxFlow's Waukesha Universal II pumps. In addition to relieving this particular difficulty and satisfying the need for a gentle pumping action, the pumps have substantially reduced cleaning down procedures, resulting in a reduction of materials used.

Brendan Orange, AxFlow sales engineer, takes up the theme. "We have a customer who was experiencing problems with the increase in viscosity of its creams during production. The change in viscosity meant that the low shear pumps used at the early stage of production could not move the product at a rate that was required for a subsequent stage. At this stage of the production cycle, the cream had risen to 6,000cP and the flow rate required was 8m³/hr. The answer that we came up with was a Waukesha Universal II with fixed speed

Above: Fig 1 - Hygienic cream production where product viscosity is increased to 6,000cP and a Waukesha Universal II pump is required.

for inverter use mounted on a mobile skid, so that it could be moved from one processing tank to the next as and when required. This also meant that the pump could be rapidly cleaned between operations."

Elsewhere in the plant, the manufacturer was also encountering difficulties when pumping hygienic creams for moisturisers and medical products from storage boxes to hoppers on the filling lines. In this production facility, the creams are batch manufactured in quantities of 1000kg and then stored in boxes for up to six weeks, depending on demand. In terms of viscosity, these products required a pump that could handle up to 240,000cP at rest, but accounting for the product to shear



Above: Fig. 2 - Trolley-mounted Waukesha Universal II pump for product transfer.

down during operation and operate at between 15 and 40kg/min.

Once again, Brendan Orange recommended the Waukesha Universal II installed on a mobile skid enabling it to be moved from one production line to the next with the minimum of work and also to ease CIP cleaning.

"Cleaning the pump out between batches was a major concern," continues Brendan. "The cleaning regime involves water flush, a caustic wash, water flush, acid wash and a purified flush. Because of the design of the front face of the Waukesha pump, cleaning is a far quicker cycle taking around 45 minutes, compared to the previous pump type which could take up to 120 minutes. Our customer has also seen a reduction in the consumption of detergents, power and water disposal."

For further product details, contact:
Malcolm Walker, AxFlow Ltd
Orion Park, Northfield Avenue
London W13 9SJ
Tel: 020 8579 2111
Email: info@axflow.co.uk
www.axflow.co.uk

Denso SeaShield 80 Protects Manx Outfall Pipe

Manx Utilities in the Isle of Man have installed a new sea outfall pipe at Kirk Michael for the discharge of foul effluent from its treated waste water plant.

Hyder Consulting, consulting engineers for the new pipe installation, approached Winn & Coales (Denso) Ltd for advice on a suitable system to protect the joints on the outfall pipe.



Due to the extreme tidal conditions at the exposed location it was decided that Denso SeaShield 80 System would be used, but with an additional application of Denso Glass Outerwrap to combat the severe conditions. The contractor chosen to apply the system was JCK Ltd from Ballasalla, Isle of Man.

Winn & Coales also provided assistance and guidance to JCK Ltd in the application of the system. The successful work was overseen by Homes Grace Consulting Engineers, Hyder Consulting and Manx Utilities.

Denso SeaShield 80 System consists of Denso S105 Paste, Densyl Mastic, Denso Marine Piling Tape and Densoclad 70. On this particular application Denso Glass Outerwrap, which is a flexible fibreglass cloth impregnated with a water activated resin, was used as additional protection over other SeaShield 80 systems.

Denso Glass Outerwrap provides a protective coating which offers exceptional mechanical and impact strength for underwater, underground and above ground pipes, flanges and other irregular surfaces.

Winn & Coales (Denso) Ltd
Tel: 020 8670 7511. Fax: 020 8761 2456
e-mail: mail@denso.net web: www.denso.net

GENTLE AND RELIABLE PUMPING OF DELICATE INGREDIENTS

The CSF range of progressive cavity pumps is ideal for transferring a wide variety of products and ingredients or those with suspended solids and particles which often occur in the food, brewing, beverage and pharmaceutical industries.

Available from liquids handling specialists PUMP ENGINEERING, the CSF range includes the eccentric screw, positive displacement MAN series of pumps.

CSF MAN hygienic series progressive cavity self-priming pumps are extremely versatile and ideally suited to transferring low viscosity products like soups or sauces, high viscosity products such as jams, creams, pastes and pie fillings or delicate ingredients such as fruits and vegetables, with a gentle pumping action which does not damage these sensitive ingredients. The positive displacement pumping action from the rotor and stator arrangement delivers a consistent flow, without the need for pulsation dampeners or non-return valves.



When used in conjunction with a variable speed drive they can be used for dosing or proportioning applications and where applications involve high viscosity products the pumps can be fitted with a hopper or wide throat inlet.

All wetted parts are manufactured from polished or satin AISI 316L stainless steel and the pump's tie-rod construction allows for quick and simple inspection, cleaning and maintenance. Stators are available in white rubber for food use or other elastomers to suit the application. MAN Series pumps are available with a single mechanical seal as standard with double seals, or packed glands if required.

For More Information:

Tel: 01903 730900 | sales@pumpeng.co.uk | www.pumpeng.co.uk

Bifold Group

Clean Manufacturing = 48 hr Despatch On selected products
Configurable Lean

Bifold can now offer an expedited delivery service on selected products, typically within 48 hrs of receipt of order. Credit Card and PayPal transactions now accepted, all this teamed with a front end sales desk for customer service. Available product ranges are as follows:-

<p>Hydraulic Range</p> <ul style="list-style-type: none"> • Check Valves • FP15, FP15E Solenoid Valves, Interface Valves / Pilot Valves • Direct Acting Solenoid Valves Model FP01 • Indirect Acting Solenoid Valves Model FP15 <p>Instrumentation Range</p> <ul style="list-style-type: none"> • Ball and Needle Valves • Fire Safe Ball and Needle Valves • Medium Pressure Needle Valves and Fittings 	<p>Pneumatic Range</p> <ul style="list-style-type: none"> • Direct Acting Solenoid Valves Models FP06P, FP10P & FP12P • Check Valves • QEV's (Quick Exhaust Valves) • Models SH and SC Filter Regulators • Flow Control Valves • Relief Valves • Volume Booster Range Model VBP Series • High Speed Exhaust Valve Range HIPEX Series 	<p>Conditions - Please note</p> <ul style="list-style-type: none"> • Ready to ship within 48 hrs from receipt of order (Excluding Saturday and Sunday) • Controlled batch quantity on 48 hr despatch, for more information please contact Bifold on Tel: +44 (0) 161 345 4777 • Positive Material Identification (PMI) is available on 72 hr despatch • Additional Documentation available upon request, standard document package = C of C and FAT certificate. • Price on application
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Bifold Fluidpower Ltd, Bifold Group, Broadgates, Oldham Broadway Business Park, Chadderton, Greater Manchester, OL9 9XA, UK. Tel: +44 (0) 161 345 4777 Fax: +44 (0) 161 345 4789 Email: marketing@bifold.co.uk

bifold.co.uk

HIGH TEMPERATURE RESISTANT 'O' RINGS EXTEND GLASS CUTTING PRODUCTION

High performance 'O' rings available in the UK from Dichtomatik Ltd have increased performance and productivity in glass tube cutting operations.



operating lifetime of days (one week maximum), due to the thermal degradation that occurs. This degradation leads to marks occurring on the glass tube surface, resulting in rejection of the manufactured product. This scrapped production compromises efficiency, replacing 'O' rings also reduces plant uptime, resulting in a considerable increase of production costs overall.

However, purpose designed DuPont™ Kalrez® Spectrum™ 7090 'O' ring replacement parts, available from Dichtomatik Ltd, not only extend the MTBF life of these products to over 6 months, while at the same time also eliminating 'O' ring degradation during this period. The Kalrez® 7090 parts offered an excellent combination of chemical and thermal resistance, up to 617°F (325°C). Frequent 'O' ring replacement was eliminated, as well as product scrappage, with plant downtime being substantially reduced and overall plant yield boosted.

The Kalrez® range of perfluoroelastomer 'O' rings are part of the DuPont™ Performance Polymers range, formulated to provide superior operating and sealing qualities for even the most difficult applications. These speciality black parts offer outstanding thermal stability and chemical resistance for continuous service at elevated temperatures. For applications where gas/liquid sealing qualities are required, then excellent mechanical properties of high hardness/higher modulus are combined with compression set resistance, providing both static and dynamic sealing together with high extrusion resistance. Seal force retention and rapid gas decompression resistance is also achieved when operating in conditions where temperature cycling effects occur.

The production of pharmaceutical glass containers has traditionally involved specialised equipment for the precision heating, bending and cutting of long glass tubes. During the manufacturing process, the tubing is rotated by a stainless steel wheel which incorporates an external 'O' ring to prevent direct contact between the steel and a hot glass surface. Due to the high thermal conductivity, metal contact can damage glass at elevated temperatures, and in such an environment specially formulated

Above: DuPont™ Kalrez® Spectrum™ 7090 perfluoroelastomer 'O' rings as used for high performance glass tubing manufacture, involving continuous service operation at elevated temperatures of 617°F (325°C).

temperature resistant silicone 'O' rings have traditionally been used.

With typical glass temperatures during production of 446°F (230°C), silicone 'O' rings had a limited

Further information is available from:
Telephone: 01332 524401
Fax: 01332 524425
e-mail: kalrez@dichtomatik.co.uk
www.dichtomatik-kalrez.co.uk

Ambitious Valve Manufacturer Bifold Continues To Grow Developing 48Hr Despatch For Efficient And Quick Delivery

Bifold's 48hr Despatch



Bifold has recently moved to larger premises in Chadderton (see below for full address) and so have been able to develop many different initiatives due to their expansion within the factory and growing workforce. The initiative that has the biggest impact for customers is that Bifold now has the capability to deliver products, configured and built to order within 48 hours.

The significant increase in business over the last few years has meant that Bifold has implemented new plans for more efficient and fast despatch whilst still retaining excellence of quality and service. Bifold's modular approach to product design and extremely efficient build and test processes have afforded increasing levels of flexibility as to the number of valve types that can be assembled and tested with very short lead times. This negates the need for 'off the shelf' finished valve products to meet customer's urgent requirements. This form of productivity enhancement emphasises the significant increase in demand that has been placed on Bifold for their outstanding products.

The products that are available for 48hr despatch are available to view on the website (details of which can be found below). However, along with the preferred range that is advertised, Bifold is also able to accommodate reasonable requests for alternative, configurable valve options that the customer

may require and are more than willing to cater to individual customer requests. Whilst this 48hr service is applicable to single valves and small batch quantities, Bifold are also able to, within reason, accommodate specific demands for large quantities.

With 48hr despatch the customer receives the same quality and efficiency as they would usually experience and it does not require any special process within the ordering of the products. The customer must simply specify that they require the parts to be ready for despatch within 48 hrs and so provides minimum hassle process.

If you are interested in Bifold's 48hr despatch please see the website for further details and terms and conditions. You can also contact Bifold using the information below.

Bifold are dedicated to maintaining the excellence of their products and their new facility confirms their commitment to shortening lead times and meeting customer demands.

They would like to take the opportunity to thank all their customers for their continued support.

**Visit us at SPE Offshore Europe, Aberdeen, UK,
8th - 11th September 2015, Stand No. 3B60**

About Bifold

The Bifold Group of Companies provides technical and engineering support together with a global network of agents and distributors. Bifold Group is a world class supplier of the widest range of switching instrument and piping valves and pumps for use in the oil and gas upstream and downstream sectors. Our innovative and reliable range of high-tech products and accessories, specifically designed with the customer in mind, have gained worldwide approvals and credibility for the onerous conditions as found in hazardous (classified) locations, hostile, corrosive and subsea environments.

For More Information:

Tel. +44 (0) 161 345 4777

Fax. +44 (0) 161 345 4780

Email: gbancroft@bifold.co.uk

Web: www.bifold.co.uk

Bifold Fluidpower Ltd, Bifold Group,
Broadgate, Oldham Broadway Business
Park, Chadderton, Greater Manchester,
OL9 9XA. UK.

Airflow and HVAC Maintenance

AIRFLOW, AIRFLOW, AIRFLOW, AIRFLOW. AIRFLOW is the single most critical element in the correct operation of ALL air heating and cooling systems. Yet most systems do not have the correct airflow.



As a result compressors overheat, fans blow hot air and heat exchangers at their heart cannot provide the capacity and comfort that their manufacturers built and designed into them.

Accurate cooling or heating analysis cannot be performed, system performance cannot be measured, and the servicing or commissioning process will be compromised if AIRFLOW is anything but correct. Essentially that is the end of the story, just ask any HVAC manufacturer.

We heat and cool air, humidify it, dehumidify it, clean it, move it, supply it, return it and try to monitor it.

ALL of these processes are jeopardised if the designed airflow to the system is restricted.

The present economic climate, has caused nationwide cutbacks on staffing and budgets. Fewer staff on site means a reduced capacity for maintenance and servicing. However, the objective of any maintenance team, especially on an emergency call out has not changed.

It is very simple:

- Achieve adequate building cooling or heating.
- Minimise labour time and maximise efficiencies.
- Reduce down time breakdowns.
- Maintain customer satisfaction.

Highly qualified engineers are wasting hours on the environmentally unfriendly, chemical cleaning of coil fins instead of fine tuning and balancing the sensitive air handling systems they are trained to maintain.

Measuring, monitoring and maintaining correct AIRFLOW should be the first step when servicing equipment. It is the key component for proper equipment operation. Energy consumption is dramatically increased when compressors and fans have to work harder to maintain design output and this means big money is needlessly vanishing into thin air.

Also if an expensive compressor needs to be changed and the technician has not fully determined why it failed, the new compressor is sure to fail for the same reasons. In fact, compressors installed by service technicians fail at six to seven times the rate of original equipment.

In most regions of the UK, pollen is a major contributor to the fouling of cooling equipment. This, combined with general debris caused by foliage, refuse and other airborne particulates, can have a significant impact upon the day-to-day running of the equipment.

During the summer months in particular, coil cleaning, changing of internal air filters and general HVAC maintenance must be carried out more frequently, consuming much of the engineering team's routine PPM schedule.

Humidity control is also an important factor to consider regarding airflow. A lack of humidity control in warm moist environments can lead to mould growth and other moisture-related problems.

For example in commercial kitchens and bathing areas high indoor humidity's can lead to health and comfort issues.

Most modern air conditioners dehumidify as they cool and this can be seen as the condense water drains away. However, this dehumidification is incidental to their main job of controlling temperature which is dependent on the free flow of the circulating air.

Similarly the correct monitoring of airflow through cooling towers will help to minimise the risk of decaying debris such as insects, seeds and pollen forming a nutrient source for the legionella bacteria. According to the Health and Safety Executive, 90% of outbreaks have their root causes in failures to identify risk and to put in place effective schemes to control and deal with these risks.

These are most commonly:

- Departures from planned maintenance and cleaning schedules
- Changes in process, affecting the risk or rendering existing precautions ineffective
- Staff contractor changes
- Intermittent use of plant (VERY IMPORTANT FOR IDLE EQUIPMENT)
- Unusual weather conditions –particularly dangerous during long high ambient temperatures.

It has always been very difficult to add filtration to cooling equipment (water and dry air cooled), small condensers and cooling towers. Until now.

RABScreen external filtration now provides a solution to air intake debris, contaminated coils and clogged cooling tower sumps. RABScreens improve efficiency and save money.

For details of the external protection provided by RABScreen view our website www.rabscreen.com or call 01635 248633 for a free site survey.



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To receive the RAB Screen guide just call **01635 248633** or email
sales@rabscreen.com and see how **you** can be saving money

New Compressor Opens The Door To Savings At Shlegel

An unreliable air compressor was causing major production problems for Shlegel Building Products, a leader in the design, development, manufacture and distribution of door and window components, located in Newton Aycliffe.

The compressor often broke down, creating a situation where there was not enough compressed air to power the weatherseal making machinery on site.

David Golightly, Shlegel's Engineering Manager, contacted Thorite's local North Shields Sales and Service Centre for assistance and a sales engineer arranged to visit the site. It was decided that as the compressor was not getting any younger it made sense to opt for a new replacement rather than continuing to spend more on repairs.

Thorite is the UK's biggest independent pneumatic products and process systems distributor, and their engineer recommended the installation of an HPC compressor which would ensure maximum efficiency

whilst occupying minimal space. Shlegel had previously bought 3 new HPC compressors from Thorite for another of their sites and were already impressed with the efficiency levels these machines were achieving, so it made complete sense to specify an HPC compressor once again.

The model selected is an HPC ASD50 compressor with a capacity of 4.58 m³/min at 7.5 bar (9 bar working pressure), complete with Sigma Control 2 and a variable speed motor which constantly matches its output to cope with varying energy demands.

The compressor was installed in December last year and has since functioned without fault, as David Golightly explains: "Thorite recommended



the HPC compressor based on an assessment of our requirements and I have to say it is a brilliant machine. Downtime because of insufficient compressed air is now a thing of the past and in addition we are enjoying energy savings of around 25%, which equates to cost savings of over £2,000.00 per year. Thorite also now provides ongoing service for the compressor installation, which is resulting in even more savings, so I couldn't be happier with the whole situation."

For more information:
<http://www.thorite.co.uk>

Gardner Denver Cuts Customer Costs With New High-Pressure Refurbishment Centre

Gardner Denver's new high-pressure compressor refurbishment facility can extend the life of any existing Reavell or Bellis & Morcom high-pressure air compressor, helping customers to reduce their capital expenditure costs.

The new facility, based at the company's Redditch Centre of Excellence can restore an existing machine to its as-new condition, for a fraction of the cost of purchasing a brand new unit. In the 20 months that it has been open, more than 80 customers (an average of over one machine per week) have already benefitted from the range of services provided.

Tim Larcombe, High Pressure Service Manager at Gardner Denver explains:

"Gardner Denver high-pressure compressors are built for durability, but, after many years' service, performance can become less efficient.

"However, for many customers, it can be problematic to simply upgrade an installation to the latest technology. In high-pressure compressed air applications, there are often many bespoke elements to the design. So retaining the existing machine for as long as possible can make sound financial sense

"With one of the industry's most experienced refurbishment teams, we can offer customers a wide variety of services to extend the working life of their existing compressor installation.

"First, we offer an engineer site visit, to assess the compressor's condition in situ, followed by a full diagnostic test to evaluate performance. We then provide a comprehensive report, which identifies the remedial action that should be taken to return the machine to an as-new standard.

"Our engineers then completely rework each compressor, from component level, back to its original factory specification."

Each machine is fully warranted for 12 months, including all component parts and workmanship, with typical turnaround times of between two and four weeks only.

Gardner Denver

In addition, all compressors are refurbished using only Gardner Denver genuine spare parts, proven to extend the working life of a compressor and to increase performance when compared to using other manufacturers' components.

The refurbishment centre is part of Gardner Denver's global high pressure Centre of Excellence. The centre is a major local employer, with more than 300 employees and a thriving apprenticeship scheme that is helping to encourage young talent in to the industry.

Gardner Denver Ltd, Claybrook Drive, Washford Industrial Estate, Redditch, West Midlands, B98 0DS
Tel: 01527 838494 | Fax: 01527 527229
Email: prince.ayeh@gardnerdenver.com
www.gardnerdenver.com

New BOGE guide explains how to keep compressed air supply clean and pure

BOGE Compressors has released a new guide that explains how to ensure compressed air supply is kept clean, pure and free of contaminants.

With so many potential contaminants placing the purity of compressed air and quality of manufactured products at risk, this new guide is an essential tool for compressed air system operators.

The free guide outlines in depth the variety of threats that impact on compressed air systems. These threats include airborne particles such as dust and pollen, water vapour, which naturally occurs in air, and compressor oil that is emitted as an oil vapour. It also discusses the consequences of ignoring or failing to deal with potential contaminants, such as

the contamination of end products. This creates health risks and can result in reduced productivity and profitability when product batches must be discarded and is especially true in the highly regulated and competitive food and beverage industry.

The guide also explains how to prevent the problem of compressed air contamination, providing a variety of options for breaking down and removing contaminants. This includes: building a defence system by utilising effective filtration systems, which



can be installed at the compressor intake stage or downstream for further protection; and removing moisture to combat excess water vapour using adsorption technology.

Get the free white paper today by visiting:
<http://www.boge.co.uk/artikel/Various/UnderstandingAirTreatment.jsp>

Quality Controlled compressed air



To manage it you have to measure it!

BEKO measure the remaining oil vapour content in your compressed air down to 0.001m³ - better than ISO8573-1



BEKO Technologies, 2 & 3 West Court, Buntford Park Road, Bromsgrove, Worcs B60 3DX Tel 01527 575778 Fax 01527 575779 email info@beko-technologies.co.uk website www.beko-technologies.co.uk

CLEARPOINT® Compressed-Air Filters:

New Sterile And Steam Filters For The Highest Hygienic Demands

The compressed air system provider BEKO TECHNOLOGIES has further developed the range of CLEARPOINT filter technology.

With the innovative 3E filter elements (3E = Energy Efficient Element) and a flow-optimised, corrosion-protected housing construction, CLEARPOINT filters offer safe and reliable compressed air filtration with long service lives and significantly reduced operating costs.

Now, BEKO TECHNOLOGIES has extended the successful CLEARPOINT product line by the addition of sterile and steam filters for the highest hygienic demands.

An increasing number of industries require the use of sterile compressed air or particle free saturated steam such as the food and beverage industry, breweries, dairies, pharmaceutical and chemical. In addition to achieving maximum filtration efficiency with regard to bacteria, viruses and other microorganisms, another key aspect of the process is ensuring high flow rate at low differential pressures. Filter separation performance has to be guaranteed, even at minimal loads. Compressed air that is filtered with these filters is suitable for food contact in accordance with FDA and EC 1935/2004.



For more information, please contact us on 01527 575778 or email us: info@beko-technologies.co.uk.
Website: www.beko-technologies.co.uk

CLEARPOINT HP 50: High Pressure Filters Now Also For Large Volume Flows

With the extension of the CLEARPOINT HP 50 filter series by models for large volume flows, the compressed-air system provider BEKO TECHNOLOGIES completes its range of CLEARPOINT high-pressure filters.

The new CLEARPOINT HP 50 models are designed for large volume flows of up to 3,500 m³/h and a pressure of up to 50 bar. This is a demanding performance combination which is required, for example, for the production of PET bottles.

Like all the CLEARPOINT HP 50 high-pressure filters from BEKO TECHNOLOGIES that have been available until now, the new models also boast decisive constructive advantages compared to other solutions. Special blockings, for example, against leaks that result from the typical pulsations in high-pressure networks with piston compressors, and an acoustic alarm release in the event of attempts to open the filter housing while under pressure.

Other features are the resistance to corrosion through an anodised, powder-coated housing made of a saltwater-proof alloy, and the resistance also to aggressive condensates. A constantly high separation efficiency is ensured by the innovative poly-fibre filter material which consists of micro-fine, thermally fused borosilicate and polyester fibres.

The new CLEARPOINT HP 50 high-pressure filters for large volume flows are available with immediate effect. An additional BEKOMAT condensate drains for high-pressure applications are also available.



For more information, please contact us on 01527 575778 or email us: info@beko-technologies.co.uk.
Website: www.beko-technologies.co.uk

FILTERS PROVIDE PURE COMPRESSED AIR WITH OPTIMUM EFFICIENCY

The need for quality compressed air filtered to a range of purity levels in accordance with standards such as ISO 8573-1 is an essential requirement for many manufacturing applications.



Furthermore, the additional challenges of meeting minimal pressure differentials along with demands for improved energy efficiency, are other important factors. The latest generation of high performance FILTERS developed by HPC KAESER are the ideal solution providing efficient filtration for flow rates from 0.60 to 14.20 m³/min (21.2 to 501.5 cfm) and with minimal pressure differential.

The efficiency of a compressed air filter largely depends on minimising pressure loss which is why HPC KAESER filters are characterised by generously dimensioned housings and filter surfaces along with innovative flow-through and high performance filter media. These features result in up to 50% less pressure loss in comparison to other typically available filters and an overall performance which remains constant throughout their service life. The recently introduced deep-pleat KE (KAESER Extra) aerosol filters achieve a residual aerosol content of 0.01 mg/m³ and a saturation differential pressure of no more than 200 mbar.

Low pressure differential means lower energy consumption. However, this in itself is of limited benefit if the corresponding filter cannot deliver the required compressed air quality. HPC KAESER filters

are designed to deliver both, with their performance characteristics determined in accordance with ISO 12500-1 and the quality standard for their filters being tested and verified by an independent body.

The range covers four different element grades for effective filtration of aerosols, dust and oil vapours so that compressed air can be treated to suit the needs of the specific application in accordance with ISO 8573-1 purity classes. They are suitable for pressures up to 16 bar at temperatures of up to 66° C and are available in nine model sizes for flow volumes up to 14.2 m³/min (501.5 cfm).

An important part of the design brief for these new filters was the ability to achieve tailored compressed air purity combined with maximum efficiency and this has been achieved thanks to the completely redesigned element head. The innovative new HPC KAESER design gently redirects the air flow so that it is evenly distributed across the filter media. This is a patented in-house development and the result of decades of compressed air engineering expertise.

Other features include quick and easy element replacement via a bayonet fitting which connects the filter head and housing. This includes an integrated



positive positioning guide which ensures that the housing and element are always correctly joined following filter element and seal replacement. A stop screw fixes the housing in its final position and seals it at the same time. If improperly assembled, the connection will not close and compressed air can be heard escaping. The durable, easy-to-install filter housings are made of corrosion resistant aluminium and are coated with a passivation layer to ensure long, dependable service life.

Two model options, the KB and KE grade filters, are also available with either ECO-DRAIN 30 or ECO-DRAIN 31F electronic condensate drain that are supplied complete with a rotatable angle ball valve for quick, effective and versatile connection of the condensate drains to the filter housing. The ECO-DRAIN 31F option features a maintenance management system that not only monitors its own service interval but also that of the connected compressed air filter element. Service interval status is indicated via LEDs and a floating warning contact.

To complete the package and to simplify installation, interchangeable compressed air connection flanges of various nominal sizes are available along with a comprehensive selection of accessories to suit the majority of compressed air filtration applications.

Further information is available from:
HPC Compressed Air Systems
www.hpccompressors.co.uk
Tel: +44 (0) 1444 241671

Total Flange Protection: Challenge Accepted!

In June 2014, the Plant Maintenance Manager of a chemical plant in South Louisiana, USA contacted Belzona requiring an alternative flange corrosion protection solution.



The plant had a 52" flange on a vessel connecting to outlet piping that needed corrosion protection. The flange was affected by crevice corrosion, a well-known damage mechanism in petrochemical facilities caused by the concentration of corrosive substances within a confined space. The crevice between two adjoining flanges is the ideal environment for initiation of crevice corrosion and the corrosion rate is accelerated by the concentration of these corrosive substances in a confined area. Corrosion of the sealing area can lead to loss of containment and the potential to cause product release with catastrophic consequences.

To avoid corrosion between the flange faces, a previous protection solution consisting of a fiberglass system was used on other vessels in the unit. Fiberglass offers good corrosion resistance but

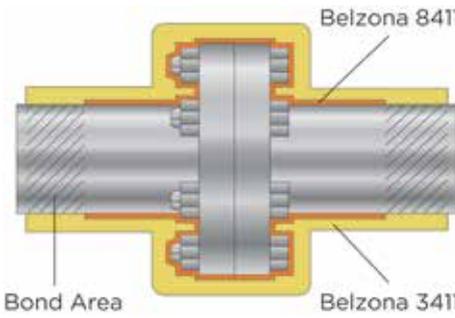
Above: 52 flange on vessel in need of corrosion protection

these materials can however be time-consuming and expensive to apply. If access to bolts is required for flange maintenance, fiberglass can be cut away, but it is difficult to remove and normally must be replaced with a new system to reinstate the protection.

In order to avoid these drawbacks, the client was looking for an alternative and more cost-effective protective solution that allows for a simple installation, is suitable for all flange sizes and shapes, and permits easy access for inspection purposes. Belzona 3411 (Encapsulating Membrane) was recommended as the system provides a complete corrosion protection for flanges, fastenings and

associated pipes, and can be easily applied and peeled back for maintenance purposes. The system offers full corrosion protection due to its use with a dual use corrosion inhibitor/release agent, Belzona 8411, and the high adhesive properties of Belzona 3411 excludes any moisture.

The application was carried out by the plant personnel in accordance with Belzona's application procedures. All surfaces to which the Belzona 3411 system was to bond to were cleaned with Belzona 9111 (Cleaner/Degreaser) to remove all dirt, grease and surface contaminants. The bond areas also required surface preparation to ensure good adhesion. The minimum level of surface preparation for exposed/corroded steel is wired brushing to ISO 8501-1 St 2/SSPC SP-2. As the surfaces had been previously painted, the bond areas were thoroughly abraded with abrasive paper to remove all gloss and provide a good key for the coating system.



Above: Figure 2. Belzona flange encapsulation system

The gap between flange faces was sealed with a strip of bond breaker tape and the two bond areas were mashed off to protect these sections of pipe from accidental overspray of Belzona 8411, and hence impaired adhesion. The system requires the use of Belzona 8411 to achieve the optimum level of corrosion protection and to allow access to bolts

and flanges in the event of required maintenance. Belzona 8411 can be simply spray or brush applied onto the flange, pipe and fastenings ensuring the film coverage is even and complete. Once Belzona 8411 was touch dry, the masking tape over the bond areas was removed and plastic caps fitted over the bolts.



Above: Tape applied around the gap between the flanges faces

Belzona 3411 is a two-coat system, comprising a grey and a beige layer. The mixed Belzona 3411 was applied over the area to be protected using a short bristle brush at a thickness between 30 and 40 mils (750 - 1000 microns). The entire content of a further unit of mixed Belzona 3411 in beige colour was brush applied onto the touch dry first coat to finish the application.



Above: First layer of Belzona 3411 applied



Above: Belzona 3411 system fully applied

This encapsulating system can not only be used to provide an excellent corrosion protection for the flanges, fastenings and associated pipes but also as a preventive system which helps facilitating and improving monitoring and inspection of flange faces. The customer saved several thousand dollars over the previous fiberglass system with easier installation. When the vessel has to be opened, the technician can use a box knife instead of a heat gun or grit blast equipment to remove the system. Indeed, when maintenance or inspection is required, the system can be simply cut open by using a sharp knife to cut through the membrane in the gap between the flange faces around the circumference of the flange. The membrane will be then be peeled back, exposing bolts and flanges. Once the required maintenance has been completed, the membrane will fold back to its original position and can be sealed with a further quantity of Belzona 3411.

The unit was inspected 90 days after installation and it looked as good as it did on day one. The application was revisited in April 2015 and the



Above: Belzona 3411 system fully applied

protection was still a perfect condition. The client was very satisfied with the Belzona solution and is planning to use Belzona 3411 on other flanges in the plant.

Belzona Polymerics Limited
 belzona@belzona.co.uk
 www.belzona.com

To Hire Or Not To Hire That Is The Question

In order to run a business you will need a number of pieces of equipment from computers and photocopiers and in the case of industrial process work, specialist instrumentation to monitor plant performance, so how do you decide which will be bought outright and which will be leased or hired.

BSRIA Instrument Solutions General Manager Alan Gilbert thinks there are three questions to ask before deciding whether to hire or buy, will the equipment have a high on-going maintenance cost, will it quickly become outdated technology and what is the frequency of use. "If you are a low or infrequent user of instruments, there is a strong case for hiring as opposed to buying, why have capital tied up in equipment that is not working for you, by hiring you can match your cost to your income" says Alan. "For example intrinsically safe water flow meters cost about £8,000 to buy yet as little as £250 per week to rent".

In addition to ensuring you are getting the best from your capital there are several advantages to hiring

as opposed to buying, you will have access to the very latest pieces of equipment providing greater confidence in performance at a lower initial cost and no costly on-going maintenance or calibration fees to consider as the hiring company takes the risk if the equipment fails.

Usually buying a piece of equipment is not the end of the expenditure incurred, if it breaks or fails there will be repair bills the value of which are out of the control of the owner, but a quick call to the hiring company and another piece of equipment is on its way to you minimising downtime. Alan says "We listen to our clients and understand their applications then we can advise them on the best piece of instrumentation to meet their needs, and it doesn't



end there if they are struggling to use it effectively we will often visit site to offer support".

If you are a low or infrequent user of Instrumentation, "To hire" might be the solution to your needs.

For more information on the hire options available from BSRIA Instrument Solutions contact the expert team on 01344 459314 or info@bis.fm, alternatively visit our website www.bis.fm.

Whitelegg Appointed as UK and Ireland Agents for Schleich Motor Test Equipment

Following a long association with Schleich GmbH, Whitelegg Machines is now delighted to advise that they have been appointed sole agents for this well respected German company covering the UK, Ireland and Middle East

Schleich, working with Whitelegg in the UK, has many years' experience in the design and manufacture of coil and motor testing equipment for the electrical engineering and motor manufacturing and repair industries.



Whitelegg, established before WW2, have built themselves a worldwide reputation for manufacturing and supplying winding machines and an extensive range of electric motor manufacturing accessories.

The Schleich range incorporates testers for motor test and repair in both bench top and portable styles as well as for production line electrical function tests, typically for luminaries and white goods. The instruments offer greater functionality and enhanced features with prices 20 - 25% below competitor products.

Managing director, Glyn Dawson comments "We have worked in association with Schleich for many years now and have had great success in the UK with the versatile Motatest range of portable testers. Now with the sole agency we have access to the full range of arguably, the finest motor health analysers and testers in the World"

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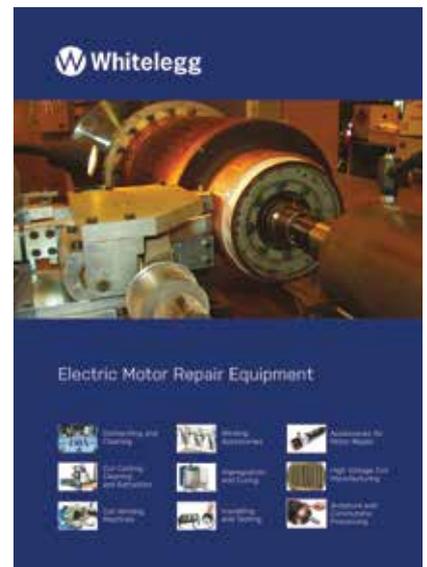
Whitelegg's New Equipment Brochure Covers All Aspect Of Motor Repair

This new 20 page brochure from Whitelegg Machines of Crawley comprehensively covers all instruments, tools and accessories for the repair and servicing of motors, coils and armatures.

Including their existing range and with new additions in the testing category, the brochure covers all operations from dismantling and cleaning through coil winding, impregnation curing and finally testing.

The brochure is available as hard copy and as a web download/turning page book.

Established over 60 years Whitelegg have built up strong worldwide as well as UK markets specialising in electric motor equipment. Sales engineers are always on hand for advice.



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Hired Chillers Cool Quench Bath

The rapid response of Andrews Chiller Hire in supplying and installing an industrial process chiller solution to help reduce and subsequently maintain correct water temperature in a quench bath prevented many thousands of pounds of component damage for one engineering company.



One of the primary purposes of any quench bath is that of immediate heat transfer to achieve the current component structure and finish, it is therefore essential for any well-run quenching operation to periodically monitor temperature of the coolant.

When an engineering component manufacturer realised the temperature in its quench bath started

to rise above 35°C, this was of serious concern.

The bath could become ineffective, manufactured items would not be cooled sufficiently quickly, production output targets under threat. It had also the potential to cause other additional complications - waste product, severe delays in supply chain delivery and compromising the company/client

working relationships. These factors could have serious short and long term financial implications.

With product quality and production output under threat this heavy engineering company needed a quick temporary fix and turned to one of the UK's leading chiller hire specialists Andrews Chillers for advice.

Engineers for Andrews Chiller Hire carried out a site survey and recommended running water from the quench tank through a small 30kW chiller equipped with booster pump and external heat exchanger. This combination gave faster water recycling and more rapid temperature drop, immediately beginning to lower temperature in the quench bath, taking it from 35°C to just 8°C. This enabled the engineering company to resume normal activity and put production schedules back on track.

Cooling Problems

Some heavy duty manufacturing companies still rely on traditional water cooling towers to lower the temperature of water entering the production process for cooling machinery as well as component



cooling in 'quench' baths. Unfortunately these towers are susceptible to outside influences – over recent years the exceptional hotter summers easily reduce their effectiveness increasing the ambient temperature of the cooling water entering the process line – it means that for many reasons including safety they are taken off line.

When an alternative or additional cooling solution is required Andrews Chillers, part of the Andrews Sykes group, is well placed in providing short-term solutions. It has an established network of 25 depots throughout the UK and engineering teams able to discuss individual requirements and propose a cost-effective solution to their problem.

Andrews Chiller Hire holds an impressive range of modern air-cooled industrial and process chillers as well as air-condition chillers with capacities from 6kW to more than 750kW and provides 365 days, 24/7 dedicated support. This level of customer commitment with a response in under 4hrs has enabled Andrews to deliver and install many time critical temporary solutions, preventing business losses due to faulty or under-performing in-house production plant or air conditioning systems,

Initially engineers from Andrews Chiller Hire will carry out a site survey to clearly understand the



requirements and how best to achieve the required outcome. By providing 24hr access to specialist engineering staff Andrews Sykes Specialist Hire Division is always able to provide an extremely prompt response – normally in less than 4hrs.

Unexpected problems can arise as a result of increased demand on production or unprecedented

summer temperatures, requiring the on-site plant to increase the chilling factor. Unable to cope or when plant failure occurs, a flexible, short term solution either working in harmony with an in-house system or taking over the complete functionality of producing chiller water is urgently required.

Choosing the right hire company can certainly pay dividends – quicker response to cooling problems, competent engineers, faster delivery – and above all temporary installation of the right chiller to enable the production process to re-start. Without rapid response the customer faces the possibility of losing many thousands of pounds through machine downtime or waste product.



For More Information:
 Andrews Sykes Hire Limited
 Chiller Division
 Unit 54 Gravelly Industrial Park
 Tyburn Road
 Birmingham B24 8TQ
 Tel: +44 (0)1902 328725
 E: shdinternalsales@andrews-sykes.com
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UP TO 90% REDUCTIONS OF ENERGY AND FRICTION WITH LATEST SYSTEM MARATHON DRAG CHAINS

The System Marathon drag chain equipment now available from M Buttkerit Ltd can accommodate overall horizontal travel distances in excess of 200 metres.



It features an upper running track installed for the full horizontal operating distance of the installation, combined with a lower parking track covering just 50% of the full length. The drag chain can operate at speeds up to 5 m/sec and runs on multiple support roller sets engaging with the running tracks, eliminating all chain-on-chain contacts or sliding movements, so effectively reducing the friction wear and driving power requirements by 90% compared with conventional sliding drag chain mechanisms.

Typical applications include washing/cleaning stations for railway rolling stock, food industry and horticultural layouts in poly tunnels and greenhouses, together with mobile crane fitments within container

Above: System Marathon drag chain system available from M Buttkerit Ltd, showing both upper running track and lower parking track locations.

handling locations. General industrial applications also occur for milling machines, fast cycling presses, welding machines and steelworks where conditions of high-temperatures and dusty environments apply. Working conditions of variable ambient (5 – 45°C) and high humidity (80 – 100%) can also be accommodated by this highly adaptable equipment.

The system power supply and accompanying cables are terminated at the lower track level, at



Above: Typical roller set mechanism utilised on System Marathon drag chains providing quiet, low-friction movement including effectively guiding chain systems from upper running track to lower parking track locations and vice-versa.

the horizontal midpoint of the complete installation. The length of drag chain mechanism required is highly economical as it is only 50% of the full installation travel distance, plus a sufficient chain length to cover the curvature of the mechanism occurring in transfers from the upper (running) to the lower (parking) tracks. The full chain length of roller sets provide support on both sides of the chain, eliminating bending or oscillations of the drag chain mechanism, while also ensuring minimum rolling resistance during traverse movements and eliminating chain-on-chain sliding friction. The rollers are running in the smooth sided troughs of the running-track, providing not-only low friction movement but also effectively guiding the chain movement from the upper to lower track running and vice-versa. The minimising of abrasion wear, stress, high flexing and excess loading together with high starting torques are also combined with appreciable reductions in the system operating noises.

For More Information:
M Buttkerit Ltd, Units 1 & 2, Britannia Road Industrial Estate, Sale, Cheshire M33 2AA
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MacDermid Autotype selects Mainsaver CMMS and EPRAIS

Spidex Software has announced that MacDermid Autotype, a leading global manufacturer of high quality precision coated films and blended liquids, has selected Mainsaver CMMS and EPRAIS health & safety software for implementation at its Oxfordshire manufacturing facility.

The site, whose products are used in the printing, automotive and electronics industries, had carried out a review of its overall maintenance strategy which resulted in three identified objectives; (i) to optimise day to day management of plant assets (ii) measure & deliver continuous improvement in departmental performance and (iii) promote safer working through risk reduction.

Having decided to look in the market for software solutions to support those objectives, the evaluation of competing CMMS products was led by Site Maintenance Engineer Graham Brindley. "We looked at quite a number of alternative systems" he explains "but Spidex's solution won for a combination of factors. Mainsaver is a well-established and proven CMMS, and its web maintenance front end (SpidexWM) is easy to use and should maximise workforce interaction."

"A very important factor was Spidex's Dynamic Risk Assessment (dRA) module, which we believe will be a vital tool for engineers and supervisors to identify and control hazards when undertaking non-standard tasks."

The implementation will also include the EPRAIS Permit-to-Work module, which impressed the evaluation team for its flexibility in allowing the creation of permit templates configured to reflect the specific requirements of MacDermid's operating environment.

"We are continually looking for ways to engender and prioritise safer working through risk reduction, and EPRAIS provides us with an additional measure to do that" says Graham Brindley.



"We will ultimately have all our departmental data consolidated into a single system, providing consistent and accurate auditability. This is fundamental in our drive to attain quality standard TS16949 accreditation."

Spidex Managing Director Jonathan Starling commented: "We are delighted to welcome a leading global manufacturer of MacDermid's calibre to the Mainsaver and EPRAIS user communities and look forward to a long and happy association."

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Planned Preventative Maintenance, A Paradox

Planned Preventative Maintenance, or PPM, is a paradox, because it involves doing work in order to avoid doing work.

Not that it can't be justified. You may choose to get the car serviced regularly, or not, in which case it will suffer an eventual breakdown, which will be both more expensive and more inconvenient than keeping it serviced. The parallel with manufacturing is clear: PPM can reduce breakdowns and so prevent expensive production losses, as well as extending asset life.

But PPM has a downside. It is expensive; and maintenance tends to be the poor relation when it comes to the allocation of departmental budgets. (Maintenance seems to offer no return on investment: yet in truth, it offers a hidden ROI in the form of reduced production losses.) It is wasteful: the work is done because it is due, without knowing if each step is specifically necessary. It requires heavy use of parts. It is also work-intensive. Why set up a comprehensive PPM regime, only to find that the resulting volume of scheduled work is overwhelming? In this situation, the paradox comes home to roost.

Resolving the PPM paradox is central to maintenance strategy. Some suggestions follow.

If there is insufficient labour, PPM work may pile up. But reports from the CMMS (Computerised Maintenance Management System) may at least provide evidence of the need for more labour.

A simple optimisation technique is to stretch out frequencies. The manufacturer's recommendations are not holy: they want to play safe, and sell you parts. So, regulatory, warranty, or other constraints aside, can the frequency be stretched, without significant increased risk of breakdown? This is an engineering judgement.

A CMMS will commonly invoke minor job suppression where jobs of different frequencies, say 12M and 6M, happen to coincide, or occur close together. The element of redundancy in PPM can be made much worse if this doesn't work, or is poorly configured. If suppression thresholds are too tight, some minor jobs get carried out unnecessarily,

and nobody notices. A job should be suppressed whenever its proximity to a major job is within half its own frequency.

You probably service your car, not by the calendar, but by miles driven. The move to a meter-based schedule does involve the overhead of recording meter readings; but it can also prevent premature services following periods of light use.

A particular machine can be well cared for and still be a lemon. On Pareto's 80-20 rule, a minority of assets will take up a majority of the maintenance effort. It is important to identify the worst assets and either deal with the root causes of the trouble, or replace them.

Certain items are not serviced, but inspected; a discharged fire extinguisher, for example, is simply replaced or recycled. But inspection can partially displace equipment servicing. Instead of replacing a component, perhaps it could be inspected to determine its condition. Different kinds of components follow different patterns of failure, but in general, lifetimes are unpredictable. It makes sense to let a robust component run on, and to anticipate premature failures that a rigid replacement plan would miss.

Condition-based monitoring involves taking readings of parameters such as temperature or vibration. This represents an ideal strategy whereby failures are picked up before they happen: hence the alternative name of predictive maintenance.

It can be of great benefit to get machine operators to carry out visual inspections, cleaning, lubrication, or simple parts changes. (The other side of the coin is that error-prone operators can increase the reactive workload.) This strategy is sometimes called autonomous or operational maintenance.

Maintenance work and stores control can be handled more directly and efficiently with handheld devices, as this cuts out paper and reduces the need for CMMS operators. The use of barcodes or RFID tags makes it even better. Though many industrial sites have a poor wireless signal, off-line solutions are available to handle this.



Resolving the Paradox – a Checklist

1. Can I produce evidence of the case for recruitment?
2. Can any servicing frequencies be safely lengthened?
3. Is minor job suppression working, with none slipping through?
4. Should any calendar-based PPM be moved to meter-based (or combined) schedules?
5. Can I identify and deal with my most unreliable assets?
6. Is there any scope for reducing the servicing element and increasing inspections?
7. Is there a place for condition-based monitoring?
8. Could the operators take on some of the simpler maintenance tasks?
9. Could I be using handheld devices and barcodes to process work orders and stock transactions?

Shire Systems has designed and delivered low cost, best value maintenance and asset management solutions since 1982

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SICK Safety Camera is a Versatile Light Curtain Alternative

SICK UK has launched the V300 infra-red vision camera to offer a convenient and reliable Type 3 alternative to a safety guard light curtain in production and warehouse environments.

The ISO 13849-1 PLd compliant and competitively-priced SICK V300 has a resolution of 20mm and is suitable for protection of areas up to 1.5m by 1.5m, or more if synchronised as a multi-device unit.

"The V300 is an incredibly useful device," comments Dr Martin Kidman, SICK UK machinery safety specialist. "It also solves the problem where a Type 2 light curtain now no longer meets the requirements for PLd applications and the change to a Type 4 light curtain is too expensive, or is clumsy and intrusive.

"The V300's compact right-angled mount allows it to be fixed unobtrusively in the top corner of a portal or other entrance access to a guarded area, or even integrated into the steelwork frame. It doesn't restrict access and is not vulnerable to accidental damage as a light curtain can be. In fact, the reflective tape which the light bounces off is incredibly durable!"

The SICK V300 safety camera is an infra-red based scanner with a camera chip system that detects light reflected from a strip of reflective tape mounted opposite

which defines the protected field. The 110° field allows full coverage of an opening up to 1.5m by 1.5m with a field depth of about 10° either side for additional coverage, enabling optimal positioning while still offering protection without blind spots.

The flexible reflective strip is self-adhesive, so can be easily contoured to allow for discontinuities such as steps, cable runs or housings, or even curves and round shapes such as rotary table housings. The protected field no longer has to be rectilinear, as with light curtains, and could facilitate new designs of safety guarding.

Tests have shown that the reflective strip is extremely durable, with endurance trials including a loaded crate pushed over it 10,000 cycles. The strong adhesive will not detach under severe industrial conditions. The V300 camera is smart enough to operate safely by ignoring distinct scratches in the strip while detecting human body parts inserted into the field.

The 20mm resolution is sufficient to detect human intrusion to hand size and the response time of 20



milliseconds provides excellent margins for stopping machinery safely. The V300 is easy to set up once the device is positioned opposite the reflective tape, one press of the teach-in button will make the field operable.

For more information on the SICK V300 safety camera, please contact Andrea Hornby on 01727 831121 or email andrea.hornby@sick.co.uk. www.sick.com

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Nederman 'At-Source' Extraction Now With a Bonus Offer

The Nederman Fume Eliminator 840/841 is a small, lightweight, portable extraction unit that has proven invaluable in improving the air quality of workshops where light welding is carried out, and until the end of August 2015 will be available with a free Nederman C20 power cable hose reel.

This summer promotional offer also applies to two other Nederman products, the Suction Blaster and the FilterCart.

The Nederman FE840 model is provided with a manual start/stop function, whereas the FE841 includes an innovative automatic start/stop feature that starts and stops the extraction with operation the welding torch. By eliminating welding fume at source, via either on torch extraction or extraction nozzle, the Fume Eliminator with its integral 99.7% efficient filtration is undoubtedly the most cost effective means of reducing airborne particulate. Furthermore, the automatic feature on the 841 Series ensures that extraction is only used when required, thereby improving efficiency and reducing running costs for the end user.

This efficiency is also incorporated into the Fume Eliminator design, with a powerful 100W motor that

creates an airflow of up to 150m³/h and a maximum suction of 22kPa through the 2.5m long hose, and to permit the welding operative to freely move the Fume Eliminator from one work area to the next, it has an extremely lightweight design with a total weight of 16kg. This is packed into an 830 by 230 by 410mm (L X W X H) frame that allows the unit to be used in the most compact and demanding of work areas.

To cater for the various demands of the workplace, the Fume Eliminator is available with three optional nozzles. The TM80 nozzle has a 500mm length with an 80mm diameter hose whereas the TM200 is supplied with a 570mm hose length with a slot nozzle that is 200mm wide and 30mm high. The final nozzle option is the PM300. This provides a slot width of 300mm and a slot height of 5mm, making this nozzle the preferred choice for seam welding applications.



As mentioned above, until 31st August 2105 any purchase of a Nederman Fume Eliminator, Suction Blaster or FilterCart, will entitle the purchaser to a free Nederman C20 power cable reel. The C20 cable reel is a high-quality power reel with a robust design that is demonstrated by its high-impact composite material casing. The retractable cable has an optimised spring force and ball bearings that ensure the 12m cable retracts smoothly, easily and evenly onto the drum.

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DENIOS: Minimising Industrial Hazards And Risks!

DENIOS can proudly point to its long tradition of helping companies deal with hazardous substances and materials, particularly in the industrial sector.



Additionally, the ever-growing and comprehensive range of products on offer has helped protect workers, workplaces and the environment in every corner of the world. DENIOS originated in Germany and has, over the past twenty-six years, grown into a global market leader. This growth and success is based on its team of skilled, highly-motivated workers who are continually on the lookout for new ways of making your company better, safer and more productive. Emphasis on product quality, prompt delivery and a friendly and excellent customer support are further reasons why you can trust DENIOS to come up with creative, innovative alternatives that will improve your business experience.

THE DENIOS WEB SHOP: Our Products, Your Range.

Regardless of whether you currently need fuel containers, anti-fatigue flooring, work safety equipment or cleaning and disposal units, the DENIOS web shop has the ideal solution for you. Boasting an extensive list of product lines, the DENIOS online shop is easy to use and packed with in-depth information, product descriptions and unit costs. It includes a wide range of stock products for storing and handling hazardous materials. The range also encompasses spill pallets for drums and IBCs, internal chemical cabinets, drum heaters and heating jackets as well as gas cylinder cabinets and cages, absorbents and spill kits. An extensive assortment of other work safety products including eyewash stations and emergency showers, and production and operation equipment such as impact protection barriers, tipping skips and stacking containers rounds off the portfolio.

DENIOS: Custom made solutions

DENIOS' range of steel IBC and drum storage solutions should be regarded as a standard requirement for peace of mind and to intrinsically cover the demanding needs of the likes of HSE, Environment Agency and the DSEAR regulations. The superior construction standards and scope of choice offers easy access, increased efficiency and time saving, and longer performance life for the liquids stores. Manufacturing a whole variety of large standard and custom-built storage cabinets on site at their Shropshire plant, DENIOS UK have been meeting the practical needs of its customers for fifteen years, producing standard solutions which can be adapted to specific applications or creating bespoke solutions tailored to job specific requirements.

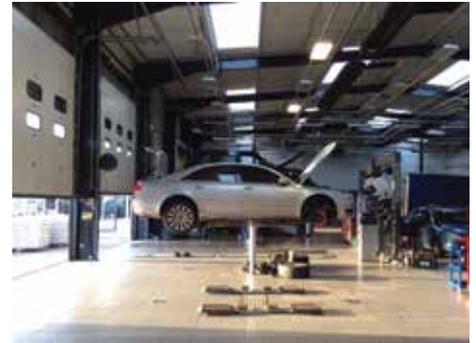
The DENIOS reputation: A history of quality and outstanding service

As a company which started helping firms manage hazardous industrial materials over twenty-six years ago, DENIOS has consistently grown from a solely German outfit into a market leader on a global basis. Its rapid company growth and expansion to major countries all over the world is a success story based on the outstanding DENIOS reputation. It is a reputation which DENIOS have worked hard to create - and even harder to cultivate. Furthermore, DENIOS customers are also aware of the fact that DENIOS no longer just deal in managing hazardous industrial materials, but that the product palette has extended to include categories such as fuel tanks and containers, work safety, production and operation equipment as well as cleaning and disposal equipment. To complete the offering, the new DENIOS Training Academy runs a number of specialist courses including ATEX, DSEAR and IOSH Managing Safely, all designed to further advise customers and raise awareness of the dangers they face everyday.

DENIOS UK
www.denios.co.uk

T Cards Online Improves Sales Admin At Monarch Autos

Introduction: Peterborough based Monarch Automotive is a busy independent motor dealer and vehicle workshop providing essential services such as maintaining and repairing cars, vans, light commercial vehicles and HGV's. They also offer additional products and services including air conditioning, tyres, valeting, windscreens, wheel alignment and regard themselves as an important alternative to main dealerships. They pride themselves on delivering the highest levels of customer satisfaction combined with a personal service and this is acknowledged by their membership of the Motor Industry Code of Practice, which provides independent assessments of customer satisfaction.



The Benefits

Mary Gillespie, Manager at Monarch Automotive said, "We looked at various systems but decided on T Cards Online. It replicated our manual based system and required virtually no training. After a quick run-through over the 'phone with the team at T Cards Direct, we started using the system straight away". Commenting on their experience in using the new T Cards Online system, Mary confirmed, "As a work flow management tool the T Cards Online system is excellent, it has enabled us to upgrade from the manual system to one which is easily accessible via PC's in our different departments".

Monarch Automotive's experience in using the new online system is another example of T Cards Online expertise in helping a wide range of automotive companies to explore the benefits of a simple, yet highly effective online management tool. The result is streamlined more efficient management processes, which ultimately leads to improved productivity, saving time and money.

The Challenge

Given the large volumes of parts and accessories involved for such a wide range of vehicles, it is essential that Monarch Automotive utilise the most efficient systems to ensure that they effectively manage and track all items in a clear and precise, yet simple way. To do this they rely upon the well-established manual T Cards Direct system which they have used for around seven years. The T Cards system enables all the relevant departments to see at-a-glance, the status of all work and it's proven to be a simple, yet very effective workflow management tool. The challenge however, was how could they replicate the manual T Cards system with an online workflow management system running on their PC's enabling several different users to log-on at any time and view the current status of each job?

The Solution

Given their satisfaction in using the manual T Cards system along with their requirement for upgrading to an online version, Monarch Automotive were keen to learn more about the development of T Cards Online.

Developed and fine-tuned over a period of 4 years and launched in early 2013, the innovative T Cards Online workflow monitoring system replicates the manual card and board T-Card system which was



introduced over 35 years ago. It enables users to manage workflow in real time using the drag-and-drop technique, moving job cards around the board to reflect current status. It features password-protected login and enables multiple remote access from anywhere in the world. All historical data is maintained so that it can be copied and reused at a later date.

A clear benefit of the new T Cards Online system is its simplicity. Once the virtual board has been configured to meet individual requirements new cards are opened from the main menu bar. There are standard templates for Vehicle Workshops, Parts Ordering and Vehicle Stock Control. T Cards can also be tailored enabling Alarms, Signals and email notification to be added and there is also a facility to attach external documents. Since a number of cards will appear on the same chart, they can be colour-coded for easier identification and as work progresses the cards are simply dragged and dropped into a new column.

More information from:

T Cards Online, Addington, West Malling,
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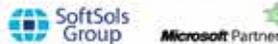
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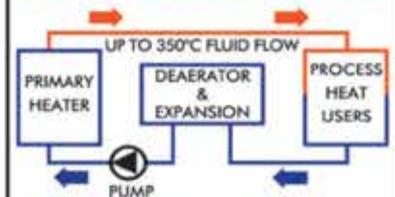
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