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Dynasonics TFX-500w Ultrasonic Flow Meter

Bell Flow Systems is now offering the New Dynasonics TFX-500w Ultrasonic Clamp-on Flow Meter

Launched by US manufacturer Badger Meter, the new Dynasonics line product is a versatile, cost-effective solution for measuring water flow in industrial applications.

Providing an economical solution for measuring water flow bi-directionally in a variety of applications, this new model is remarkably easy to install - thanks to its clamp-on design. As a result, there is no requirement to tap or cut the pipe. Simply attach the meters sensors to the outer structure of the pipework to complete the installation. This makes the TFX-500w ideal for existing projects, as retrofitting to existing systems is simple and quickly completed, removing the requirement for any system shut down time. Furthermore, there is no loss of pressure as a result of the non-invasive design of this ultrasonic flow meter. The TFX-500w is capable of measuring flow rate, velocity and water flow with precision and accuracy. Finally, a large and user friendly display screen completes the design.

The TFX-500w is available in sizes 1/2 inch to 10 inch, and can function in a temperature range of -40 to 70 °C. It is capable of measuring flow from 0.38 to 37,000 L/min. Data communications options include Modbus RTU and BACnet MS/TP. It also supports full integration with the Badger Meter BEACON® and AquaCUE® Advanced Metering Analytics (AMA) cloud-based software suites. The front panel buttons control the programming of the TFX-500w, or alternative by programming it via USB cable using SoloCUE® configuration software.

Thanks to its flexible range of sizing and temperature handling abilities, the TFX-500w is an extremely versatile flow meter. The Dynasonics TFX-500w is well suited to a range of applications. Typical examples include water systems, wastewater effluent, agricultural irrigation and industrial discharge.

Further information on the Dynasonics TFX-500w
Contact us at Bell Flow Systems or visit our website for more information on the Dynasonics TFX-500w Ultrasonic Clamp-On Flow Meter.
LQ800 Multi Channel Water Analyser Controller - New From ECD
Introducing the new Model LQ800 Multi Channel Controller from ECD. The LQ800 provides a complete analytical fluid measurement and process solution, designed to operate with up to eight digital analytical and process sensors. The measurement parameter options include above 50 unique separate liquid measurement sensors including: pH, ORP, conductivity, resistivity, dissolved oxygen, selective ion, turbidity, flow, and also level, alongside many other fluid analytical measurements. Complete with varying configurations for each given application, as can be seen in full on the LQ800 data sheet.

The LQ800 Controller digitally communicates with any ECD Intelligent Sensor. Configuration for the correct parameter is then possible via the menu and display screens. This smart technology makes using the device hassle-free, and simple to operate.

Features of the LQ800 Multi Channel Controller
- Multiple Analytical & Process Measurements. Complete measuring & control system featuring up to 8 smart digital analytical & process sensors.
- Touch Screen Colour Display. Featuring easy and intuitive menu navigation.
- Multiple, Field Programmable Outputs: Digital communication, multiple relays, discrete digital outputs, with 4-20 mA outputs, and also data logging.
- Expandable. Easily create larger control systems with the ability to inter-connect to other LQ800 Systems and ECD on-line analysers.
- Web Enabled. Access via web with remote monitoring and interface with personal handheld devices, for example via mobile phone. Allowing you access whenever and wherever you are.

For further information visit the https://www.bellflowsystems.co.uk/ or contact our sales team on sales@bellflowsystems.co.uk
Making Low Flow More Efficient – GSPLF Sealless Pump

Combining the proven technologies of Sundyne Barske Wheel hydraulics with the HMD Kontro sealless magnetic drive, the GSPLF (LF for Low Flow) sealless pump has been developed to fill a gap in the market for a high-efficiency low flow magnetic drive centrifugal pump with a single stage high head capability. The GSPLF meets the requirements of API 685 and has full ATEX compliance, making it ideal for chemical and hydrocarbon processing applications.

Sundyne has over 50 years of experience in offering Barske Wheel pumps, designed to provide efficiency in the low specific speed regime often referred to as low flow, high head applications. These pumps have an open impeller with straight blades and a tapered conical diffuser to produce the desired performance. Development and testing demonstrates that this combination produces a head factor (ratio of developed head to theoretical head) considerably higher than that of traditional back-swept Francis vane impellers.

The combination of Sundyne Barske Wheel hydraulics with the HMD sealless magnetic drive, reliability, design flexibility, and efficiency is further optimised, ensuring trouble-free, safe and environmentally conscious plant operation. An additional advantage of the GSPLF is the flexibility inherent in the diffuser and impeller combination, which can easily be rerated should the duty point change without replacing the pressure casing.

HMD Kontro has more than 25 years' experience in API applications and a 70 year track record in magnetic drive technology, being the first company to develop a magnetic drive sealless pump.

Further information, including a copy of the GSPLF brochure can be seen and downloaded from the Sundyne HMD website at www.sundyne.com/hmdkontro. Alternatively, please telephone +44 1323 452141 or email vince.lee@sundyne.com.
Spray Nozzle People Re-brand Reflect Wider Product Range
Spray nozzle specialist BETE Ltd is re-branding to now trade as THE SPRAY NOZZLE PEOPLE (SNP). BETE Fog Nozzle, a leading American manufacturer of spray nozzles, remains a key supplier and their nozzles are still available exclusively through SNP in the UK, Ireland, France and Spain.

SNP has grown over the years and, for some time now, has supplied more than just Bete Nozzles. Included in the SNP range now are couplers and nozzle holders from Uni-Spray, automated tank cleaning systems from Dasic Tank Clean and specialist paper industry nozzles from ML Gatewood. As a result of this expansion sharing the name with their initial principle manufacturer makes less sense, hence the rebranding to Spray Nozzle People which better reflects the breadth of products and solutions now available.

SNP’s marketing director Ivan Zytynski said: “The Bete product range remains central to the Spray Nozzle People and our rebranding is in no way indicative of any changes in the relationship with Bete Fog Nozzle. It is simply the case that we need to take into consideration the brand equity of our other key suppliers. Therefore, we have opted to develop an independent brand serving and promoting multiple manufacturers brands. Apart from the name change its business as usual.”

More details at:  http://www.spray-nozzle.co.uk/spray-nozzles
Or contact:  ivan@spray-nozzle.co.uk Tel: +44 (0) 1273 400092
L&W Bending Tester Code 160

L&W Bending Tester measures a material's resistance to bending. This can be done either by measuring the force needed to bend a test piece to a predetermined angle, or by measuring and determining the bending stiffness, which is an elastic property of the material. Bending resistance and stiffness affects the product performance in many converting operations and is important in handling and protection purposes of packaging products.

Unique features

L&W Bending Tester is quick and easy to use. The instrument is controlled through pushing one button on the instrument panel. The most common configurations are pre-set at the factory.

It has some unique features:

- Automated testing sequence to minimize the operator influence.
- Pneumatic clamping, for better repeatability.
- Retractable support, for perfectly horizontal positioning of samples.
- Automatic touch; no manual adjustment of load cell knife to the test piece is needed.
- Faster testing and operator independent measurements.
- Will always measures at exact required angle.
- Large, easy-to-read display
- Integrated printer which automatic print-out the test results
- Report all angles during one measurement
- Statistics
- Result on computer output
- PC-program “plot2XL” to receive data from instrument and to send it to Microsoft Excel

Measures creaseability too

Creaseability evaluation using L&W Bending Tester code 160: a crease prevents board surface from cracking during box folding. Well defined folding lines, which facilitate the folding operation

Creasing variables

- the height and width of the creasing ruler
- groove width
- matrix thickness
- the accuracy and the hardness of the make-ready
- the pressure of the die-cutter
- paperboard thickness
- type of paperboard

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Bionetix® AeroBooster-O₂ Supplies Oxygen to Ponds and Wastewater

Oxygen is a key ingredient for healthy aerobic conditions in wastewater treatment plants, sewers, holding tanks, ponds, and lagoons. When oxygen is lacking, anaerobic conditions easily set in, allowing the formation of hydrogen sulphide, ammonia, and other chemicals that release bad odours and are toxic to aquatic life (oxygen deficiency causes mortalities and slow growth of fish and shrimp). When oxygen is abundant, it is easier for microorganisms to carry on biodegradation of contaminants and biological removal of excess nutrients, promoting cleaner ponds, more efficient wastewater treatment, and healthier aquatic species.

To encourage these beneficial aerobic conditions, Bionetix® International has released a new biostimulation product called AeroBooster-O₂. AeroBooster-O₂ supplies ponds and wastewater with an oxygen source to promote aerobic conditions, reduce bad odours, and accelerate the digestion of contaminants.

The slow-release supply of oxygen provided by AeroBooster-O₂ boosts the growth of biomass — helpful microorganisms that speed up the biodegradation of contaminants and excess nutrients in ponds and wastewater. AeroBooster-O₂ also fights bad odours by accelerating the oxidation of odorous substances such as hydrogen sulphide, ammonia, and other chemicals that form in anaerobic conditions. The product is stable in storage, easy to use, and can be handled without risks.*

AeroBooster-O₂ can be used to improve aerobic conditions in a variety of applications, including Ponds, Sewage, Wastewater Lagoons, Wastewater Treatment Plants, Holding Tanks, and Aquaculture.

While AeroBooster-O₂ can promote better aerobic conditions on its own, it is specifically intended to boost the performance of bioaugmentation products such as Bionetix’s line of BCP natural wastewater treatments. Each BCP bioaugmentation formulation is designed to target and degrade specific types of waste common in certain industries (e.g., BCP55 for starch degradation, BCP11 for chemical waste, BCP25 for dairy waste, etc.). Non-pathogenic bacteria in the BCP products release special enzymes that digest contaminants subsequently used by the bacteria for energy and reproduction. Carbon dioxide and water are released as non-hazardous by-products.

By adding AeroBooster-O₂ to the water treatment equation, pond owners and wastewater facilities can encourage more efficient waste degradation processes that result in cleaner ponds, healthier biomass, and more efficient wastewater treatment plants. This breath of fresh oxygen may be just what is needed to provide an aerobic boost to an overwhelmed pond or wastewater system.

AeroBooster-O₂ should be initially applied as a full shock dose and then continued at half-strength to keep the situation stable. For the quickest oxidizing effect, AeroBooster-O₂ should be applied directly to the pond or wastewater. Varying dosages can be applied to address high anoxic conditions or to reduce sludge.

To learn more about Bionetix® products, please visit: http://www.bionetix-international.com/
Cortec® Introduces EcoShield® Super Barrier Paper and Linerboard: An Environmentally Friendly Replacement for Polycoated and Waxed Papers!

Moisture is a major threat to raw materials and finished goods of all kinds—particularly those made of metal and prone to rust and corrosion. Greases and oils sometimes used as lubricants or rust preventatives on metal components add another problem by threatening to leak through packaging and contaminate surrounding areas. Waxed or polycoated papers are traditional moisture-resistant packaging options for problems like these. However, such coated papers pose an environmental problem because they are not recyclable and repulpable. Even if recycled back into the pulp and paper stream, they would first have to go through a costly process of separating the paper base from the coating.

To avoid this environmental problem, Cortec® Corporation has developed an environmentally acceptable replacement to unrecyclable polycoated and waxed papers. Cortec's new high gloss EcoShield® Super Barrier Paper and Linerboard relies on a water-based moisture barrier coating for moisture resistance. The technology makes the paper fully recyclable and repulpable without requiring costly processes to remove the coating from the paper. In addition to recyclability, Cortec's EcoShield® Super Barrier Paper and Linerboard demonstrated better water vapour barrier properties than polycoated paper and waxed paper during testing.

To evaluate the moisture resistance of EcoShield® Super Barrier and Linerboard, the barrier paper was tested against a comparable polyethylene coated paper and a commercial waxed paper according to ASTM E-96 at 73°F (23°C) and 50% relative humidity. The EcoShield® Super Barrier Paper and Linerboard showed a water vapor transfer rate of 0.32-0.37 grams per hour on a square meter of paper. A polycoated paper in the same test allowed slightly more water vapour to pass through in the same time frame, at the higher rate of 0.47-0.71 grams per hour. The waxed paper was much less resistant to water vapour, allowing it to transfer at a rate of 6.5-6.9 grams per hour on the same size of paper. Though it is not intended for applications involving constant water contact, the shiny side of EcoShield® Super Barrier Paper and Linerboard also has the ability to repel liquid water. Its TAPPI T-441 Cobb Water Absorption rate is less than 0.3 grams of water per square meter in 2 minutes.

The versatility of EcoShield® Super Barrier Paper and Linerboard as a flexible, moisture barrier material allows it to be used for a variety of packaging applications and beyond:

- Protecting moisture sensitive components
- Wrapping oily or greasy parts
- Lining wood pallets or corrugated boxes
- Packaging products
- Keeping work surfaces clean with a disposable cover

To find out more about EcoShield® Super Barrier Paper and Linerboard, please visit: https://www.cortecvci.com/Publications/PDS/EcoShield_Super_Barrier_Paper.pdf

To find out more about Cortec's innovative packaging products, please visit: http://www.cortecpackaging.com/
AXA unveils new forklift truck safety initiative
AXA Insurance has teamed up with CCTV and telematics firm VUE to launch a new safety initiative aimed at reducing forklift truck accidents.

As part of the scheme, AXA and VUE are offering companies video and telematics technology that allows them to monitor forklifts and driver behaviour much more closely. Two cameras are placed on the forklift, one forward facing camera and one driver facing camera placed at the top of the driver cab. The cameras are hooked up to an online system so incidents can be reviewed immediately.

Meanwhile, a black box records the speed, braking, location and other relevant data in order to rate the performance of forklift truck drivers. Like the camera footage, driver ratings can be viewed on an online dashboard.

The roll out of the technology follows a successful trial with a number of AXA customers who are seeing positive changes in driver behaviours and a reduction in forklift truck accidents.

According to the Health and Safety Executive, 42% of work-related fatalities involve workplace transport. From March 2017 to March 2018, AXA received 281 claims from incidents involving forklift trucks.

“Our work as an insurer goes much further than selling products and paying claims. Our aim is to make sure our policyholders minimise their risks and, more importantly, stay safe. Forklift truck accidents can result in life changing injuries for employees and have a lasting impact on their families.

“Our partnership with VUE on forklift truck safety fits our ethos perfectly and we are encouraged that our pilot has already shown the impact proper monitoring can have on behaviour and on the number of accidents”. [Douglas Barnett, Head of Mid-Market and Customer Risk Management, AXA Insurance]

“We are delighted to be working in partnership with AXA on this project. Having worked closely with the AXA Risk Team for many years it is great to be able to take our learnings from the application of VUEmatics technology to vehicle fleets and implement them in the forklift truck environment. Together I am sure we can reduce the number of unnecessary workplace accidents.”. [Glen Mullins, Group CEO, VUE]

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Latest Pallet Figures Give Interesting Insight Into State of Material’s Handling Market

A total of 42.5 million new pallets were produced in the UK in 2016, and 41.4 million were repaired, according to a newly produced market survey commissioned by the Timber Packaging and Pallet Confederation (TIMCON) and the Forestry Commission.

The number of new pallets produced by UK firms in that time has remained virtually the same as the previous year, while the number of repaired pallets has risen by more than 6 percent.

The figures suggest that pallet companies are holding steady on new production, whilst pallet repairs are seeing a healthy, sizeable increase which is great news for those conscious of sustainability. Industry figures have long talked about the challenges facing pallet manufacturers and a shortage in the supply of small logs could be feeding into these numbers.

Speaking about the issues raised, Phil Chesworth – managing director of Midland Pallet Trucks – struck a cautionary, but hopeful tone. “These issues have been building up for more than a while. Speaking to clients, we know that short-log stocks have been hard to come by and we’ve been hearing a lot about the need to maintain and repair pallet stores. Many of the businesses we work with are weathering the shortage and improving their existing stock to extend life-cycle which is also having a really positive impact on sustainability for the industry overall.”

“Products like our 2500kg hand pallet trucks can be used with both new and repaired pallets but we’re also seeing that customers looking to take care of their stock are increasingly demanding solutions like the ERA25-A hand pallet truck because its improved technology makes for better handling and therefore less damage.”

The figures suggest those in industry are managing to accrue enough short-log stock to maintain current levels of new pallet builds for now. However, on-going shortages could see the numbers of repaired pallets rise even higher as firms look to take care of what they have at hand.

For more information about Midland Pallet Trucks and to browse the full range, visit http://www.midlandpallettrucks.com.
Complete Reliability and Lowest Running Costs with 2018 Tundra Air Driers

Hi-line Industries, an established and reputable UK manufacturer of high-quality compressed air purification equipment, has made a number of enhancements to its already class-leading Tundra range of refrigeration dryers. Thanks to an impeccable reliability rate, with zero failures from hundreds of models already sold, the 2018 series is offered with a new two-year warranty. Moreover, the latest dryers provide the lowest possible running costs and increased flow via a new Hi-Flo heat exchanger with larger ports.

Already long-established as the UK’s market-leading refrigerant air dryer, the 2018 Tundra range is Hi-line’s most energy efficient to date, with a robust and high quality build standard. Minimal energy consumption is crucial in today’s competitive environment and the new Tundra dryer from Hi-line will help drive down energy costs by minimising pressure drop and lowering absorbed power.

Among many proprietary innovations, Hi-line’s integral Direct Expansion technology offers a constant +3°C dewpoint at all times, unlike chilled mass dryers, which can be as high as +10°C during their thermal cycle. Furthermore, the new and improved single-cell, all-aluminium heat exchanger module gives the most efficient transfer of heat at the lowest energy cost.

Another important energy-saving features of the latest Tundra dryers is the variable-speed fan, which ensures only the required amount of energy is consumed. Moreover, by controlling the fan speed on the refrigerant circuit, Hi-line has been able to eliminate components such as fan-pressure switches, which can often become defective in this type of dryer. The fewer moving parts, the more reliable the product.

Tundra refrigeration air dryers are proven in applications such as workshop air and machine air in general manufacturing, as well as further uses in sectors that include packaging, textile, food, beverage, medical, dairy and automotive. Dryer selection is based on factors such as maximum compressed air flow, lowest operating pressure, maximum ambient air temperature and maximum air inlet temperature. Hi-line’s applications team can help apply a corrected capacity formula to ensure the optimum dryer is selected.

The 2018 Tundra series comprises 16 models spanning compressed air flows from 22 to 1700 cfm (37 to 2888 m3/hr) and operating pressure from 4 to 16 barg. Maximum inlet air temperature is +60°C, with ambient air temperature up to +50°C. High pressure (up to 50 barg) and thermal mass versions can be ordered. Hi-line’s standard range is available ex-stock at from the company’s Burton factory for next-day delivery, with larger dryers up to 9988 cfm available on short lead-times.

Further information is available from:
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e-mail: enquiries@hilineindustries.com www.hilineindustries.com
Reduce waste and increase production with SmartMotion Web Guide Controllers

Industrial component supplier, CP Automation, now supplies SmartMotion web guide controllers from converting industry component manufacturer, RE-spa. The controllers improve feed accuracy and reduce waste for anyone winding, unwinding or printing on paper, aluminium, plastic or card.

The SmartMotion controller fuses drive technology with a stepper motor, reducing the amount of wiring and resulting in a single, compact device that can be incorporated into a new machine, or retrofitted to a machine already in use.

The motor is controlled to 1/128 step, to ensure the system is incredibly accurate, quick and almost silent. The high heat dissipation range of the controller also ensures a constant working temperature, which prevents the device from overheating.

“When operating a printing press in particular, if the web material is not aligned correctly you're wasting production time and potentially creating unnecessary waste,” said Tony Young, director of CP Automation. “RE-spa web guides eliminate this problem. It uses a sensor to monitor whether the edge of the material is in line and automatically adjusts if not.

“People often consider automation as a large investment in robotics or artificial intelligence (AI). But, in truth, adding something simple like the SmartMotion controller improves the automated process and can save you time and money by reducing scrap material.”

The controller can be supported by a WLigo display, which has been developed to support applications where there are more than one web guide system installed in a facility. This means that plant managers can control and manage all parameters of a system from one remote controller.

RE-spa web guide systems are available from CP Automation, along with the full range of converting machine automation equipment from RE-spa.

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Eaton announces new electrohydraulic cylinder
Power management company Eaton has today announced the launch of a new electrohydraulic cylinder featuring valve integration. The new product comprises a high-performance industrial cylinder, precision feedback transducer and control valve in one package to create a single-source solution which offers significant cost savings over custom assemblies.

"With our latest electrohydraulic cylinder, customers and distributors no longer need to buy and assemble multiple components," said Andreas Kling, Business Development Manager Power & Controls Products, EMEA, Eaton. "Our new cylinder is a complete system with the customer’s valve of choice pre-mounted on the cylinder. By eliminating the need for separate manifolds, plumbing between control valves and cylinders, transducer mounting brackets and other complex arrangements, we’re providing the benefits of custom assemblies while reducing the complexity and cost.”

Eaton’s electrohydraulic cylinder offers:
• Reduced setup time: Simplified plumbing and electrical connections, along with the programmability of the AxisPro® valve, eliminates repetitive set-ups.
• Waste elimination: Infinite positioning with high repeatability can improve yield in the production cycle.
• Increased production: Programmable motion control enables faster cycles than conventional hydraulic circuitry.

Eaton electrohydraulic cylinders are offered in NFPA tie rod, mill duty, welded or threaded styles, and are available with a range of mountings, bore sizes and rod diameters. An Eaton proportional, servo, directional control or AxisPro valve can be mounted onto the configured cylinder and adjusted to customer specifications.

To learn more about Eaton’s electrohydraulic cylinders, visit Eaton.com/EHcylinder.
Solenis Launches Tapestry™ Yankee Coating Solutions

Solenis, a leading global producer of specialty chemicals, has launched its new Tapestry™ Yankee Coating Solutions to help tissue makers produce a consistently reliable Yankee coating while improving manufacturing performance and controlling operational costs.

The new Solenis Tapestry Yankee Coating Solutions offering includes a family of advanced chemistries and technologies, a team of application and field service specialists experienced in optimizing Yankee coating properties, and R&D support focused on tissue-making science and innovation.

“Tissue makers face consumer demands every day — demands for softer, stronger and more absorbent products,” said Richard Cho, global marketing director, Tissue and Towel. “The Yankee cylinder is critical to meeting these demands, but difficulties with Yankee operation can affect manufacturing productivity, product quality and, in some cases, asset life. The new Tapestry Yankee Coating Solutions from Solenis can help tissue makers overcome these challenges.”

A reliable Yankee coating is essential for the efficient operation of a tissue machine, yet many mills struggle to achieve and maintain high performance due to inconsistencies in temperature, moisture and/or other operating conditions. The Solenis Tapestry Yankee Coating Solutions include the most advanced chemistries on the market to optimize Yankee performance.

Tapestry Yankee Coating Solutions enables the development of a coating that provides several benefits, including:

Doctorability – Solenis Tapestry chemistries deliver a coating with the right rheology for optimum creping — a coating that remains stable and consistent throughout the life of the creping blade and quickly reestablishes itself after the blade changes. It also absorbs potential blade vibrations.

Edge Control – The right coating leads to clean edges on the Yankee cylinder, which reduces sheet breaks and delivers predictable creping quality.

Coating Uniformity – Solenis Tapestry Yankee Coating Solutions produce a more uniform coating that helps to eliminate lumps or wrinkles in the finished roll of paper and improves the operational stability of the Yankee system.

The resulting improvements to creping performance and tissue quality can ultimately impact a tissue mill’s bottom line through enhanced productivity and improved product quality attributes such as softness and strength. In addition, a dependable coating is a key element in protecting tissue machinery.

Solenis will highlight its Tapestry Yankee Coating Solutions program at Tissue World Miami 2018, March 20-23, in booth M-300. In addition, the company will conduct a technical presentation on how to widen the operating window in premium quality tissue grades, during the Yankee Operations Workshop on continuous improvement.

For more information on Solenis Tapestry Yankee Coating Solutions, including a downloadable brochure, infographic and several case studies, visit: www.solenis.com/tapestry-news.
New Online Guide on Strain Measurement

HBM Test and Measurement has launched a new Strain Measurement online guide, focusing on the selection, installation, data acquisition, and analysis of electrical as well as optical strain gauges. The new portal contains comprehensive information about measuring strain, including valuable tips from leading strain measurement experts.

When it comes to strain measurement, businesses and asset owners may feel intimidated due to the lack of information or, on the other hand, information overload. And often, in the absence of proper guidance from experienced professionals, they will give up the attempts to learn this topic and probably jeopardize cost-effective decisions when it comes to choosing the right measuring instrument.

Experts from HBM, test and measurement specialists, have dug deep to provide their best answers to relevant questions about strain measurement, either performed with strain gauges or with fibre optical strain sensors. Based on their knowledge, an ultimate step-by-step online guide has now been launched, with updated and unparalleled content about optical and electrical strain measurements, gauges, and sensors.

By navigating through the brand-new strain-related HBM webpages, readers may learn the “what”, “how” and “why” of strain measurement and related-technologies, including the definition of strain, tips for selecting and installing gauges and sensors, guidelines to acquire data, types of applications, among many others.

The journey starts at the strain measurements basics page: From there, users can choose to explore the world of strain gauges or the innovative field of optical fibre sensing.

The Strain Gauge Fundamentals

Strain gauges have been around for almost 80 years and continue to be key assets for measuring fatigue and testing materials for productivity and safety reasons. However, the following questions still remain tricky: How to calculate material stress from strain? How to select the right strain gauge and install it correctly? You can get the overview and all the answers here.

The Optical Strain Sensor Fundamentals

Optical strain sensors, namely those based on Fibre Bragg Grating (FBG) technology, have been gaining attention, particularly in the field of infrastructure monitoring over the past decades. But how does an optical sensor work? How many sensors can be integrated into one single fibre? You can unveil the secrets behind FBG technology here.

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Complimentary service protects drive investment from day one
ABB drives customers now benefit from a complimentary support agreement during the warranty period.

A new service from ABB gives users of medium- and high- power variable speed drives complimentary access to a host of services throughout the warranty period. Drive users now receive access to on-site repair, rapid exchange of faulty parts with access to original spares, telephone support during office hours and technical query escalation.

Customers only need to register the drive at the point of commissioning to activate the service. The registration can be handled by ABB directly or through one of its authorised value providers. Alternatively, customers can download a registration app and enrol the drive themselves.

Both telephone and ABB Ability™ cloud-based remote support offers advice, guidance and issue resolution. This benefits those customers who are trying to get a drive up and running or seeking reassurance that the drive operates as intended. Reduced downtime and plant interruption is further enhanced by escalation to global experts who handle advanced user queries. For medium voltage drives, rare instances of drive failure or condition monitoring can benefit from ABB Ability remote support from specialist teams.

Throughout the warranty period customers will receive continuous support and engagement for backup. This includes advice on maintenance techniques, trends and practices. Customers will obtain priority notifications of upgrades and enhancements. The service is available for larger ABB industrial drives that includes: ACS880, ACS1000, ACS2000, ACS5000, ACS6000, ACS6080, ACS580MV, Megadrive-LCI, DCS880.

“ABB Initial Care gets the best out of your investment without any extra costs, while maintaining seamless operation,” says Stuart Melling, ABB business unit manager, drives & controls, UK. “By simply registering your drive you get valuable access to ABB’s immense application know-how and product expertise. ABB Initial Care reduces the risk of downtime and offers peace of mind support throughout the warranty period; it also introduces the customer to the wider benefits of ABB Drive Care.”

Following the ABB Initial Care period, users have the option to transfer to a full ABB Drive Care service package with associated costs. This service includes preventive care, complete care and replacement care and features maintenance services, specialised support, ABB Ability digital activities such as remote assistance and remote condition monitoring and failure recovery.

www.abb.com
Valmet launches a new tool to monitor former dewatering

Valmet extends its quality control systems expertise to the paper and board machine forming section with the introduction of the Valmet IQ Dryness Measurement (IQ Dryness). Utilizing microwave technology, the IQ Dryness measures the water layer thickness on the web, which can be used to calculate the web dry content. As well as removing most of the water, the majority of paper properties are also developed in the forming section. The inclusion of IQ Dryness in Valmet's paper quality control family opens new possibilities as it helps to close the information gap between the stock approach system and dry end quality sensors.

"Perhaps the biggest effect is the better management of dewatering. This has a great influence on the amount of the subsequent drying energy needed with potentially big cost savings in paper production. An increase of just 1% in dryness before the dryer can reduce the amount of energy needed to evaporate the excess water by approximately 4%," says Marko Toskala, Director, Quality Management Solutions, Valmet.

All grades and furnishess

Unlike other measurement technologies, Valmet IQ Dryness is not sensitive to conductivity which makes it suitable for use with all grades of paper and board. As well as energy savings with vacuum optimization; quicker startups, faster grade changes, fewer breaks and improved break recovery are just a few of the benefits that continuous measurement of water removal makes possible.

Optimized dewatering not only improves bonding for multilayer board machines but can also reduce the problems of blow induced breaks caused by excess moisture in the middle layer entering the drying section. Additionally, the measurement facilitates the online monitoring fabric condition together with improved troubleshooting of pulsation, vibration and other quality destroying wet end problems. The sensor's small size enables measurement in places inaccessible earlier.

Complete moisture management

This new sensor joins the Valmet IQ family of single point and scanning measurements to provide papermakers with a complete picture of MD and CD moisture from the forming and press sections, dryer and size press right up to the reel. Together with sophisticated moisture controls and an extensive range of actuators to control moisture levels and profiles, Valmet can close the loop to offer improved efficiency and runnability as well as better paper quality and printing properties.

For further information, please contact: Marko Toskala, Director, Quality Management Solutions, Automation, Valmet Tel. +358 40 837 2459, marko.toskala@valmet.com
Vapour permeability and the strength, integrity & printability of card based products

Card, board and paper based products are critically dependent on vapour permeability for their strength, integrity and printability. Packaging also controls the contamination of food and pharmaceutical products. Tiny changes in composition or coatings can make a major difference to these physical characteristics.

Versaperm’s latest permeability measurement system is designed to measure this, not just for coatings and materials, but also for the complete finished package. This is often critical as manufacturing processes, such as forming, folding and adhering, can change, substantially, the package’s vapour permeability.

The most important factor is often water vapour but the system can measure permeability for carbon dioxide, oxygen, hydrocarbons, aromatics and almost any other gas in commercial use. The system is ideal for product and coating developments as well as for quality control.

The Versaperm system is fast, reliable and easy to use - producing results that are accurate in the PPM (parts per million range), PPB ranges and for some materials, and can take as little as 30 minutes. Where desired the system can produce results under environmental controlled conditions including temperature, pressure and relative humidity.

Multi-chamber systems allow measurements to be produced on several samples at the same time and different designs and clamping systems cater for varying sample types.

As well as manufacturing the instruments, Versaperm offers a technical consultancy plus a permeability testing service for companies that need to test samples on an irregular basis.

For details see:
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Jarshire announces new agency agreement with SchäferRolls

Jarshire Limited continues its theme of expansion with the announcement that it has been appointed sole agent in the UK and Ireland for the German company SchäferRolls GmbH & Co. KG.

SchäferRolls has been producing polymer-based roll covers since 1946 and is a leading name in the industry. Renowned for its precision and technical expertise, the company operates within the highest levels of process engineering and process control which, together with state-of-the-art equipment, allows the company to exactly re-produce high quality roll covers with constant dimensional and shape stability.

Roll covers specifically manufactured for the converting, paper, tissue and web processing industries incorporate materials that have been designed to meet the chemical, thermal and mechanical requirements of modern paper manufacturing and converting processes, including tissue, adhesive labels and board. Rolls may be specified with an overall length of up to 15,000 mm, diameter of 2,000 mm and weight of 100 tons whilst production machinery can be adapted to the handling and processing characteristics of all types of rolls and sizes including embossing back rolls and size applicator rolls for converters, and rolls for the wire section, press section and reeling sections of paper mills.

SchäferRolls (www.schaeferrolls.com) operates in five locations worldwide including Nowack Gummwalzen GmbH & Co KG, and Schäfer MWN GmbH with its brand :CCOR operating in Germany, as well as having subsidiaries in the USA and Slovenia.

Converting and Paper Mills Director, David Jobson says the new range adds a new dimension to the Division’s portfolio of products for the converting and paper mills sectors.