Xerium pioneers advanced tissue fabric technology

Xerium Technologies, a leading global manufacturer of industrial textiles and rolls used primarily in the paper production process, has introduced Formsoft, an advanced tissue forming fabric technology specifically designed to help its tissue fabric customers improve operational performance at lower costs.

“While tissue has been one of the primary growth drivers throughout the industry, it has long been one of the more demanding grades of paper to produce,” said Stephen R. Light, President of Xerium Technologies. “We worked closely with our tissue customers to design a new tissue fabric that helps them improve their most demanding processes to produce a higher-quality product at lower costs.”

Formsoft is a patented, triple layer tissue forming fabric that has been engineered to provide high drainage performance that produces tissue with improved sheet properties, including formation, tensile strength, and softness. Formsoft delivers high fiber support with dimensional stability and uniformity throughout the life of the fabric, while also providing improved life potential that is well-suited for the rigors of a demanding tissue machine.

www.xerium.com

Lorentzen & Wettre introduces new sensor for paper machines

ABB-owned Lorentzen & Wettre announces a new FSD (Forming Section Drainage) sensor for paper and board machines.

The new L&W-sensor measures the amount of water at any desired position in the forming section. The measurement results make it possible to gain control of drainage and ply bonding.

With the new sensor it is possible to optimize the wet end chemistry of the stock, which will enable better runnability and increase paper quality.

Normal use is in single point measurements between step foils or vacuum boxes. It is common to measure before or after the couch roll, to be able to estimate moisture content in the paper, before it leaves the wire. In multi-layer Fourdriner machines all layers are easily monitored, providing a better overall picture to improve multiple ply bonding. The instrument provides for control of foils adjustments, vacuum, refining and the use of retention chemicals.

The main advantages of controlling drainage is reduced energy consumption, reduced number of web breaks, reduced emissions, reduced usage of chemicals and reduced maintenance.

“With this new sensor in combination with our other portable instruments, it is possible to monitor the drainage profile all the way from headbox to couch,” says Lars Käng, Product Manager, Lorentzen & Wettre.

www.l-w.com

Low-profile pressure sifter

A new Vibroscreen Low-Profile Pressure Sifter from Kason removes oversize particles at ultra-high rates.

The sealed system can be employed to operate under a blanket of an inert gas to prevent the escape of hazardous gases and/or to sit in-line with pressurized reactors.

Capable of scalping bulk materials at rates to 50 tons per hour, the 183 cm diameter unit is engineered and constructed to operate under pressure on a batch or continuous basis. Connections to the incoming line, discharge line for on-size particles, and discharge spout for oversize particles are sealed using flexible pressure sleeve connectors.

The low profile “Flo-Thru” design employs two unbalanced weight gyratory motors mounted on opposing exterior sides of the unit, instead of one motor positioned beneath the screening chamber, reducing minimum height requirements significantly. The design also aligns the top inlet above the bottom outlet, allowing on-size material to descend through the screen in a straight-through path at high rates. Oversize material is ejected through a spout at the periphery of the screen.

The Pressure Sifter is offered in stainless steel and carbon steel in diameters from 460 to 2135 mm. www.kasoneurope.co.uk

Investment in QCS applications pays off with record-level orders

Metso IQ system deliveries have reached a record level. With proven successful installations over the years, Metso’s market share has grown significantly to over 30 percent.

When Metso introduced its first advanced architecture PaperIQ quality control system in the mid-1990s, the company set in progress a resolute course to be a major contributor to the stability and profitability of its customers’ papermaking operations.

More than 15 years later over 1,000 QCS scanners have been delivered.

New Metso paper, board and tissue machines are equipped with Metso IQ systems. However, the substantial growth in Metso system deliveries is coming from replacing the so-called legacy systems, many of which were installed over the past twenty years.

Metso has introduced many new system enhancements in recent years to improve the return on investment from new system installations and therefore encourage customers to update their QCS technology. The now-standard MD and CD multivariable predictive controls have provided better machine stability and bottom-line results. New developments in sensor technology include Metso IQ Laser Caliper, which has a major market share in SC paper and many other grades, and Metso IQ Fiber non-nuclear fiber weight measurement for tissue machines.

Metso IQ systems have also become easier and less costly to service than previous generations with the addition of extensive predictive maintenance diagnostics. This makes the total cost of ownership over the system lifespan considerably lower.

www.metso.com/metsoiq