

Top tissue technology package

ANDRITZ has grouped its most advanced tissue making components under the new PrimeLine brand.

The major elements of PrimeLine are the Multi-Layer Headbox, TissueFlex shoe press, EquiDry S high-temperature hood and the newly developed Centerwind Reel.

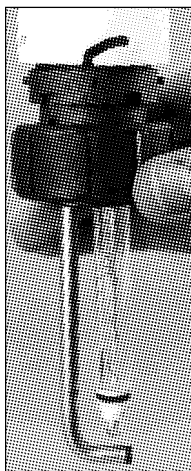
**Inquiries to Michael Buchbauer
on +43 316 6902 2979,
michael.buchbauer@andritz.com**

Combination Sensor systems equipped for those tough jobs

ABB HAS brought out what it describes as a tough new series of pH/Redox combination sensor systems, designed to withstand high temperatures, pressures and aggressive fluids.

The ABB Analyze IT AP 200 sensor/holder systems are aimed at continuous in-line monitoring applications. The 12 mm AP 120 sensor is IP67/NEMA 4X ingress-protected and integrates pH, reference and temperature measuring elements. State-of-the-art cleaning is also featured, along with a self-diagnosis facility.

ABB says the potential for errors when controlling extremes of pH and high temperatures is minimized, thanks to a fast acting integrated temperature sensor. A gel electrolyte guards against process contaminants and is fronted by a dirt-repellent PTFE reference junction. The gel electrolyte also provides immunity to pressure cycling (pumping) and the PPS Ryton body is resistant to chemical attack up to 130°C and 6 bar.



The sensor includes state-of-the-art self cleaning

**Inquiries to Bob Kingman
on +44 1480 475321,
bob.kingman@gb.abb.com**

New high-speed web-monitoring era claimed

HONEYWELL Industrial Solutions claims that its new Hilcont ProWeb system heralds a new era in web monitoring. Honeywell says speed and illumination have become the greatest challenges in web break analysis, because of high operating speeds and the nature of papermaking. The company tackles these with special optic solutions.

The sensitivity and speed of the Hilcont ProWeb camera enables exposure rates possibly 10 times higher than previously possible, according to Honeywell. Under favorable illumination, it is claimed to be possible to reach a shutter speed of 1/100,000 of a second. Built-in air curtain and washing systems are designed to ensure sufficient light, even in the most challenging conditions.

Vice president and general manager of Industry Solutions' Pulp Paper and

Printing business, Ron Powell, said, "The new Hilcont ProWeb system now provides the capability of more profound web break analysis and helps papermakers identify the break origins faster and more accurately than ever before.

A large RAM memory allows image information to be processed and stored without compression. The technology allows operators instant access to the image which shows where the break originated.

Analysis tools include the Break Expert Database, which can be used to exploit existing knowledge of web break situations, not only on a single machine but throughout the company.

**Inquiries to Matti Pulkkinen
on +358 17 5789 319,
matti.pulkkinen@honeywell.com**

Wireless PDA software frees up operators

ABB HAS added a software option for Operate IT Process Portals, which allows operators to supervise and control different processes via a standard Pocket PC (PDA).

Based on Microsoft Pocket Explorer software, Pocket Portal uses Bluetooth or WLAN as the communication medium.

Pocket Portal is used together with ABB's AC400 controller and offers such

functions as alarm list handling, supervision of the status of such objects as valves and pumps and the individual control of these objects in the same way as from a Process Portal. It is possible to search, via the tag name, for any object in the AC controller database.

**Inquiries to Rune Persson
on +46 40 55 00 00**

Uniform access to data, regardless of source

MOPS SYSTEMS has built its new MOPS 3 product suite for pulp and paper on COM technology, which provides the system with a transparent communication (DCOM) method. MOPS 3 users have uniform access to the data source, regardless of the source (DCS, QCS, Historians, etc).

MOPS Systems, a business unit of Kvaerner Chemetics, says MOPS 3 can

handle and integrate multiple types of information. As the hub of the mill, it consolidates and structures data and provides users with appropriate information for a variety of solutions. MOPS 3 supports web-enabled data, flexible reporting and has an advanced Excel add-in.

**Inquiries to:
mopssales@kvaerner.com**

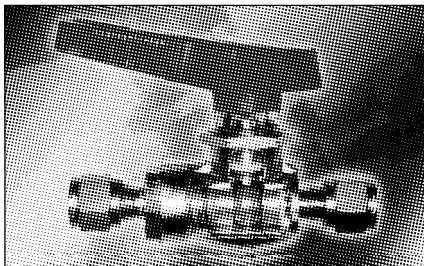
EQUIPMENT

Unidirectional ball valves offer leak-tight operation

CIRCOR has introduced a new series of unidirectional ball valves, which have live-loaded seats to compensate for wear and temperature cycling to ensure leak-tight operation over their pressure range. The Hoke 70/71 series valves are designed to exceed 100,000 cycles with zero leakage.

The 70 series feature a welded end-fitting to prevent accidental disassembly, while the 71 series have a gasketed end-fitting to allow rebuilding. Both are available with factory-assembled pneumatic or electric actuators.

Inquiries to Norman Yates on
+44 20 8423 0113, circor@circor.co.uk



Leak tight operation is promised over the pressure range

Deinking sludge dewatering faster and cheaper than ever

DEGUSSA subsidiary Stockhausen has formulated its Praestol 806 BC to enable the dewatering of deinking sludges to be faster and more economical than ever before.

Praestol 806 BC is a high-molecular, low-cationic polymer product. Head of Stockhausen's Product Line Paper, Michael Brüne, said, "Deinking sludges are particularly difficult to dewater because they contain a high proportion of fine ink and organic particles." Dr Brüne went on to explain that these sludges are no longer a problem with Praestol 806 BC and that the product's dewatering qualities are such that the use of polymer can be reduced which cuts costs.

Inquiries to Sabine Krause
on +49 2151 38 1878,
sabine.krause@degussa.com

Porosity system allows closed loop control

VALUE SYSTEMS has developed an on-line porosity measurement system which can be used for closed loop control. The MultiPerm features improved sheet sensor contacting technology which greatly reduces the number of readings which have to be ignored. While technology to measure sheet porosity has existed for several years, many systems have been discarded, according to Value Systems,

because of doubts about their accuracy and the need to reject a large proportion of the readings.

The MultiPerm won last year's Papex Award for Product Innovation for Supplier Companies with Fewer than 50 Employees.

Inquiries to +44 1753 833 124, email:
porosity.measurement@multiperm.com

Corrugation increases filter surface area

GL&V HAS introduced a corrugated surface for vacuum disc filter sections which increases the surface area by 35%. WellDrain has the potential to increase capacity by up to 30%, says GL&V and also enables removal of the filter cake.

WellDrain is best used with low freeness pulps, which create a relatively thin cake on the filter surface. Its two main applications are likely to be in pulp dewatering filters and in saveall systems

for fiber recovery from PM whitewater.

WellDrain is intended primarily for retrofits to existing disc filters and can be produced in sizes to order. GL&V claims that fitting WellDrain segments can be an alternative to the installation of an entire new filter in a process line.

Inquiries to Conny Hägg
on +46 8 522 444 00,
info.stockholm@glv.com

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e-mail: fpcanada@skynet.be • <http://www.fpac.ca>

Upgrades for better pulping

KVAERNER Pulping has added Outlet Device for continuous digesters and Tube Flash for flash-cyclones to the range of kits which it supplies to increase capacity, optimize productivity and improve quality.

Outlet Device is a spin-off of the digester technology which has improved the outlet drive system on new continuous digesters from Kvaerner Pulping. There are two major improvements. The first is that a direct drive hydraulic motor replaces the internal gear system, which is often the cause of unplanned digester shutdowns. The second is that the new system features heavy-duty spherical roller thrust bearings instead of spherical roller bearings. These new bearings enable the modern system to handle large axial loads.

To further reduce maintenance costs and breakdown risk, the modern drive system also features fewer moving parts and grease lubrication of both bearings.

The Tube Flash kit is designed to enable mills to benefit from state-of-the-art flash cyclone technology without having to buy and install a completely new system. The kit is essentially a new top for an existing cyclone. It increases capacity by between 50 and 100% and improves condensate quality while the special anti-foam inlet ensures trouble-free operation. Duplex stainless steel is used for parts exposed to corrosion and wear helps minimize maintenance costs.

Rerouting of the extraction liquor inlet piping and removal of the inner cyclone are necessary before the Tube Flash kit is installed.

Inquiries to Kjell Lagerström
on +46 54 19 47 60

Separate stiff from slender

GL&V'S NEW hydrocyclone pulp cleaner is designed to separate stiff from slender fibers. Stiff fibers result from summer growth, while slender fibers come from spring growth. Tripac FR can help raise the proportion of slender fiber in mechanical pulp which can increase paper's runnability and printability.

Inquiries to Jan Backman
on +46 8 522 444 00

Soft calender borrows multinip technology

VOITH PAPER has developed a new generation of Ecosoft calenders using technology from its Janus MK 2 multinip calender as well as existing Ecosoft ideas.

Ecosoft Delta features a 45° inclined calender stack frame and comes in a one stack or two stack version. In the two stack version, the stacks are inclined towards each other.

The new setup is designed for low

vibration, thanks to the wide frame base and low center of gravity for the rolls. This layout is intended to cope with speeds of up to 2,500 m/min. Correction potential is improved, roll changing, and maintenance access generally, is easier and space requirement is modest.

The first Ecosoft Delta is due to start up at Huatai in China in May next year on newsprint PM 10.

Intelligent drive features Fieldbus capability

BALDOR HAS launched an intelligent brushless servo drive range, which integrates a full motion controller with Fieldbus capability to provide what the company describes as "a cost-effective solution for implementing distributed motion control."

MintDrive II extends performance in a variety of ways, including provision of plug-on configuration of Fieldbus and encoder interfacing, much higher throughput and operation from three-phase supplies.

MintDrive II provides an amplifier for a single-axis brushless AC servo motor in a choice of output ratings up to 19 kW, together with a motion controller equipped with the high-level Mint programming language, Fieldbus networking and onboard I/O. Baldor says this combination of features allows the unit to per-

form the most complex movement profiles, to eliminate the need for a PLC and to operate as a distributed device on an industrial network.

In the new design, the Fieldbus interface has been implemented as a plug-on daughterboard to provide flexibility. The choices available so far are Profibus-DP, DeviceNet and Baldor's traditional offering of CAN. This configuration arrangement has also been extended to position feedback, allowing users to specify plug-on resolver or incremental encoder interfaces, or the latest EnDat absolute encoders, which eliminate datum checks on power-up, according to application requirements.

Inquiries to
mark.crocker@baldor.co.uk,
sales@baldor.it, sales@baldor.de
or daniel_berg@baldor.ch

Biodegradable bearing grease performs

SKF CLAIMS its new biodegradable bearing grease can match traditional grease performance while meeting demand for environmentally products.

LGGB 2, as the product is known, is a general purpose lubricant and is therefore suitable for various bearing applications.

SKF said it has overcome the inherent disadvantages of biodegradable greases, which have led to premature bearing fail-

ure. LGGB 2 has been tested and approved for steel-on-steel spherical plain bearings, ball and roller bearings. The grease is based on synthetic ester oil, lithium/calcium thickener and other biodegradable ingredients and has low toxicity.

Inquiries to Colin Roberts
on +31 30 60 75608,
colin.roberts@skf.com

EQUIPMENT

Pulper wear reduced as roll cutter ensures an even flow

CORE LINK says its new roll cutter can eliminate much of the wear caused to pulpers by large batches of paper being dumped in them in one lump. The new roll cutter is designed to ensure that the pulper receives an even flow of paper.

The paper dissolves faster because it is cut down in layers. This reduces wear and tear on the pulper as well as blockages. It opens the possibility of fitting smaller pulpers and allows cores to be reused.

The unit is also suitable for tissue makers. The first such systems were installed by SCA at its Edet mill in Sweden and Mannheim mill in Germany.

**Inquiries to Karl-Henrik Axelsson
on +46 346 568 00**



Core Link says pulper wear will be reduced thanks to its new roll cutter

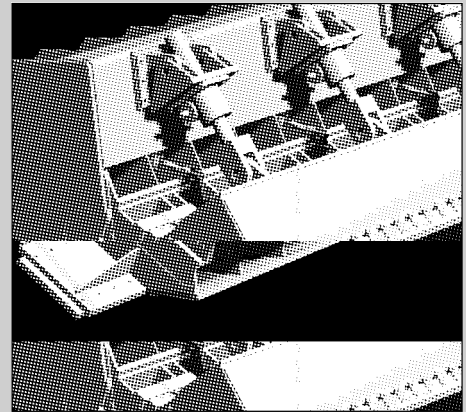
Consistency profiling is new headbox feature

SANDUSKY's latest headbox features consistency profiling, to provide automatic control of stock consistency at any point across the machine.

The headbox features individual dilution water feed points in one or more rows of stock feed tubes. Each dilution inlet has its own control valve, which allows individual control of each dilution feed point.

Sandusky's consistency profiling system incorporates a vortex design, for which a patent has been applied. The dilution water is added in a vortex motion around the flow of stock, to ensure fast, effective mixing.

Sandusky has applied for a patent on the vortex dilution water flow in its new headbox



Vibration-free drainage elements promised

VOITH PAPER has combined advanced vibration measurements and finite element simulation to produce drainage elements which are unhindered by vibration. The design has been enhanced so that the drainage box, bracket and longitudinal girder of the wire section form a sturdy unit.

The drainage box design allows optimized water discharge to avoid soiling. In addition, a simple, quick-release

clamp fastening (patent pending) allows the plate cover to be replaced more quickly. The optional clamping of strips (also patent pending) ensures tight fastening of the strips during operation and allows simple removal for replacement.

**Inquiries to Nicole Schnait
on +43 2742 806 2353,
nicole.schnait@voith.com**

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