



BELLMER

Pulp & Paper Technology
Separation Technology

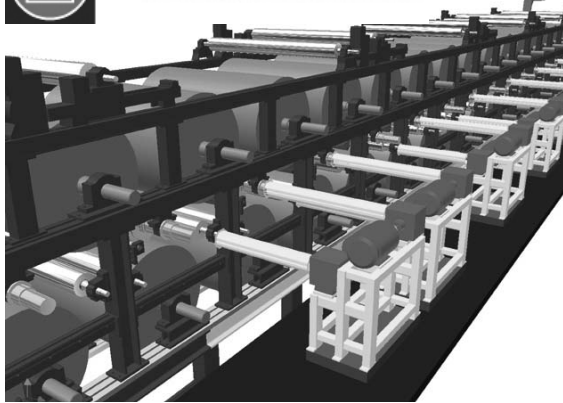
INFO 64

New paper machine for Königstein

Papierfabrik Louisenthal GmbH, a subsidiary of the Giesecke & Devrient Group, will shortly install a new paper machine at its Königstein mill



Louisenthal



Bellmer supplies the state-of-the-art security paper machine

in Saxony. The team at Königstein will be building on a long tradition of producing high-quality papers. Papierfabrik Louisenthal and Bellmer have built a strong working relationship through several decades of close cooperation. Papierfabrik Louisenthal's process know-how, alongside Bellmer's specialised paper machine building expertise proved a winning combination. The result has been the development of an optimal process for sensitive paper production. Bellmer has now received the order to supply the new special paper

machine at Königstein. According to Papierfabrik Louisenthal, this cylinder paper machine will be the fastest and most advanced of its kind in the world. It will provide enhanced productivity and increased flexibility.

The new paper machine will be equipped with an EQUALFlower™ cylinder mould former and cylinder mould headbox with EQUAL-Circler™ circular distributor. A new press section with compact suction press will ensure the gentle treatment of the special papers produced on the machine. Bellmer's scope of supply also includes a 2-roll twin calender built by Bellmer's partner company GapCon. The highly sensitive papers which Papierfabrik Louisenthal produces require state-of-the-art reeling technology, and the Bellmer EQUALReelerPro™ will be equipped with center winding. Bellmer is signed up as the general contractor for the project, and has also assumed responsibility for machine engineering. Peripheral components such as central circulating oil lubrication and mechanical drive elements will be supplied through Bellmer's partner AS Antriebstechnik. Bellmer will coordinate the installation of the new machine.

Production enhanced in Felixton "Mondi's best rebuild in South Africa"

Mondi Packaging South Africa (MPSA) with its three mills in Springs, Piet Retief and Felixton, is part of the Mondi Group, which has operations worldwide.

At its Felixton operation, Mondi produces 110,000 tons/year of high quality fluting papers for use in corrugated packaging. The main market sectors for this product are agricultural and commercial packaging, which require high quality flexographic print and superior compression strength to



Smiles all round after the successful rebuild in Felixton

Dear INFO Reader,

The worldwide financial crisis seems to be over. Maybe this crisis has had some positive effects: sensible economising measures have been taken without exorbitant interest yield expectations. Our customers at Bellmer have always adhered to such principles. They continuously secure and develop their markets thanks to investments in top quality machines featuring innovative technology. Consistent with this approach, Papierfabrik Louisenthal is about to build the world's most advanced plant for the production of special papers at its Königstein mill. The project centres on a new Bellmer paper machine. Mondi in Felixton, South Africa, has considerably improved its production capacity of top quality packaging papers. The new WinklePresses™ for sludge treatment has proved itself in continuous operation and is designed to provide decades of faithful service. And the fruit juice industry is investing again: Shaanxi Tongda from China has ordered 11 further WinklePresses™ for three different locations. Bellmer is the partner you can trust and rely on. Just contact us – we will be pleased to create solutions specifically tailored to your needs and to supply the right machines to ensure your long-term success.

Yours sincerely,
Philipp, Martin and Erich Kollmar



ensure protection of goods in transit. To provide an even better service to its customers and meet their needs even more precisely, Mondi – which

to be continued on page 3

Efficient and versatile: TurboDrain™ thickens everything...

There are quite a few machines out there which can thicken excess sludge. But the original of all belt thickeners - the TurboDrain™ - does the job in a particularly efficient manner. The TurboDrain™ is designed for low energy and flocculent consumption, as well as totally reliable continuous operation. You may, however, have other sludge types to thicken. In which case, you might like to follow the example of Günter Marohn of the sewage treatment plant servicing the town of Renningen, where a TurboDrain™ has been successfully operating for more than 10 years. Once the Bellmer belt thickener had proved itself with excess sludge, this innovative waste water specialist decided to test the technology on other sludge types,



A satisfied customer: Günter Marohn (front) together with Bellmer's Hans Josing

namely primary sludge, mixed sludge and even digested sludge.

These days, Mr. Marohn only thickens digested sludge, and achieves the best operating results in his sewage treatment plant. The drying substance in the digestion tower is constant, and sedimentation in the piping system, such as grease, is prevented. The homogenous nature of the sludge treated by the TDC means continuous operation is not a problem even at weekends. Following the thickening process on the TurboDrain™, the sludges are dewatered using a WinklePress™.

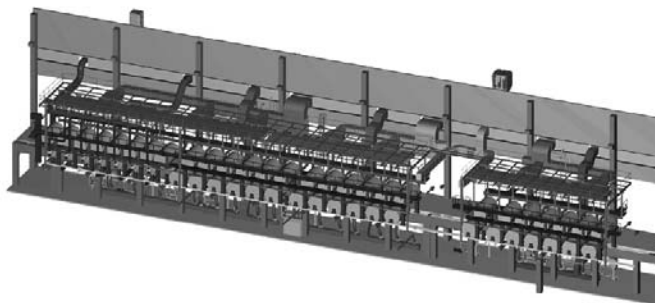


TDC: providing all-round benefits at in Renningen

LANG-HAFNER saves energy for Mitsubishi paper mill in Bielefeld

Mitsubishi HiTec Paper Bielefeld GmbH is known for its top quality special papers. Bielefeld is the production site for thermoscript, giroform, jetscript and supercote papers. The company has set an extensive energy saving programme in motion for PM 1. In addition to a complete machine air system upgrade, Mitsubishi has specified a complete overhaul of climate control in the production hall. The hood's rolling curtains will be replaced by insulated lift gates, which will allow the operation dew point to be increased to approximately 58° C. The machine will be equipped with a new wire blower unit which will help enhance water vaporisation. The re-modelling and integration of the heat recovery plant (air/water) will optimise use of energy from the hood exhaust air. A secondary hot-water circuit will be installed for heating in the new hall ventilation system. Thanks to the energy

that will be recovered from the hood exhaust air, it will be possible to oper-



Efficient use of primary energy through advanced air technology

ate the new hall's ventilation without additional primary energy. In addition, the existing steam and condensate system is to be optimised. The update of the existing equipment will ensure more flexible and secure operation for the production of the company's wide range of products. An important aim for the project as a whole is to achieve efficiency in PM 1's use of primary energy. The modernisation work will be undertaken by Bellmer subsidiary company Lang-Hafner, which has formed part of the Bellmer group since 2007.

The new WinklePresses™ wins more fans: Excellent performance in Bad Salzuflen

Two new WPN-K 2 WinklePresses™ have been operating at the sewage treatment plant in Bad Salzuflen since November 2007.

Both units are equipped with a high-pressure nip zone, ensuring increased final dry content, and they have coped well with dewatering digested sludge. By adding a BELLMER MIXING UNIT™ BMU to each press, the sewage plant

team at Bad Salzuflen have ensured efficient and economical polymer dosing, and this will benefit everyone from the plant to the community as a whole. During a recent routine check of the new WPN units, performance results proved very positive.

The operating values of the two WinklePresses™ speak for themselves: 27 – 30 % final dry substance in continuous operation and consumption of polymer at 2 g/kg dry substance is below the value achieved using the previously installed belt filter tools. Also in terms of wear and tear, the management at Bad Salzuflen is confident they have chosen well – the WinklePress™ is, after all, renowned for its excellent quality. Mr. Erzenjak and Mr. Kraatz have already been happy to confirm that purchasing the WinklePresses™ was the right decision.



Robert Erzenjak, waste water expert (left) and Torsten Kraatz of the civil engineering office (right) are very satisfied with the new WinklePresses™

continued from page 1

"Mondi's best rebuild in South Africa"

is market leader in fluting papers - decided to upgrade its PM 3.

Since Mondi has had a very positive experience with its Bellmer EQUALReeler™ in the Springs mill, the management decided to undertake this challenging project with Bellmer at the Felixton mill, too. Bellmer was the general contractor and assumed responsibility for all components from the headbox to the pope reeler. The core part of the project was the rebuild of the press section with integration of a TwinningPress™ shoe press suitable for linear pressures up to 1,200 kN/m. The scope of the project also included extensive improvements to the approach flow, plus wire and dryer sections. The scope of supply also included two Bellmer EQUALPulpers™ to improve stock pulping.

The rebuild of the paper machine was completed with the installation of an EQUALTransporter™ system, including a new EQUALUnwinder™ unwinding station for the existing slitter winder with automatic reel transport system from the Bellmer EQUALReeler™ up to the unwinding station. The rebuild will result in an increase of production from 110,000 to 155,000 tons per year. Full production capacity will be reached in 2009.

Start-up of the upgraded PM 3 was successfully performed in the 1st quarter of 2008.



Linear pressures up to 1,200 kN/m thanks to the TwinningPress™ shoe press

Mill Manager Brian Smith reported the upgrade to be "...the best rebuild Mondi Packaging did so far in South Africa." We feel proud to have worked on site with Mondi's multi-national team, and to have been part of such a successful project.

BELLMER compact press for Mochenwangen Papier

Mochenwangen Papier focuses on special printing papers which are individually adapted to the needs of publishers, print shops and paper converting companies. This is a



service which many large-scale paper manufacturers are simply unable to offer. Mochenwangen's management places high importance on operational flexibility and responsiveness. A highly motivated staff of 190 produces about 115,000 tons of paper every year. Mochenwangen has supplied much of the paper used for the



President Dr. Jürgen Hellwig and his team after signing the contract at Bellmer

famous Harry Potter books, thanks to its ability to be flexible and adapt to individual requirements. The press section of PM 3 is about to be rebuilt in order to increase production further. PM 3 is used to produce special book and offset papers which are highly regarded by publishers of hardcover books, paperbacks, comics, as well as for business and market reports.

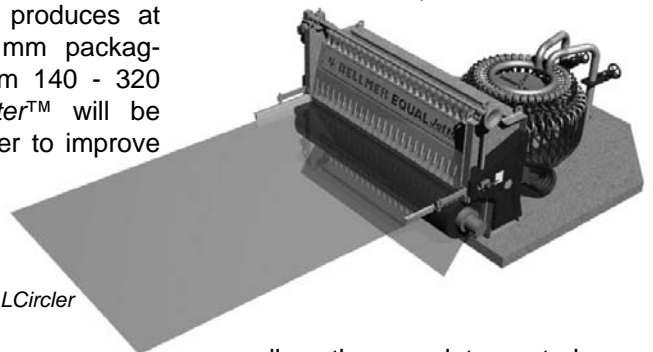
The main element of this rebuild project is the supply of a Bellmer compact press. Part of the specification is to ensure that the press section is laid out in such a way that an additional press nip can be added in the future if required. The rebuild will help to enhance reel offset paper production and eliminate free draws. Post-press dry content will also be improved. Bellmer is the general contractor for this modernisation project and has also assumed responsibility for planning the piping system. Dr. Jürgen Hellwig, president of Mochenwangen Papier, predicts a positive outcome: "The preparation process has proceeded smoothly and cooperation with Bellmer has fulfilled all our expectations so far."

Two new EQUALJetters™ for Chenming in China

The North East of China is known for the production of high class packaging grades. Renowned specialist in the production of various packaging grades, the Chenming group, has decided to upgrade the 4-layer process in Qihe. With a view to improving formation and cross direction (CD) profiles, two new high class hydraulic headboxes have been ordered from Bellmer. The machine produces at 700 m/min on 4,875 mm packaging grades ranging from 140 - 320 g/m². One EQUALJetter™ will be installed on the top layer to improve

equipped with our circular distributor EQUALCirclerProfile™. Combined with the embedded dilution water control system EQUALDiluter™, Chenming will be able to control and automate the provision of optimum weight distribution across the width of the paper machine.

The Bellmer scope of delivery includes the two headboxes, circular distributor



The new headbox system for Chenming including EQUALCirclerProfile™

formation of the visible - and therefore critical - sheet. In order to optimize the cross direction profiles, a second EQUALJetter™ will be installed for the middle layer. This headbox will be

as well as the complete control system for dilution control, including the EQUALSolver™ workstation. The new equipment will communicate with the existing scanner and related quality control system.

11 more WinklePresses™ for SHAANXI TONGDA

The Chinese SHAANXI TONGDA FRUIT JUICE & BEVERAGE GROUP CO., LTD. specialises in the extraction of juice concentrates, typically from apples, pineapples, or pears. Ten Bellmer WinklePresses™ WPX size 3 (20 tons/hour) have been successfully operating at the company's various locations for several years. Just recently, SHAANXI TONGDA has again placed its faith in Bellmer



technology and has ordered 11 more WinklePresses™. Five presses will be installed at the company's entirely new production plant in Jingning. This site



Location Maoyuan will be equipped with another 5 new WinklePresses™ WPX

will be built completely from scratch and will be opened this year. Within the two-step press process, three of the WinklePresses™ WPX serve as pre-presses and two as post-presses. Three WinklePresses™ are already in use at the company site in Maoyuan. This location is now due to be ex-

panded and the number of machines increased to eight. Five units will be used as pre-presses and three as post-presses. And there is something rather special about the Maoyuan: all presses can be driven simultaneously and independently from a 50 m³ mash tank, with fully automatic operation via PLC and touch panel. Production capacity in Maoyuan is 80 t/h.

Two WinklePresses™ WPX are in operation at the Zhongwei plant, too. For here, SHAANXI TONGDA has ordered another unit with a view to creating in a two-step press process an optimum yield with two pre-presses and one post-press.

Our youngest WinklePress™ expert

Not yet steady on his own two feet but already a real expert in the field of optimum sludge dewatering: during a visit with his parents the IFAT 2008 tradeshow in Munich, toddler Julian Weller demonstrated just what joy the WinklePress™ can bring.



Girls' Day 2008 at BELLMER

On Girls' Day, female students nationwide get a chance to take a closer look at factories and learn about jobs connected with technology. At Bellmer, the girls aged 11 to 17 were first given a guided tour around the company to provide them with basic understanding of modern production methods.



A perfect Girls' Day at BELLMER

After that it was "hands on". In our training centre they had to perform a bending operation, in which all participated with enthusiasm. After considerable concentration and patience, the desired result was achieved: a metal heart. In the department for mechanical processing the girls were given a short introduction before a receiving a thorough, practical grounding in milling. CAD in our design office was very popular. During lunch time - which they spent with our trainees - the girls were eager to find out about the various job functions at Bellmer. "Great ideas, an exciting programme, a perfect day!" said one of the ten participants after a thrilling Girls' Day 2008 at Bellmer.

Festive church concerts in Niefern-Öschelbronn

The church concerts in the community of Niefern-Öschelbronn have become an established tradition. This time, they featured German and Italian Baroque compositions.



A treat for the ears in festive scenery



The showpieces of these festive evenings were "Magnificat" and "Gloria" choral works by Antonio Vivaldi. Another gem was Georg Philipp Telemann's "Overture" for alto recorder and orchestra. The performers received standing ovations. Bellmer is proud to sponsor such inspirational events.



Gegr. 1842

BELLMER

Gebr. Bellmer GmbH Maschinenfabrik • Hauptstraße 37 - 43 • D-75223 Niefern-Öschelbronn
Tel. +49 (7233) 74-0 • Fax +49 (7233) 74-100 • E-mail info@bellmer.de • <http://www.bellmer.de>

Pulp & Paper Technology Separation Technology