



BELLMER

INFO 73

Paper Technology
Separation Technology

BELLMER Ibérica S.L. Spanish specialists unite with German machine builder

Bellmer opened a subsidiary in the Iberian Peninsula on 1 July 2010. The new operation has more than 20



The Bellmer Ibérica team in Tolosa...

specialist staff located in Tolosa and Valladolid, all of whom have considerable experience in the paper industry. They include skilled papermakers and former employees of renowned paper machine builders such as Beloit, Enertec and Gorostidi. Unai Galarraga, Bellmer's long-standing representative in the region, has assumed the role of managing director at the new subsidiary.

Bellmer Ibérica's main target markets are Spain, Portugal and South America, where it takes care of consulting, sales, engineering and service for new and existing

customers. The use of the customer's native language will be a considerable advantage for the new operation – it will aid communication and help ensure that projects run smoothly. The recruitment of local specialists means the Bellmer Group will be in a position to supply lamella headboxes as well as film presses. The young Spanish team have notched up some early successes such as the order for the rebuild of the paper machine at Papelera de la Alqueria, as well as a move-and-modernise project in South America. All machines and products are manufactured at Bellmer's headquarters in Niefern.



...and in Valladolid

Resource-saving sludge treatment by the specialists: BELLMER success at IFAT ENTSORGA 2010 exhibition

The issue of natural resource management concerns us all, which is why Bellmer developed the TurboDrain™ Green for sustainable and environmentally friendly sludge thickening. Bellmer took the opportunity to present this new technology to international trade visitors at IFAT ENTSORGA 2010. The TurboDrain™ Green offers the following advantages:

- 10 % less energy consumption,
- 20 % less polymer consumption,
- 30 % less water consumption.

All of which means a considerable reduction in operating costs. On request, the TurboDrain™ Green can

be equipped with a cover to prevent airborne particles or for noise reduction, making it highly operator-friendly. The new development was something of a show-stopper, and made quite an impression on the numerous visitors



Minister Tanja Gönner visits Bellmer's booth

Dear Info Reader,

Good human relations based on mutual respect and teamwork are today, perhaps more than ever, a cornerstone of business culture. When the going gets tough economically, contrary to received wisdom, one's own success depends first and foremost on positive cooperation with other companies. Bellmer Ibérica, Bellmer Group's new subsidiary, can already report its first successes in the Iberian market. These are fruits of the teamwork between Bellmer and Bellmer Ibérica, and testament to the positive relationship which exists among staff at Bellmer's new subsidiary. Close partnership between customer and supplier has also been a top priority during the substantial project with Mondi Syktyvkar in Russia. Likewise the cooperation between Bellmer Kufferath Machinery and REW Schillingmann, as well in the follow up after the commissioning of Bai Bang plant in Vietnam. Last but not least, close partnership was an essential ingredient in achieving the level of service provided for Cordier. Enjoy Info 73!

Yours sincerely,
Philipp, Martin and Erich Kollmar



who came to take a closer look, including Tanja Gönner, federal state of Baden-Württemberg's minister for the environment and transportation.

This year, Bellmer was represented in Munich for the first time along with its subsidiary Bellmer Kufferath Machinery. BKM - the world's leader in the field of screw press technology - has developed and supplied AKUPRESS screw presses for 25 years.

WinklePress™ - ideal preparation for drying plants

Sewage treatment plants commonly process dewatered sludge using solar drying equipment. More innovative plants go a step further and use biogas waste heat as well as solar energy.



The WinklePress™ is the optimum starting point for your drying tasks

Drying plants perform best when the sewage sludge has a homogenous structure and the highest possible dry substance content. For some years now, the "Oberes Mühlbachtal" Association for Sewage Treatment has focussed its project "sewage sludge drying using biogas waste heat" on achieving such an outcome. Their solar drying plant is operated on the

basis of the "EDC process" and the sludge, dried off to 90 %, is used as fuel for the building material industry. Biogas is generated by fermenting corn, liquid manure, and grass silage.

The floor heating in the plant is based on biogas waste, which dries the sewage sludge in combination with solar drying. The dewatered sludge is fed to the drying plant by the two sewage treatment plants run by the Sulz and Sulz-Bergfelden municipalities. In those two plants, the collected sludge is dewatered using the Bellmer WinklePress™ up to 30 % dry substance, which is an optimal state for subsequent solar drying. Thanks to a cleverly devised process technology, the WinklePress™ is able to ensure that the "raw material" for the solar drying plant always arrives with optimum dry content.

Even the Federal President is interested in the AKUPRESS®

The 2010 HANNOVER MESSE, featuring 4,800 exhibitors from 64 countries, once again took the top spot among international tradeshows. One hall was devoted to renewable



Federal president Christian Wulff gets the low down on AKUPRESS

energy sources such as wind, solar, bio and geothermal energy, and it was here that Bellmer Kufferath Machinery's partner company REW Schillingmann presented a range of technologies, including an AKUPRESS®AL type screw press. Visitors' interest in this unit was considerable to say the least. Representatives on the stand met a steady flow of potential customers, such as operators or general contractors of biogas plants, but also with representatives of municipalities, energy suppliers and even high-ranking politicians. Without doubt the most prominent visitor was Christian Wulff, the new German federal president (former prime minister of Lower Saxony), who wanted to know how the AKUPRESS works and what it does.

Green light for sewage upgrade in Cuxhaven

Sewage from private households and industrial users has to be treated appropriately before the water can be returned to the natural cycle. In Cuxhaven this important responsibility rests on the shoulders of dewatering company Entwässerungsgesellschaft Cuxhaven mbH (EGC). EGC relies on modern waste water purification technology to carry out its duties and sustain the natural water cycle. However, the results achieved through excess sludge thickening were not satisfactory, so EGC started to research new options for thickening which would achieve a better outcome, while at the same time improving energy efficiency. The decision in the end was to order two size 1 TurboDrain™ Green units for



The compact TurboDrain™ Green....

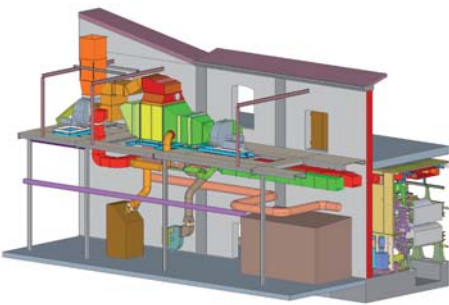
Cuxhaven's sewage plant. The TurboDrain™ Green's energy saving motor will produce a reduction in energy consumption of 10 %, and the unit's special process technology will yield a polymer saving of up to 20 %, while cutting water consumption by 30 %. The special operator-friendly construction to avoid airborne particles combined with the unit's odour cover persuaded Mr. Rath, manager of EGC North, that TurboDrain™ Green was the way to go.



...presents the inside story, revealing some of its technical secrets

GRÜNPERGA Papier GmbH Modification of air technology on PM 6 - A real challenge

In August 2010, GRÜNPERGA Papier GmbH in the east of Germany took delivery of a fully insulated hood for PM 6, and the machine-related air technology system was completely modernised at the same time. PM 6 produces greaseproof papers of 30 – 80 g/m² and crepe papers in the range 40 – 120 g/m², used for coffee filters, for example. The project's targets were to reduce the specific primary energy consumption and simultaneously to increase the machine's production speed.



The new custom-made air technology system

And this project included a real challenge: an efficient, custom-made hood had to be integrated within the confines of the existing building. In addition, the entire machine-related air technology had to be designed, manufactured and supplied in modular construction for installation outside the PM hall: the reason being that neither truck-mounted nor construction cranes were able to access the installation site. The Lang-Hafner team did an outstanding job in overcoming this challenge, and the result was a fully satisfied customer. Another hurdle was that GRÜNPERGA needed the new hood installed within a strict time window of just five days. Since there was no hall crane for mounting the hood, almost every element had to be lifted into place manually. Ulf Ender, managing director of GRÜNPERGA Papier GmbH, praised Lang-Hafner's skill, flexibility and effectiveness from initial installation through to startup. "With Lang-Hafner, we chose the right partner", said Mr Ender. Operating personnel have also been very pleased with the significant improvement in working conditions in the production hall made possible by the modernised air system.

BELLMER for Mondi Syktyvkar: BM 21 for white top kraftliner successfully commissioned

Bellmer has completed the modernisation of BM 21 at Syktyvkar in



Part of Bellmer's scope of supply: the TwinningPress™

Russia. Bellmer is proud to have earned the trust of an international group such as Mondi, which has mill locations throughout the world.

The main objectives of this upgrade project were to improve the quality of white top kraftliner produced on board machine # 21 as well as achieve a sustained increase in production – both ambitions have been realised. Bellmer completed the BM 21 rebuild in September 2010, and the machine, with its operating width of 6.30 metres, had a problem-free restart. The upgraded machine has a production capacity of 280,000 tons / year which means an increase of approxi-

mately 30 %. The enhanced white top kraftliner made on BM 21 is supplied to Russian and export markets.

Bellmer's scope of supply included two TURBOShakers™ for breast roll shaking, a TwinningPress™ shoe press for linear pressures up to 1,200 kN/m, a fully automatic EQUALReeler™ with reeling hardness control as well as a film press made by UMV. The Mondi crew led by BM 21 production manager Leonid Durnev, was very pleased with the way Bellmer handled this substantial and challenging project.

Bellmer is proud to have played a major role in one of the greatest modernisation projects in Russia's pulp and paper industry.



Successful teamwork between Mondi and Bellmer

Vietnam Paper Corporation rebuilds PM 1 and PM 2 at Bai Bang mill

The majority of Vietnamese paper mills form part of the state-owned group Vietnam Paper Corporation (Vinapaco), including the Bai Bang plant in Phu Tho Province, where two existing paper machines produce writing and printing papers in the basis

weight range of 40 – 120 g/m². Vietnam is a country with great aspirations, and quality expectations have been growing continuously. So it made sense to work on paper quality as part of an output-boosting rebuild of PM 1 and PM 2 at Bai Bang. Bellmer



Rebuilds like the Bai Bang project are a Bellmer speciality

came out on top in the tender process, and installed a UMV Twin Sizer HSM film press on PM 1 to improve rigidity. PM 2 was fitted with a TurboShaker™ for high-frequency shaking of breast rolls, while a Bellmer WinkelFormer™ top wire unit has enhanced the dewatering performance and thus the productivity of PM 2's wire section. A positive side effect is the significant improvement in sheet structure.

Well planned press section reconditioning

Cordier Spezialpapier GmbH consists of three companies specialising in the production of various paper grades. Papierfabrik Schleipen, based in

and that is would be necessary to replace almost the entire top frame and catwalks on the press section. Manufacturing and



Mr. Hinkel (right) and Mr. Bauer (middle) were delighted with Bellmer's service performance

Bad Dürkheim, is Germany's market leader for graphic papers, which are used mainly in the book printing sector. Bellmer's service team was asked to check some severe corrosion on the longitudinal beams of the PM press section. The team ascertained that a repair was out of the question,

and planning began and, thanks to a meticulously planned installation process, the modification project was problem-free and completed within a tight timetable. The restart was equally successful. The press nip geometry was totally unaffected by the rebuild, and

Papierfabrik Schleipen management declared itself entirely satisfied with Bellmer's service team. In his letter of thanks, plant manager Mr. Hinkel said: "... based on what it has achieved with this rebuild, Bellmer can count itself as our partner for future projects."

11th BELLMER Cup - another footballing success!

For four days, 40 teams fought for every goal, point and victory. But the priority, as always, was to have fun.



This is what winners look like

The tournament kicked off with matches for the "Bambini" kids and youth teams. The evening of the first day of the tournament saw the Niefern women's first team notch up a close

victory over their football league rivals. The main regional company tournament took place on Friday and Saturday - two days of thrilling, top class football. In the end, PKD-Schmitt's team from Niefern clinched it, defeating Döbke from Karlsruhe in the final. On Sunday, eight amateur teams played a mini-tournament with a special twist: each team featured at least two women. As

in previous years, our thanks go to Niefern soccer club for organising an outstanding tournament, and we are already looking forward to the 12th Bellmer Cup in 2011.

Pulp under control with the Jokro mill

Originally built by Wolff & Söhne, the Jokro mill makes it possible to evaluate pulp strengths precisely on a laboratory scale. Based on technology developed by engineers Jonas / Kross (= Jokro) the unit features standardised and reproducible grinding treatment of pulp grades according to German Industrial Standard DIN 54360. The



The specialist for your pulp: The Jokro mill

precision of the Jokro mill's construction and the meticulous design of features such as the grinding system ensure results the operator can rely on. Since the number of rotations, grinding pressure and pre-selectable duration of the grinding process are accurately recorded, the desired results are quick to achieve. Ease of use is assured thanks to Jokro mill's automatic system for user-defined adjustable grinding time and grinding cycle. This also reduces monitoring effort and eliminates common sources of error. Rest assured, the Jokro mill is covered by Bellmer's rock solid spare parts service.



Precision down to the last detail is reflected in the measuring results



Gegr. 1842

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