

## Press release

### **ANDRITZ GROUP**

Solid business development despite difficult economic environment

### **ANDRITZ HYDRO Pumps**

- Innovative solutions for pump applications in the pulp and paper industry
- Come and see us at Zellcheming: Hall 5, Stand 522
- Press information at the stand: June 23, 2009, 11:30 a. m.

### **ANDRITZ PULP & PAPER**

- Start of complete packing paper line in China
- Come and see us at Zellcheming: Foyer 1<sup>st</sup> floor, Stand 100
- Press information at the stand: June 23, 2009, 12:00 noon

**ANDRITZ GROUP:****Solid development in  
a difficult environment**

Headquartered in Graz, Austria, and with a staff of 13,600 employees, the **ANDRITZ GROUP** is one of the global leaders in each of its five business areas: HYDRO, PULP & PAPER, METALS, ENVIRONMENT & PROCESS, FEED & BIOFUEL.

Despite the difficult economic environment, especially during the fourth quarter of 2008, ANDRITZ saw a satisfactory business development **in 2008**, increasing its **sales** for 2008 to 3,609.8 MEUR or 10.0% above the value for the previous year (2007: 3,282.5 MEUR). **Order intake** was 3,705.3 MEUR, just slightly below the record value achieved during 2007 (3,749.5 MEUR).

At 4,277.4 MEUR, **order backlog** as of December 31, 2008 was 11.3% higher than the previous year's value (December 31, 2007: 3,843.3 MEUR). The **net income** excluding minority interests increased to 139.7 MEUR in 2008, after 134.5 MEUR in 2007.

**The first quarter of 2009** also developed favorably in spite of the continuing difficult economic environment. The ANDRITZ GROUP'S **sales** during the first quarter of 2009 amounted to 790.1 MEUR, an increase of 5.2% compared to the reference quarter of last year (Q1 2008: 750.9 MEUR). **Order intake** amounted to 981.4 MEUR during the first quarter of 2009, a decline compared to the very high level of the reference period (Q1 2008: 1,195.7 MEUR), but an increase of 22% versus the fourth quarter of 2008. **Net income** excluding minority interests amounted to 25.7 MEUR in the first quarter of 2009, thus 14.9% below last year's reference value (Q1 2008: 30.2 MEUR).

In particular, the **HYDRO business area** developed very successfully and achieved substantial increases in sales, order intake, order backlog, and earnings versus the previous year. The favorable development of the **pumps division** made an essential contribution.



**ANDRITZ HYDRO Pumps:**  
**Innovative products and**  
**competent service**

The pumps division, as part of the ANDRITZ GROUP'S HYDRO business area, a world leader in the supply of turnkey systems and services for hydropower stations, develops and manufactures pumps for different applications.

Decades of experience in hydraulic machinery construction and comprehensive process know-how form the basis of the high design standards applied to ANDRITZ Pumps. ANDRITZ offers development, model testing, design and engineering, fabrication, project management, service, and training – all from a single source.

ANDRITZ Pumps offers innovative solutions . . .

. . . for a wide range of applications in:

- **pulp production**
- **waste paper treatment**
- **paper production**
- **chemical industry**
- **food industry**
- **waste water cleaning**

. . . in **water transport** for:

- irrigation and drainage
- drinking water supply
- industrial water supply

. . . in **power supply**:

- as cooling water pumps
- as reactor pumps
- in flue gas desulphurization plants

. . . as modern **steam heating systems** in:

- industrial power plants in the event of production interruptions (e. g. web breaks on paper machines), in order to retrieve energy and deionized water at 95%
- for gentle heating of low and medium consistency stock suspensions.

**ANDRITZ HYDRO Pumps at Zellcheming 2009: press information at the stand (Hall 5, Stand 522), June 23, 2009, 11:30 a. m.**

At Zellcheming, **ANDRITZ HYDRO** presents its comprehensive centrifugal pump program. As **exhibits**, the newly developed medium-consistency pump from the MC series for stock suspensions of up to 16% b.d. and capacities of up to 5,000 m<sup>3</sup>/h, and a chest propeller of the TMX1000 series are shown.

At Zellcheming 2009, ANDRITZ presents not only the operating experience and savings achievable with the **ANDRITZ medium-consistency pump**, but also the energy recovery potentials through the **ANDRITZ steam heating system** in the DSHP series. The Dynamic Steam Heater Propeller (DSHP) comes to play in industrial plants in the event of production interruptions such as sheet breaks on a paper machine. It enables recovery of up to 95% of the energy and the deionized water.

**Attend the reading of the paper on “Energy saving by efficient conveyance of medium-consistency media“, June 25, 2009, 10:00 a. m.-12:30 p. m, Room 7**

The **MC pump series** developed by ANDRITZ for conveying medium-consistency stock suspensions (up to 16%) is setting new standards with regard to efficiency, maintenance, and variety of uses.

Thanks to new technologies for fluidizing and degassing stock suspensions, the pump works without additional internal or external vacuum pumps. It is thus the first single-shaft solution for pumping stock at medium consistency with unsurpassed efficiencies. The prime development goals for the new ANDRITZ medium-consistency pump were **simple handling, high process stability, and an outstanding efficiency.**

To operate conventional medium-consistency pumps, complex handling and adjustments are required. Studies have shown that huge benefits can be obtained for customers by eliminating the vacuum pump required for the conventional MC system to function. Substantial reductions of the capital and maintenance costs are possible. High efficiencies lead to major energy savings.

Knowing where and when the air is separated from the stock is the key to successful medium-consistency pumping. As MC pumps are process-critical components, **comprehensive tests** were run under industry conditions in a pulp mill. All results from the tests in the trial loop were confirmed, as was process stability.

ANDRITZ thus offers the **first practically tried and tested** single-shaft solution for pumping medium-consistency stock. ANDRITZ MC pumps are already in successful operation all over the globe. Due to the patented de-gassing system, the usage of a vacuum pump is no longer required. Highest efficiencies lead to considerable energy savings for pump operation and to short pay-back periods.

**ANDRITZ PULP & PAPER  
at Zellcheming 2009 (Foyer 1<sup>st</sup> floor,  
Stand 100):**

- **Start of a complete packing paper line for Hebei Yongxin Paper, China**
- **State-of-the-art PrimeLine machine concept**
- **Complete automation**

In April 2009, ANDRITZ **PULP & PAPER** business area successfully started up the packing paper line delivered to Hebei Yongxin Paper Co. Ltd., the PM 6. Hebei Yongxin Paper is a leading supplier of high-quality packing paper products in Tangshan, Hebei Province, China.

A **complete ANDRITZ solution** from front to end: the supply comprised a complete stock preparation plant, the packing paper machine with a wire width of 6.2 m and a design speed of 1,100 m/min, a winder, and the complete automation plant.

The stock preparation system consists of an AOCC line for 350 t/d, a LOCC line for 1,000 t/d and an UKP line for 200 t/d for the top ply. Both OCC lines contain a FibreSolve pulping system of the latest design, operated at low consistency and with minimum energy input. The pulpers are followed by thick-stock cleaners, coarse screens, fractionator, cleaners, fine screens, dispersers, thickeners and refiners. The approach flow system consists of a screening system with slot screens for the three board layers.

In addition, the ANDRITZ scope of supply contained the fibre recovery, broke system and machine pulpers.

The **PrimeLine machine** has three headboxes of the PrimeFlow type, one of which is equipped with a dilution control. The three-layer wire section, the PrimeForm SW, is built according to the cantilever design, the press section contains a double shoe press (PrimePress X Twin). It ensures **efficient, gentle dewatering** without reducing the bulk too much.

The entire drying process is based on dryer groups which have partly one, partly two cylinder rows, and is equipped with a film press with air deflection system. The hard-nip calender smoothes the liner. To ensure that the freshly coated liner, which is still wet, can be deflected without roll contact, PrimeAir Glide was installed in addition. To reduce downtime and to increase operating safety, three PrimeFeeder systems were installed. With the PrimeReel, parent rolls of a up to 3.6 m in diameter can be achieved.

**ANDRITZ Automation** supplied the complete DCS system for the entire production line, including the stock preparation, the paper machine, dryers and the paper finishing. The service consisted of the start-up, commissioning, and remote-maintenance. The entire product portfolio conforms to the high quality standard of ANDRITZ Automation and makes easy monitoring of the entire plant possible for the customer.

On the occasion of the official inauguration of the packing paper line in April 2009, Mr. **Wu San Luo, Hebei Yongxin Paper's General Manager**, declared: "Thanks to the excellent ANDRITZ technologies and the good cooperation, the start-up went very smoothly. We are confident that our new line will cover the growing demand of packing paper in Northern China".

The **flow of the start-up process** confirms the successful work done by ANDRITZ:

- April 1, 2009: first stock on the wire,
- April 4, 2009: first paper in the film press pulper,
- April 6, 2009: first complete sheet at the reel,
- April 9, 2009: first complete parent roll without sheet break,
- April 10, 2009: first roll cut.

This order and the successful start-up again confirm the competence of ANDRITZ PULP & PAPER in supplying high-quality, complete systems from a single source.



**New Paper Technology division founded to respond to customer requirements even better**

In view of the recent successes with board machines and to even better respond to customer requirements, a new division was established within the ANDRITZ PULP & PAPER business area. The new **Paper Technology division** is composed of the former Paper Machines and Paper Finishing divisions and will concentrate on the development of new products and high-tech solutions in the area of paper machines.



**Tomas Nölle strengthens the ANDRITZ Küsters team**

New ideas and challenging goals are the objectives that **Tomas Nölle**, new Vice President of Paper Machines at ANDRITZ Küsters, brings to his new position in Krefeld: “We want to further enhance our technological strengths and expand this experience and competence to strengthen our position in the paper machine market for the long run”. Thomas Nölle further emphasizes that the knowledge base to reach these goals is already in place in the Krefeld and Bülach locations, with extensive experience in the finishing of all kinds of paper, and especially the production of specialty paper grades. “The goal is to further expand this expertise and to offer **complete paper machines** to our customers in the foreseeable future”, notes Thomas Nölle. An example of this commitment is at the Krefeld site where the extension of the competence center for rolls, calenders, and presses is part of the immediate growth goals.

Tomas Nölle, who is a graduate from the Technical University of Magdeburg, was previously managing director at the PAMA company in Freiberg, Saxony. His areas of responsibility included development, sales, engineering, and project management for a period of over 20 years. His experience, insight, and technical knowledge will benefit the new Paper Technology division.



### **Wet-lay technology from ANDRITZ Küsters**

**Custom-tailored solutions for the wetlaid nonwoven industry** from ANDRITZ Küsters with the neXline wetlaid® program: the portfolio reaches from individual retrofitting of an inclined wire section to design, implementation, and commissioning of entire wetlaid lines. ANDRITZ Küsters' inclined wire section, and its core, the neXformer®, opens this market segment also to producers of niche products from special fibres such as aramide, carbon, microglass or other high-tech fibres.

**A wetlaid laboratory line in the ANDRITZ Küsters technical center** makes it possible for customers and prospectives to run basic trials or conduct individual product developments. The results achieved in the laboratory trials are conclusive and provide the basis for the design of production lines.



**ANDRITZ product presentation at Zellcheming 2009:  
press information at the stand (Foyer  
1<sup>st</sup> floor, Stand 100), June 23, 2009,  
12:00 noon**

The **new PrimeRun web stabilizing system** best serves high-speed, single-layer paper and paper board machines (>1,000 m/min). It can be used for new machines but also for reconstructions. PrimeRun contains the following components:

- suction boxes, the PrimeRun D and PrimeRun HV;
- a PrimeVac vacuum roll.

The components interact to create a **clear improvement of the web and machine run**. Take-off of the web from the dryer cylinder is optimized and the risk of sheet breaks is minimized. The system also enables increases of the production speed.

The PrimeRun HV suction box and the PrimeRun D system have separate fans, thus giving **optimum and energy efficient performance** under changing conditions. The proven sealing system completes the PrimeRun. To support web threading and especially, effective widening of the sheet, all PrimeRun components are designed with a special suction zone on the drive side.



### Web stabilizing system for Sappi Austria successfully started up

In late 2008, ANDRITZ successfully started up the PrimeRun web stabilising system at **Sappi Austria Produktions-GmbH & Co. KG**, a leading producer of woodfree coated fine papers located in Gratkorn, Austria.

The ANDRITZ scope of supply comprised the newly developed PrimeRun HV web stabilizers, the PrimeRun D and the PrimeVAC vacuum rolls, which were installed in the single-row dryer section of the two paper machines, replacing existing components. Although the schedule for the rebuild was just six months for PM 9 and just eight months for PM 11, ANDRITZ completed the upgrade in a timeframe of four and three days, respectively. The agreed targets – **increase of the velocity, secure threading and faster widening** – were soon achieved and the efficiency of the two paper machines thus increased further.

- **Prime Feeder now also in and after the press section**
- **We also invite you to attend the reading of the paper on “Web threading . . . or the risks of daily business“, by Jens Köster, at the exhibitors’ forum on June 23, 2009, 02:55-03:20 p. m.**

After a system extension, the **Prime Feeder** now also makes the transfer of the tail in the press section and/or between the press and the predryer sections possible. A special doctor removes the tail from the upper press roll and transfers it, for instance, to the following vacuum belt (JetBelt). Contactless removal of the tail from the felt is also a possibility. In this variant, the tail can also be handed over to the vacuum belt, or to the rope nip in the predryer section. Both system components have been proven in practical operation, allowing customers to make a further step toward systematical **optimization of the threading processes** in conjunction with **increasing operating safety**.

- **Competence extension for press and threading systems**
- **First TriNip shoe roll on order**

The shoe presses developed by ANDRITZ Küsters are meeting with very good response from the tissue and also the board and pulp markets. This is the reason why the **competences for presses will be combined** at the site in Krefeld in the future. Not only will the press modules be developed and manufactured there, but: “in addition to shoe presses, we will also offer conventional presses and upgrades“, as **Harald Suttor**, the head of the Paper Technology division, outlines this favorable development of the Krefeld site. He also stresses the comprehensive experience gained in the past years in this field. “Thirteen shoe presses have been started up since 2001, a further seven are planned for the current year. And we have gained a good reputation in solving also somewhat more intricate and challenging tasks posed by customers.”

After receiving the first order for a TriNip shoe press, Harald Suttor is pleased that the ANDRITZ site at Krefeld is not associated exclusively with rolls and calenders but also with presses and threading systems. According to Harald Suttor, this is clearly proved by the fact that 20 projects involving presses and web threading are being processed at the moment.

- **Prime Coat Curtain: successful start-up for the Cham Paper Group (CPG), Switzerland**
- **We also invite you to attend the reading of the paper on “Paper and cardboard coating – steps towards curtain coating“, by Bruno Holtmann, at the exhibitors’ forum on June 24, 2009, 02:30 p. m.**

**ANDRITZ BMB coating technology** can also cite successful projects. The first curtain coater started up by the **Cham Paper Group (CPG)**, Switzerland, deserves special mentioning. The multi-layer coating head (two layers) was installed in coating machine 5: it can apply the coating on full width (overboard) or leave the edges free of coating (inboard), and the curtain height and the sheet inclination are variable.

This emphasis on **production flexibility** is attributable to the customer’s wish to use the plant for production development as well.

The Prime Coat Curtain has a maximum working width of 3,200 and 3,280 mm, depending on the operation mode. It can work with paper basis weights between 60 and 200 g/m<sup>2</sup> and at design speeds of up to 1,000 m/min.

**Nanoflex<sup>®</sup> formation wire:  
New development for targeted and clean dewatering**

Especially high-performance machines tend to show undesirable water and fibre drag, with the consequence of fibre losses, dirty plants and sheet breaks. **ANDRITZ Kufferath** in Düren, Germany has responded to this problem with a **completely new wire design: Nanoflex<sup>®</sup>**, which is similar to the three-layer SSB but thinner, with elevated water permeability.

- **Bar-Tec™ W Rejector/WM screen basket: further development of the successful screen basket technology**
- **Ro-Tec Dolphin™: energy efficiency in screening with optimized foil design**

While the plain weave on the top layer gives higher fibre support, the open texture allows reduction of the water retention. The result is **clean plant operation** and a **reduction of the number of stops for cleaning**.

After intensive research and development work, **ANDRITZ Fiedler** in Regensburg, Germany offers **two new products** in the screening equipment area:

The **Bar-Tec™ WM screen basket** features excellent roundness, precise slot width distribution and perfect cylindricity. A new development is that the laser rings and profile bars can be connected without weld seams. The slot width tolerance was considerably decreased and the stability of the basket increased. The extraordinary surface finishing quality of the bar and the support ring works against clogging and fibre build-ups.

**Rejector bar screen baskets** are the latest product in the Bar-Tec™ screen basket family. They ensure optimum removal of impurities in the first screening stage and clearly relieve the downstream screens. They are the alternative to perforated screen baskets in coarse screening. Bar-Tec™ W rejector-bar screen baskets have a very sturdy structure and the specific profile bar geometry developed by ANDRITZ Fiedler. High separation definition in the removal of the reject is ensured thanks to the counter-current flow induced by the profiles.

Energy consumption of rotors in screening has become more and more an important issue in the pulp and paper industry. The **Dolphin™ Rotor** exploits the potential to minimize energy costs. **Cost savings reach up to 50%** in comparison with a conventional rotor.

The optimized streamline of the foils results in lower energy consumption and also better **screening efficiency**, hence, a return on investment can be achieved early on. The foils can be adapted individually to the different production environments. Further strengths of the Ro-Tec Dolphin™ rotors are the extended lifetime, decreased clogging risk and higher screening capacity.



### TwinWave Sector

**To increase machine production, efficient rebuild solutions** are necessary in most cases. In disc filters, increasing the throughput capacity – with a **short payback period** – but without affecting the vacuum load or the energy consumption, is possible only by exchanging the existing disc filter sectors for sectors with an improved design. The **TwinWave Sector** that **ANDRITZ** has developed is an advancement of a low-volume sector, giving **essentially higher dewatering capacity** than other, comparable products. These sectors can be installed at any time simply and independently of the disc filter model. The high dewatering capacity is achieved by the sector's specific double-wave design, and the system is **completely maintenance-free**.



### CompaCon screw conveyor system

As supplier of complete plants and systems for the pulp and paper industry, ANDRITZ provides also equipment to transport, feed, dose, and pre-treat the stock for the individual process steps: the **CompaCon screw conveyor**. The development of these high-performance, low-cost screw conveyors has been based on the profound experience and modern manufacturing technology applied by ANDRITZ. CompaCon screw conveyors are offered as atmospheric and pressurized versions. ANDRITZ also offers rebuilds to increase the reliability and performance of existing conveyor systems.



### **Service upgrades for dispersers**

The disperser is one of the key components in deinking systems and has a decisive influence on the quality of the end product. As one of the leading suppliers of deinking systems and single components, ANDRITZ design experts have developed a number of **efficient reconstruction and service products** to assist customers in their efforts to eliminate bottlenecks in and to increase the performance of their systems and plants. ANDRITZ offers rebuilds of rotor systems, controls and automation for any dispersers, **independently of the original equipment manufacturer**, resulting in stable and continuous operation.



### **Improvements in pulping capacity**

Excellent primary fibre or broke pulping leads to efficiency of fibre processing in stock preparation plants. The stock circulation in the pulper vat is an important feature. The pulping time and capacity are directly dependent on circulation. To prevent a bottleneck situation due to broke or couch pit pulpers hampering paper machine productivity, ANDRITZ has developed rotors and rotor units for **optimum circulation in the vat**. The rotors and the rotor units can be **retrofitted** into vertical and horizontal pulpers.

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**The ANDRITZ GROUP**

The ANDRITZ GROUP is a global market leader for customized plants, process technologies, and services for the hydropower, pulp and paper, metals, and other industries (solid/liquid separation, feed and biofuel). The Group is headquartered in Graz, Austria and has a staff of 13,600 employees worldwide. ANDRITZ operates over 150 production sites, service and sales companies all around the world.

**ANDRITZ HYDRO**

ANDRITZ HYDRO is a global leading supplier of turnkey systems and services for hydropower stations. New hydropower plants are offered, but also repair and upgrading of existing plants and service provision. The business area also focuses its activities on the development, planning and manufacture of large pumps for selected applications (water transport, cooling water pumps for thermal power stations, centrifugal pumps for the pulp and paper industry). The business area also designs and makes air-cooled turbogenerators for gas and steam power stations.

**ANDRITZ PULP & PAPER**

The PULP & PAPER business area is a global leader in the supply of systems, equipment and services for the production of all types of pulp (chemical pulp, mechanical pulp, recycled fibre pulp) paper, board, tissue, fibre-board (medium-density fibre board), nonwovens, and biomass boilers for power production. Through the successful acquisition and integration of complementary technologies, the business area has become a full-line supplier of production systems and services to the pulp and paper industry. The technologies are employed for the processing of logs and annual fibres; the production of chemical and mechanical pulps (cooking or refining, washing, bleaching, and drying); the recovery and reuse of chemicals; the generation of biomass energy; the preparation of paper machine furnish from virgin or recycled fibres; the production of tissue and board products; the calendering and coating of paper; and the handling of reject materials and sludges. Service offerings are focused on assisting customers in increasing their operational efficiency while reducing operating costs. The business area provides customized basic and detailed engineering, procurement, manufacturing, equipment erection and supervision, training, and start-up services and EPC deliveries.