

Installations Nov 2011

Company / Mill	Supplier	Equipment review
Alto Paraná Works Puerto Esperanza Misiones Province Argentina	Bellmer Ibérica	To rebuild PM1 for production of fluff pulp. The existing headbox will be rebuilt and equipped with a new intake chamber. New dewatering elements, a new steam blow box and a new tail cutter are also part of Bellmer's scope of supply. Also, a new belt threading system will be installed to transport the pulp from dryer outlet to the new building where finishing equipment will be installed. For this new section of the line the complete automatic reeling system with reel spool magazine, a new QCS system, and the slitter winder, will be provided. The winder has a working width of 4960mm and a maximum working speed of 800mpm. Start-up end of 2011.
Arkhangelsk Pulp and Paper Mill Novodinsk Russia	Metso	To supply a biomass-fired BFB (bubbling fluidized bed) power boiler including main auxiliary equipment for boiler and site advisory services. Bark and sludge will be used as fuel in the new boiler which has a capacity of 60MWth. Start-up is scheduled for Q1 2014.
AV Cell Inc. Atholville Canada	Metso	To supply an advanced batch cooking optimisation solution to this specialty cellulose pulp mill. The delivery includes Metso Batch Cooking Optimizer SI with a Modified Cooking Factor control along with Metso's AT analyzer for the automatic measurement of SO ₂ . Start-up Q4 2011.
Bashundhara Paper Mills Ltd. Meghnaghat Bangladesh	Minerals Technologies Inc.	To build and operate a satellite precipitated calcium carbonate (PCC) plant, which will produce about 30,000 metric tons of PCC a year and is expected to become operational in Q1 2013.
Billerud Karlsborg Mill Sweden	Metso	To supply a Kappa Q with five sample points - pulp lignin content and brightness as well as fibre properties and shive content measurements - to replace two old kappa analyzers in the bleached softwood kraft fibre line.
Cascades Tissue Group Pittston Plant Pennsylvania USA	Fabio Perini	To supply a top-of-the-line rewinder. The Mile 5.1 model also has an additional advantage for retailers by providing retail ready packaging, which reduces the need for additional store labour.
Cartiere Polesine S.p.A. Italy	Andritz	To supply a two-layer headbox for the production of packaging grades made from 100% recovered paper. The PrimeFlow TW headbox with dilution water control (PrimeProFiler F) will be installed on the single wire PM3 for corrugating medium and double-layer testliner. With the new equipment, the machine will have a design speed of 1,200mpm at a wire width of 3.4m, producing packaging grades with a basis weight of 100-180gsm. The new headbox also enables the installation of a PrimeForm TW double layer gapformer. Start-up Q1 2012.
CMPC Tissue S.A. Talagante Mill Chile	Metso	To supply a complete tissue production line with stock preparation equipment and a TM including a headbox, a Yankee cylinder, a hood, a dust management system and a reel. The delivery will also contain an extensive automation package including a process automation system for machine, process and drive controls as well as a QCS. The new production line will produce high-quality facial, toilet and towel grades. The raw material for the new line will be virgin and DIP pulp. Start-up during 2013.

Company / Mill	Supplier	Equipment review
E.ON Climate & Renewables UK Biomass Ltd. Near Sheffield United Kingdom	Andritz Energy & Environment	To supply equipment for a new biomass power plant. The scope of supply includes a bubbling fluidized bed boiler plant, a flue gas cleaning plant, the water/steam cycle system, as well as the electrical and control systems. Start-up scheduled for Q4 2013.
Green Fuel Nordic Oy Finland	Envergent Technologies LLC (Honeywell)	To collaborate on projects to convert biomass to fuel for use in direct heating systems in Finland. The companies will evaluate the installation of new facilities to convert forest residues into liquid biofuel using Envergent's RTP™ rapid thermal processing technology. RTP produces a clean, liquid biofuel that can be burned in industrial burners for heat, replacing petroleum-based fuel.
Holmen Paper Hallsta Paper Mill Sweden	Metso	To provide all mechanical roll services at the mill, including roll grinding. The three PMs at the mill produce MF magazine paper and a range of special qualities of wood-containing printing paper. The capacity is 670,000tpy.
Ilim Group Koryazhma Mill Arkhangelsk Region Russia	E.C.H. Will and Pemco	To supply a folio-size sheeter - the highly automated machine type FS has a working width of 2200mm and features PRO technology and non-stop no waste pallet changing. Installation of the folio-size line is planned for the summer of 2012, after which the first and only plant in Russia for mark-free folio-size paper with a capacity of over 100,000tpy will start.
International Paper & Sun Cartonboard Co. Ltd. China	Metso	To supply a coated board production line, including stock preparation and approach flow systems, hoods with machine ventilation and coating preparation systems. Additionally, the automation delivery will include process, machine and quality controls, web break monitoring and web inspection and condition monitoring.
Interpack Papelera Del Sur Argentina	Solaronics Bekaert	To upgrade the Solaronics infrared equipment installed on the BM with new gas infrared emitters. The system called GemDryer® is located after the coating stations and will be equipped with 100% ceramic gas emitters Gem 10. (For more than 35 years, Papelera Del Sur has been producing high quality coated white-lined chipboard GD2 and GD3 from recycled paper.)
Jiangsu Longheng Paper Co. Ltd. Jiangsu Province Xiangshui China	PMT Italia	To supply technological paper machine sections like an M4 Headbox with dilution control, a Shoe Press and a Winder. The new BM1 will be designed to produce Duplex Board in the range of 230-450gsm at a speed of 650mpm, the trim width at the reel being 4550mm. The scope of supply includes the control and automation systems, commissioning and start-up services. Start-up Q2 2012.
Jiangsu Oji Paper Co. Ltd. Nantong Jiangsu Province China	Praxair	Contracted to supply oxygen for pulp bleaching; this will require construction of an on-site vacuum-pressure-swing-adsorption system to supply the gas. This on-site gas facility is expected to start-up end 2012.
JK Paper Mills Rayagada Orissa State India	ABB	To supply integrated automation and power equipment and related engineering and commissioning services. ABB will deliver energy efficient drive systems for the new PM, standalone drives and motors, and intelligent motor control centres. The scope of supply also includes electrical infrastructure equipment such as transformers, transmission lines, other power equipment, and power management system for the pulp mill & paper machine. Commissioning is scheduled for Q4 2012.
Liansheng Paper (Longai) Co. Ltd. China	Demag Cranes	To supply the entire equipment for a paper roll shipping store, including five identical fully automated Process Cranes with the latest generation of mechanical grippers, and a warehouse management system. The cranes will accommodate the production of two PMs with a capacity of 800,000tpy.

Company / Mill	Supplier	Equipment review
Mondi Bad Rappenau Plant Germany	QuadTech	To include its inspection technology on the group's sheet-fed corrugated presses that feature in-line die-cutting capability. The system detects common defects such as hickies, hazing, streaks, mis-registrations and colour variations.
Montes del Plata Punta Pereira Department of Colonia Uruguay	Praxair	Contracted to supply oxygen to this new pulp mill complex. The company will build, own and operate a non-cryogenic vacuum-pressure-swing-adsorption (VPSA) plant with a capacity of 126tpd of gaseous oxygen. Scheduled to start-up early 2013.
Papeteries de Raon Raon l'Etape Mill France	Metso	To replace the existing QCS with a new IQ system with one scanner featuring weight and moisture measurements with MD controls, that will be installed on the PM5 reel.
Petrocart Piatra Neamt Neamt District Moldavia	Toscotec	To supply a complete tissue production line consisting of a virgin pulp stock preparation line, upgrade and implementation of the existing waste paper plant, flotation units for water recovery technology, a MODULO Plus TM with single-layer headbox, double press configuration and steel Yankee cylinder TT SYD 12FT. The supply will also comprise an extensive electrification and controls package, TM auxiliaries like hood, steam & condensate system, vacuum system and additional plants. A three unwind stand rewinder TT WIND-M will complete the package. With a width of 2.85m and a design speed of 1,500mpm, the new production line will produce 75tpd of high-quality toilet and towel grades. The line will start-up in early 2013.
Sappi Ngodwana Mill (GoCell Project) South Africa	AMEC	Appointed to undertake the engineering procurement and construction management to reconfigure one of the mill's existing production lines to produce dissolving pulp.
	Metso	To supply a new fibre line for chemical cellulose, from cooking to bleaching. The batch cooking plant is to be designed according to the prehydrolysis process and TwinRoll wash presses will be used in all washing positions. The new line will produce around 215,000tpy of hardwood pulp. In addition, Metso will also supply equipment for the upgrade of wood handling, evaporation and recausticizing as well as a new ash leaching system.
SFT Kamenskaya Mill Tver Region Russia	Andritz	To rebuild and modernize a mothballed kraft PM, which was dismantled and removed from UPM's Kymi mill in Finland. Part of the rebuild will include various machine components such as a PrimePress X press section, PrimeDry drying cylinders, and modifications to the wire and reel sections. The modernized machine will produce fluting and testliner with a capacity of 215,000tpy (design speed 1,050mpm, trim width 4,6m). Start-up October 2012.
Shandong Bohui Paper Co. Ltd. Bohui (near Beijing) China	Isra Parsytec	To integrate a web inspection system and web break monitoring system for this cardboard manufacturer.
Södra Cell Mörrum Pulp Mill Sweden	Metso	To install a Kappa Q Analyzer to improve fibre line control - it will replace one of three analyzers operating on the mill's two fibre lines. The new analyzer with seven sample points in the fibre line will measure pulp lignin content and brightness as well as shive content. The mill produces 425,000tpy of hardwood and softwood pulp on two fibre lines, of which one is presently being converted into production of dissolving pulp.
Stora Enso Ostroleka Mill Poland	POM Technology Oy Ab	To supply a compact approach flow system for the new testliner machine, including two POMix Stock Processors for efficient stock mixing, three POMp Degassers for white water deaeration, two POMlock suction leg sealing units as well as compact process solutions and engineering for whole approach flow system. Start-up Q1 2013.

Company / Mill	Supplier	Equipment review
Xinxiang Xinya Group Co. Ltd. (Henan Xinhai Paper Co. Ltd.) China	Andritz	To supply key equipment, a new automation system, and services for the upgrade of a softwood CTMP line which was transferred from Canada to China. The line will be reconfigured to one of China's biggest hardwood mechanical pulping systems, based on the patented P-RC APMP technology. The pulp produced will be used primarily for board grades; however, the line provides also the possibility to produce printing and writing grades in the future. The line capacity is 700tpd. Start-up end 2012.

STOP PRESS

Arcelor Mittal Tubarão Espírito Santo State Brazil	Metso	Signed a service contract covering around 2000 automatic and safety valves. The contract also includes intelligent tools for preventive and predictive maintenance and maintenance planning activities. It expands the existing contract and is one of the largest for Metso's valve operations in South America.
Sappi Nijmegen Mill The Netherlands	EV Group	To install stabilizing technology, tail threading equipment and machine geometry updates for the press section. In addition, the 1st and the 2nd dryer will be optimized with EV EasyOne high release web stabilizers and with new air systems, felt rolls and stretchers. The drying section optimization also includes EVdf Web Stabilizers and air equipment for the 3rd dryer group.
