

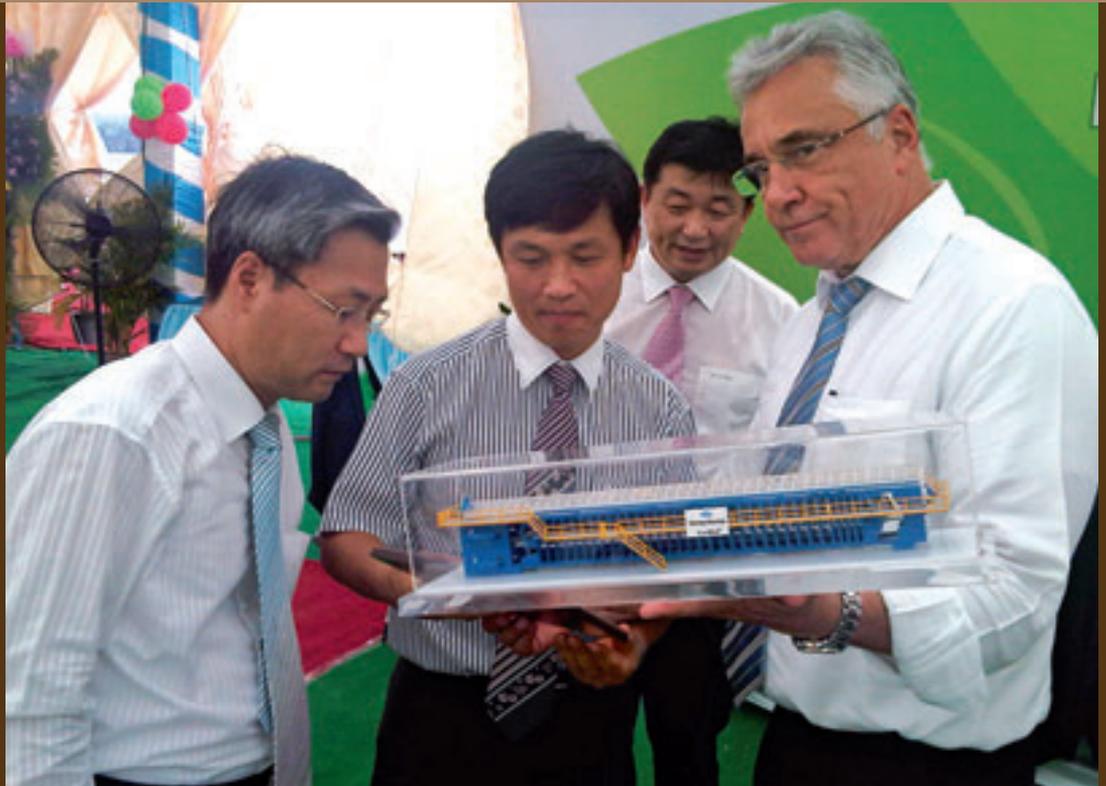
High demand from the wood-based materials industry: Siempelkamp sells 22 plants in nine months

Nine months into 2010, Siempelkamp Maschinen- und Anlagenbau GmbH & Co. KG states "Our plants are in demand". With 22 new orders for wood-based material production plants in nine months, the Krefeld market leader for continuous presses for the wood-based materials industry continues the successful trend from the previous year. Asia, Eastern Europe, and South America have been the top three consumer markets responsible for this demand.

By Ralf Griesche



Handover of a ContiRoll® model during the laying of the foundation stone for VRG DongWha



Asia, the driving force of the global economy in 2010, has been the main purchaser of Siempelkamp products during the first three quarters of the year. China alone, spurred on by a high domestic demand and a gigantic urbanization process, ordered eight (8) press lines during this time frame.

With the 4' models of the continuous ContiRoll® press, Siempelkamp secured important competitive advantages. With numerous benefits the smaller press model, which was introduced in 2007, meets the special requirements of Chinese plant operators (see page 52). Excellent machine quality and high productivity at a reasonable price have convinced eight customers thus far in 2010: Gulin, Jianfeng, Dong Zheng I and II, Yichang, Aosheng and Jiangsu Senmao in China as well as May Forestry in Vietnam. 4' x 33.8 m and 4' x 38.7 m ContiRoll® presses ensure these manufacturers yearly capacities of 115,000 and 130,000 m³ of MDF.

Asia: Full confidence in the complete Siempelkamp spectrum for the wood-based materials industry

Three signed contracts with customers from Thailand and Vietnam for MDF plants, an order for a particleboard plant for China as well as two plants for Turkey complete the new orders from Asia. The total number of orders from this sales region amounts to 14.

In addition to the smaller 4' models, another customer from China ordered a "large" press line: The wood-based materials manufacturer BML ordered a plant including an 8' x 20.5 m ContiRoll® press for the production of 200,000 m³ of particleboard per year.

The Vietnamese joint-venture company VRG DongWha Joint Stock Company headquartered in Minh Hung signed a contract for an MDF/HDF plant in June 2010. With the 8' x 47 m ContiRoll®, this customer will own the largest MDF plant in Vietnam. VRG DongWha is a joint venture of two Asian companies, the rubber manufacturer Vietnamese Rubber Group (VRG) and the Korean DongWha Company, Asia's largest manufacturer of MDF and HDF.

The commencement of the \$120 million investment for the joint-venture was finalized on July 13, 2010. In addition to the ContiRoll® press, Siempelkamp will be responsible for the engineering and a number of machines for the front-end area. The scope of supply includes a drum chipper, chip storage, screens, conveyors, and silos. The fiber dryer and the separators, custom-designed for fibers from the rubber tree, as well as the complete glue blending system will also be supplied by Siempelkamp.

Next to the forming and press line, Siempelkamp will supply three diagonal saws, the cooling and stacking line, a fully-auto-



Heinz Classen (Siempelkamp) and Somporn Pisolpool (Rayong)



Sale of the Yildiz Entegre plant

matic storage system as well as the sanding line, the cut-to-size line with a book saw and two packing lines. SicoScan, the tool for optimal quality control, is also included in the scope of supply.

The MDF/HDF plant, which will start operation in the beginning of 2012, is designed for a daily capacity of 1,200 m³. The plant will be supplied with wood from the rich resources of several Vietnamese provinces. The MDF boards are intended for domestic consumption as well as export. The objective is to significantly advance the modernization and industrialization of the Binh Phuoc province with the help of the new plant.

In June, the wood-based materials producer Rayong PB from Thailand ordered a partial MDF plant from Siempelkamp. The primary element of this order is a forming and press line with an 8' x 38.7 m ContiRoll® press which will be set up in Klaeng in Eastern Central Thailand starting in August 2011. Rayong PB, in the market since 1994, will make use of the rich rubber tree sources at the location and position itself with new products in its markets.

The new plant will produce 8' x 18' MDF boards with a thickness ranging from 2.5 to 40 mm. The Belgian Siempelkamp subsidiary Sicoplan will carry out the planning of the plant. The scope of supply includes a fiber dryer by Büttner, a fiber screen, a blending system, a cooling and stacking as well as a sanding line, and an offline book saw.

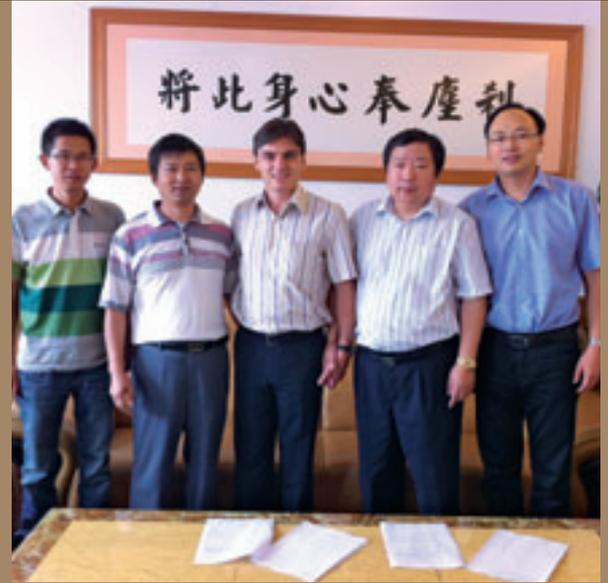
This is the second time that Rayong PB chose a Siempelkamp product. In 2004 the company ordered a particleboard plant from Krefeld. This plant manufactures 1,000 m³ of particleboard daily.

The Thai wood-based materials manufacturer Panel Plus ordered in July a complete HDF/MDF plant for its Hat Yai location. The company that belongs to the Mitr Phol Group is the largest sugar manufacturer in Asia and it already operates three particleboard lines of which two are equipped with Siempelkamp's ContiRoll® technology. The current order will open up a daily capacity of up to 1,000 m³ of MDF depending on the board thickness for Panel Plus. The line is designed for the production of thin boards with a thickness of 2.5 mm as well as boards with a thickness of up to 40 mm. Thus, it provides maximum flexibility.

Panel Plus ordered the entire Siempelkamp product spectrum from the engineering to the packing line. As the engineering specialist, the Belgian Siempelkamp subsidiary Sicoplan will be responsible for the complete planning. The scope of supply ranges from the wood-yard to the de-barking system, the chipper, the bunker discharge system, and the screening system – all Siempelkamp products – to the refiner and dryer from Büttner, to a fiber screen which is custom-built for the use of wood from the rubber tree. The core element of the plant is a forming and press line with an 8' x 38.7 m ContiRoll® press. Also made by Siempelkamp will be the SicoScan measurement and control technology as well as the triple diagonal saw, the star coolers and a fully-automatic storage system.



Panel Plus, Thailand



Signing of the contract with our customer Yichang Jin Tai Yuan, Hubei Province, China

The sanding line including a sander and an offline book saw allows for maximum flexibility during finishing. Furthermore, the plant is equipped with two automatic strapping lines and a packing line which is also supplied by Siempelkamp. The energy for steam generation, heating of the press and dryer is provided by a Siempelkamp energy system with a capacity of 63 MW. The complete modules of the Siempelkamp process control system Prod-IQ® – Business, Quality and Maintenance – provide for optimal product quality.

Last but not least Panel Plus also decided to install an additional short-cycle press which is supplied together with the complete HDF/MDF plant. Panel Plus is the largest provider of laminated wood in Thailand. With the new equipment the company can offer new products to its existing customers. Whoever obtained particleboards from Panel Plus thus far, can now also order raw MDF as well as laminated MDF from Panel Plus.

At the end of September Yildiz Entegre, the largest wood-based materials manufacturer in Turkey, ordered two Siempelkamp plants: In Mersin a new complete MDF plant including an 8' x 47.1 m ContiRoll® press will be built. The dryer and machines for the front-end area will also be supplied by Siempelkamp. The 4' x 8' boards are intended for domestic consumption as well as for the Arabian market. The targeted yearly production capacity is 300,000 m³.

The second new Siempelkamp plant will be the first particleboard production plant for Yildiz Entegre: Siempelkamp will supply the

main components for a particleboard plant which will be built in Akhizar near Izmir. The scope of supply includes an 8' x 42.1 m ContiRoll® press, a particle dryer, particle screens and separators, bunker and silo discharge systems, as well as a glue kitchen and the blending system. The yearly capacity of this plant is going to be 400,000 m³. Both new plants are scheduled to start operation in mid 2012.

“All from one source” – competence for Eastern Europe

Five additional orders from Eastern European countries complement the successful results for Siempelkamp in 2010 thus far: Siempelkamp received two orders for particleboard lines from the Republic of Belarus, an order for an OSB plant from Rumania, and the first order for an OSB plant for Russia in 2010.

Complete Siempelkamp competence was ordered from Russia in May. OOO DOK Kalevala signed a contract for a complete OSB plant which will be built in Petrozavodsk in the Republic of Karelia. With its extended range of products and as the single-source provider of wood-based material plants, Siempelkamp hit the mark for the customer. Next to a 9' x 50.4 m ContiRoll® press, the large order for our new Russian customer, headquartered in St. Petersburg, incorporates a comprehensive Siempelkamp product range. The scope of supply includes the complete equipment for the front-end area ranging from the wood-yard, to the de-barker, to the chipper, to the screens, to the glue blending system to the discharge bins.



Laying of the foundation stone for Kalevala



VMG Industries Ltd. and the Siempelkamp sales team

Downstream of the forming and press line with the ContiRoll® press are two double-diagonal saws, a cooling and stacking line, a high-stack storage system, a cut-to-size line as well as a packing line. Siempelkamp's 'all from one source' concept for this order also includes a complete energy plant from Siempelkamp Energy Systems (SES) and a dryer from Büttner.

A special characteristic of this project is the two-phase concept: After completion of the first phase, the plant will have a daily output of 750 m³; after an expansion, which is part of the second phase, the daily output will double to 1,500 m³! The forming and press line as well as the finishing equipment are already designed for these maximum outputs. Additional machinery for the front-end area will be set up at a later time. The enormous advantage for the customer: With this concept, production will not have to be stopped in order to achieve the higher capacity level. The 50 MW output of the energy plant will increase in the course of the two-phase concept to 100 MW with the installation of a second energy plant. Sicoplan will be responsible for the planning, engineering, and start-up for this project.

The plant will produce OSB in different sizes. Board thickness will range from 6 to 40 mm. A tongue and groove board line, which will also be installed, will produce flooring boards. These boards will be used within the group. As a part of the building group Kompakt, OOO DOK Kalevala has a high demand of OSB which it uses in the construction of large industrial buildings.

VMG Industries Ltd., Republic of Belarus, ordered a complete plant for its Mogilev location. This is the second time that the company has decided on Siempelkamp equipment. The plant will produce MDF for the furniture industry at a yearly capacity of approx. 150,000 to 165,000 m³.

Siempelkamp also sold a complete particleboard plant to the Republic of Belarus in September 2010: The Retchizadrev company decided to replace a multi-daylight press with continuous production via a 6' x 23.8 m ContiRoll® press. Siempelkamp will integrate this concept into the existing infrastructure. The customer benefits from top environmental engineering provided with the wet electrostatic precipitator for the press and dryer and resource savings thanks to the ContiRoll® concept.

Another king-size plant was sold to Egger in Rumania. This customer wanted an OSB plant with a similar-size ContiRoll® as the one for Kalevala: The 9' x 48.7 m continuous press will produce an enormous yearly capacity of 500,000 m³ at the Radauti location starting in 2012.

Siempelkamp will prove its competence in the area of custom plants for another project in the Republic of Belarus. The Mozyrdoc company ordered a production line for insulation boards including a pre-heater system. This plant is designed for a yearly capacity of 230,000 m³. The scope of supply also includes the complete machinery for the front-end area including the machines for de-barking and chip generation, silos with dis-



Contract negotiations for Cuyoplacas, Argentina



Retchizadrev during contract negotiations

charge technology, conveyors, a drying system, a glue blending system, as well as a resin preparation and dosing system. Downstream of the forming and press line, the cooling and stacking line as well as a high-stack storage system and a packing line are installed.

This order involves a competence area that Siempelkamp opened up recently: For the production of wood-fiber insulation boards used to insulate against heat, cold, and impact sound, Siempelkamp has developed a new production method. The new dry-manufacturing process allows the production of boards with a thickness of 20 (0.8 in) to 240 mm (0.8 ft). This process also allows the production of flexible wood-fiber insulation boards. These boards are used as insulation between rafters.

South America: three plants for Argentina, Brazil and Chile

Customers in South America signed three additional contracts for Siempelkamp plants. The wood-based materials producer Cuyoplacas in Argentina ordered a partial Siempelkamp plant in March 2010. The scope of supply for this particleboard plant includes the planning, the forming and press line, a 7' x 25.5 m ContiRoll® press, a cooling and stacking line, a sanding line, and storage technology.

Arauco signed two contracts in July for its locations in Brazil and Chile. Arauco do Brasil ordered for the Jaguaraiava location a partial MDF line which will complement the already existing infrastructure of two MDF lines. The primary element of this order is a 9' x 45.4 m ContiRoll®. The highlight of this order is a Siempelkamp energy system which will be used self-sufficiently to provide the process energy for the location. Paneles Arauco S.A. is building a particleboard line with an 8' x 20.5 m ContiRoll® press in Teno, Chile. Starting in the beginning of 2012 this customer will probably have a modern continuous production in the country.

Specialized and flexible in the final sprint of this business year

Whether large plants, 4' concept or custom plants: The orders received in 2010 demonstrate Siempelkamp's broad competences and position the company excellently in the first year after the global financial crisis. "Other projects are still in the pipeline. However, the sales results of 2010 to date are a big success. We have used the globally emerging willingness to invest and seized all opportunities to convince our customers of our services. The trust of numerous existing and new customers in us all over the world ensures us with capacity utilization into 2012," says Dr.-Ing. Hans W. Fechner, CEO Siempelkamp Maschinen- und Anlagenbau GmbH & Co. KG.