



Holtec on deck in modern mill

A specially developed control GapControl in connection with the Holtec v-rollerway, has reduced log gaps dynamically

HOLTEC

German specialist, Holtec, was brought into a Swedish mill to assist with the handling of through the sawline following the installation of EWD technology that pushed production to breakneck speeds

One of the most modern sawlines is running at Bergkvist, Insjön, which is a leading Swedish sawmill.

The cutting line is especially designed for a curved cut. Over 2005-2006, the greatest investment in the company's history so far was made – a significant milestone for the long-term business strategy with the target of increasing the yield, the product quality and the system's capacity.

The so-called ArcoLine technology by EWD did not only

increase the yield related to the main product by 58-62%, but also the cutting volume to more than 500,000 solid m³/y. Today about 290,000 bars are processed with the sawline each month. This corresponds to 33,000 running meters of sawn timber.

Currently the sawline runs at a speed of 70-200 m/minute based on the cutting pattern. A significant increase compared to the past seems impossible middle-term. Nevertheless, Bergkvist did not say goodbye to the original business strategy. Internal analysis showed

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Benny Langberg, Bergkvist

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Bergkvist made a huge investment in line speed over 2005-2006



that the gap between the bars is of great importance. Related to the feed rate of the cutting line, the share of the log gap is sometimes 10%.

Holtec spent a great deal of time on this problem over the last few years and determined that a specially developed control GapControl in connection with the Holtec v-rollerway, would reduce log gaps dynamically – in longitudinal feed with separately controlled drives – and limit them to a defined extent.

Last summer saw the exchange of the existing chain conveyor against a v-rollerway with the corresponding control system. The result is good.



“In combination with the corresponding mechanics, the log gaps on a single cutting pattern can be reduced by more than 50% compared to the gap previously,” Benny Langberg, Project Manager at Bergkvist, said.

“The performance degree of the sawline as well as the output capacity are therefore clearly increased.

“A good side effect the v-rollerway, driven by v-belts, is a much quieter process compared to the previously employed chain conveyor.”

About Bergkvist

- The nine main units of the sawline and the associated conveying technology are executed with 400 electric motors and 245 servo valves, which are connected by four PLC systems
- 60 screens for controlling and visualising the production process are installed in the operation stand and along the sawline
- Six 3D scanners monitor the complete log optimisation during the processing
- The line is operated with a speed of 70-200 m/minute based on the cutting pattern. The installed capacity is 6,5 MW.



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HOLTEC logyards are tailored to the needs of our customers. This allows precise selective investment which hits the ideal economic balance between optimum economy and the demands of the job. Depending on requirements, our products are available in three different performance categories. For us, innovation is also absolutely essential. However, it is important that

customers also operating smaller sawmills can profit from the innovations. Therefore every innovation is transferred across all of the product lines, as far as possible. An example is the v-belt driven V-rollerway, which has proven itself extremely well in the area of log acceleration. It helps to reduce the maintenance costs for smaller operations as well.

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