

BillerudKorsnäs board mill in Frövi, Sweden has successfully installed Pressductor PillowBlock load cells in their machines for manufacturing of liquid and packaging board

Measurement made easy

BillerudKorsnäs' machines for manufacturing of packaging paper, consumer board and container board are running with Pressductor PillowBlock load cells providing accurate wire and web tension measurement

What has been achieved?

We ask Mr Magnus Johansson, Automation Technician Maintenance about the ABB Pressductor load cell installations:

"In general, ABB's load cells are very robust, very accurate and dependable. These are very important features especially for the bottom wire, which we anticipate to replace once a year. But we want to improve the lifetime of the wire as long as possible. To replace a wire is around \$200,000, so there is a lot of savings to do with accurate wire tension measurement.

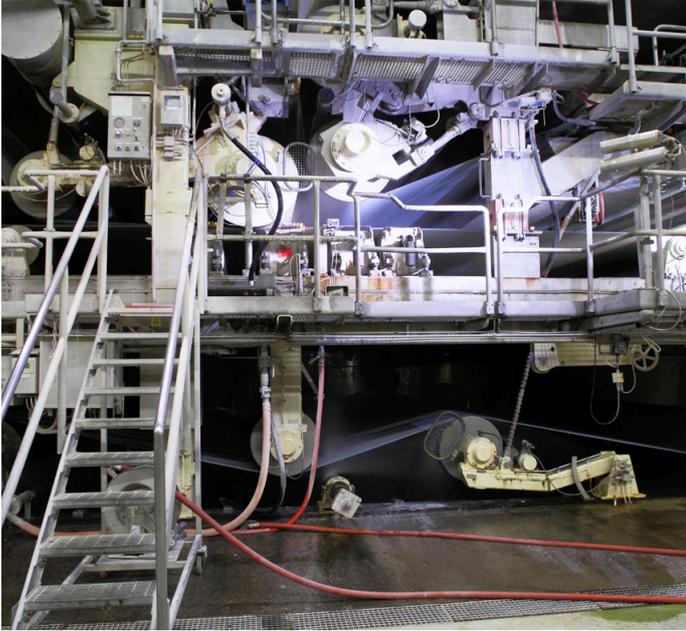
- If you have too high tension, the wire will wear out fast.
- If you have too low tension you end up with wrinkles in the board.

Also at too high wire tension you wear out the bottom thread, which will clog the wire and there will be no holes left in the mesh for the water to go through.

All these factors have led to that we certainly depend on ABB's load cells for accurate wire tension measurement.



"The wire and web tension measurement is very reliable and working very well with ABB's load cells and PFEA-electronics"



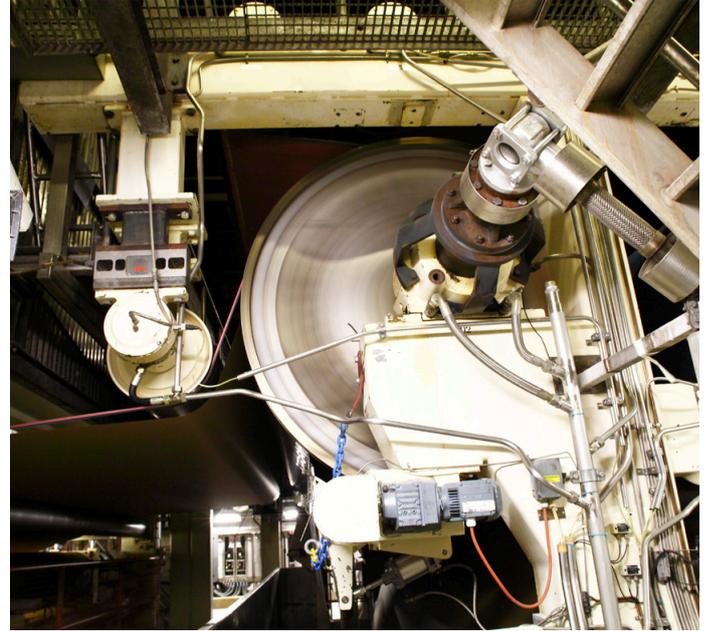
In the toughest of environments with high humidity and big fluctuations in temperature, ABB's PillowBlock load cells are measuring the wire tension in a very accurate way.

The ABB load cells are homogeneous and robust, and the measurements are very reliable and stable. Since some two decades back the load cells have been working very well. They very seldom break and we are very happy with them.

We haven't had any problem with the PFEA tension electronics and it is really easy to operate. We only set the correct angles and we get the true tension signals.

We carry through a zero calibration every year; we do a dead-weight calibration to verify the correct values. So far we have not had any problems with the ABB load cells.

In general, the robust ABB load cells and tension electronics are working really well in this tough board production environment with high humidity and considerable fluctuations in temperature”



Supplied equipment

ABB Force Measurement has supplied BullerudKorsnäs, Frövi Board Mill, Sweden with, in total, 29 Pressductor PillowBlock Load Cells and PFEA tension electronics.

Facts on BullerudKorsnäs Frövi, Board mill, Sweden	
Capacity	450,000 t/year
Export	>90%
Workforce	585
Products, brands	Liquid packaging board and Packaging board Weight: 240-480 gram/m ² BillerudKorsnäs Liquid BillerudKorsnäs Light BillerudKorsnäs Carry BillerudKorsnäs White BillerudKorsnäs Artisan
ABB load cells installed in Bullerud-Korsnäs' machines for producing paper and board	Pressductor PillowBlock Load Cells, models PFTL 101A and PFTL 101B are the most common load cells installed



Operator Mr Niklas Johansson:

"Last year we carried through a successful redevelopment of the board mill!" Everything works fine including ABB's wire and web tension measurement!" Right now we are exceeding 100% of budget, which is great"



Magnus Johansson at Frövi.



BillerudKorsnäs is very proud of their innovative packaging solutions.

For one of the high-end customers, Mackmyra malt whisky, BillerudKorsnäs has created a different solution to get the right image of the product, with tough requirements for stability and print to give that premium feeling towards the consumers. The packaging has 4-color print and is also foiled for both décor and text.

BillerudKorsnäs in brief

BillerudKorsnäs is a world-leading manufacturer of strong primary fibre-based packaging material, working with over 1500 customers in over 100 countries. BillerudKorsnäs turnover is approx. 20 billion SEK with 4400 employees in 13 countries. The company business model consists of three key components: World-class Materials, Solution Services and an extensive Global Network.

Business Areas

BillerudKorsnäs has three business areas – Packaging Paper, Consumer Board and Containerboard. The business areas develop and market high-quality materials and smarter solutions to packaging manufacturers, converters and brand owners.

Focus on four Served Industries

BillerudKorsnäs engages with the market in four segments with varying needs for smarter packaging solutions: Food & Beverages, Industrial, Consumer & Luxury Goods and Medical & Hygiene.

(For more information, visit www.billerudkorsnas.com)

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