

Ahlstrom-Munksjö Paper in Billingsfors, Sweden has successfully installed Pressductor PillowBlock/PRT load cells in their paper machines and winders



Ahlstrom-Munksjö Paper Billingsfors' paper machines and winders are running with Pressductor PillowBlock load cells and Pressductor Radial Tensiometers (PRT load cells) providing an accurate web tension measurement.

Measurement made easy

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01 ABB PillowBlock load cells installed in paper machine.

02 ABB PRT load cells installed in winder.

Background

In one of the paper machines, PM2, Ahlstrom-Munksjö Paper Billingsfors had some tough prerequisites and challenges for accurate web tension measurement: Production of very thin paper; with low tension; with heavy rolls; and with an improper wrap angle that might force them to lower a deflector roll to improve the angle.

ABB was contacted and Pressductor PillowBlock load cells were installed to solve the situation. It turned out to be a very successful solution and today the tension measurement works perfectly leading to a good production process. The improper wrap angle was good enough and no change or rebuilding of the deflector roll was needed.

What has been achieved?

We ask Mr. Lars-Eric Aronsson, Paper Mill Manager, and Mr. Thomas Ebbesson, Electrical Engineer, who concordantly expressed their opinion about the ABB Pressductor load cell installation. "Ever since the Pressductor PillowBlock load cells were installed and commissioned in our paper machines they have been running very well without any problems. ABB Pressductor load cells are very robust and durable.

"In the paper industry you expect that the products, and in this case the load cells, can take an impact without breaking, for example when the maintenance

"ABB Pressductor load cells are very robust and durable."

Lars-Eric Aronsson, Paper Mill Manager, and Thomas Ebbesson, Electrical Engineer at Ahlstrom-Munksjö Paper in Billingsfors, Sweden.

people climb up and down on the machine. For sure, you can step on a Pressductor load cell without breaking it; that is a big advantage."

"In general, the ABB Pressductor load cells is a good invention."

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01 Finished products for shipping.

02 Thin paper from Ahlstrom-Munksjö Paper Billingsfors is manufactured in grammage within the interval 13 to 65 grams and is marketed worldwide. The products are used as interleaving paper for stainless steel, aluminium and glass industries, and to carry patterns from gravure printing to fabric.



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Mr. Fredrik Magnusson, Electrical Engineer, adds his opinion about the new PFEA tension electronics: "The PFEA tension electronics is working very well. The display is easy to operate and there are many good functions to take advantage of."

Mr. Mikael Pettersson, Mechanical Engineer, comments the load cells in the winding machine for coated paper: "In the winder we have Pressductor Radial Tensiometers, PRT load cells, they are very robust and give very stable signals. The PRT load cells have been installed for some years and they have been running without any problems."

Supplied equipment

ABB Force Measurement has supplied Ahlstrom-Munksjö Paper AB, Billingsfors, Sweden with around 30 Pressductor PillowBlock load cells and Pressductor Radial Tensiometers (PRT load cells).

For more information visit:
www.ahlstrom-munksjo.com

Facts on Ahlstrom-Munksjö Paper AB, Billingsfors, Sweden

Export	80 %
Workforce	300
Products, brands	Steel Interleaving Paper Aluminium Interleaving Paper Glass Interleaving Paper Heat Transfer Paper Ghosting Paper OTC (One Time Carbonising Paper) Grease-Proof Paper Spantex
ABB load cells installed in paper machines and coating machines	Pressductor PillowBlock load cells, model PFTL 101A/101B and PRT are the most common load cells installed