The most common way to measure tension in textile manufacturing has been to use dancer rolls. However, the trend today is that dancer systems are replaced by high performance web tension load cells. Load cells are designed for a direct measurement of the actual web tension meanwhile a dancer system measures the position of a moving roll.

ABB load cell based on Pressductor Technology offer a long term stable and reliable measurement of the web tension also under severe environmental conditions.

At a large textile plant in Guangdong Province in Southern China they produce cotton fabric for jackets, shirts, and trousers etc. In this plant more than 200 ABB load cells have been installed for replacement of dancer systems, as well as replacements of underperforming load cells based on the strain gauge principle.

ABB load cells have been installed in the Dyeing, Printing, Mercerizing, Steaming and Weaving sections and have yet again proven their superior performance and stability.

Following benefits have been achieved according to the Production Manager at the plant:
- More accurate tension control resulting in higher fabric quality
- Fewer web breaks, meaning higher productivity
- Elimination of problems with creases in the fabrics
- Reduced maintenance due to no need for re-calibration of ABB load cells

Contact ABB to learn how ABB Pressductor load cells can improve the tension measurement in your textile machine.