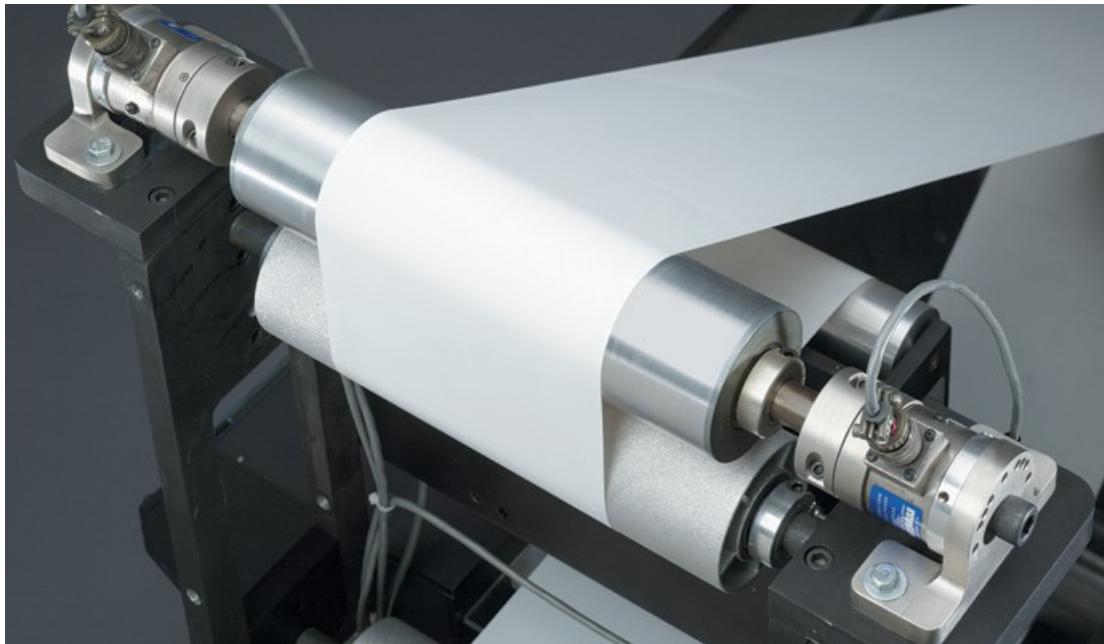


MAGPOWR TS Load Cells



TS Load Cells provide the most consistent control of tension, no matter how the temperature changes throughout the day. In fact, all MAGPOWR Load Cells are designed with foil strain gauges that provide the lowest temperature drift rating possible (.02% per ° C), which can mean the difference between a profitable web and a floor of wasted material.

These rugged load cells are extremely accurate devices used to measure tension in any unwind, rewind or intermediate web processing application. The unique low profile design minimizes space requirements inside the machine frames, thus maximizing the potential for web width. TS load cells are designed with mechanical overload stops in both force directions to eliminate sensor damage and the need to recalibrate even after extreme overloads, while also offering the flexibility of a variety of mounting styles and coupling options.

Split coupling models

Load Cells with Split Couplings can be used to measure web tension through dead-shaft or live-shaft idler rolls. With one load cell mounted to each side of the machine frame, the idler roll is supported between the two load cells. The resultant force of the web tension is measured as a load on the roll by the load cells.

The Split Coupling allows the idler roll to be easily installed after the load cells have been mounted to the machine frames. The coupling design also accommodates misalignment between the machine frames and allows for thermal expansion of the idler roll shaft during machine operation. The unique coupling design also allows its use in both dead-shaft and live-shaft applications.

In-roll coupling models

The In-Roll Coupling is designed to insert directly into the end of an idler roll. With one load cell mounted to each side of the machine frame, the idler roll is supported between the two load cells. The resultant force of the web tension is measured as a load on the roll by the load cells.

The In-Roll Coupling includes a spherical bearing to allow for smooth rotation of the idler roll and to accommodate misalignment between the machine frames. This coupling type eliminates the need for idler rolls with shafts and bearings, thus reducing the overall cost of the tension sensing system.

Wire pulley models

The Wire Pulley is used for single strand applications for any kind of material. When mounted to the side of a machine frame or bracket, a load cell measures tension in the strand as it passes over the nickel plated aluminum load cell pulley.

Key Features:

Low profile design allows maximum web widths
Multiple mounting options for maximum flexibility
Three coupling styles for use with any type idler roll
Ruggedly constructed for long life and dependability
Mechanical overload stops for protection even under severe overloads
Full Wheatstone bridge design for measurement accuracy
Inch and Metric models for international installations
Load cell mounting styles available: Stud Mount, Pillow Block, or Flange Mount

Specifications:

[View this product in the Interactive Designer Notebook](#)



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