

Application Story

Dynamic

Plastic bag quality control using Digital Probes



Precision. Quality. Reliability

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The Product

The standard DP range of Digital Spring Push Probes has justifiably become the work horse of the gauging industry. Very high resolution, excellent linearity and high data speed come as standard. Long life precision bearings, and an IP65 rating ensure that probes maintain their performance for millions of cycles.



Range:	2 to 20 mm
Accuracy:	Up to 0.05% of reading
Resolution:	Up to 0.01 μm
Repeatability:	Up to 0.15 μm

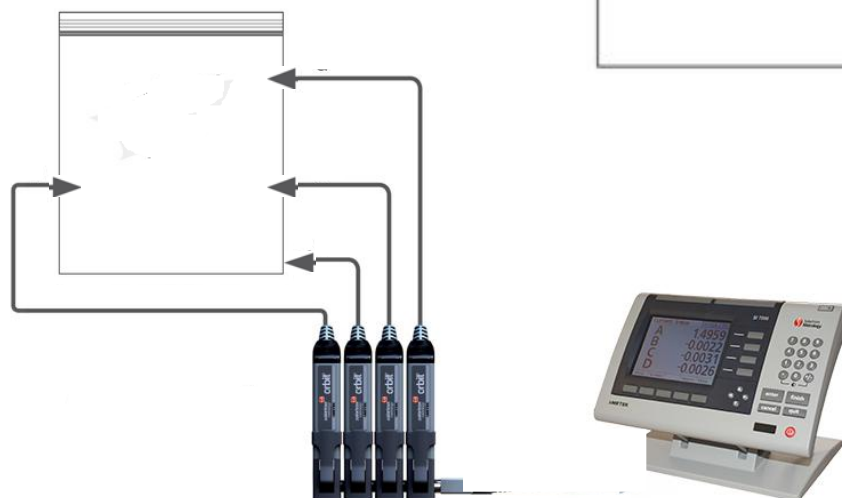
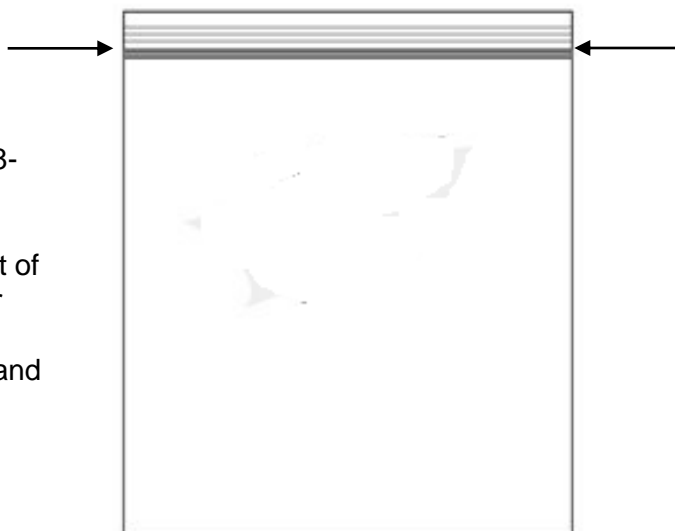
The Challenge

The position and measurements of a zipper on a plastic bag needs to be taken in-process as the material is dispensed from a roll and prior to the cutting and heat sealing process. Measurements needed are height of the zipper whilst zipped, and the gripper.

A readout is also required at the gauging location to assist in machine set-up and to monitor product quality.

The Solution

6 machines were designed and created, each using 8-10 Digital Probes with a SI7500 readout. Connection was made to a PLC, which could then automatically shut down the production line if the products were out of spec. This in-process gauging application allowed for issues to be identified and resolved before a large quantity of products were produced, reducing waste and down-time.



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