

CHALLENGES

During large scale production of O-rings it is critical to control the thickness of the elastomer strip from which they are cut. This ensures full compliance with customer specifications and thus :

- **Limits time losses and measurement uncertainty**
- **Ensures the continuous quality** of products

SOLUTION

METRIX FILM is a solution for thickness control. It is adapted to the control of elastomer strips and it is equipped with :

- 8 contactless transducers measuring thickness with :
 - a +/- 3 μm uncertainty and a variation range of 100 μm
 - a gage R&R better than 10%
 - a suitable rate to measure the strip at 2mm intervals
- A tensors and rollers system for scrolling the rubber strip

The solution can map and record the thickness profiles. It can act on the extrusion unit to maintain the product's thickness within tolerances.

BENEFITS

Time savings and reliability

- Automated, online control
- Accurate and precise measurement
- Adaptable to multiple strip dimensions

Continuous quality

- Control of 100% of production
- Waste reduction thanks to :
 - fast detection of process deviations
 - dynamic correction of the elastomer band's extrusion parameters

METRIX FILM



ACCURATE AND PRECISE THICKNESS MEASUREMENTS

Down to micrometers or better, and low R&R gage

VERSATILE MEASUREMENT

Applicable to various forms (e.g. plates, films, pads, tablets, pellets) and independent of the material's color or brightness

MATERIAL-FRIENDLY CONTROL

With contactless pneumatic sensors, that preserve the material's integrity

ONLINE MEASUREMENT OPTION

For automated measurement of moving parts or films