
Measurement and surface inspection of extruded profiles

Flexi-Cell UK of Dukinfield recently installed an in-line inspection system from Pixargus to monitor the product quality of its precision extruded rubber profiles for the automobile industry. With this system, Flexi-Cell improved the dimensional integrity of the products and also achieved increased throughput from the extrusion line.

The non-contacting optical system provides a continuous 360° view quality check of the profile dimensions, monitoring the product within pre-set tolerances. Generally invisible to the human eye, any non-conforming areas are identified, automatically cut out, and recorded on a continuously running log. Customers receive a batch-related copy of the log to verify the integrity of the extruded profile quality. According to the company, the Pixargus inspection system was a critical factor in Flexicell's recent successful bid for supply of rubber profiles to a major European automotive component manufacturer.

The **PCD X360** inspection system is an in-line profile measuring system that takes dimensional information from the external surface of the profile at a rate of 2–8 times per second. These readings are compared with a reference profile and any deviations are recorded and displayed. Pixargus has developed a new LED-based illumination technology for the system, which, when compared with laser-based systems, gives higher measuring accuracy combined with longer service life. In addition, a robust touch-screen operator interface makes the operation of the system simple and intuitive.

Adresse:

<http://www.gupta-verlag.com/rubber/news/technology/8324/measurement-and-surface-inspection-of-extruded-profiles>