

Solutions@Mecmesin

Plastic Film Tension Test

Specification

The customer uses a double layer plastic film for packaging of pet food and confectionery. He was looking for a cost-effective and simple system to repeatably measure the force required to break apart the 2 layers of 50mm wide film until it was fully torn. A key part of the task was to select grips which would hold the plastic film without slipping.

Solution

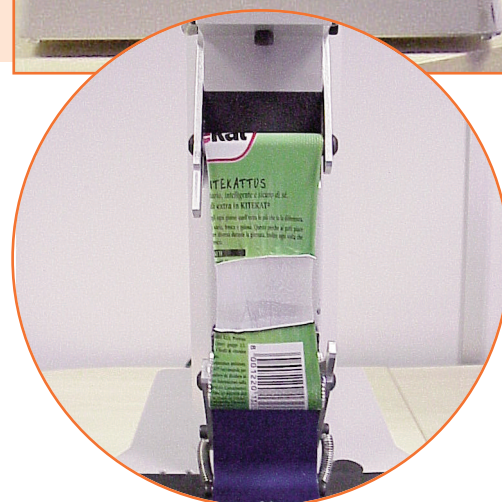
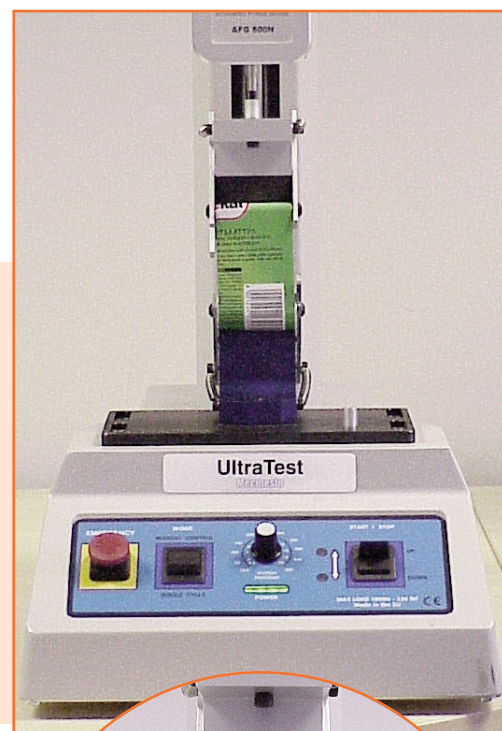
Mecmesin offered a compact, bench-mounted, motorised test stand system, which occupied very little space in the QC laboratory. It provided the necessary repeatability of results by virtue of operating at a fixed speed 200mm/min and using the peak-capture facility of the Advanced Force Gauge to record the maximum tension force applied. The Sprung-loaded Roller Grips were ideal for holding the film with sufficient gripping force to prevent slippage but not cause the film to be damaged. This ensured that the film always broke *between* the grips and not inside the grips.

System

- UltraTest Motorised Test Stand
- Advanced Force Gauge 500N
- Pair of Sprung-loaded Roller Grips

Supplied to

Masterfoods (formerly Mars), Germany



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packaging industry



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