The TP machine performs an in-line fully automatic integrity test of BFS plastic strips at high speed using the non-destructive method of high voltage.

**+ Functioning**

The strips arrive from an upstream machine over a conveyor where they are reversed in horizontal position. A pneumatic cylinder automatically loads each strip between the slots of a belt that pushes them over a plastic slide. Each strip is tested by four stations dedicated to different areas. At the end of the conveyor an air blow automatically rejects the defective strips. Good ones proceed towards the downstream line.

The inspection method is based on the application of high voltage between two electrodes at opposite sizes of strips; the presence of a pinhole in a non-conductive container causes a current spark that is detected by the system.
+ Advanced Features

- **Inspection system**
  Pulses trains at high voltage up to 35KV with frequency around 1000 Hz. Fast, proven and efficient system without degradation nor contamination of the product

- **Inspection area**
  Welding areas with four stations equipped with electrodes of different shape

- **Special features**
  Set of in-built connectors for automatic check of electronics
  Aspirator for ozone evacuation
  Sensor for ozone detection
  Samples for periodical challenge test
  Vibration of containers before inspection for spreading of liquid

- **CFR21/Part11 compliance**
  User friendly HMI based on 12” touchscreen PC running on Windows with full audit trail functions and several levels of passwords

- **Modular layout**
  Ready for connection to upstream BFS machine or filling line and to downstream packaging line

- **Easy setup**
  Just four parameters for each product with unlimited number of recipes memorizable in PC hard disk

+ Technical Specifications

- **Dimensions (LxWxH)**
  413 x 730 x 135 cm

- **Weight**
  350 Kg

- **Electrical / Pneumatic consumption**
  1 KW / <150 Nl/min

- **Machine speed**
  Up to 6000 strips/hr (for strips 65x60mm)

- **Containers type**
  Monodose and multidose strips

- **Material**
  PE or PP

- **Container sizes**
  From 0,3 ml up to 10 ml

- **Maximum dimension of the strip**
  90 x 130 (WxL) mm

- **Minimum conductivity of liquid**
  20 microSiemens/cm

- **Dimension of detectable holes**
  >10 micron

- **Acoustic noise**
  75dB