

...THE LEADING EDGE IN METAL DETECTION

MESUTRONIC®

METRON 05 *Profi* METRON 04 *Line*

Flat Coil Metal Detectors for the Textile Industry

prevent expensive repairs and loss of production ◀

assure product quality ◀

detect all metal contaminants such as Stainless Steel, Bronze, ... ◀

Electronic flat coil metal detectors detect very small metallic contaminants such as broken needles in non-woven or knitted materials. The detectors protect production equipment such as Calenders, Cutting machines, Formpresses, ... or may be used for quality assurance. Depending upon the production layout two detector versions are available.



Single segment detector METRON 05 Profi Line

This metal detector version is employed when the production process is not stopped upon receiving a "metal" signal from the detector. This is done for several reasons: 1) the material is dark colored, making it difficult to locate the contaminant, 2) the material is not accumulated (buffer zone) or cannot be accumulated due to high production speeds. In these instances the location of the contaminant is identified by marking the outer section of the material and the contaminant is later removed "off line". Depending upon the width of the material the sensitive area of the metal detector can be defined accordingly. Please consider that the sensitivity diminishes at a width of more than 3 m. The detectors may be used with product velocities of 1,5 - 600 m/min.

Features

- Auto Balance
- Temperature compensation
- Product effect compensation (elimination)
- Multi function EMFI filter
- Self monitoring
- ...



Multisegment detector METRON 04 Profi Line

In production facilities where the material can be stopped quickly, the multisegment detector is the preferred choice. With this detector the sensitive width of each sensing segment is 300 mm. Each segment consists of a fully functional metal detector which activates a visual "metal" signal and is connected via a connecting bus to the central processing unit. The "metal" light indicates to the operator the location of the contaminant. The contaminant is removed "on line", meaning the operator searches for the metal particle and removes it immediately. The effective sensitive width is determined by the width of the material and can be incremented in 300 mm steps. The advantage of this system is that the detector does not lose sensitivity with increasing width, since the segments have a defined width of 300 mm. The detectors may be employed with production speeds from 1,5 to 600 m/min. An optional remote "metal indicator" unit and a hand held metal detector aid in pinpointing the location of the contaminant.