X-Ray Inspection
Technical Information

Pen-Tec X-Ray inspection systems for food products and not only, bulk and packaged products, through inspection from above and side, for every shape and type of packaging

The inspection systems with X-Ray technology PEN-TEC represent the highest level of security obtainable from control quality devices inserted in industrial production lines, in particular for products intended to the food, cosmetic and pharma sectors. The need of the manufacturing companies is to guarantee the absence of any particulate contaminants inside the packaged products, made necessary the development of alternative systems to the common metal detector or optical inspection systems. The answer of PEN-TEC it’s to provide to own customers high efficient
instruments, able to operate on contaminants of various kinds such as glass, stones, metals, bones, high density plastic, cement shards, etc., even in presence of packaging with metalized polylaminate, tin plate, aluminium and metalized clips. The operator interface, designed with 15” color touch-screen panel, it’s ruled from a customized electronic of our production, uses a dedicated software with function of self-learning thus promoting the use from non-expert in line operators. The high precision mechanical technology, combined to the custom electronic of our design and production makes these systems perfectly respondents to the increasing industrial production needs, providing a quality control of the production and ensuring the high performance and reliability over time.

A wide range of models allows you to work with inspection ray from above – for bulk and packaged products in flow-pack, cases, trays, etc. – with a lateral ray – for product developed in height such as brik, standing cases, square-based vertical envelopes, etc.

The PEN-TEC X-Ray inspection systems have obtained the required requirements to operate in an industrial environment without the need of the radiological monitoring and meet with the international standards imposed by the primary quality certification bodies.

Our units, complete of interconnections and data and images collection software for defective products, are designed to communicate with external systems and meet the requirements of Industry 4.0.

To complete, in order to be at the customer’s side, our units are set up for remote assistance management: an emergency service that eliminates distances and reduce maintenance costs.
**X-Ray Inspection: founded in science and technology**

Unlike Metal Detector technology, X-Ray inspection systems are not affected by the product effect (i.e. sensitivity does not change in case of temperature or moisture variations) nor by environmental interferences, such as electromagnetic fields.

High sensitivity is thus obtained, reducing dangerous and costly false rejections.

The X-Ray inspection devices can be used both on packaged and bulk products; the latter with the adoption of specific accessories for the incoming product, lateral containment, contaminated product deviation and sanitation.

**No Product Effect**

The Product Effect is the phenomenon that characterizes and limits the Metal Detectors. It is given by physical elements typical of the product to be controlled, such as: mass, temperature, humidity and magnetic permeability. The Metal detector works through a magnetic field and the variation of these element generates a loss of stability and of performances. X-Rays are not affected by these interferences.
Find out our inspection systems:

Automatic weighing systems, Checkweighers, automatic scales: Checkweigher

X-Ray inspection systems: X-Ray product inspection

X-Ray inspection and Checkweigher integrated version: Combi X-Ray + Checkweigher

Detection and inspection systems with Metal Detector technology: Metal detector

Metal Detector and Checkweigher integrated version: Combi Metal Detector + Checkweigher

Weighing belt for bulk product: Weighing belt

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