

PRODUCT PROTECTION FOR THE

TEXTILE & APPAREL INDUSTRIES



Leaders in metal detection technology

With over half a century's experience of delivering custom-designed automated quality assurance solutions, Lock Inspection Systems is setting new standards in metal detection technology.

Lock's technical team builds on a database of past experiences compiled from around the world to design tailored solutions to its customers' individual requirements. Devoting sustained investment to new product development, the company continues to pioneer innovative equipment that sets ever higher benchmarks in product protection.

Backed by an extensive international network, our technical and customer services in Europe and the USA provide unparalleled after-sales care and consultancy and have secured a leading position in product protection for the food, pharmaceutical and textile industries. Lock is proud to be allied with some of the world's foremost manufacturers.

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TEXTILE/UK4P/1.05

- Complete range of metal detectors designed for the production of apparel, footwear, toys, fabrics, accessories, home and industrial textiles
- Exceptional sensitivity against metallic contamination from broken needles, pins, staples, wire and other stray metals
- Provides product and brand protection to meet the quality expectations of the industry's leading buyers
- Full digital technology and enhanced process control to meet international quality assurance and audit requirements

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Metal detection is now an integral part of the textile and apparel production process, and is an essential quality assurance requirement for manufacturers supplying the leading brand names across the world.

At the production stage, metal detection provides a product safety solution which minimises risk of legal action, bad publicity and financial losses, which can result if a consumer was injured by a broken needle tip or piece of stray metal left in a finished product.

Lock's leading edge technology and purpose designed range of metal detectors guarantees the very highest standards of inspection and delivers key benefits at every stage of production

- **Conveyorised inspection at the finished product stage ensures effective screening against metallic contamination prior to packing and despatch.**
- **Inspection of products that do not contain accessories.**
- **Inspection of products containing plastic or non-ferrous components.**
- **Customised detectors designed to inspect a wide variety of larger products from rolls of fabric to home and industrial textiles.**
- **Full digital signal processing technology and data-management systems.**
- **Designed to work in close proximity to industrial sewing machines**

Materials Screening

Productivity is improved if incoming materials are effectively screened to remove all unwanted metallic particles.

The TEXTILECHEK range of metal detectors provides customised solutions for the inspection of a wide variety of textile materials to individually specified dimensions



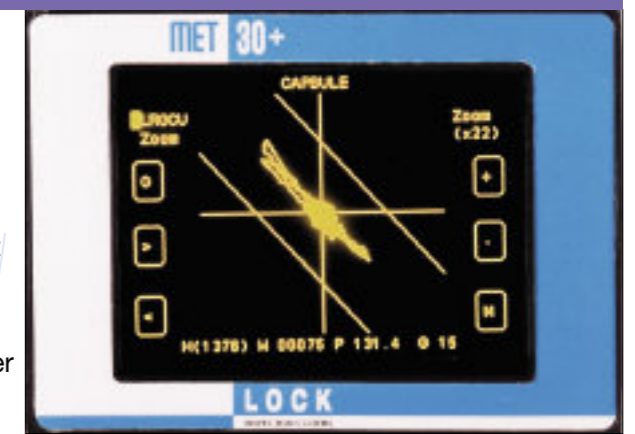
TEXTILECHEK machine for airbags

Extensive savings: early detection of contamination affords significant expense since lower value materials rather than finished products are rejected.

Machinery protection: early removal of contaminants will protect downstream machinery and personnel from damage or injury.

Bulk products inspection: the larger dimensions of the TEXTILECHEK range are ideally suited to cater for the inspection of bulkier products either prior to or after manufacture.

Unique software: Lock's ADC software system is accessible either from a touchscreen display or remotely from a laptop/PC with the membrane system.



An ADC Software Display Screen

Finished Product Inspection

Metallic contamination from broken needle tips or pieces of stray metal during garment production can compromise product safety.

The GARMENTCHEK is an all-metal detector and will detect all types of metal, including brass, copper, aluminium and tin. It is therefore suitable for the inspection of all products, which do not contain any type of metallic component.

Enclosed-Head detection: all Lock detectors incorporate a highly sensitive

magnetic coil surrounding an automated conveyor belt, ensuring exceptional sensitivity greater than or equal to the industry standard at every point of the aperture.

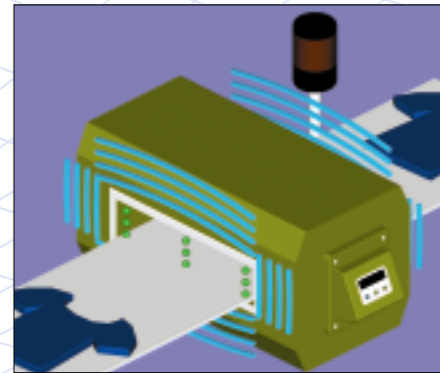


Diagram showing an enclosed head detector

Detection Event: all systems incorporate an audible alarm warning, visual status indication, automatic belt stop and security key switch restart facility.

Self-Test system: automatic test warning facility ensures that supervised test procedures are carried out at designated intervals.

Password security: pin-number controlled access ensures that all detectors are used only by approved operators and to approved specifications



GARMENTCHEK for non-metallic products

Inspection of Goods containing metallic components

With metallic accessories increasingly being used in garment production, the challenge is to identify needle contamination in the presence of legitimate metallic trims.

The NEEDLECHEK is a ferrous-only metal detector and will detect ferrous contaminants in products containing any non-ferrous nickel-free metal used and approved by leading textile accessory manufacturers



NEEDLECHEK system for checking products that contain legitimate metallic components

Auto set-up: all Lock systems permit the calibration and storage of up to 100 different product settings ensuring the optimum detection specifications are achieved for each product line.

Data management: Lock detectors can be connected to a PC or printer to allow the recording and storage of quality control data on authorised demand.

Operating speed: operating at a constant regulated speed of 30 metres per minute, an average of 10,000 garments can be inspected every 8 hours.

Power supply: a universal power supply and power stabilisers ensures compatibility with a wide variety of world-wide operational conditions.



Hand Held Printer

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