

METAL DETECTOR

# NEEDLECHEK



- Leading Needle metal detector within the industry
- Approved by leading textile and garment manufacturers worldwide
- Exceptional Quality Assurance solution guaranteeing sensitivity equivalent to 1.2mm diameter at any point within the aperture
- Incorporates the latest digital signal processing technology
- Simple operator interface for ease of use
- Covered by Locks 12 month warranty and un-paralleled after-sales customer service and support

The **Needlechek** detector is the industry leading system specifically designed to enable the detection of **broken needle tips or other ferrous contaminants** during garment production

It provides a Quality Assurance Solution for all products which contain **non-ferrous metal** accessories (ie. zips, studs, rivets).

**Needlechek's** exceptional sensitivity **guarantees** that ferrous contaminants to the equivalent of **1.2mm diameter** will be detected **at any point within the aperture.**

**Needlechek** can detect the presence of ferrous contaminants in products containing brass, tin, copper, aluminium and every other metal used and approved by leading textile accessory manufacturers such as **YKK, Prym, and Opti.**

# LOCK

YOUR PARTNER IN PRODUCT PROTECTION

INSPECTION SYSTEMS

# METAL DETECTOR NEEDLECHEK

## TECHNICAL DATA

### SYSTEM

#### Automatic Set-up

The Needlechek metal detector has the ability to store up to 100 different product settings in its memory and adjust to maintain the optimum detection specifications for different garments. It contains a failsafe detection procedure complete with audible alarm warning, visual status indication, automatic belt stop and security key switch restart facility.

#### Automatic Product Tracking

An Auto Test feature can be incorporated, which prompts a supervised test procedure at designated intervals. This sends the system automatically into fault condition if a detection test is not conducted.

#### RS 232 Serial Port

Allows printing of data reports for:

- Time and Date of system switched on and off
- Time and Date detector detected contaminants
- Time and Date the detector test concluded
- Operator password of the person conducting the test
- Confirmation of test results

### SEARCH HEAD

#### Sizes

Aperture size available  
559mm width x 127mm height

#### Electronics/Module Features

- Digital signal processing technology
- Lock's ADC software for remote servicing and diagnostics
- Two Channel sensing
- 100 product memory
- Failsafe detection procedure
- Data retention when power is interrupted or disconnected
- Easy user-replaceable electronic module for minimum downtime
- Serial ports providing print-out of detection events, with 300 event storage
- Simple operator interface for easy of use

#### Outputs

Voltage-free relay contacts.  
Rating 240V, 5A resistive

#### Power Supply

Universal power supply which can operate between 100V and 240V.

Contains Power Stabilisers to compensate for a fluctuation of +/-10% of the operating voltage.

#### Operating Environment

Needlechek's are not affected by interference by factors such as air temperature, humidity and static electricity and are designed to work in close proximity to all types of machinery associated with the textile industry (ie. sewing machines),

#### Conveyor

All Needlechek detector heads are mounted on the industry standard Lock Conveyor.

These are designed to be compatible with an existing production line and operate at a belt speed of **30 metres per minute.**

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