

Z E R



→ SECURITY

d e f e c t

ON-LINE AUTOMATIC SURFACE  
INSPECTION & MEASUREMENTS



# → PROVEN AND FLEXIBLE INSPECTION AND TRACEABILITY SOLUTIONS FOR SECURITY DOCUMENTS

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## → PAPER MACHINE

- Wet end: insertion of security thread control (registration, flip)
- Dry end: position and quality control of all security elements & paper quality inspection

## → HOT STAMPING MACHINE

- Position and quality of prints and stamps

## → CROSS CUTTER

- Sheet sorting strategy

## → FULL TRACEABILITY FROM PAPER TO SECURITY DOCUMENT

## → REJECTION RATIO ADJUSTMENT AT EACH STEP



### WATERMARKS

- Position control
- Alignment control
- Dirt & thin place detection



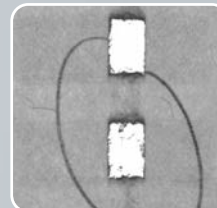
### ELECTROTYPE

- Integrity
- Position



### SECURITY THREAD

- Position
- Side insertion
- Stretching



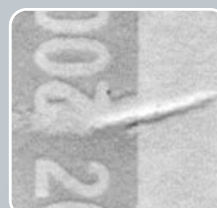
### WINDOWED THREAD

- Window size & shape
- Bridges
- Registry



### HOLOGRAPHIC FOIL

- Position control
- Transfer inspection
- Quality control
- Foil quality inspection



### IRIDESCENT/ OVI OBJECTS

- Position
- Print quality

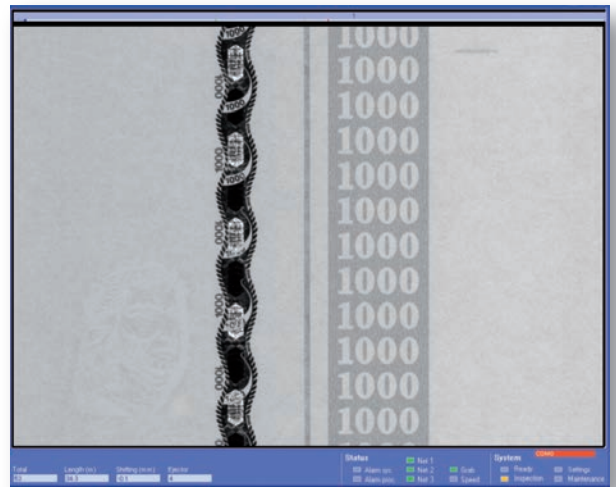
# → USER-FRIENDLY INTERFACE

## GRAPHIC USER INTERFACE



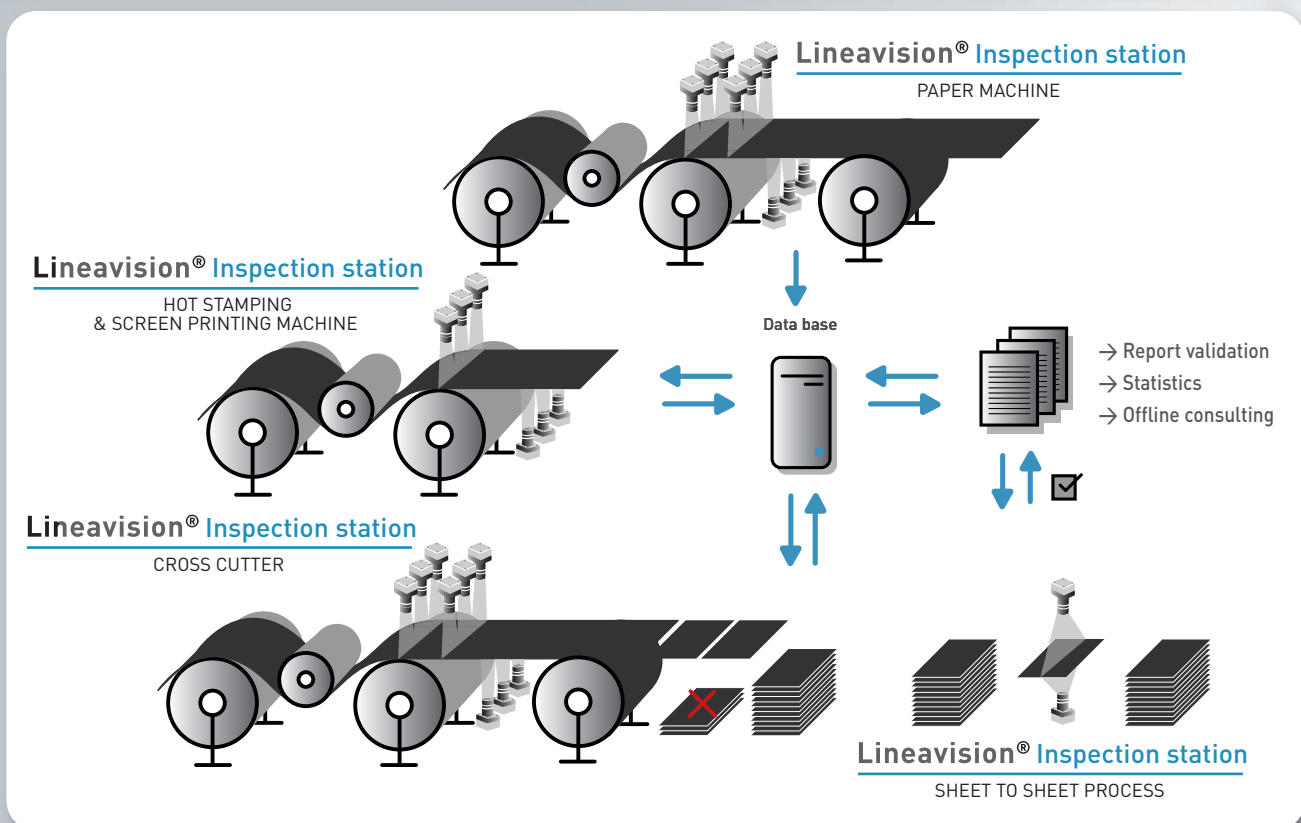
### → LIVE DISPLAY OF DETECTED DEFECTS AND MEASUREMENTS

- Real time position variations for each feature
- Fluctuation statistics for each feature
- Defect density management
- Sheet tracking
- Output action



### → STROBE SCREEN

- Full resolution display of selected area
- Feature selection





## → OUR RANGE OF SERVICES

### SYSTEM SPECIFICATION

- Evaluation of project
- Feasibility study
- Customization
- Definition of project
- Flexibility/adaptation to future needs

### COMMISSIONING

- Installation
- Training

### SUPPORT

- Telephone hotline
- Technicians
- Remote access
- Application consulting

### SERVICE

- Onsite repairs
- Spare parts

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