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# ZEROdefect

SECURITY

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ON-LINE AUTOMATIC SURFACE  
INSPECTION & MEASUREMENTS

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in-core  
systèmes



# PROVEN AND FLEXIBLE INSPECTION AND TRACEABILITY SOLUTIONS FOR SECURITY DOCUMENTS



## Paper machine

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

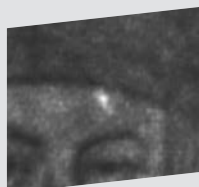
## Hot stamping machine

- Position and quality of prints and stamps

## Cross cutter

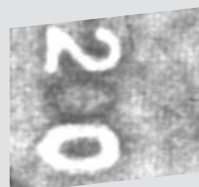
- Sheet sorting strategy

**Full traceability from paper to Security document**  
**Rejection ratio adjustment at each step**



### Watermarks

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



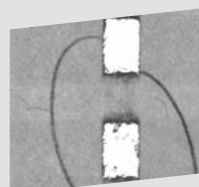
### Electrotpe

- Integrity
- Position



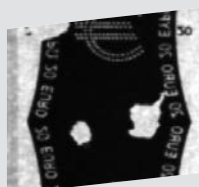
### Security thread

- Position
- Side insertion
- Stretching



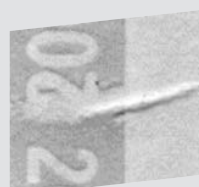
### Windowed thread

- 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



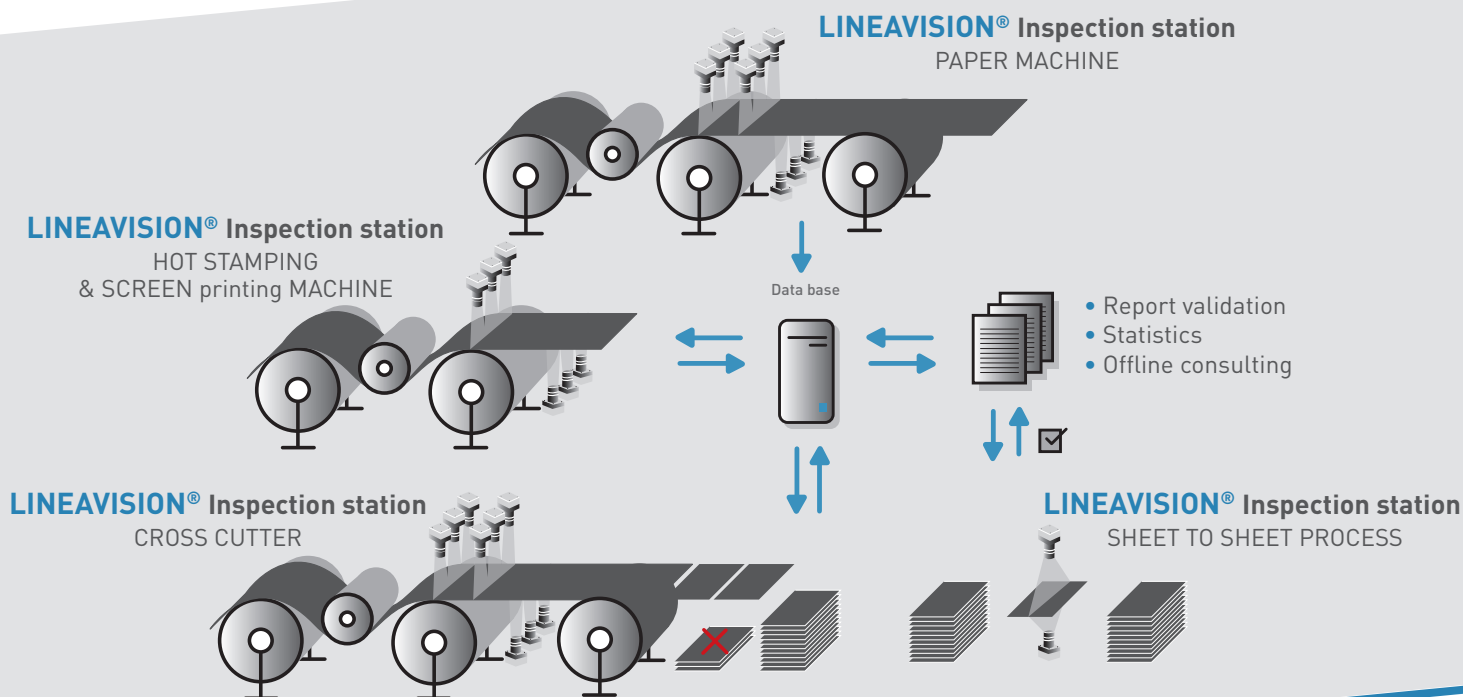
### Live display of detected defects and measurements

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



### Strobe screen

- Full resolution display of selected area
- Feature selection







## OUR RANGE OF **SERVICES**

### **SYSTEM SPECIFICATIONS**

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

### **COMMISSIONING**

- Installation
- Training

### **GOLD SUPPORT**

- Telephone hotline
- Technicians
- Remote access
- Application consulting

### **SERVICES**

- Onsite repairs
- Spare parts



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