ITG 700

Slitter Rewinder

R.A.M.

ITG 700

The inspection system ITG detects, classifies, documents and records on optical defects in materials or web with a light illumination (total reflection) for opaque films both on the top or bottom in combination with a transmitted-light illumination for transparent films.

The defects are automatically fault classes such as gels, burning particles, fish eyes, dirt, creases, holes or fly-classified and the photos of these imperfections are available for further evaluation. Different size classes and classifiers can be defined.

The system is for example able to distinguish a fly from a Black Spec. About the functions, the operator can identify the fault using fault images and sort by class.

The classifier then automatically set the inspection parameters for each defect. The system allows a retrospective analysis of fault patterns, fault data, error characteristics and the role protocols.

On a defect wallpaper (MAP), the defects in the role are represented symbolically. It is about the defect true gray-scale images, the position in the running and cross direction and the roll number.

The advanced software allows the operator to analyze the role of quality and print quality and trend logs of roles.

On the role protocols are the roles or benefit number, the number of voids / pinholes or per square meter, the error classes sorted by size and location of the defect (in the machine direction and cross machine direction).

Furthermore, using a series of benefits to be specified and the system prints out an additional benefit / average quality-related protocol.

When critical defects occur or a defined number of errors per m² or benefits, the system is a binary signal for activating an alarm lamp or horn or to stop the winder.

The system includes a recipe management. Any number of inspection recipes can be created. The ITG700 has digital inputs (eg for splice signal, encoder signal or stop signal inspection) and a digital output (such as triggering the alarm lamp when critical defects occur or a certain number of defects per m², stopping the system).

Optimal Illumination
Use of special lighting techniques depending on the test material.

Modular Architecture
Easy expandability, easy customization and adaptation to the process. Online process analysis.

Process Synchronization
Coupling of the inspection system with the production line (automatic recipe selection, splice signals, inspection stand-by mode ...).

Error Flag
Alarm signals for the automatic error marker in the laboratory, pilot plant or production of the current can be individually configured.

Defect Map
Continuous display of defects found as a symbols or gray-scale images (defect detail display).
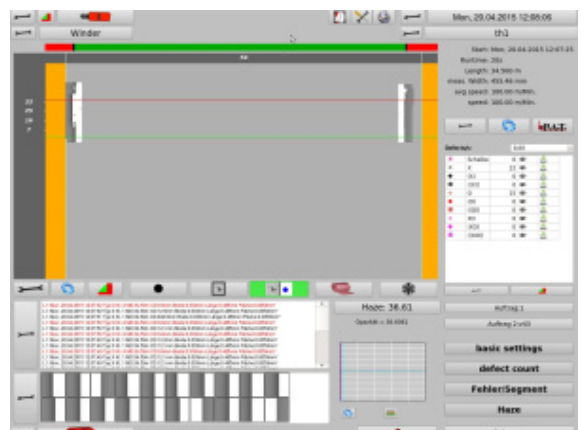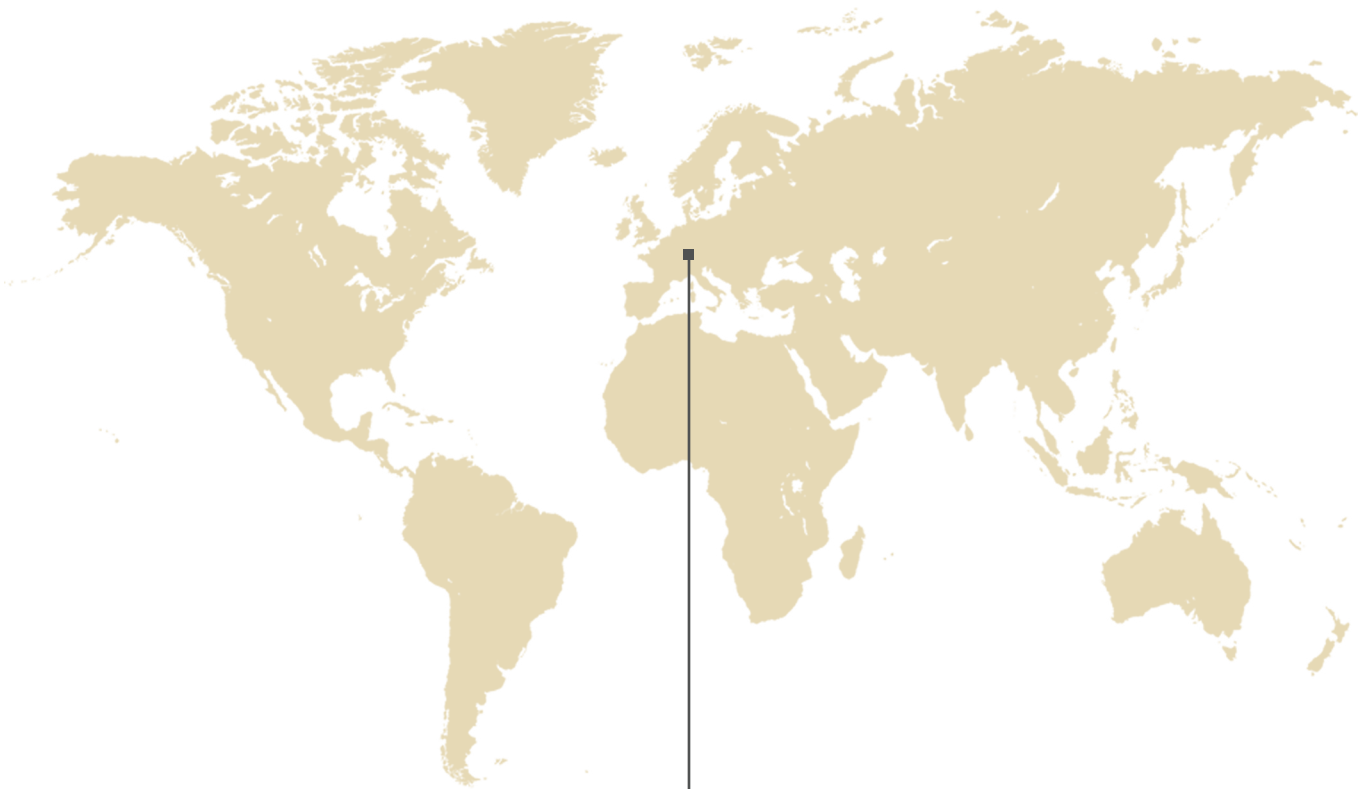
Open Dataformat
Protocol-Data in CSV Files, TCP/IP or customer specific data formats possible

Technical Data	
ITG 700	
PC:	CPU 16 Gbyte RAM 1 TByte HD SSD for Operating System
Interfaces:	1 Input and 1 Output with optocoupler 1 Input counter for running meters
Screen:	19" LCD-TFT Touch Monitor
Software:	ITG CAMEN 10.xx
Camera:	CMOS Line Camera 8.192 pixel 40.000 scans/sek. 320 MBit/s.
System Resolution:	CD 65 µm (width 500mm) MD 170 µm (at 400 m/Min)
Lighting System:	LED Light 1000, 1500 & 2000 mm for max. 1900mm Insp.-width. Suitable for reflected light, transmitted light and light/dark field
Power Supply:	230 VAC, 50-60 Hz, 500 W
Service / Support:	SSH/VPN-Tunnel (DSL necessary) recommended

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