

Surface inspection system

Erhardt+Leimer Inspection System
for the Tire and Rubber Industry

Surface inspection system

Today's tire manufacturers are confronted with ever-increasing demands. Production speeds are to increase continuously, quality must be assured and rejects and machine downtime must be reduced to a minimum.

Erhardt+Leimer is the ideal partner for you if you want to ensure excellent production quality and make optimum use of your resources. We give you the right tools to make your manufacturing process more robust and reliable: fast detection of defects and continuous development of innovative solutions.

The (rubber) surface inspection system from Erhardt+Leimer employs color line cameras that inspect rubber surfaces and detect "missing skin" (areas of the surface where the rubber is missing) and foreign bodies (as pieces of liner material).



Precise rubber inspection with RSI

Easy to integrate into the production line

- Lighting via tunnel light transmitter above the material, no interruption in the conveyor belt necessary
- Compact 4k RGB camera that can be mounted with standard E+L components

Easy operation, setup and quality control

- User-friendly user interface with wizard-supported step-by-step commissioning
- All defect types and irregularities are detected and stored in a database for quality evaluations

Maintenance-free and remotely controllable

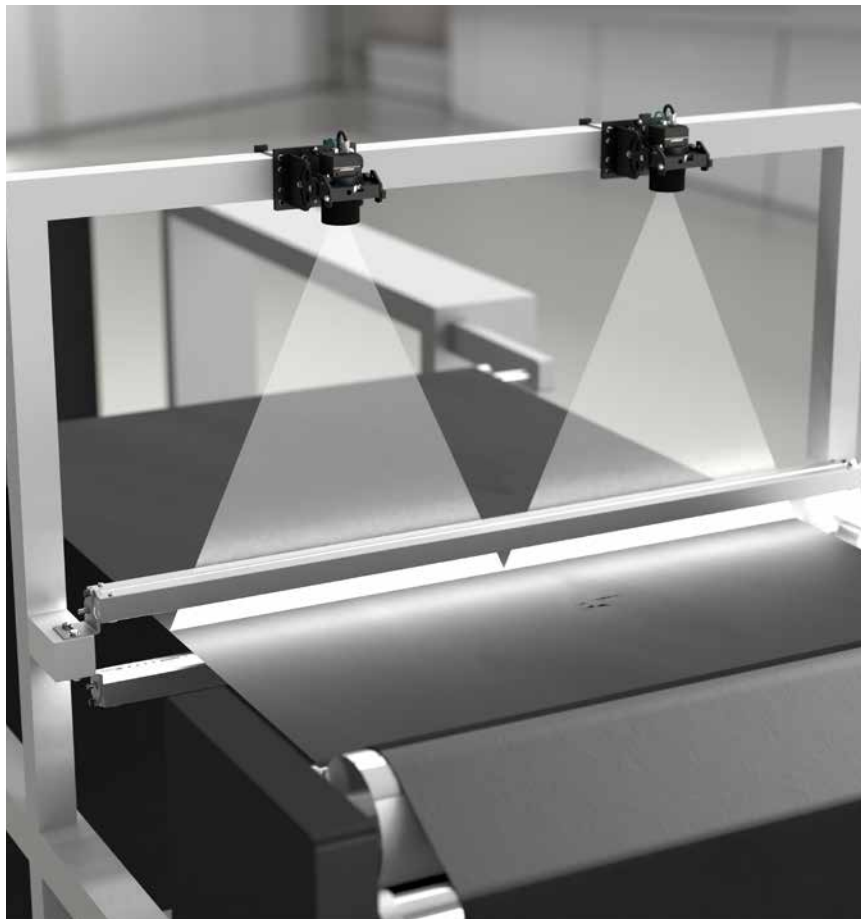
- All components are Ethernet-based and can be remotely accessed for servicing

Field of Application

The application can be used on both calenders and cutting lines.

RSI was specifically developed:

- to meet the challenges of detecting different colored film residues on cutting lines
- to precisely detects defects that occurred during the calendering process



Technical data	
Camera	Color line scan camera (double line), up to 3
Pixels	2 x 4096 (RGB), 6144 (monochrome)
Operating voltage	24 V DC
Scan frequency	Up to 10 kHz
X resolution (per camera)	Field of view = 500 mm => x res = 0.12 mm/pixel
Y resolution	Speed = 0 to 60 m/min => y res = 0.11 mm
Measuring range	500 to 1500 mm (x direction) (larger on request)
Distance, camera – web	600 mm
Lens type	50 mm
Defect size	Min. 3 x 3 mm