APPLICATION NOTE SAFETY

IR TEMPERATURE MEASUREMENT ON THE PLANING LINE

FOR FIRE PROTECTION AND QUALITY CONTROL

Wood industry | Fire prevention | Quality control

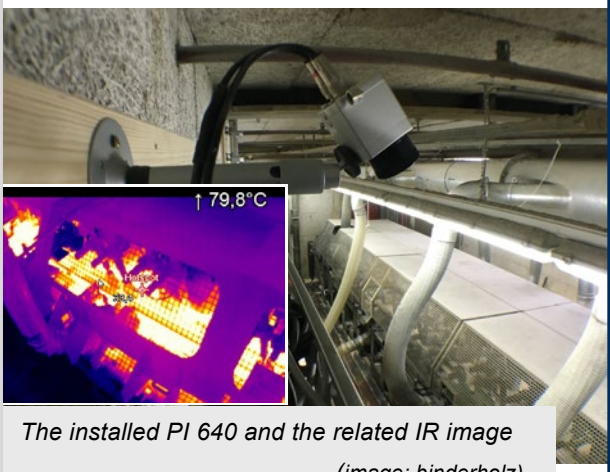
Customer requests

Fires in sawmills and other forestry product plants are a ***real threat!*** There have been nearly ***80 fires*** in these production facilities in the ***last 5 years*** (as of 2020) in Germany, Austria and Swizerland alone.

At the Austrian company ***Binderholz GmbH***, various products are machined using planing machines. During the production process, ***excessive friction*** can generate heat, which can cause ***shavings to ignite*** and cause a fire.

The company was looking for a solution to ***prevent*** the ***risk of fire***.

Monitoring the process via a large live monitor
(image: binderholz)



The installed PI 640 and the related IR image
(image: binderholz)

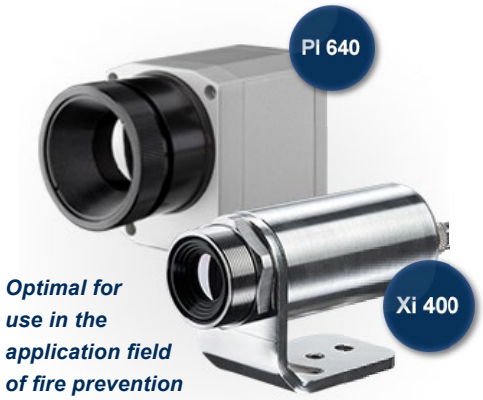
Solution by Optris

To avoid the risk of fire, Optris installed Infrared temperature monitoring systems across the planing line. This system contains the optris **infrared cameras (PI 400** and **PI 640)** and the license-free **software optris PIX Connect**. The compact design of the cameras is a major advantage for the application and allowed **quick and easy installation** of the system.

- Robust & compact design (IP64)
- Up to 125 Hz measurement
- Network connection
- Automatic hotspot detection with alarm output
- Multiple cameras visible on one software screen simultaneously
- Display infrared images on a standard PC or with IRmobile App on a mobile device
- Withstands harsh environments
- Easy to install, even in tight spaces
- Different optics available
- Self-monitoring system (fail-safe signal)
- Camera resolution of 382 x 288 pixels or 640 x 480 pixels
- Various optional accessories available like CoolingJacket or air purge

Further advantages

The Optris cameras are also used for **quality control** in this application. Depending on the contact pressure of the stop rail, the wood surface can likewise heat up considerably - discoloration or even scorch marks are then the results. By **monitoring the wood surface** temperature by the Optris cameras directly in the machine such quality defects can be detected early and the **scrap rate** can be **reduced significantly**.



Optimal for use in the application field of fire prevention

optris infrared measurements

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