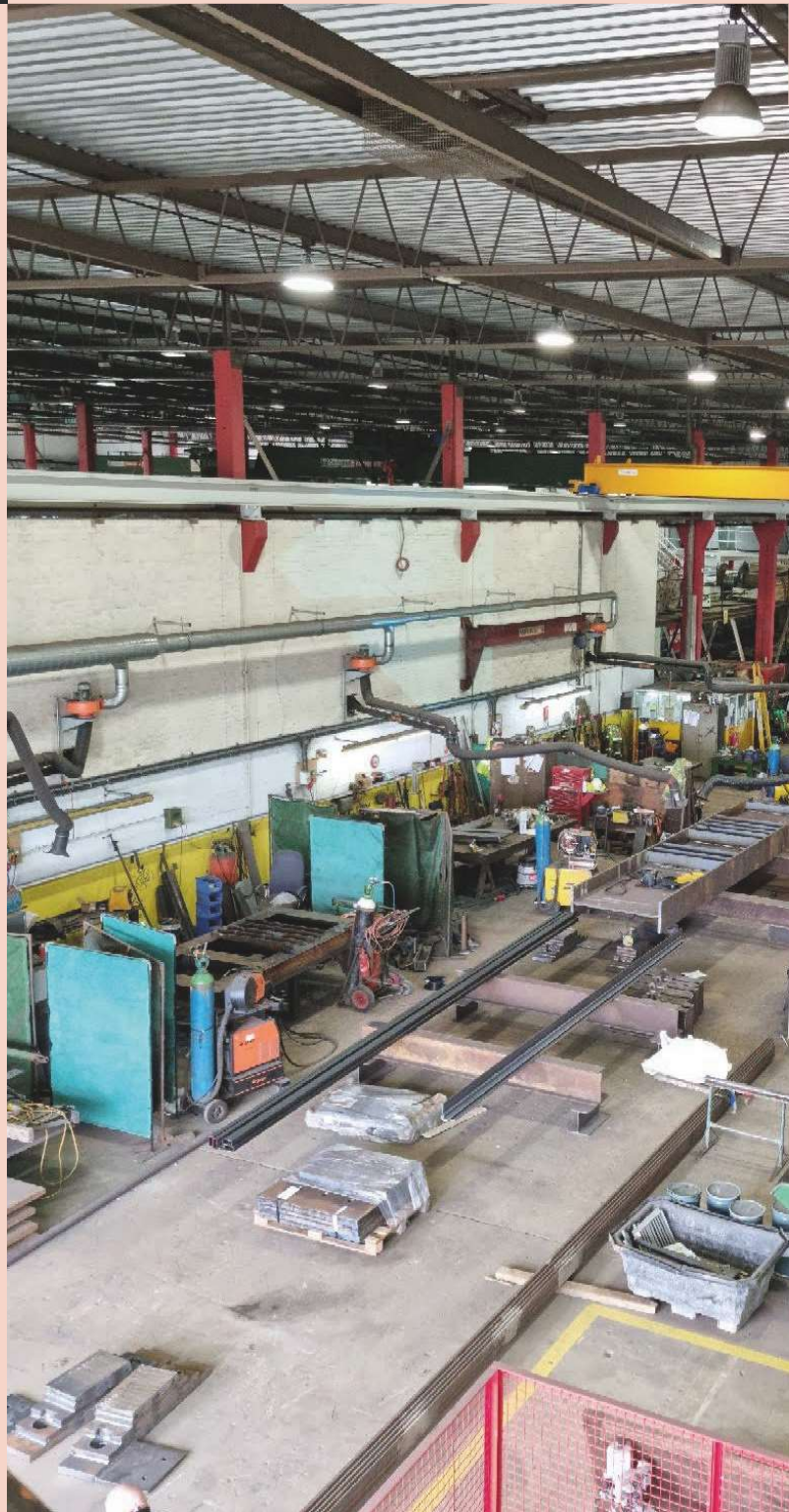


LOOKING OUTSIDE THE BOX

Increasing productivity by providing a fully automated fire watch for hot works

SUMMARY

One of the oldest construction and civil engineering companies in the UK approached Ciqurix with a unique challenge. They have an in-house workshop with a number of welding and hot works bays where they fabricate, maintain and repair all types of plant and equipment from across their varied business sectors. They wanted to automate their hot works fire watch processes.



CHALLENGE

Most hot work needs a minimum period of 60 minutes "fire watch" after work has finished to check that no fires subsequently develop. This requirement is specified by most fire safety policies, risk assessments and insurers. Staff at the workshops were having to stop all hot works an hour before the end of each shift in order to watch for fire before going home. Specialist welders are expensive, and the company were understandably keen to find a solution to maximise productivity whilst retaining the highest possible standards of fire safety at their site, as well as satisfying the requirements of their insurers.



DETECT MULTIPLE FIRES IN SECONDS



ALL LIGHT LEVELS - DAY & NIGHT



BOTH INDOORS & OUTDOORS



SEE FIRE AT UP TO 180 METRES

SOLUTION

The plant manager spent considerable time researching potential solutions, including traditional flame detection and thermal cctv cameras. The Ciqurix CORE system was chosen because it looks for actual fire rather than the products of combustion (which can be confused with benign stimuli). It doesn't respond to heat, dust, fumes or steam. Bounding boxes can be drawn around legitimate fire sources to mask them, and the sensitivity can be adjusted in different areas of the image. Because it is designed to comply with BS5839-1, it can form part of the prescribed fire detection system and be used to satisfy insurance requirements.

RESULTS

Ciqurix design engineers worked with the site to model the area of risk and specify required camera locations. An overhead travelling crane is used in this area, so the detectors needed to avoid the possibility of being blocked. Only two XFP video detectors were needed, plus a CORE Control Hub. Each detector provides a live video feed to the site staff, accessible from their PCs and mobile devices, and links to the site fire system which is monitored off-site.

MORE THAN 15% INCREASE IN PRODUCTIVITY

RETURN ON INVESTMENT IN UNDER 18 MONTHS

ZERO FALSE ALARMS SINCE COMMISSIONING

INSURANCE COMPANY SATISFIED

