

# Bringing bright light with minimal heat generation to the darkness of the cyclone

## The customer

Gema Switzerland GmbH is one of the world's leading developers and suppliers of devices, systems and accessories for electrostatic powder coatings and is constantly at the cutting edge of the market with its innovative solutions.

## The initial situation

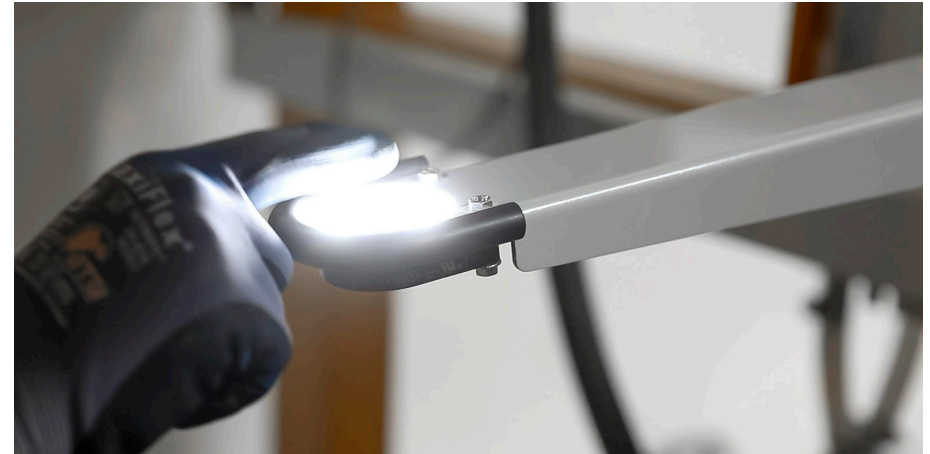
The cyclone in Gema plants enables colours to be changed rapidly, increasing process efficiency. The system needs to be cleaned manually before the colour is changed. Good illumination is essential for achieving an immaculate clean. The maintenance staff had previously been using bulky torches, which was less than ideal. For that reason, Gema began searching for a compelling lighting solution.

## Project requirements

- ▶ Perfect illumination of the cyclone interior during the cleaning phase
- ▶ Maximum heat generation by the lamp of 30°C
- ▶ LED lighting providing a high level of light
- ▶ Light attached to the swivel arm

## Bachofen's solution

The Bachofen specialists closely examined the specific requirements of the application and recommended that the Gema engineers opt for the WL50 light from Bach-



*The Banner light provides perfect illumination of the cyclone interior during the cleaning phase.*

ofen technology partner Banner, as this light has been specially developed for industrial applications in confined spaces. This light completely illuminates the interior of the cyclone. It is mounted on a swivel arm and can be easily moved into the correct position by the maintenance technician. The LED technology ensures a high

light output. The heat of the lamp also does not exceed 30°C, preventing the powder in the cyclone from being baked onto the lamp. Gema appreciated Bachofen's commitment to providing technical expertise and was highly satisfied with the fast delivery and fair price.

**«Bachofen truly understood our processes and delivered a solution that exceeded our expectations.»**

Thomas Studerus,  
Principal development engineer for Filter & Recovery  
Systems, Gema Switzerland GmbH

Project technology partner



**BACHOFEN**  
INDUSTRIELLE AUTOMATION