

Case study – system7


# Step by step towards automation

## The customer

The Austrian track construction company system7 relies on intelligent technologies in the development of its machines to make the future of track construction even more efficient and safe. One focus is the development and production of tamping machines.

 **Industry**  
Track construction

 **Location**  
Laakirchen (Austria)

 **Machine**  
Universal tamping machine

 **Liebherr product**  
MDC3 camera

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*Our machines now benefit from the features and high image quality of the MDC3. A sharp image with many details facilitates image interpretation, and thus ensures greater efficiency and safety in operation.*

Harald Hüttmayr  
head of automation technology  
at system7

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## The challenge

- Track maintenance and construction machines have to withstand extreme mechanical and climatic conditions over decades
- All components have to be resilient and durable to guarantee the availability of the machines
- Hard-to-see areas of the complex machines must be made visible with the help of camera systems
- Nocturnal operations, e.g. track maintenance work, require a constantly high image quality of the cameras, even in changing light conditions

## The solution

Up to 24 MDC3 digital cameras from Liebherr are installed in the tamping machines and provide images of areas of the machine that are difficult to see.

## Specifics of the solution

### Robustness

The MDC3 camera withstands heavy vibrations, dust and temperature changes. It provides exemplary resistance in demanding operating conditions.

### Multicasting option

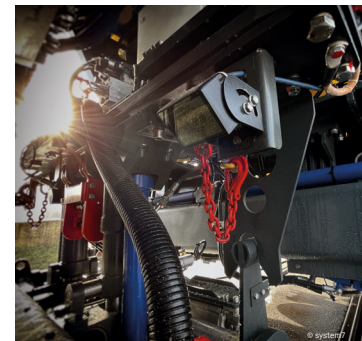
Identical video streams are transmitted to the monitors of several driver's cabs simultaneously and enable permanent monitoring of the work processes.

### HD image quality in every situation

Detailed image information even in difficult lighting conditions, thanks to the high-performance imager and HDR-technology.

### Automation

High image quality and digital camera technology paves the way for future automation of the machines.



**LIEBHERR**