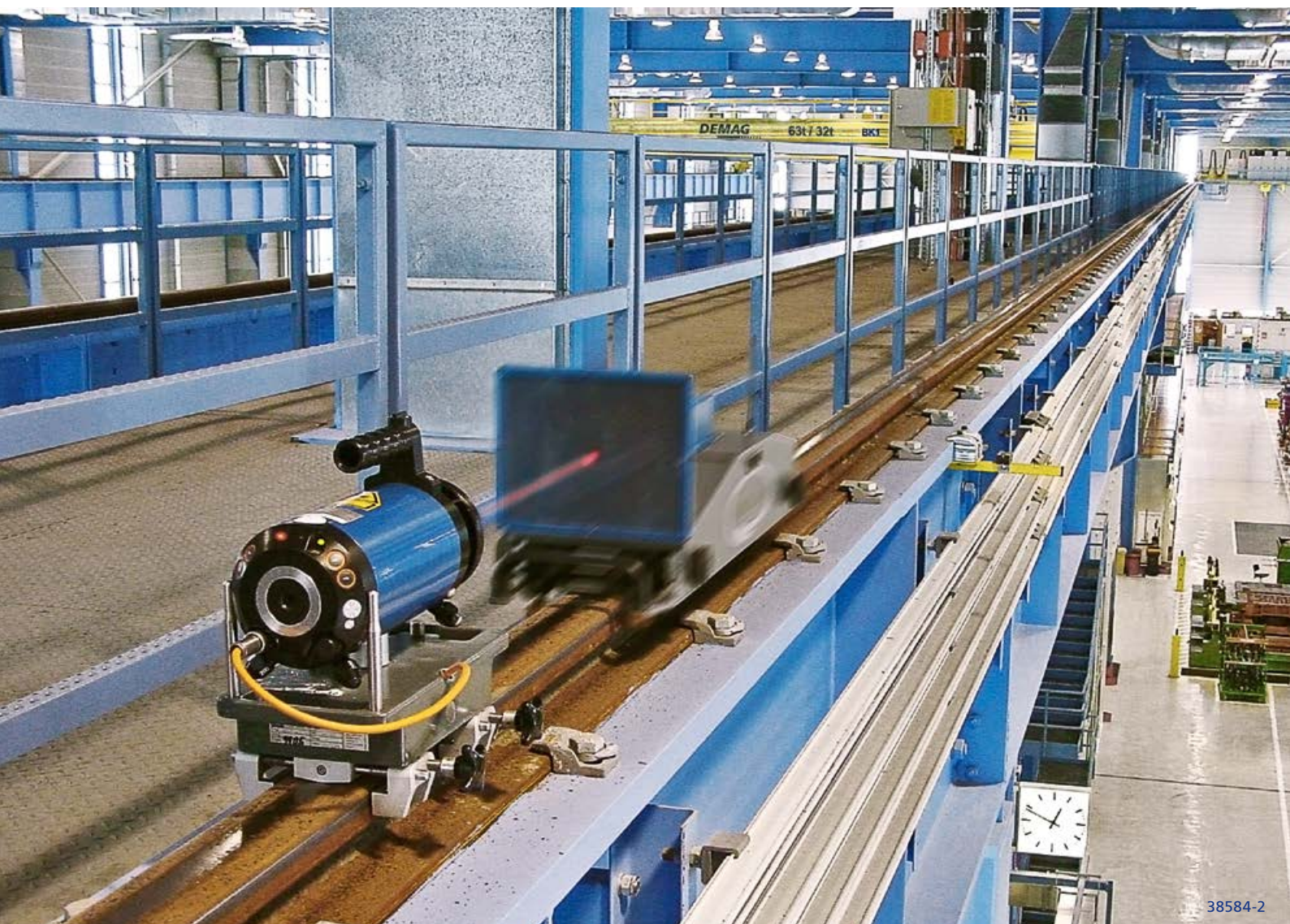
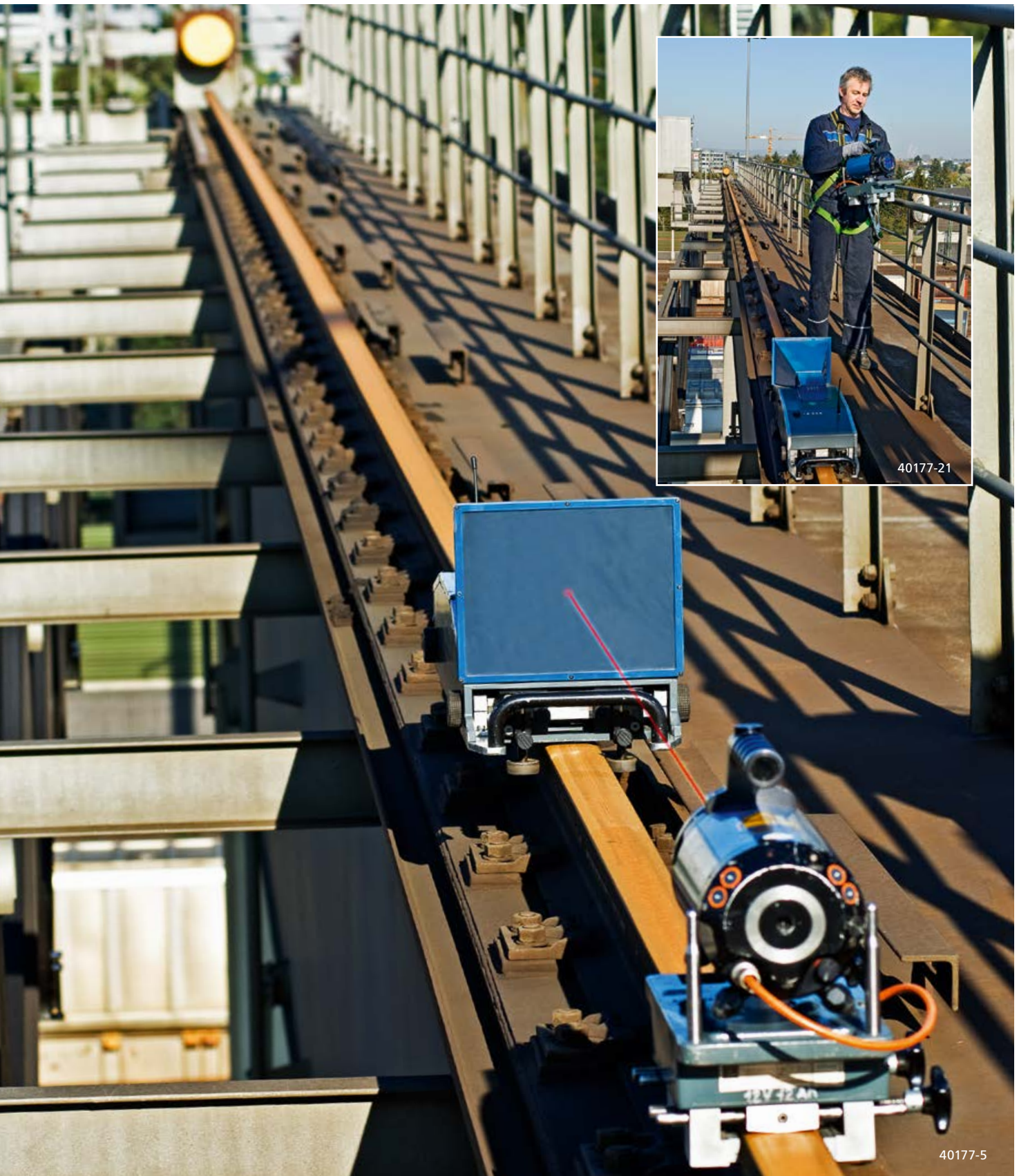


## Safety all along the line

Demag crane runway surveys



## Peace of mind with Demag crane runway surveys



The condition of a crane runway and the crane geometry have a decisive influence on the service life of a wide variety of crane components. Smooth travel motions can only be ensured by a perfectly aligned crane runway and crane geometry. They prevent premature wear of the travel wheels as well as sudden or abrupt changes in the travel speed and unexpected load sway.

By contrast, the travel characteristics and, therefore, optimum availability of an installation are impaired when specified tolerances are exceeded.



Regular surveys of your crane runways carried out by Demag Cranes & Components ideally help you to

- eliminate production downtime
- prevent complicated, cost-intensive repairs
- avoid breakdowns
- detect structural damage in buildings when it occurs and implement counter-measures in good time.

### Demag crane runway surveys by laser

The measuring methods employed by Demag Service are fast, reliable, can be used for any products and are cost-effective and safe. Highly precise surveys by laser, as with our internationally patented LMS laser measuring system, can be carried out quickly and easily. Operating sequences hardly need to be interrupted and no additional measures such as blocked zones, protective barriers or temporary clearance of production or storage buildings are necessary.

### Everything from a single source

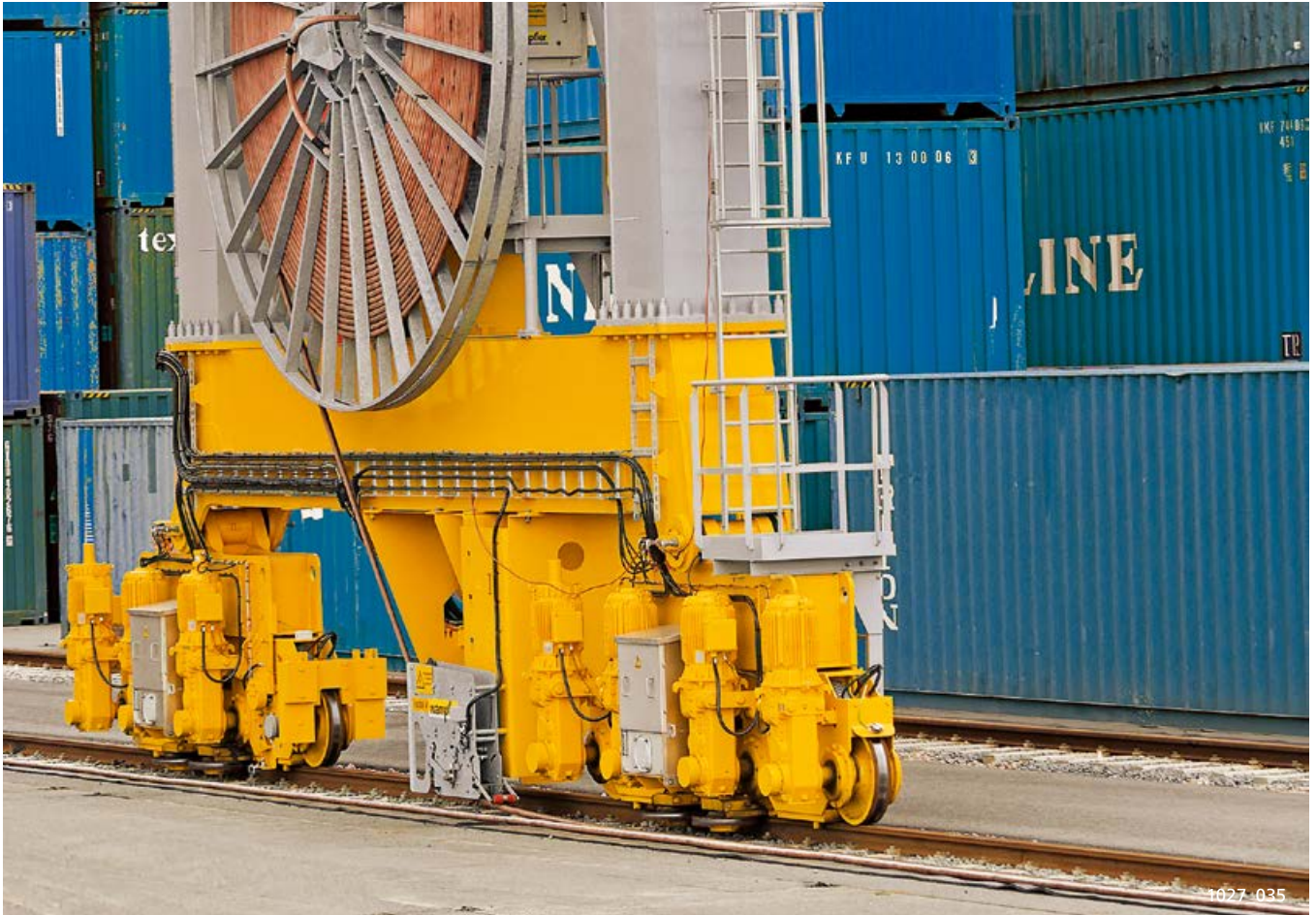
The survey results are immediately available on the laptop. If required, a comparison of the actual situation and the theoretical design as well optimum solutions to eliminate any defects can be developed by our engineers. The quality of a crane runway is not only determined by precise arrangement of the rails, but also by technical details such as wear of the rail head, the condition of the rail joints and the rail fastening method and design. The Demag survey service provides you with all you need from a single source.

### Demag survey scope of work

- Measurement of crane runways with the patented LMS laser measuring system
- Evaluation of the quality of the crane runway including illustrated documentation
- Check of the crane and crab geometry
- Measurement of the parallelism of travel wheels in the plan and elevation view
- Measurement of the parallelism of guide rollers
- Survey of the crab runways
- Expert reports in graphical and table form in accordance with the relevant VDI 3576, ISO 12488-1, DIN 4132, etc., tolerance classes
- Determining any possible repair requirements
- Cost-effective correction proposals to eliminate any defects found
- Evaluation and survey of storage and retrieval machines as well as ground rails and high-bay racking
- Survey work for other requirements (also non-crane items)



## Crane runway surveys with maximum precision



### Ideally suited for runways used by various types of

- Industrial Cranes
- Portal harbour cranes
- Automated stacking cranes
- Portal cranes
- Storage and retrieval machines
- Non-crane items

### Equipment used includes

- Automatic alignment lasers
- Radio-controlled, self-propelled trolley
- Laptop with a radio modem as well as control and evaluation software
- Laser distance meter with positive centring arrangement for rails
- Classic precision measuring equipment such as tachymeters, digital levellers, laser levellers

### Certified safety

Our personnel are trained regularly and satisfy the requirements of relevant safety standards. As required by relevant regulations, all measuring equipment used is checked, calibrated and certified by the manufacturer or an authorised service partner in accordance with ISO 17123-3 and ISO17123-4 on the basis of the DIN EN ISO 9001 and DIN EN ISO 9000 quality management system.