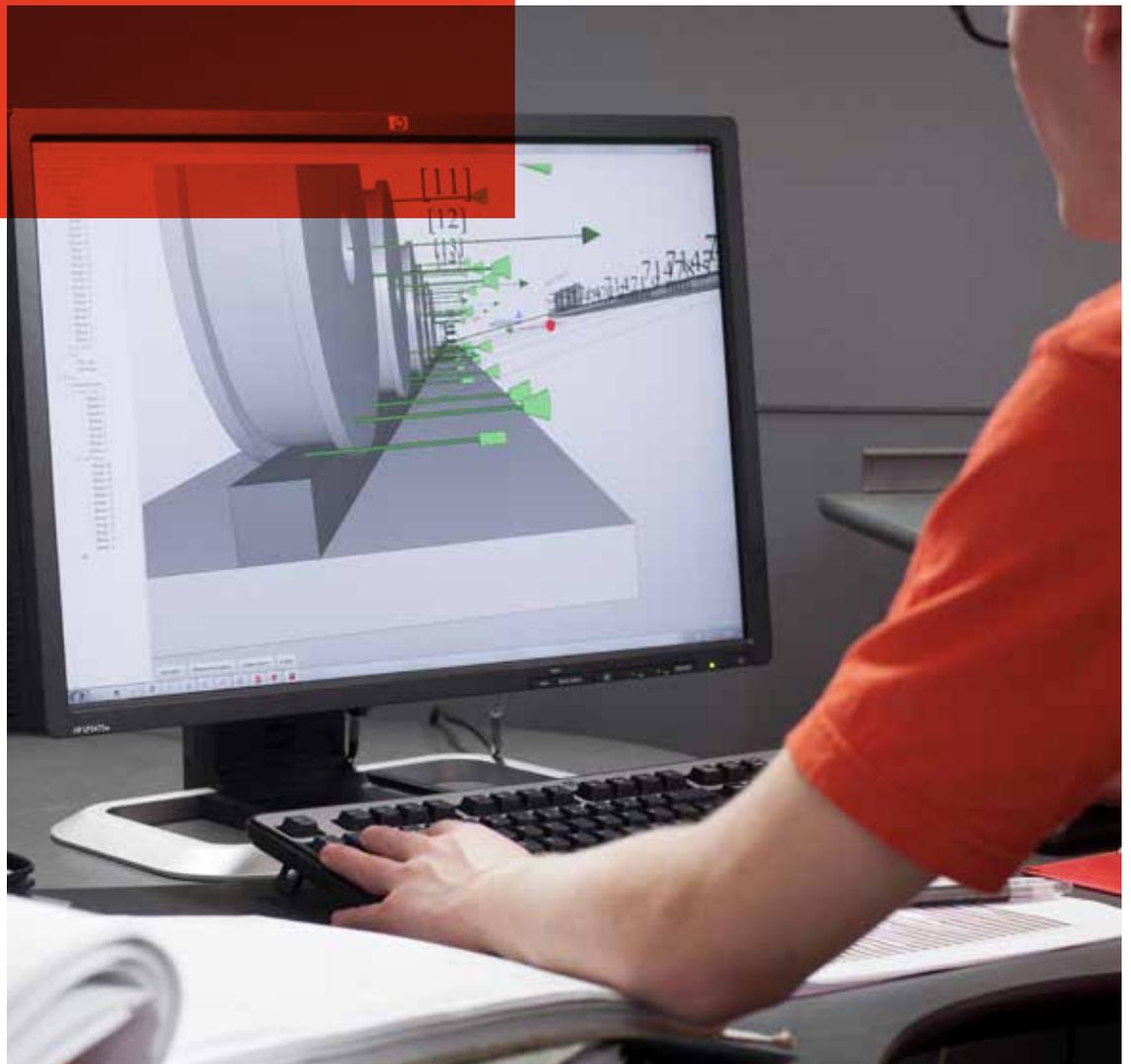


CONSULTATION SERVICES

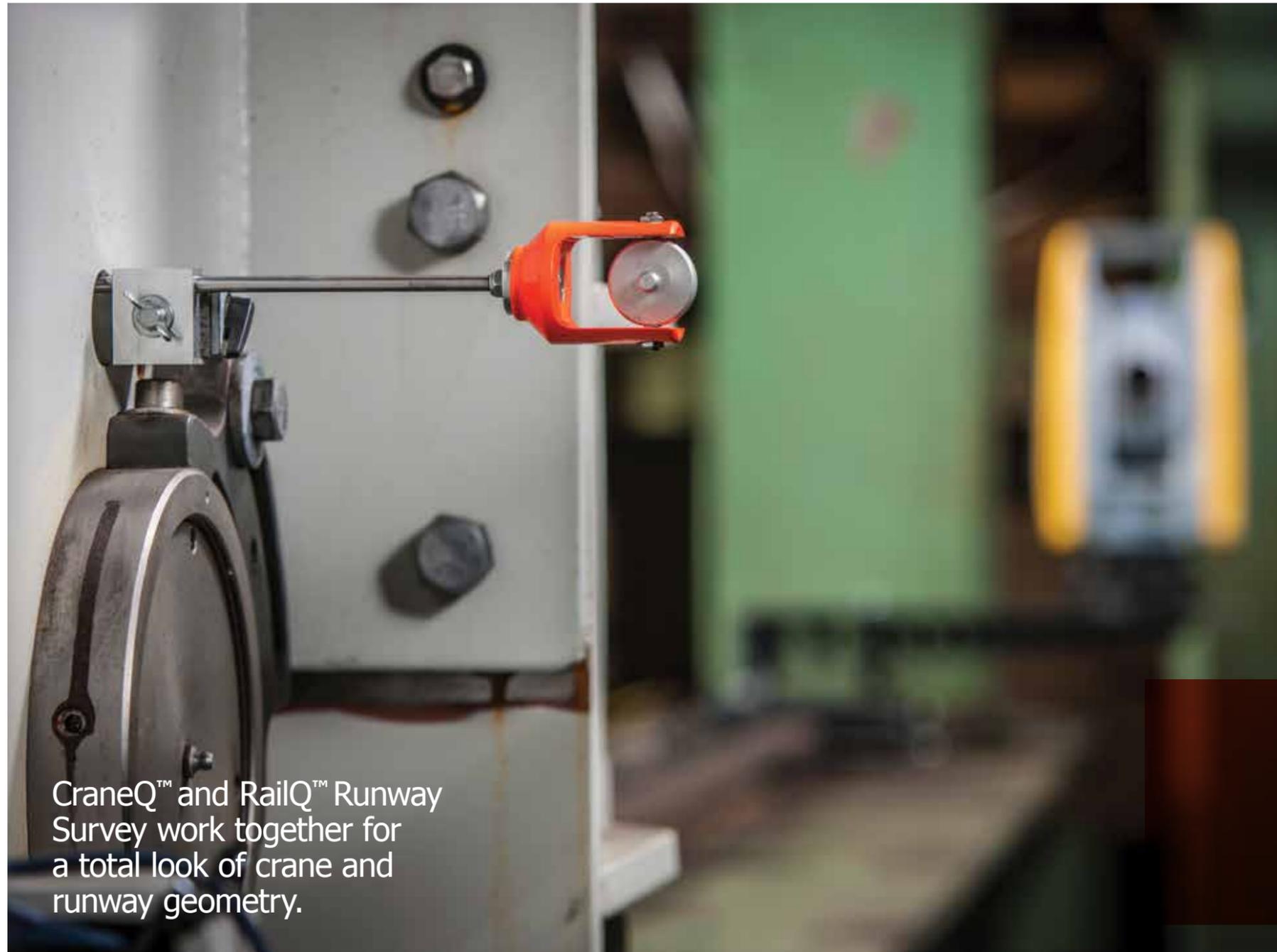
CraneQ™ Crane Geometric Survey



A prescription for recognizing running problems

Do your cranes suffer from premature wheel wear, rail wear, structural component failures, or drive faults? All of these are common results of incorrect crane geometry. Have your crane operators complained

that a crane is moving and making strange noises or positioning incorrectly? CraneQ Crane Geometric Survey helps you to find the root cause of these symptoms to avoid more major problems and costly downtime.



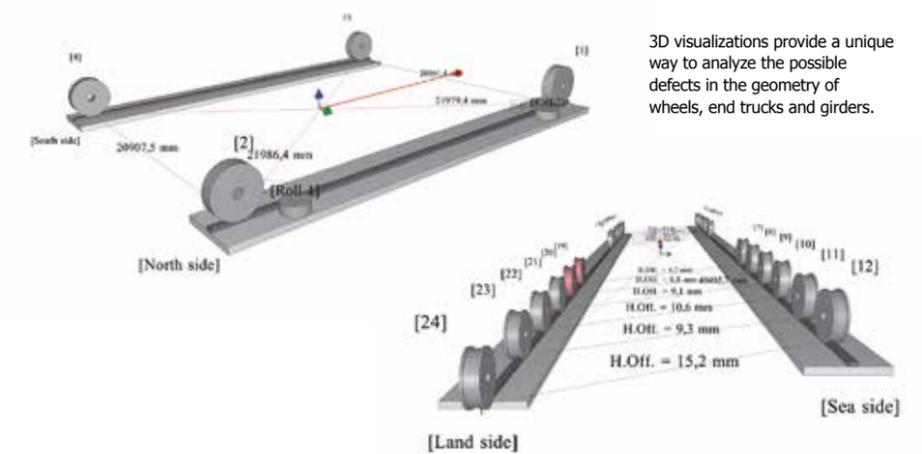
CraneQ™ and RailQ™ Runway Survey work together for a total look of crane and runway geometry.

Geometric insight into the alignment and square of your crane

Cranes that are straight, square, and aligned experience less repair costs and are more reliable. Konecranes CraneQ Crane Geometric Survey provides accurate information detailing the alignment and the square of a crane. It measures dimensional tolerances of wheels, guide rollers, end trucks, girders, and other components of the crane.

Accurate geometric analysis guides corrective actions

The survey is based on advanced surveying methods developed specifically for crane geometry. Proprietary software and skilled survey technicians provide a geometric analysis of your crane. In addition to the survey results, we share our expertise via suggestions for next steps to help you to plan corrective actions.



3D visualizations provide a unique way to analyze the possible defects in the geometry of wheels, end trucks and girders.

BENEFITS

- Provides more accuracy than traditional surveying techniques
- Reveals problems in crane alignment that cause unnecessary wear on components or safety issues
- Minimizes downtime due to component wear by assuring correct component alignment

Konecranes is a world-leading group of Lifting Businesses™, serving a broad range of customers, including manufacturing and process industries, shipyards, ports and terminals. Konecranes provides productivity enhancing lifting solutions as well as services for lifting equipment of all makes. In 2017, Group sales totaled EUR 3,136 million. The Group has over 16,000 employees at 600 locations in 50 countries. Konecranes shares are listed on the Nasdaq Helsinki (symbol: KCR).

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**Learn more about CraneQ
and RailQ Runway Survey**

konecranes.com