

TAKE A DEEPER LOOK AT YOUR CRANE

Consultation Services

Sometimes a more detailed evaluation is necessary than can be performed during regular inspections and preventive maintenance. Our Consultation Services meet this need with advanced technology and trained specialists when a deeper look at your crane and its components is required.

WHEELS AND GUIDE ROLLERS

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

CONSULTATION SERVICE
CraneQ™ Crane Geometric Survey



BELOW-THE-HOOK DEVICES

Below-the-hook devices are subject to wear, defects, deformation, stretching, deterioration and other issues related to their use.

CONSULTATION SERVICE
Below-the-Hook Inspection

RUNWAY

Crane runway condition and rail alignment play a critical role in the overall performance of a crane. Improper rail alignment contributes to premature wear of wheels and rails.

CONSULTATION SERVICE
RailQ™ Crane Runway Survey

GEAR CASE

Cranes that have been used heavily, or that have been in service for many years, can develop cumulative fatigue and other incipient failures. In extreme conditions, a gear case might fail catastrophically, resulting in a load drop.

CONSULTATION SERVICE
Gear Case Inspection
Design Life Analysis

STEEL STRUCTURES

Steel structures are subjected to fatigue as loads are lifted, and as fatigue life ends, safety can be compromised.

CONSULTATION SERVICE
Steel Structure Analysis

COUPLINGS

Hoist couplings are critical components for the safe operation of cranes. Failure of a coupling can lead to a load drop.

CONSULTATION SERVICE
Coupling Inspection
Design Life Analysis

WIRE ROPE

Throughout the working life of a wire rope, the wires, strands and core that comprise the rope are subjected to tension, bending and abrasion. If too many of these wires are broken or the core is damaged, the strength and safety of the rope is compromised.

CONSULTATION SERVICE
RopeQ™ Magnetic Rope Inspection
Rope Analysis

HOOK AND SHANK

The bottom block assembly on a crane is made of many critical components that are subjected to loads and stresses during each hoisting cycle. While hook failure can occur due to overloading or mechanical abuse of the hook, cumulative fatigue should be a main cause of concern.

CONSULTATION SERVICE
Hook/Shank Inspection
Hook Analysis

COMPONENT DESIGN LIFE

Frequent inspections, while necessary, cannot always catch machinery failure that may be caused by extremely fast crack propagation. A calculation of design life will give information that helps you assess your safe working limits and plan actions for continued equipment use.

CONSULTATION SERVICE
Design Life Analysis

CRANE

Rising maintenance costs, challenges to meet current production needs and safety concerns are all problems you face every day as a crane owner. A Crane Reliability Study can guide your maintenance and modernization decisions and provide information to increase the safety and productivity of your crane.

CONSULTATION SERVICE
Crane Reliability Study