HOW HAS

The weaver become the only bird that

can tie knots? Female weavers have evolved very high

nest inspection standards. As a result, weaver nests are considered the avian world's super-structures.

Inspections Patented inspection tools that precisely establish the condition of your entire crane.

Crane

Precision. Evolved.





will enable your fleet and your team to adapt to a fast-changing environment.

ADAPT AND THRIVE

Konecranes is the premier

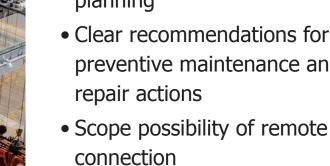
port services provider.

inspections and training,

Our range of service

products, such as

Welcome to the **evolution** of your port. We provide a wide range of fleet enhancements for both equipment, systems and teams which enable ports to continue to adapt and thrive.



BENEFITS

standards

capital assets

planning

Maximize the safety and

reliability of your equipment

• Proprietary software tools for

industry-leading inspection

Gain technical insight to make

better decisions about your

• Improved spare parts stock

- Clear recommendations for preventive maintenance and repair actions
 - regulations, our inspectors are always familiar with local requirements.

Adherence to more stringent

SCHEDULED INSPECTION

intervals (monthly, quarterly,

• Follow up the crane condition

regularly to find out accurate

Conducted on regular

information to decide

• Scheduled inspection is

maintenance program

part of the crane's regular

(FEM 1.006, CMAA 78-2002)

necessary actions.

annually etc.)

• Inspection scope is made to recommend necessary locally, based on legal preventive maintenance requirements. actions. • The one-time inspection can be limited or unlimited: covering the whole crane.

STATUTORY INSPECTION

fulfil legislation requirements

regarding crane inspections.

Main purpose of this is to

Basic Types of Inspections

to support requests, and the high level of technical knowledge available. • Inspections can be customized, maximizing the benefit from the findings.

these are then also conducted.

check any hydraulics.

routine maintenance.

• Potential requirement for

- auxiliary equipment e.g. forklift etc.

HOW IT WORKS

WHAT YOU NEED TO KNOW

• If any specific tests such as RailQ or CraneQ are required

• A comprehensive inspection combines a check of your

• Customers appreciate how fast Konecranes responds

inspection scope - additional equipment (e.g. office container) Customer must facilitate access to terminal, including any Safety Induction Training necessary

• Standard inspections use MAINMAN technology. In

the case of a tailored inspection or the inspection of

a specific part of the crane, an individual report will

customer personnel to assist in fulfilling the

- RopeQ[™] Magnetic Rope Inspection

- and it is outlined in the owner is agreed case by case. manual of the crane.
- We start with the steel structure, then examine the operating machinery, test the electrical systems and

ONE-TIME INSPECTION

time inspection is to produce

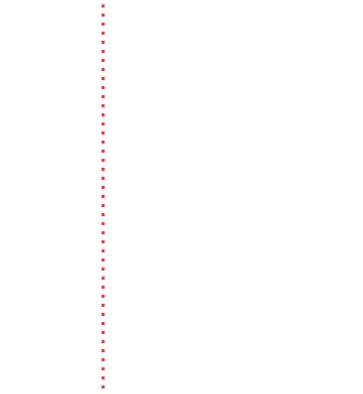
accurate information about

• The scope of the inspection

• The purpose of the one-

the crane condition and

- equipment's safety, the state of its components, and



be made.

hundreds of individual strands.

core and inner wire strands cannot be seen.

rope's interior and exterior condition.

Runway Survey

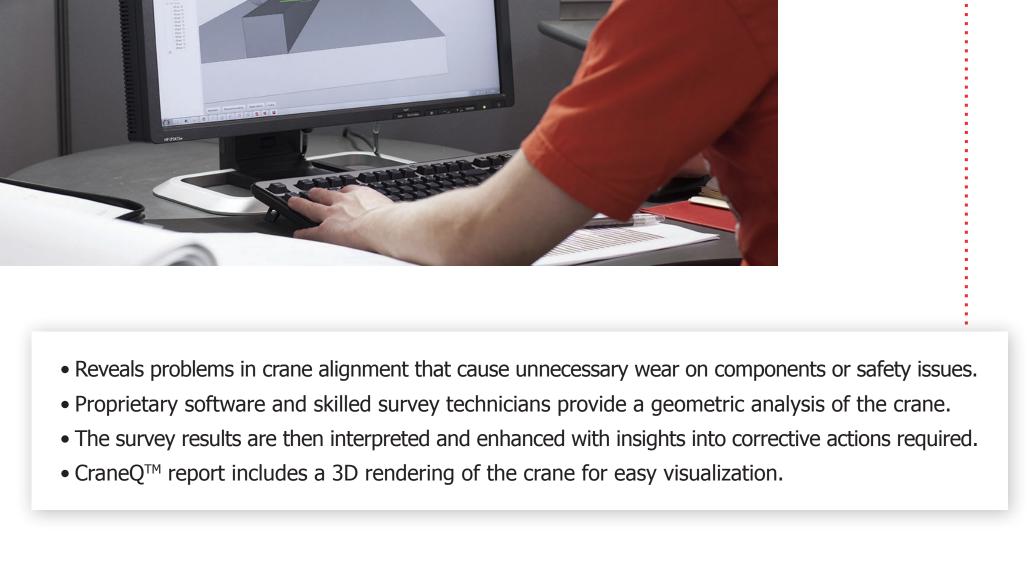
- CraneQTM Geometric Survey

• Wire ropes are one of the most critical parts of your wire rope hoists, and they can contain

• Broken strands on the rope exterior can be found by visual inspections, but the condition of the

• RopeQ[™] determines the condition of a wire rope based on a visual and magnetic inspection.

• The inspection utilizes magnetic-inductive leakage technology to provide accurate data of the



• Delivers accurate information on the alignment of your crane rail and provides expert

• RailQ™ uses a remotely-operated robot to minimize downtime and increase the safety of

• RailQ[™] provides information on runway span, straightness, elevation and rail-to-rail elevation.

recommendations for any needed corrective actions.

the survey.

- Crane Reliability Study (CRS)
- Engineering assessment of crane condition, including structures, mechanical components and control systems.

an estimate of the remaining design life, based on equipment classification and utilization history

information that can be used to choose between an equipment modernization or replacement.

an accurate picture of the current condition of the lifting equipment

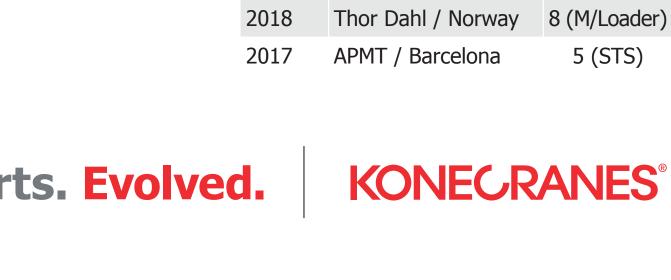
an easily interpreted review of the condition of the crane

• Provides:

APMT | Barcelona



Gang Ji | Ningbo Flinders | Australia (Various) **Customer/Location Quantity** Year 2018-20 Gang Ji / Ningbo 102 (RTG)



2013-19 Flinders / Australia

12 (MHC)

