

The LRQA logo is enclosed in a white square with a thin black border. The letters 'LRQA' are in a bold, sans-serif font, with a stylized 'A' that has a diagonal line through it.

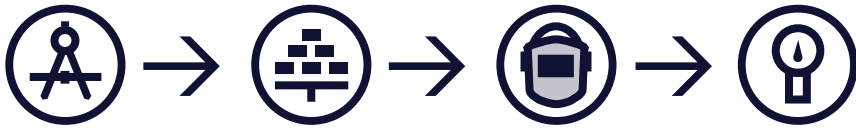
LRQA

Port Cranes Inspection Services

Expert design appraisal/review, inspection and certification services for new build and in-service port cranes.



Inspection, consulting, certification: full life-cycle support from design to delivery



Design appraisal

Material inspection

Fabrication inspection

Testing & delivery inspection

Port cranes

New build

Our services for new build port cranes include design appraisal/review, inspection and certification based on international and national standards and owner's specifications.

Design appraisal/review

- Structural
- Mechanical
- Electrical
- Control and safety system

Material inspection check

- Qualification of suppliers
- Verification of materials

Fabrication inspection at manufacturer facility

- Inspect purchased/subcontracted parts
- Inspect steel structures
- Inspect machined parts
- Inspect electrical installation
- Painting inspection
- Qualification of welding procedures and welders

Testing and delivery inspection

- Factory acceptance test
- Inspection during loading and sea fastening
- Port commissioning and acceptance test

Port cranes

In-service

Our independent experts take in-depth measurements, and using advanced analysis, can give you the knowledge you need to make decisions regarding the future of your crane assets. Those decisions take into account your operational, safety and maintenance requirements and costs.

Our in-service solutions include:

- Condition assessment based on risk methodology
- Repair and modifications

Product expertise

LRQA will partner with you as early as design appraisal review, and continue through to on-site installation. We have experience inspecting and certifying several types of port cranes, including:

- Ship-to-shore (STS)
- Rubber tire gantry (RTG)
- Rail-mounted gantry (RMG)
- Automated cranes
- Ship loader/unloader
- Stacker-reclaimer
- Harbor cranes
- On-shore cranes

Benefits of partnering with LR

- Assurance of through-life integrity
- Reduction in risk of failure and downtime
- Assurance that manufacturing, installation and maintenance work satisfies specified equipment
- Decrease in technical risk, helping to build confidence for major projects
- Access to a global pool of disciplined inspectors possessing in-depth knowledge of port cranes
- Design Appraisal based on independent calculations performed by our experts who are able to capture errors that could lead to costly project delays-before they happen
- Project managers (PMP) to manage the development and delivery of projects to the agreed quality, time and cost.

Technology services

Enabling smarter, safer and more sustainable solutions, our remote port crane inspection capabilities include:

- Application of drone technology for condition assessments/in-service
- inspection
- Remote inspection using LRQA Remote technology

Remote assurance; making expertise easily accessible for cranes and other safety-critical assets

Our remote services are underpinned with our easy-to-use app, LRQA Remote, which is downloadable free of charge from Google Play or the App Store.

LRQA Remote connects you directly and securely with our worldwide network of auditors and inspectors.



It can record and share live video and audio streams and can also exchange documents and images in real-time.



It can be easily installed across standard mobile devices and only needs internet connectivity either via WiFi or your local network provider (3/4G).



LRQA provides rapid, secure, and interactive connections to stream our trusted remote inspection and assessment services direct to you - whenever and wherever you need us; simple, quick and efficient.

Connect with our technical experts, wherever you are in the world

LRQA applies digital technology to help organizations worldwide easily access our range of remote assurance services - enabling smarter, safer and more sustainable solutions.

The ability to stream high-quality data in what are often low bandwidth conditions means that real-time collaboration with our technical experts is possible anywhere in the world.

While traditional inspection and assessment remains at our core, we recognize that for some organizations - especially for those in hard to reach areas or with complex infrastructures - there is a clear need for remote services.

Our range of remote assurance services are efficient and flexible, providing you with the immediate technical expertise which we are renowned for. From enabling the safer deployment of resources through to minimizing any disruption to your business or unscheduled downtime, our remote assurance services are designed to meet your changing business needs.


“ The quality of remote inspection is at the same level, but the availability of evidence has increased. It is truly a win-win situation, both for us and for our customer.

Mart Hinnen
General Manager - Enerpac



LRQA Port Crane Experience

NEW BUILD CRANES



210+ STS
450+ RTG
150+ ASC/RMG
25 SUL


REMOTE DRONE INSPECTION



1 STS Adani India, Mundra Port

PSA Sines, Portugal **5 STS**

MODIFICATIONS STS CRANES



Port of Ashdood: 1 STS – height & boom extension by 5.5.M

Fabricator: KALMAR

Fabrication inspection:
Conducted at various contractor facilities in Spain

Design appraisal & final site acceptance test (SAT):
Conducted in Israel

IN-SERVICE CRANES / CONDITION ASSESSMENTS

Total 85+

Single largest project:

71 cranes: 21 STS + 50 RTG

Port of RSGT (Red Sea Gateway Terminal), Jeddah, SAU
Project completed in 4 weeks

Other terminal projects:

PSA Sines, JICT Indonesia, Sabah Malaysia, BEST Barcelona

We work with **4 of the 7 top global operators:** PSA, HPH, TIL, DP World



YOUR FUTURE. OUR FOCUS.

About LRQA:

By bringing together unrivaled expertise in certification, customized assurance, cybersecurity, inspection and training, we've become a leading global assurance provider.

We're proud of our heritage, but it's who we are today that really matters, because that's what shapes how we partner with our clients tomorrow. By combining strong values, decades of experience in risk management and mitigation and a keen focus on the future, we're here to support our clients as they build safer, more secure, more sustainable businesses.

From independent third-party auditing, certification and training; to technical advisory services; to real-time assurance technology; to data-driven supply chain transformation, our innovative end-to-end solutions help our clients negotiate a rapidly changing risk landscape – making sure they're shaping their own future, rather than letting it shape them.

Get in touch

Visit www.lrqa.com/us for more information, email info-usa@lrqa.com or call **+1 866 971 LRQA**



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