Use case

Unexpected downtime led to losses exceeding \$300,000

Situation

- Cracks developed in a 3-yearold crane's contra boom due to **unexpected fatigue** while moving along the quay.
- Repaired sections showed new cracks shortly after initial fixes.
- Crack growth led to two weeks of downtime and \$300,000+ in losses.

Solution

- 24 sensors were installed on the crane's most critical welds.
- Onsite installation was completed within a single day.
- Within one week, the system delivered actionable insights into crack behavior.



old STS crane









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The future of structural health monitoring

Use case

Unexpected downtime led to losses exceeding \$300,000

Results

- Enabled continuous structural health monitoring to ensure safe operation.
- Eliminated the risk of unexpected downtime.
- Prevented potential yearly operational losses over \$300,000.







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The future of structural health monitoring