



SAFE INSPECTIONS
FAST TURNAROUND
PREDICTIVE MAINTENANCE



WHO WE ARE WHAT WE DO

Industrial Inspections



BOILERS

Robots adhere to boiler walls scanning every inch to identify areas of degradation.



TANKS

Tanks can be inspected from the outside while full. No need for expensive scaffolding or emptying.



SCRUBBERS

Dry scrubber failure due to wall thinning is a well-documented disaster. We provide a comprehensive report of wall loss.



Boiler Inspections

Using high quality ultrasonic testing probes, inspectors utilize robots to gather thickness data around the complete surface of each water wall tube. We can service water wall tubes ranging from 2" to 4" in outer diameter. Measurements are collected at different angles by an array of eight ultrasonic sensors. With variable speeds up to 12 inches/second, our robots are equipped with a HD camera allowing for real-time video surveillance. Measurements are calibrated and compared with handheld scanner readings to ensure the highest accuracy.

[READ MORE](#)

Technology

ROBOTS PORTAL



Wayback Machine | 1 capture | 10 Apr 2019 | Go | MAR | APR 10 | MAY | 2018 | 2019 | 2020 | COMPANY | About this capture



BOILER INSPECTIONS

Boilers suffer from many forms of degradation while in service. Water Wall Tubes can degrade due to hydrogen damage, pitting, ash and soot-blower erosion, graphitization, under-deposit corrosion, thermal fatigue cracking, and creep damage.

Our ultrasonic and visual inspections detect all of these forms of boiler damage through precise and accurate testing.



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Cutting Edge Technology

Using high quality ultrasonic testing probes, inspectors utilize robots to gather thickness data around the complete surface of each Water Wall Tube; we can service Water Wall Tubes ranging from 1' to 4' in outer diameter.

Measurements are collected at different angles by an array of 8 ultrasonic sensors. With variable speeds up to 12" per second, our robots are equipped with an HD camera, allowing for real time video surveillance. Measurements are calibrated and compared with handheld scanner readings to ensure the highest accuracy



web.archive.org/web/20190410212710/https://www.geckorobotics.com/services/boiler-inspections


wayBackMachine 1 capture 10 Apr 2019

scanner readings to ensure the highest accuracy

Why Choose Gecko For Your Boiler Inspections?

- OEM and Service Provider
- More Data; Less Time
- Reduce Human Risk; Less Liability
- Deliverable within 4 hours of inspection
- Availability - Force Outages

Actionable Results



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Actionable Results

Real-Time Tube Wear – presented with our Gecko Vision Map	Real-Time HD Video and Visual Inspection	Inspection report with repair recommendations made available immediately
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Is A Robotic Inspection Right For Your Asset?

