

3D Refractory Scanning

Inspection Services

At Gouda Vuurvast Services, we pride ourselves on delivering unparalleled expertise, reliability, and quality in refractory system installation and maintenance. By working closely with our clients, we tailor our solutions to provide maximum value. Our extensive service offering includes installation, maintenance, inspections, and expert consultations.

Innovative Inspection with 3D Scanning

Upon installation, our state-of-the-art 3D scanning technology meticulously assesses the condition of refractory linings. Prior to maintenance, a preliminary scan sets a definitive baseline, facilitating precise comparisons.



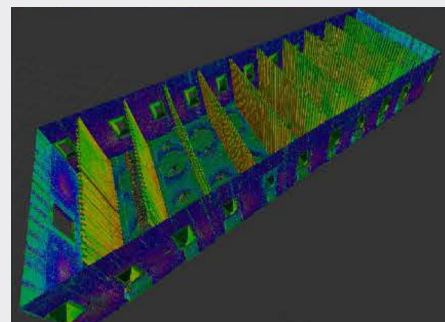
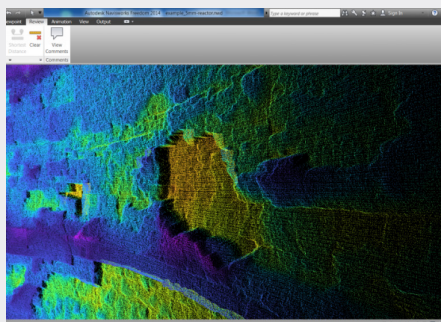
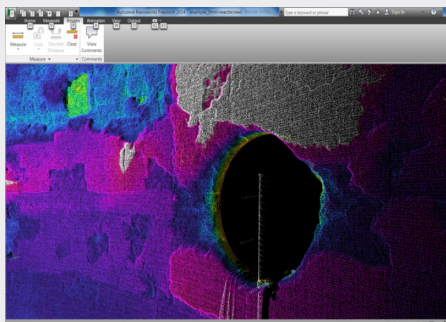
VCA-P
Certified

24/7
Services

Flexible and
Focused

Diverging from traditional inspection methods, our 3D scanning technology enables rapid, comprehensive captures of furnaces, incinerators, and process units. This approach significantly reduces downtime and limits personnel exposure to hazardous conditions. Even in poorly lit environments, our 3D scanners, employing infrared laser technology, achieve remarkably detailed and clear measurements.

Safety and efficiency are paramount; scans are conducted from the ground without interrupting operations, and analyses are performed remotely.



Precision and Practicality

Our detailed 3D models are instrumental in identifying wear, tear, detachment, or deformation. These models are crucial for:

- Conducting pre-turnaround assessments.
- Evaluating lining thickness in rotary kilns and transfer lines.
- Verifying burner alignment.
- Creating accurate As-Built documentation.

Over time, 3D scans become invaluable, allowing for precise comparisons of any new anomalies, ensuring accurate severity assessments.

Service Highlights

- Rapid scanning: Less than 2 minutes per scan.
- High-Dynamic Range (HDR) imagery for superior clarity.
- Capturing 2.000.000 points per second for intricate detail.
- Automated, targetless field registration for ease of use.
- Enhances team situational awareness by accurately reflecting site reality.
- Compact, lightweight, and easily portable equipment.



Trusted by Industry Leaders

Our reputable service portfolio includes collaborations with industry giants such as Air Liquide, Aluminium Duffel, ArcelorMittal, Aurubis, BASF, Biostoom, Borealis, Engie, ExxonMobil, Hellenic Petroleum, Imerys, and many more.

