



# SPHERA

*noun [ sfeer-a ].*

- 1 A, Sonomatic RAIS developed, **semi autonomous weld inspection tool** for the internal and external inspection of spheres and other carbon steel vessels.

Also called next gen in-spection [nekst gen in-spek-shuhn]

- 2 **H-D Video.** High Definition Video and Lighting Systems, allowing Sonomatic to accurately view and size any defects; All footage is captured, recorded and sent to the Inspection Engineer for analysis and acceptance; securely stored by Sonomatic.

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**FIVE different NDT Inspection techniques** deployed simultaneously;

1. **Phased Array** and **Time of Flight Diffraction (ToFD)** Inspection detects surface and subsurface breaking defects, including traverse cracking;
2. **16 Element ACFM** probe capable of scanning up to 90mm in single scan, scanning for surface breaking defects;
3. **3D Laser Profiler** provides detailed images showing height, depth and width of any defect initially identified by ACFM or Phased Array Inspections;

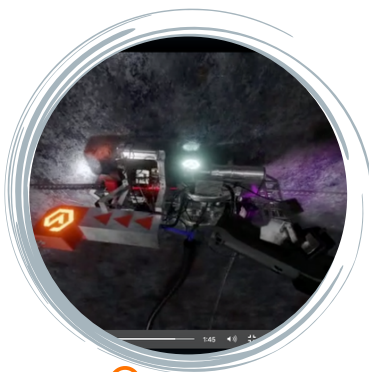
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**Fail Safe Fall System.** The *Halo* used to sustain the full weight of the umbilical; acts as a restraint system for the crawler in the unlikely event of a power failure;

1. allows for personnel access to the top of the sphere for branch inspection and allows SPHERA to move unhindered around the weld

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**Patented laser** can be fitted to clear any flash rust or light debris away from the magnetic wheels.



[SPHERA DATA SHEET](#)

[SPHERA PRESENTATION](#)



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