



# 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.

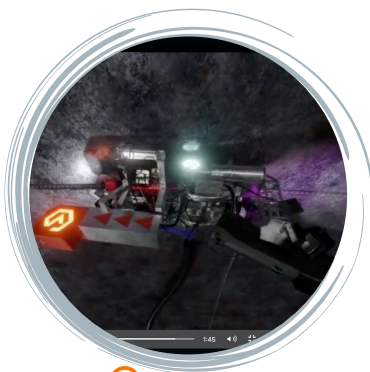
**3** *FIVE different NDT Inspection techniques* deployed simultaneously;

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;

**4** *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

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



[SPHERA DATA SHEET](#)  
[SPHERA PRESENTATION](#)



[SPHERA DATA SHEET](#)  
[SPHERA PRESENTATION](#)