

CALSIS

TVC

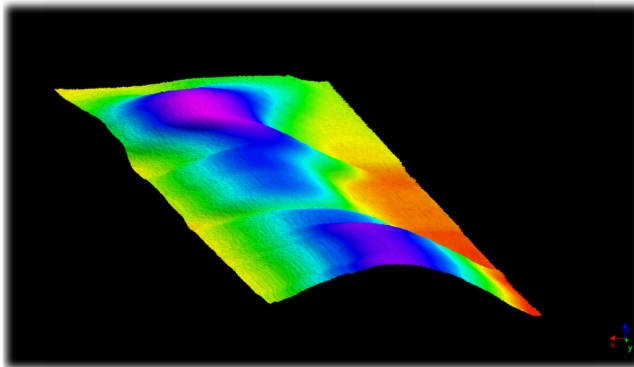
Bespoke Laser, Video and ECT inspection systems

Since 2009, TVC has been developing and manufacturing bespoke Laser, Video and ECT inspection Systems to client requirements. So far, equipment has been tailored to provide inspection in key areas in pipe welding for the Pipe Manufacturing and Pipeline Welding industries. The systems can be comprised of Video, Eddy Current and Laser components to inspect pipe internals.



Systems can include:

- Remote visual inspection using full HD cameras
- Deployment vehicles for both straight pipe and bends
- Full HD wireless video
- ECT inspection of weld clad overlay, e.g. austenitic nickle-chromium-based superalloy cladding on ferrous material
- Inspection systems for pipe internal visual and laser inspection of root weld
- Remote wireless system
- Automated laser control for 360° inspection of root
- Automatic defect recognition
- Laser system to measure bevel profile and ovality
- Analysis software
- Laser scanning and measurement of external girth welds
- Laser measurement of cap profile



Further details of the CALSIS components can be found overleaf, but please contact us to discuss your specific system requirements.



VIDEO SYSTEMS

- Remote visual inspection using full HD cameras
- Wide angle lenses available
- 10 x Optical Zoom as standard
- HD Video capture with text overlay
- Remote pan and tilt
- Can be combined with Laser and ECT equipment
- Deployment vehicles for both straight pipe and bends
- Full HD wireless video with ranges up to 1Km

ECT INSPECTION OF WELD CLAD OVERLAY

- Accurate ECT Measurement of austenitic nickel-chromium-based superalloy cladding on ferrous material to 0.1mm
- Fast scanning of large areas and/or lengths
- Can be used with Video and Laser equipment

INSPECTION SYSTEMS FOR PIPE INTERNAL LASER

Inspection of Root Weld

- Remote wireless system
- Automated laser control for 360° inspection of root
- Automatic defect recognition
- Manual analysis
- Profile display

Pipe End Area Inspection

- Laser system to measure bevel profile
- Laser system to measure ovality
- Analysis software

Laser Scanning of External Girth Welds

- Laser measurement of external girth welds
- Laser measurement of cap profile
- Laser measurement of high/low
- Laser measurement of fit up

The Validation Centre (TVC) Limited reserves the right to alter or change product specifications without prior notice. Images are representative of full optional additions installed; delivered equipment and software may vary depending on options purchased.



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