

JD7 PipeScan+™



Benefits

- Live insertion to water and waste water pipelines
- Live insertion into petrochemical pipelines
- Fire hydrant access
- NDT wall thickness
- CCTV Imaging
- Fully automatic
- Location mapping

Description

The JD7 PipeScan+ is an internal ultrasonic manipulator incorporating focussed ultrasonic probes coupled with a hi resolution camera system and 512Hz sonde. The PipeScan+ allows pipework of all materials to be scanned whilst remaining in service, allowing a full dimensional survey to be achieved including multiple wall thickness measurement, corrosion and flaw identification along with lining thickness. Using this system allows accurate remaining life expectancy of the pipework to be calculated where thousands of measurements can be acquired in minutes. The PipeScan+ is configured onto a 100m semi-flexible umbilical, therefore offering 100m maximum capability. This allows pipework to be scanned along the full length giving reliable data on true asset condition.

The PipeScan+ will not be matched with regards to the quality and detail of data captured from the technology and unlike magnetic flux leakage tools the PipeScan+ not only gives average wall thickness readings, but also fully detailed structural assessments.

Access into live pressurized pipework is possible and auto controlled using a portable electronic drive system which controls the feeding and pullback of the scanner in a controlled manor. The system is compatible with JD7LiveFeed software for maximum performance.



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Winner of the Pipeline Industry
Guild's - Utility Pipeline
Technology Award

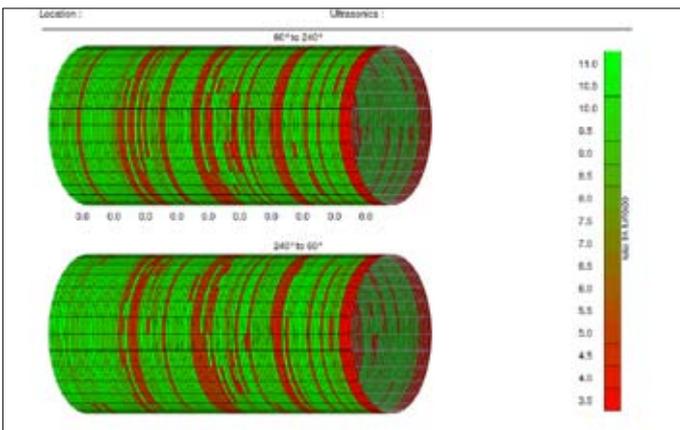
Specifications

- 42.6mm diameter multi sensor scanning head with ultrasonic transducer, HD CCTV and 512Hz Sonde
- Stainless steel with quick release connectors (pressurized capability to 16bar)
- Sensor head wide angle optic, fix focus (PAL system) with Illumination 3 Lux at F1.2
- Sensor head high powered 512Hz sonde
- Sensor head 1-7Mhz ultrasonic transducer with 2mm near surface resolution
- 360 degree scanning range with 720 measurement per rotation
- Accuracy >0.05mm (material velocity known)
- Ultrasonic beam focus: Crystal
- Pipework sizes: 4in. upwards (*recommended range is 4in. dia to 12in. dia)
- 12-24vdc electronic drive system with seal arrangement
- 110/240v powered
- 100m cable with nylon protective sheath
- Cable drum assembly approx. 800x750x350mm with slip ring and encoder (1% accuracy)
- Control box with Panasonic Toughbook
- Operating Temperature: -5 to +40°C
- JD7PipeScan software with ultrasonic, video, and acoustic analysis software
- Operational materials: Cast Iron, Ductile Iron, Asbestos Cement, Steel, Lined Pipes (including CL, PU), HDPE, MDPE, All Plastics, Clay



***JD7 cannot guarantee access through fire hydrants due to variations in design and conditions.**

***Use above recommended pipe sizes will still allow the system to perform, however reduced data will be noticed beyond the invert of the pipeline.**



Contact

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