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Pipe Profiler System "ScanCam 150"

Mainline Pipe Inspection and Profiling All-in-ONE

Description: Design platform for this system was the RAUSCH KS150 camera system. The ScanCam rotates infinitely, due to its connection to a hub - equipped with needle bearings and integrated slip rings. Two laser diodes located in the camera head are used to detect the pipe contour.
Reliable and stable transportation through the pipe is guaranteed by our two steerable crawlers, the L500 with its electric lifting arm, or the L150 with its manual height adjustment.
The ScanCam is designed to perform conventional mainline inspection on its way out, and for pipe profiling on its way back. *No dead runs!*
Instant 3-D graphic reports available through the software package – No Third Party Involved for data evaluation!

All digital RAUSCH systems can be retrofitted with this system.

Function: When switching into Scan-mode, the camera head turns 90° towards the pipe wall, starts rotating and the crawler moves back on the selected speed. Two laser diodes (Safety Class II, less than 1 mW) located in the center axis of the camera objective detect pipe diameter, pipe deformation, obstruction, etc. Triangular calculation is the mathematical method used for distance measuring.

Maximum obtainable accuracy is ≤ 1% of pipe diameter.

Application range: Spot profiling at 6 inch pipe diameter with L150 crawler
Pipe profiling from 8 to 48 inches pipe diameter using L500 crawler

Accuracy: ≤ 1% of pipe diameter for pipes 10 inches and up; 2% for dia < 10 inch

Camera Specs: Infinite rotation @ 5 – 75 rpm, 340° tilt, color picture, 2x42 white LED's, digital camera with 10-fold optical zoom, auto focus, manual focus, auto diaphragm, pressure charged with leakage sensor.

Sample rate: from 20 dots up to 300 dots per camera rotation

Overall length: approx. 35 inches, including Crawler L500