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NEWS RELEASE

REMOTE ROBOTIC CRACK DETECTION SYSTEM LAUNCHES IN MINNESOTA!

ROSEMOUNT, MINNESOTA (September 25, 2009) - CIA Inspection, the global leader in coke drum inspection, is proud to announce the successful field trial of its robotic crack detection system. The result of five years of research and development, the system was successfully deployed in a coke drum at the Flint Hills Pine Bend Refinery.

The concept builds on the knowledge gained over 18 years of coke drum inspection experience with our laser scanner and video capture system.

The robotic crawler is launched from an articulated, telescoping boom mechanism that hangs below the existing laser scanner and video capture system. Using remote camera views, the crawler is robotically positioned and magnetically coupled to the drum wall. Once deployed, the crawler moves horizontally along the designated circumferential weld inspecting the complete cross-section including the inconel weld cap and the HAZ on both sides of the weld. The purpose built sensor, specially adapted for coke drum metallurgy, uses the well known inspection technique, **ACFM (Alternating Current Field Measurement)** to detect and size surface breaking flaws in the circumferential welds of operating coke drums.

As is the case with our existing equipment, the robotic crack detection system is designed to meet or exceed the requirements for operating on line, so the **inspection can be conducted in a live vessel without the need to blind or scaffold.**

We are currently in the process of hardening the prototype system and expect to have it **ready for commercial service in the first quarter of 2010.**

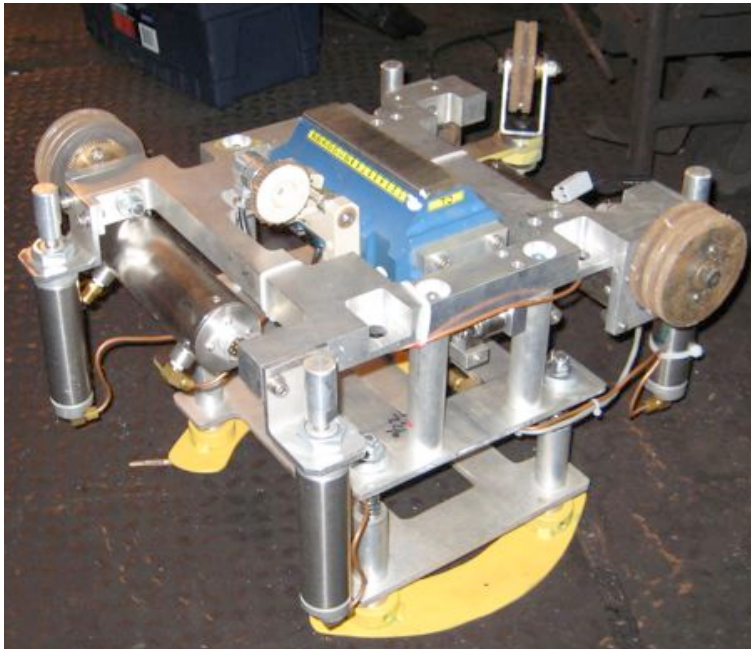
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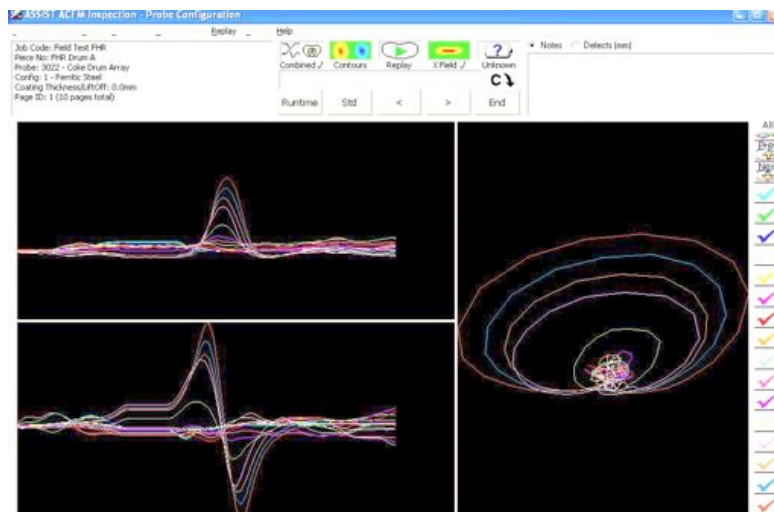
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Crawler in action in the drum. Attached to drill stem, and scanning a circ weld.



The ACFM Crawler Unit.



Typical data output from the ACFM Unit's sixteen sensors.

