



REMOTE, ROBOTIC INTERNAL CRACK DETECTION SERVICE

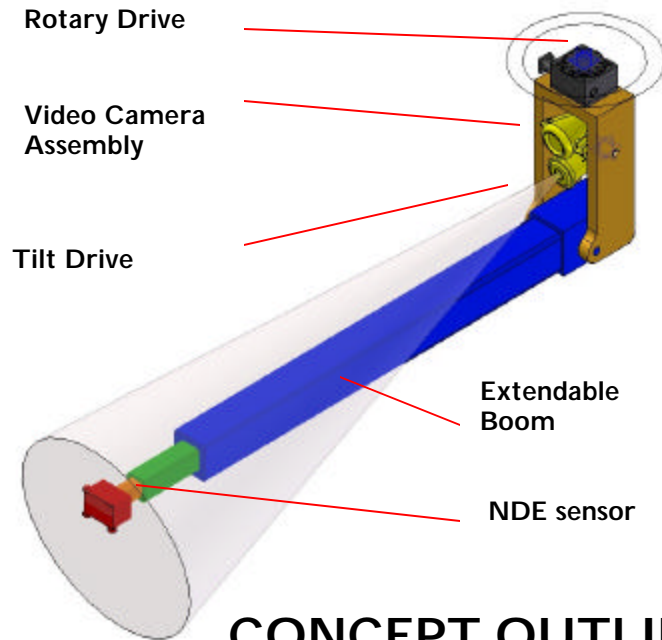
***BUILDING ON OUR EXTENSIVE EXPERIENCE IN REMOTE INSPECTION
CIA DEVELOPS A NEW INNOVATION IN THE FIELD OF NDE !!!!!***

CIA Inspection will soon be launching a new service aimed at performing remote internal crack detection for coke drums and other refinery applications.

Based on selective and comparative testing, CIA has selected an NDE technique well suited for remote deployment and capable of handling the variable surface conditions of the inside of a coke drum.

The sensor package is designed to be inserted from the top head using the drill stem, in a manner similar to our existing service.

The service can be performed between cycles, on-line without the need to blind the vessel.



CONCEPT OUTLINE

ELEMENTS OF THE SYSTEM

- Red assembly is sensor head
- Orange assembly is compliance mechanism
- Blue assembly is pivot arm for gross positioning of sensor head relative to wall.
- Brass Assembly is Yoke which attaches to rotary drive and supports the pivot arm
- Black assembly is rotary drive to move sensor head in azimuth around drum
- Yellow assembly is Camera-Light to view the sensor head and weld

PATENT PENDING

**FOR MORE INFORMATION ABOUT CIA'S SERVICE AND OUR NEW INSPECTION UNIT,
PLEASE CONTACT RICK CLARK @ 905-692-3678 OR JACQUELINE CAMERON @ 905-578-3287**

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