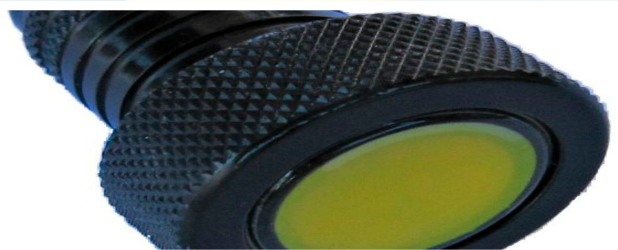
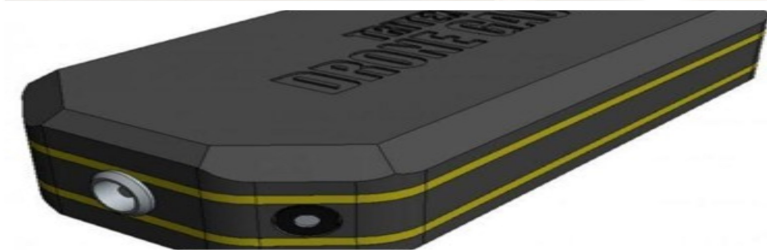


Aerial Drone Ultrasonic Inspection



EEPCON deputed highly skilled and certified drone inspectors. Unmanned aerial systems provide NDT experts across industries with a unique aerial perspective. Drones give NDT experts a fast, accurate way to perform inspections while reduce operational costs and minimizing safety risks. Ultrasonic thickness gauge on a drone designed for both visual and wall thickness inspection. Instead of having workers potentially compromise their safety on ropes, boom lifts, and scaffolding for industrial inspections.

Methodology

- The standard ultrasonic thickness gauge uses sound waves to measure wall thickness.
- The probe can be mounted on the drone at different angles to contact surfaces above or below a structure.
- The general workflow of the drone is divided into three main categories: site acquisition, flight path planning, and post-analysis.
- The UTG takes consistent metal wall thickness readings over time, to find if the metal wall of a pipe, pressure vessel, or storage tank is getting thinner. If the wall gets too thin, that's an indication that maintenance needs to be performed.
- The drone uses a force-sensing probe to apply the exact amount of force needed to take thickness readings and maintain surface contact for the duration of the scan.
- The design of the UTG permits precise flight, force contact, wind resistance, and angled inspections and these drones can tilt their rotors to fly closer to structures to conduct inspections with greater stability.

Benefits

Wide scope and capabilities, reduce inspection time and cost, improving safety and minimizing accidents, accurate and reliable inspection data.

Conclusion

Drone inspections can deliver test data on various oil and gas industry properties to identify defects and, in turn, reduce the rate of failures and unplanned shutdowns. NDT inspectors can evaluate structures and gather comprehensive data that would have taken several days using traditional access methods.

Contact us

Tel: 03334174410, Email: info@eepton.com, Web: www.eepton.com

Address:- Head Office: 809-B, Khalil Center, Ravi Block, Iqbal Town, Lahore,

Karachi Office: 209/5, Queens Center, MT-Khan Road, Karachi