

# REMOTE INSPECTION BY USING DRONE TECHNOLOGY



**TOMTEC NDT MARINE SERVICES PTE LTD**

## INTRODUCTION

**Drone Inspection** is helping the industries to improve efficiency and quality of data acquisition while increasing safety and speed of delivery. The advancement in sensors, radio-controlled devices and the miniaturization of computer processors has driven the use of drones in several industry sectors.

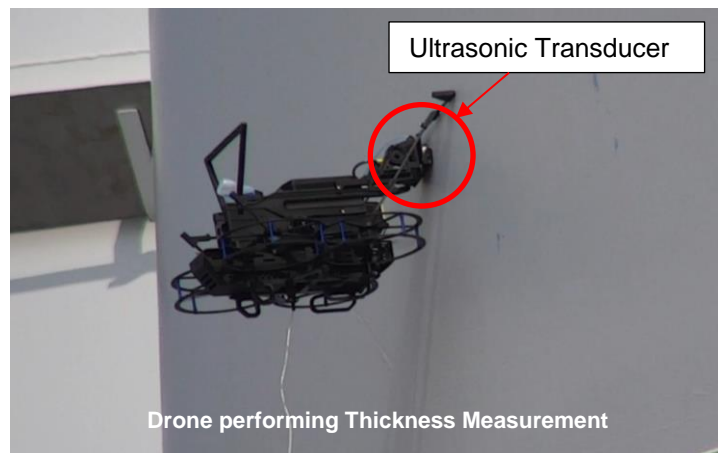
Traditional inspection methods such as erecting scaffolding, rafting or rope access are time consuming, labour intensive, expensive and high risk. With the implementation of drones, high risk activities will be minimised, time and labour needed for preparation and inspection will be greatly reduced, which translates to cost savings.



## KEY BENEFITS

- ✓ Safe  
Reduce high risk activities by minimizing human access to dangerous locations.
- ✓ Rapid Deployment  
Shorter preparation time and able to conduct inspection at a much faster pace.

- ✓ Lesser manpower demand  
Manpower involves are much lesser than tradition methods.
- ✓ Cost effective  
Reduce needs for extensive scaffolding, cranes, rafting or rope access.



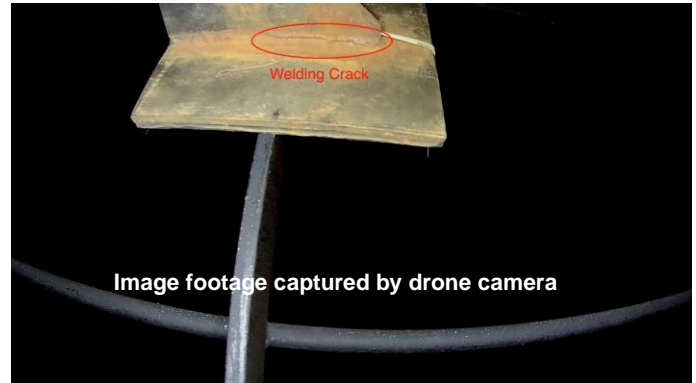
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## APPLICATIONS

- ✓ External inspection of vessel hull, structure, coating, chimneys and masts.
- ✓ Visual inspection of areas under deck areas, side shell and hard-to-access areas.
- ✓ Ultrasonic Thickness Measurement of hull structures, cargo tanks, and ballast tanks by using customized drones.



## WHY US?

- ✓ Our operators are granted with Unmanned Aircraft Operator Permit from Civil Aviation Authority of Singapore (CAAS) to operate Drones as part of our inspection services.
- ✓ Our certified operators have proven technical knowledge and experience of Non-Destructive Testing and Ultrasonic Thickness Measurement, well versed in hull structures and crack detection.

- ✓ Our company has more than 20 years of experience in marine and offshore industry.
- ✓ We are approved service provider for Seven (7) major Classification Societies such as ABS, BV, DNV-GL, KR, LR, NK, and RINA.
- ✓ We are also approved service provider for Remote Inspection Technique certified by Lloyd's Register.

