The T-Type Acoustic Inspection System measures the volume and topology of sludge sediments in the bottom of crude oil storage tanks.

Manual methods of estimating sludge volumes rely on dipstick measurements taken from a few discrete points. The resulting sludge volume is extrapolated and therefore inaccurate since the true distribution is unknown. The T-Type solves this problem by accurately calculating the sludge volume during tank operations.

The T-Type acoustic inspection system uses solid state acoustic technology to generate a scan of beams that measures the sludge distribution over thousands of points.

On smaller tanks (<40m diameter) the entire tank bottom can be scanned from a single position.

On larger tanks (40m < 120m diameter) the scans from several entries are merged to give a composite image of the distribution and a sludge volume for the entire tank.

FEATURES
- Accurate measurement of sludge topology
- 3D image of sludge distribution
- Accurate calculation of sludge volume
- Monitor effectiveness of tank mixers
- Monitor sludge levels before roof landing
- Sludge management for efficient tank operations
- ATEX certified Zone 1
# T-TYPE
## ACOUSTIC TANK INSPECTION SYSTEM

### TECHNICAL SPECIFICATIONS

#### Operator Control Station
- **Data Acquisition:** Ruggedised PC
- **Power Protection:** UPS
- **Input Voltage:** 110-240Vac
- **Input Power:** 240VA
- **Case:** Ruggedised shock mount

#### Storage Reel
- **Cable Type:** Armoured Zone 1 approved
- **Cable Length:** 150 metres
- **Drive:** Hand operated

#### Inspection Tool
- **Hazardous Area:** ATEX Zone 1
- **Operating Temperature:** -5°C to +65°C
- **Protection:** IP68
- **Compatibility:** Liquid hydrocarbons

#### Tank Types
- **Roof:** Floating, fixed
- **Floor:** Cone up, cone down, sloping
- **Size:** Up to 110m diameter

#### Software
- **Operating System:** Windows XP®
- **Data input:** Form based
- **Images:** 2D profiles, 3D distribution
- **Data Output:** Total sludge volume
- **Report:** Automated in Word® format

---

Oceanscan Limited reserve the right to alter or amend any published specification without notice.