

# Datasheet

## Through Tube Deployment Pole



**The Type 8169 is a modular, transportable, through tube deployment pole for Sonardyne Ultra-Short BaseLine (USBL) high performance systems. The pole is designed for vessels where through-hull deployment, via gate valves, or over the side deployment options are not available or practical.**

The pole design is scalable to fit through an existing tube or for a new tube installation. The minimum tube inner diameter is 240 mm. The wall thickness and fabrication of the tube will also determine its suitability.

Manufactured from high grade steel, the highly rigid pole includes vortex shedding strakes to reduce drag and vibration that can reduce overall performance.

Once deployed, the pole is held rigidly in place using a locating and orientation flange at the top of the tube and hydraulically operated clamp mechanisms near the bottom. When the clamps are engaged they increase the stiffness of the pole and ensure a high degree of repeatability when lowered.

Longevity and robustness are enhanced by fabrication from hot dipped galvanised steel which is then over coated with a two part marine epoxy.

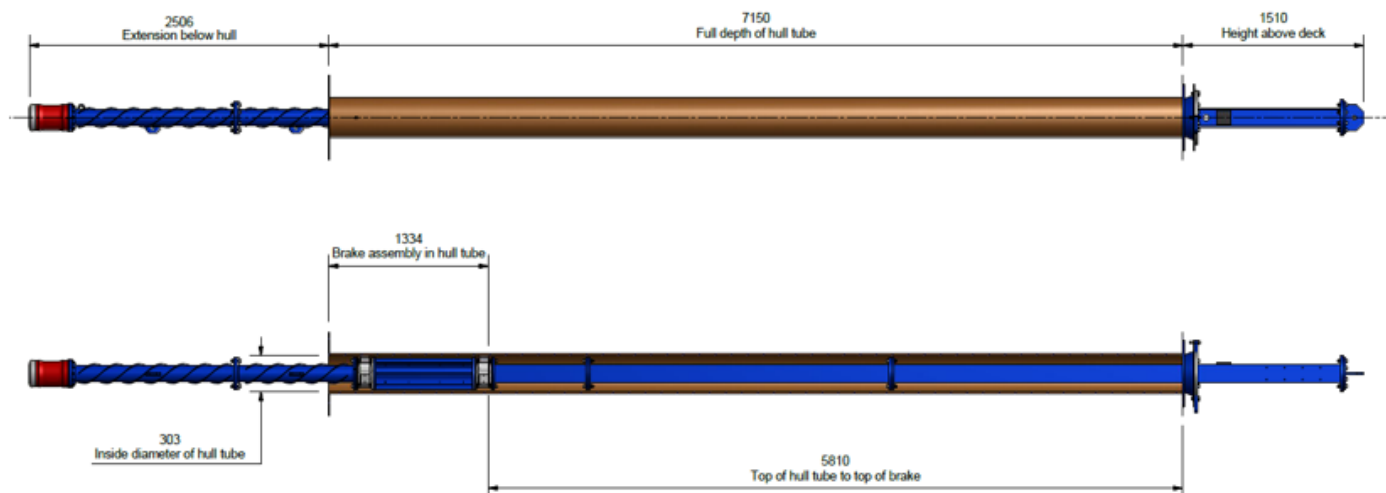
When a tube is to be retro-fitted to the vessel, Sonardyne can give detailed application advice on positioning the tube with regard to the optimum acoustic performance of the USBL transceiver. It is recommended that the installation is approved by the vessel architect or classification authority.

### Key Features

- High performance, high integrity, survey grade deployment system for USBL transceiver deployment from vessels
- Reduces potential operating costs by eliminating the use of gate valve
- Designed for easy installation, disassembly and transportation
- Positively clamps into place to ensure repeatability
- Drag and vortex reducing strakes
- Sectional and scalable to allow configuration for each vessel
- Good corrosion resistance
- Set deployed and recovered positions with remote status option
- Self contained hydraulic clamping system
- Low cost option for USBL transceiver deployment

# Specifications

## Through Tube Deployment Pole



Dimensions will vary depending on vessel. The above is suitable for a vessel with a 7.5 metre tube.

Feature	Type 8169
Maximum Operational Speed	5 knots
Short Term Survival Speed	10 knots
Nominal Deployed Length	2.5 m (hull to transceiver face)
Pole Design	Sectional and scalable with vortex suppression strakes
Mounting	Through vessel mounted tube
Deployment/Recovery Method	Ships crane
Hydraulic Clamp	Dual clamps for rigid deployment
Pole Weight	Dependent on overall length
Transceiver Mount	Supplied with adapter for Sonardyne USBL transceivers