



Load and Force Measurement

The need to accurately measure load, strain and force, or a combination of these, is an essential requirement for a significant number of industrial, environmental and social applications. Whether it is weighing ingredients in a food blending process, measuring fuel weight during the filling of an orbital satellite measuring strain in a marine riser, Water Weights provides a reliable and cost effective solution.

Application Explained

The applications are numerous and incorporate standard and bespoke designs, which interface exactly with the client's equipment or process. Applications include:

- Contents weighing of vessels, tanks, bins, silos, reactors and presses
- Tension measurement in tethers, anchor and mooring lines, risers and umbilicals
- Mass measurement of slabs, billets torpedo cars, ladles and tundishes
- Strain measurement in structures, solid risers, strip and wire, and textiles

Benefits to Client

- Equipment and systems supplied are designed specifically for the application— the client is therefore afforded with minimum risk and maximum benefit
- Equipment is selected from either a comprehensive range of standard products or designed specifically to suit the client's needs
- During selection and design of the equipment, engineers will consider all defined interfaces between the device being measured and external forces
- All equipment and services supplied are covered by a defect warranty

Technical Specifications

- Standard load cells (capacities from 1000N to 25MN)
- Subsea load cells
- Digital load cells
- Load cell mounting units
- High capacity and special weighbridges
- Weighing platforms
- Line tension meters
- Zoned line tension meters (for use in hazardous area application)
- Telemetry links and shackles
- Load pins
- Instrumentation
- Hazardous area implementation
- Strain gauging