



Geotechnical Equipment: geoREACT



geoREACT is a unique ROV tool skid which increases on-bottom reaction force, enabling greater penetration to be attained during geoROV™ seabed penetrometer operations (such as CPT or push sampling). It also provides a temporary yet highly stable platform for other seabed survey and intervention tasks.

The tool skid works by creating a negative pressure in two symmetrically spaced suction anchor cans which causes the cans to penetrate rapidly into the seabed. The fully penetrated cans have been designed to create minimal seabed disturbance yet dramatically increase the reaction force available during geoROV™ CPT penetrometer operations, and other precision activities where temporary stability is needed. This allows for deeper penetration in stronger soils for example.

geoREACT mounts quickly and simply onto a conventional work class ROV using mounting pins. In addition an anchor zip pump such as the Tritech AZ10 or equivalent is required for activation, together with matching hoses.

A 500mm high deck stand is also provided to land the ROV fitted with geoREACT on deck.

Technical Specifications

The geoREACT comprises:

- Suction anchor skid boom
- 2 suction anchor cans
- geoROV™ mounting frame and mast
- Suction pump and hoses (Client supply or provided upon request)
- Deck stand

Typical applications:

- Temporary stable seabed platform
- Pipeline, cable route, and site surveys
- Precision positioning for survey in and around subsea infrastructure
- Seabed intervention tasks where temporary anchored platform is needed

Specifications:

Dimensions: 3.25m x 0.67m x 0.75m (LWH)

Overall height: 2.4m with geoROV™ mast

Weight: 120Kg/180kg with geoROV™

Depth rating: up to 3000m (ROV dependent)

Suction can height options: 300mm,150mm,75mm