



J-Tube support



Diver installed formwork



Cross-over formwork

GOOD TO KNOW

Record holder

FoundOcean holds the record for the deepest deployed formworks at -1,244m off the Ivory Coast, Africa

Fabric formworks are used to support, protect or stabilise subsea pipelines and structures. Fabric formwork is a flexible shuttering constructed from woven fabric which is subsequently filled with cement grout. The final shape of the hardened grout is defined by the shape and design of the fabric formwork. Fabric formworks may also be used to raise a pipeline or structure by jacking to a desired elevation.

With more than 30 years experience in grouting services, FoundOcean has the capability to provide a single-source for design, manufacture and installation of all types of fabric formwork.

FoundOcean has undertaken extensive testing on pipelines of various diameters and thicknesses of weightcoat, which has led to the development of a wide range of fully engineered fabric formworks.

These are cost effective to manufacture, simple to deploy by ROV or diver and can be filled rapidly with cement grout. The following basic types of fabric formwork are available:

- **Support** formworks for pipelines, j-tubes and risers
- **Crossover support** formworks for pipeline or cable crossings
- **Overlay mattresses** and sleeves for pipeline protection or stabilisation
- **Peripheral** formworks for protection of subsea structures
- **Jacking** formworks to elevate and support pipelines and structures
- **Anti-scour** protection formworks

Our techniques for the deployment of fabric formworks by ROV have been successfully used at depths of 1,244m.

In addition, FoundOcean provides specialist grout mixing and pumping equipment together with experienced personnel for the successful installation of the formworks.

Because FoundOcean is involved in the offshore work, all formwork designs take account of the practical aspects of installation. Detailed work procedures are provided to ensure that the solutions are correctly applied by the diving or ROV contractor. This attention to detail reduces subsea installation time and the offshore cost of the project.