



# 15 tonne subsea fabrication project

Whilst the global demand for hydrocarbon extraction enters into deeper and more demanding subsea environments, the support and flexibility from the subsea engineering supply-chain is vital.

Renown Group operates to fully support major clients in subsea engineering operations, and this case study highlights one example of a project to manufacture anchor bases.

The project involved complex fabrication of several anchor bases, weighing 15 tonnes each, both square and circular, for use in the Forties Oilfield - the largest field in the North Sea.

Anchor bases are sunk to the seabed and act as anchors for ancillaries to attach to and be held in place against strong tides. This is done to ensure subsea oil and gas operations can be undertaken with minimal disruption.

The bases have to be manufactured to very high specifications due to the harsh environments they are subject to, thus involving complex and heavy fabrication.

Add to this a requirement for anti-corrosive coating and Lloyds approved hydraulic testing, and the project becomes a complicated operation requiring close management and high quality engineering with no real margin for error.



**Top:** *The squared anchor base*

**Below:** *The circular anchor base*