

CASE STUDY



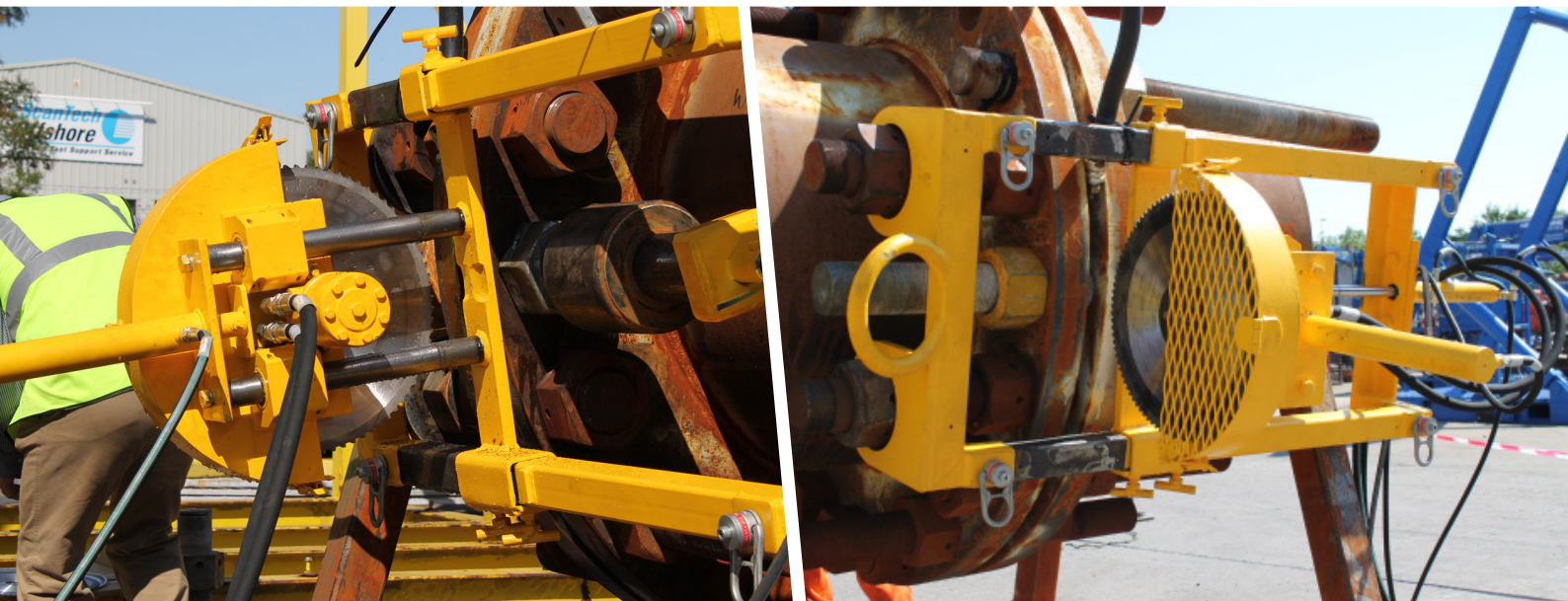
Subsea 7

Apache SSIV Tie-In Project - Bespoke Flange Stud Cutting

Forties Pipeline UKCS

Rockwater 1 & Seven Pelican

IRM/Intervention



Scope of Works

Fisher Offshore were asked by Subsea 7 to design and provide a means to cut the flange studs on a subsea pipeline should conventional methods fail. The flanges (three off to separate on the seabed) were constructed circa 1980 so were deemed potentially difficult to remove.

Subsea 7 tasked us with engineering a solution to enable both speedy and safe works execution. The requirement was to cut up to twenty 3.5" Ø studs on each 36" 900lb flange.

Scope of Supply

Fisher Offshore were tasked with supplying the following to form part of a contingency cutting spread:

- Four circular saws with bespoke fabricated frames.
- Equipment to be automatic as much as possible to ensure diver safety.
- Extensive testing in-house of equipment using Fisher Offshore technicians.
- Hyperbaric centre used to provide realistic creation of subsea environment with divers carrying out work.
- Final design and saw blade combination gives a cutting time of around three minutes with five minutes preparation time to fit saw jig to flange assembly.

