

IHC Engineering Business Canyon Offshore i-Trencher



Description

EB designed and built the i-Trencher system, including the 1.25 Mega Watt trenching vehicle, its launch and recovery system and a heave compensation system. The system is used for high performance trenching in hard soil and deep waters and can be configured in a number of different operating modes to allow a variety of trenching and backfilling operations to be completed.

The i-Trencher is designed to reliably outperform existing trenching systems and can excavate a 2m deep trench. It has been used to successfully trench a wide range of products including pipelines, umbilicals and subsea power cables.

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Overview

i-Trencher with Handling System
 Client: Canyon Offshore
 Project Duration: 2007-2008

Features

- Operates in water depths of up to 1,500m
- Trench depths up to 2m
- 1.25MW installed power
- Configured for number of different operating modes

Benefits

- Diverless deep water operation
- Trenching of a range of products in hard soil conditions
- Can complete a variety of trenching and backfilling operations
- Tailor-made solution to customer requirements



Tracked Vehicle

A robust vehicle designed for reliable operations in extreme environmental conditions



Launch & Recovery System (LARS)

The trencher's LARS is a 95t SWL A-Frame including a snubber unit and heave compensation system.



Sand Shares

EB supplied a set of sand shares for the vehicle in 2011. These reduce the amount of soil that will collapse back into the trench whilst trenching in softer seabed conditions.



Control System

EB provided a hi-tech control system for the operation of the trencher and its associated launch and recovery system. The control system features a 6-screen video wall to display HMI, Sonar, Pipe Tracker and Video feeds.