

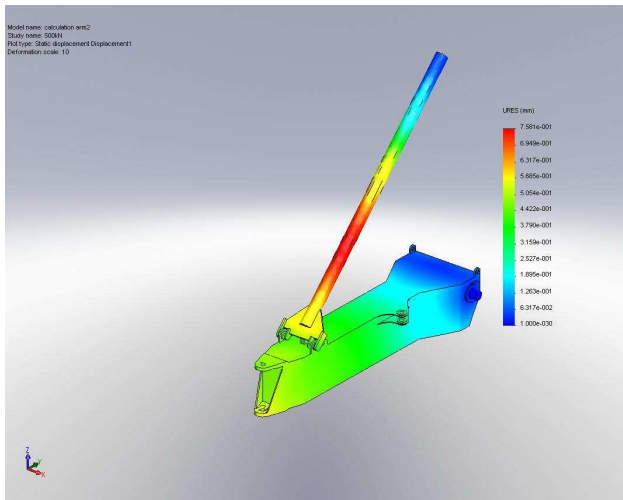
Engineering of Upper Side Step Arm

Application

The Upper Side Step Arm is an aid in the pipelaying process of a deepwater vessel in swell area. The environmental characteristics of this area have required modifications to the vessel. The arm, designed by Innovative Input b.v. will guide special pipe-parts vertically.

System Components

The arm exists of a hand, coated by a polymeric material. The hand can be changed in orientation by a hydraulic cylinder. A diagonal pipe will hold the arm in position. The pipe will also be used to store the arm, when this is not necessary. The complete are is accessible for craftsmen.



Features / Innovations

The material for guiding the pipes is designed that it will have less friction.

When the arm is not necessary in the pipelaying process the arm can be lifted and stored in a higher position. The orientation of the hand can be changed. By this possibility all the situations and forces can be handled

Besides the complete design of this custom made machine, FEM-calculations have been carried out.

Technical specifications

Safe Working Load: 30 t.

Base material: S355

Total weight: 30,000kg

Dimensions

Length: 10m

Width: 5.3m

Height: 10m