

# CASING LANDING ASSEMBLY (CLA)



## General Information

The field proven Casing Landing Assembly (CLA) tool is used in the final part of casing string installations from semi-submersibles. The CLA minimizes the time the casing string is stationary in the open hole area, to prevent stuck casing and safely landing of the casing hanger into the subsea wellhead.

The CLA Tool has a working stroke which allows the casing hanger to be landed in the well head while the top is still attached to the rig elevators. Any heave that is present will be accommodated by the stroke allowing the top to be set in slips while rigging up the cement head and connecting hoses at normal working height. The tool is then fully extended to enable circulation through the string and to proceed with normal cementing operation.

The CLA has proven to save 2-3 rig hours during a standard casing/cementing operation, to reduce the time the casing string is stationary, and to improve the working environment for the rig crew.

## Technical Specifications

### HSE/ Operational/ Cost Benefit

- Easy handling and make-up of cement head
- No work in riding-belt required to connect hoses
- Equipment stationary while connecting hoses
- No pre-making & rack-back of cementing stand needed
- No break-out of cement stand after casing installation
- Minimizes time without circulation when landing casing
- Minimizes time with casing stationary, ie reduced risk for stuck casing

### Technical

- Maximum Operating Pressure 10,000 psi (690 Bar)
- Operating Temperature -18°C to 130°C
- Maximum Torque 40,000 ft.lbs (54 kNm)
- Maximum Tensile Load 1,400,000 lbs (635 Tonnes)
- Maximum Outside Diameter 13 inches (330mm)
- Internal Diameter 2.992 inches (76.0mm) - Drift 2.750 inches (69.9mm)
- Transport Length 46.6 feet (14.2 m) - Stroke 37.4 feet (11.4 m)
- Weight 6,761 lbs (2,067 Kg)
- Material AISI 4145 (30-36Rc) 110,000 psi