

Stavanger Engineering is a leading solution provider for purpose-built mechanical equipment and steel structures for the oil and gas industry. Mechanical engineering - Structural engineering - Advanced technical analysis - Drilling and well intervention solutions.

With over 140 employees, Scantech serves the upstream oil and gas industry throughout the exploration and production lifecycle - from the design & engineering of specialist equipment, to platform maintenance & modification, well testing support and subsea operations.

# Safe Coiled Tubing Tension Frame

For workover riser, well intervention and well testing on offshore vessels it is required to sustain the riser in tension and have a work window to rig up wireline (WL) and coiled tubing (CT) equipment.

Stavanger Engineering (SE) Safe Tension Frame (SCTF) is designed for operational efficiency and safety, fully integrating both WL and CT operations.

The ISO 13628-7 recommends a weak link to have a controlled disconnection between the compensator and the riser system, preventing catastrophic failure.

SCTF combines the field-proven Scan-Tech Weak Link Bail technology with conventional tension frame design.

The SE tension frame has been developed in close cooperation with offshore specialists with extensive hands-on experience to ensure maximum practicality and simplicity.



SCTF - Transport modules



SCTF - Safe Coiled Tubing  
Tension Frame

## Key benefits

- Controlled disconnection by field proven weak links system. Typical free stroke of 6m after shearing;
- Lightweight , modular and flexible design;
- Eliminates work under suspended load;
- Injector head platform features:
  - Lifting and positioning of IH;
  - All functions remote controlled;
  - Injector tilting for easy CT stabbing;
  - Skidding in/out of well centre;
  - Side adjustment;
  - Redundant safety device on the injector head (IH) table lifting mechanism;
- Bottom beam with front gate and tilting function to pick up the flow tree in rig up;
- 20mT main winch for lifting IH table;
- 5mT utility winch for lifting BHA;
- 3mT stabbing winch to pull coil through IH;



Transport Mode



Max. Extended Mode

### Technical Data, Safe Coiled Tubing Tension Frame [SCTTF]

Tension Capacity	350sT (Typical)
Options	- Offshore transport basket - Hydraulic Power Unit (HPU) - Handling arm for WL rig-up
Weight	24.500 kg (Maximum module weight 5.500 kg)
Interface	Top: Bail Connection Bottom: Surface Flow Tree – BOP x-over, WL adapter.
Dimensions -HxW(typical)	20000mm x 2500mm (max. extended), 17000mm x 2500mm (operation), 13000mm x 2500mm (transport)
ATEX classification	Zone 1
Applicable standards	- API 8C Specification for Drilling and Production Hoisting Equipment, or ISO 13628-7 Completion / Workover riser systems - ISO14693 Petroleum and natural gas industries - Drilling and well-servicing equipment - DNV 2.22 Lifting Appliances - DNV 2.7-3 Offshore Units - NORSOK D-002 System requirements well intervention equipment