

## VDS Frame

The Well Ops SEA Vessel Deployment System (VDS) allows a typical Offshore Supply Vessel to deploy subsea equipment and perform subsea intervention and / or abandonment operations.

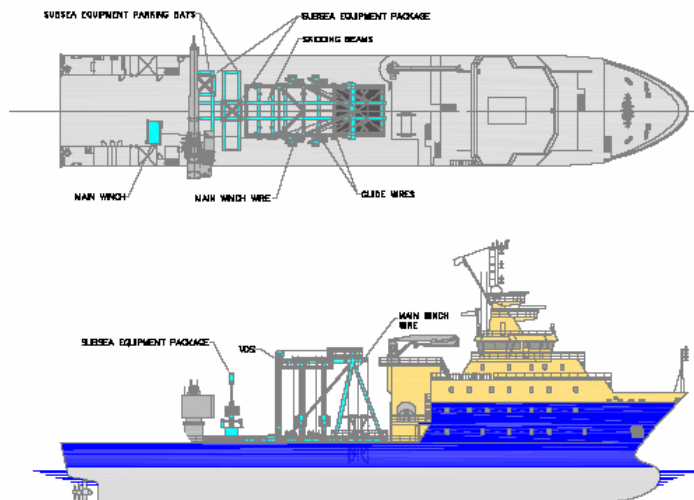
The VDS frame creates an over the stern 'moon pool' work area with an integral lifting frame and skidding system, or alternatively it can be utilised on a vessel with an existing moon pool. The lifting frame provides heavy lift capability and a facility for deployment of pod and guidelines to be connected to subsea hardware for intervention work. The skidding system allows equipment packages to be moved safely on the deck to and from the moon pool. This allows deployment and recovery operations to be undertaken without use of a deck crane.

The VDS allows the deployment and recovery of subsea equipment, guide lines, and pod lines. The VDS has several features which allow more advanced operations than a conventional A-Frame. These include providing a moon pool area, a heave compensation system for guide and pod lines, lifted load containment by use of cursor frames and on deck equipment transportation by use of a skidding system.

VDS is designed to seamlessly integrate with Well Ops SEA's other proprietary systems; AXE, SID and CIT.

### Applications

Allowing intervention and abandonment work to be undertaken using a typical work boat.



VDS – Vessel Deployment System

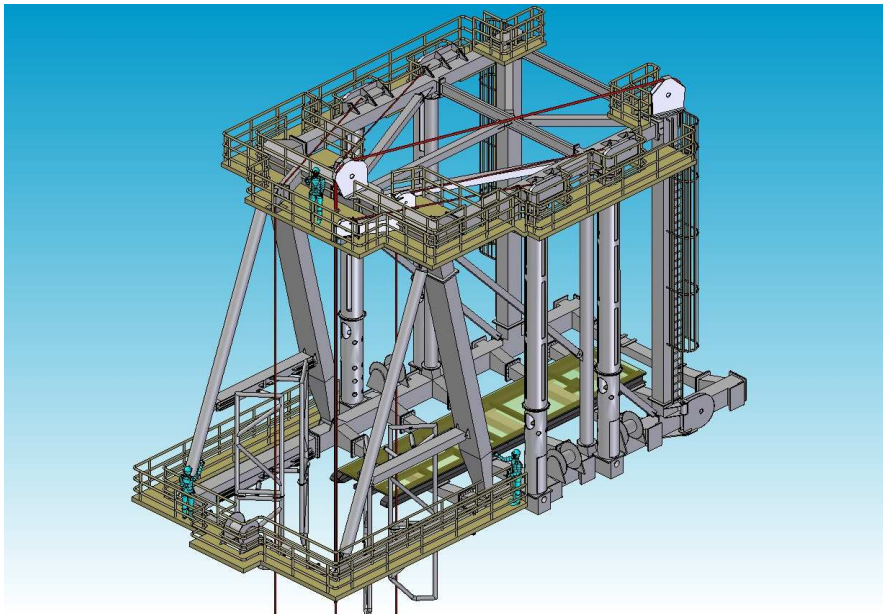
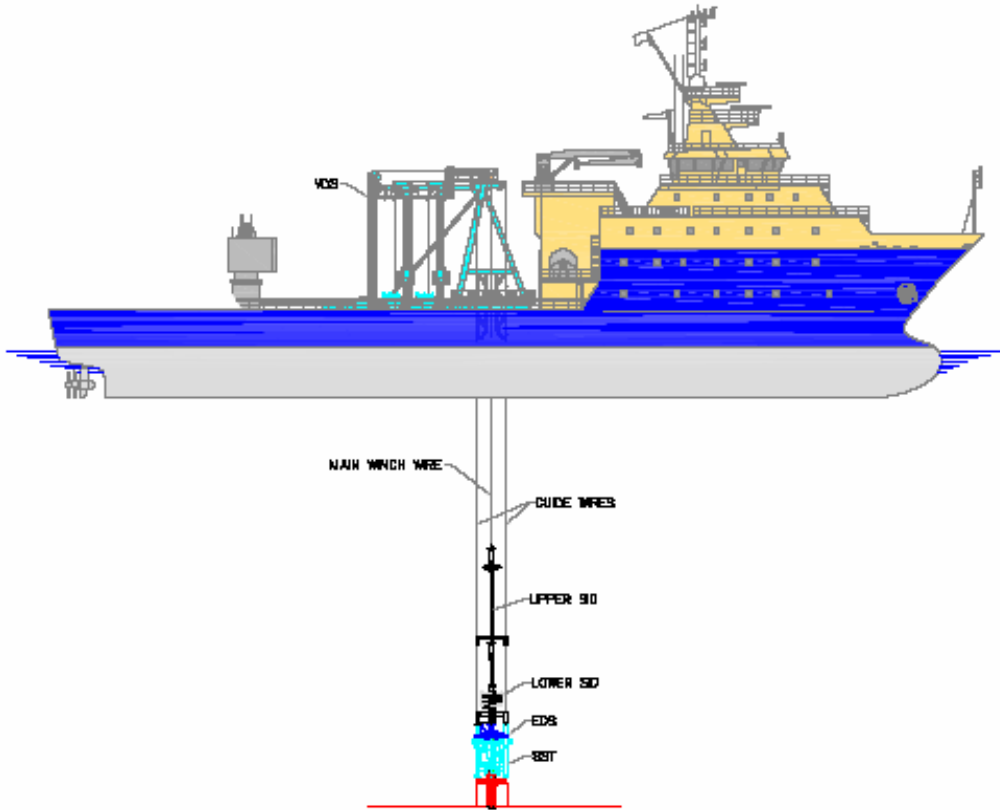
## VDS Frame

Features	Benefits
Skidding System	No lifting required on deck
Cursor system	Lifted loads constrained
Active Heave Compensated Lifting Winch	Heave compensation of guide and pod lines
Moonpool	Moonpool style operations on a typical OSV
Adaptable to most vessels over 65m	Easy personnel access for maintenance or repair
Collapsible for in gauge road transport	Rapid assembly / removal from vessel deck.
	Provides cost effective well intervention capabilities without any requirement for offshore drilling rigs.

Technical Specification	
Main Lift Winch	1 x 35 tonnes (Active Heave Compensation)
Guide / Pod Line Winches	4 x 5 tonnes (Heave Compensated) (API radius)
Equipment Handling Tuggers	2 x 10 tonnes
Total Frame Mass	80 tonnes approx
Dimensions	17.5m x 8m x 11.5m

Certification	
Lifting	DNV CN 2.7.1 DNV Rule for Certification - Lifting Appliances

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