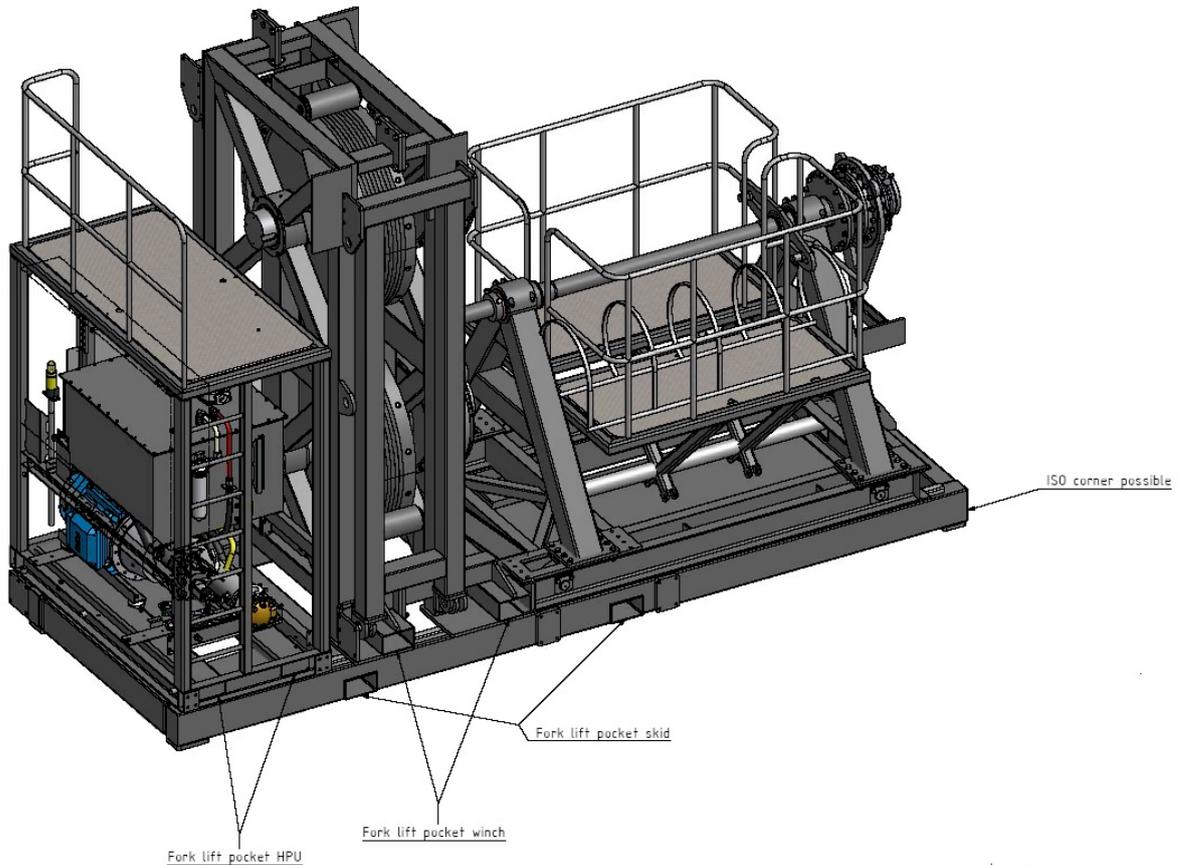


LIDAN



Subsea

Within this segment Lidan Marine supplies Launch and Recovery Systems for ROV's designed for submersion down to 6 000 meters' depth. A vast range of umbilical winches, cranes, overhead travelling systems and A-frames has been proven to complete reliability. To increase the equipments accessibility in the toughest of sea conditions Lidan Marine has launched a top-of-the-line AHC technology. The company also provides submersible control and safety systems for the Seismic industry.

Industry

Lidan Marine supplies tailored winch and handling systems. Examples are high resolution test equipment for helicopters rescue hoists and winches for heavy vehicle test ranges with extreme speed control requirements. The company also supplies a broad range of winches for heavy door handling including redundant safety systems.

Naval

Lidan Marine is one of the world's leading suppliers of advanced handling equipment for naval vessels. The company has focused on proving dependable multi purpose systems that are light and compact. The customers can access a wide portfolio of proven technology for handling equipment in the area of MCM and ASW.

RoRo

Lidan Marine is, by supplying roughly 70 % of the world market, the global leader in deign and manufacture of handling equipment for heavy stern and side ramps for deeps sea RoRo vessels. This larger class of ships usually handles more than 2 500 car equivalent units. The customers require that the systems are equipped with constant tension technology compensating for tide, sea heave and cargo loading and unloading.

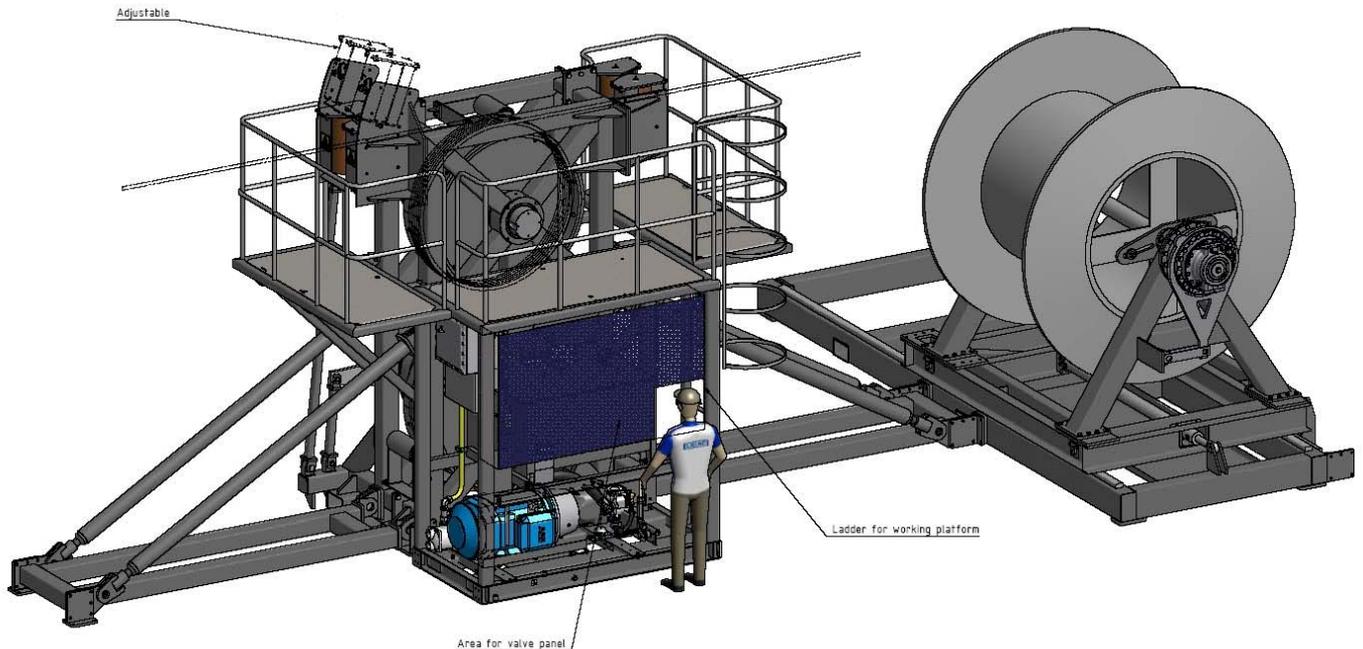
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Umbilical Cable Spooling Winch 170kN

The Tension Unit is designed to accommodate a platform for an easy access when reeving the cable.
 The Tension Unit and Storage Reel Suspension Unit are suited for bolted connection for the spooling operation.
 The Tension Unit, Storage Reel Suspension Unit and HPU are split into subassemblies to allow packing for easier transportation.

Winch Characteristics:

Tension:	20-170kN incl. back tension 15kN
Cable speed:	Up to 45m/min
Pull:	170kN subject to back tension 15kN
Pull:	20 kN incl. back tension 10kN
Cable speed In pull direction during tensioning:	Max 5m/min with 170kN
Cable speed In pull direction Unreeling cable from winch:	Up to 45m/min with 20kN
Cable size capacity:	From Ø17 mm to Ø41 mm



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