

## Containerized Hose and Umbilical winches



### Application

Winch to store hydraulic hoses and air hose/umbilical for the power supply and remote control of a pile driving hammer. Pile driving hammers are used on- and offshore, above water and submerged.

### Dimensions

High cube container dimensions

Length: 6,058m

Width: 2,438m

Height: 2,896m

Weight: empty winch 15.000kg  
with hoses 24.500kg

### System Components

Winch system consisting of a 20" high cube offshore certified container frame.

In this frame there are located 2 drums (hydraulic hoses and air hose/umbilical drum), spooling devices and the controls with the drives.

### Technical specifications

#### General

Variable Speed: 0 to 12m/min first layer  
Brake holding force: 93kN (total on first layer)  
Electrical system: minimum IP56  
Power supply: 380-440VAC; 50Hz

#### Hydraulic hose drum

Storage: 4x 2" hydraulic hose each  
160m (in 2 compartments)  
(2 of the 4 lines parallel with each other)

Connections: 4x 2" (total 3 separated connection lines)

Line pull: 62kN (total on first layer)

Max pressure hoses: 350bar

Max flow rate: 1600dm<sup>3</sup>/min

#### Air hose/Umbilical drum

Storage: 1x air hose + umbilical  
each 240m

Line pull: 8kN (total on first layer)

Brake holding force: 12kN (total on first layer)

#### Operating conditions:

Environment: tropical / offshore

Temperature: -20°C to 45°C

Humidity: up to 100%.



### Features / Innovations

All equipment is stored in a 20" high cube container frame providing easy transportation. Before operation the spooling device is swung-out of the container frame. After all the electrical and hydraulic connections are made the container is fully operational. Due to the design the time for mobilization and preparing for operations is very short. The container frame is DNV certified (offshore container).