

Hose winch for pile driving hammer



System Components

The winch system consisting of a drum frame with drive system and a separate frame for the spooling device.
This separate frame can easily be disconnected from the drum frame.

Technical specifications

Storage: 6x 2.5" hydraulic hose each 360m
(3x in low pres.; 3x in high pres. compartment)
Hydraulic connections: 12x 2"
(6x low pres. and 6x high pres.)
Max working pressure hoses: 350 bar
Max flow rate: 3200dm³/min
Line pull: 240kN
(2x 120kN total on first layer)
The winch has a tension relief system to support the weight of the hoses
Brake holding force: 360kN
Maximum speed on first layer: 12m/min
(0 m/min to 12 m/min variable)
Electrical system: minimum IP56
Power supply: 380-440VAC

Winch dimensions

Height: 3,5m
Width: 3,5m
(incl. spooling device 4,3m)
Length: 8,8m
Weight empty winch: 35t
(incl. spooling device)
Total weight winch with hoses: 63t
(incl. spooling device)

Drum dimensions

Drum diameter: 2,3m
Drum flange diameter: 3,4m
Length of each compartment 3,2m

Application

Winch to store hydraulic hoses for the power supply of a pile driving hammer.

This pile driving hammer can be used on shore, offshore above water and offshore submerged. These piles are for example used for windmill foundations and anchor piles.

The operating conditions can vary from tropical to offshore environments with ambient temperature variations from -20°C to 45°C and a humidity up to 100%.



Features / Innovations

To keep the winch transportable on the road the winch has a separate spooling device frame. The drum frame and spooling device frame can be transported separately.

The shaft of the drum is also the manifold for the 12x 2" connection. Therefore the winch could be kept as small as possible to reduce the use of deck space.

The spooling device has been designed with extra large guide rollers for the protection of the hydraulic hoses.