

**Field of expertise:** Hydraulic engineering, winches

**Client:** Tenwolde Transport en Repair B.V.

## Project description

Commissioned by Tenwolde Transport and Repair B.V., MH Poly has designed hydraulic winches. Because the winches are mobile they can also be used as a mooring winch on other vessels.

On shore these winches could position heavy units and they are also suitable for horizontal transport. The winch is hydraulically driven and has a hydraulically operated band brake and clutch. This makes it possible to loosen the drum in free fall.

## Hydraulic single winch drum 180kN and 650kN



## Project activities

- ◆ Design of winches using 3D-modeling (Inventor) and Finite Element Method (RFEM);
- ◆ Making detail drawings.

In cooperation with Tenwolde Transport and Repair B.V., MH Poly has developed two winches. This process began on the basis of experience and technical knowledge of both parties. Each component has been developed and merged into one. The parts and assemblies are manufactured and assembled by Tenwolde.

