

# Right Angle Winches



## Description

MASH right angled winches, with the level wind sheave integrated or on top of the protection frame, are designed to handle communications for any type of ROV or ROTV. They are the ideal solution for areas where space is an issue. The right angle design saves spooling space.

The right angle system also eliminates the fleeting angle between the winch and the A-frame – with the added bonus of a more careful handling of the cable. Features includes on-site adjustment of level wind position.

This winch unit is designed to integrate with our LARS and wave compensation systems.

## Features and benefits

- Electric or hydraulic systems available
- Local control placed on the winch
- Direct driven level wind with on-site position adjustment
- Prepared for mounting of a Focal electrical/fibre optical slip ring
- Free access to all junction boxes
- Long proven track record

## Applications

- All ROV or ROTV systems

## System options

- Certification of lifting points according to International Labour Organisation (ILO 152) for lifting from quay to ship
- Certification of lifting points according to DnV (2.7.1) rules for offshore lifts
- Full certification of the winch system according to DnV's "Rules for Certification of Lifting Appliance – 1994" or equivalent
- Eexd zone II application
- Remote control for deck use or positioned in control container rack
- Override function for adjustment of level wind during operation
- Cooling of umbilical and hydraulic system for operation in hot areas
- Sacrificial sea-fastening brackets
- Extra control valve for A-frame operation or other hydraulic equipment included in hydraulic winches
- A wide range of control systems available

These are just examples of the options available

