

# High speed winch

Automated deployment of fast measurement systems at great depths

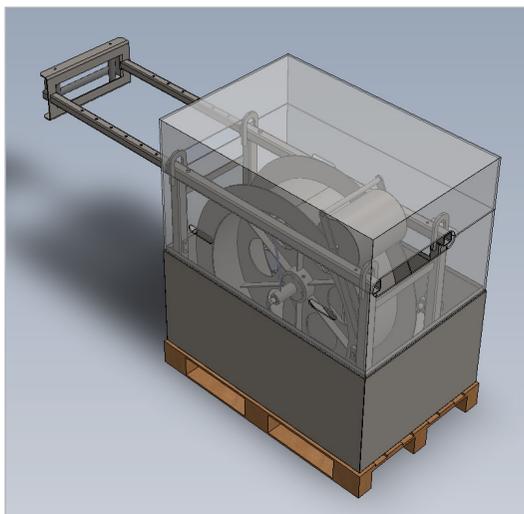
## Deliverables

- Rapid deployment of measurement systems up to 2000 m
- Employment of multiple sensors simultaneously
- Real-time data transfer
- Maintains altitude automatically
- Real-time interface with on-board PC's

**The High Speed Winch has been developed for the fast deployment and retrieval of various sensors in deep waters.**

The functionality of the winch benefits from the integration of the dedicated **Stema Systems software** that allows the winch to maintain altitude above the sea/lake floor of the sensors that it is towing. The altitude maintenance functionality has been proven to provide an added safety margin in the deployment of sensors such as a **Side Scan Sonar** as well as providing consistency of results in the deployment of magnetometers, both needing a consistent altitude for optimal functioning.

The **High Speed Winch** is designed such that it can rapidly deploy multiple sensors simultaneously up to a depth of 2000 meters. The winch can be operated with **Rheotune** software or with **Stema dedicated winch software** enabling fully automated measurement cycles, which can be displayed on the interface screen on deck. Among the parameters that can be set are: the maximum speed over ground (SOG), speed to lower the sensor, measurement speed. The lowering of the probe can be stopped automatically using various stopping criteria set in the winch software or by manual operation. The latter is enabled by a handheld near the winch and an additional handheld located on the bridge of the ship.



Compact High Speed Power Winch with extendable arm to control fleet angle



Internals of High Speed Winch

## Key features

- Enabled for vertical deployment and towed devices
- Multiple equipment deployments
- Programmable deployment, for both vertical deployment and constant altitude maintenance

## Related products

RheoTune

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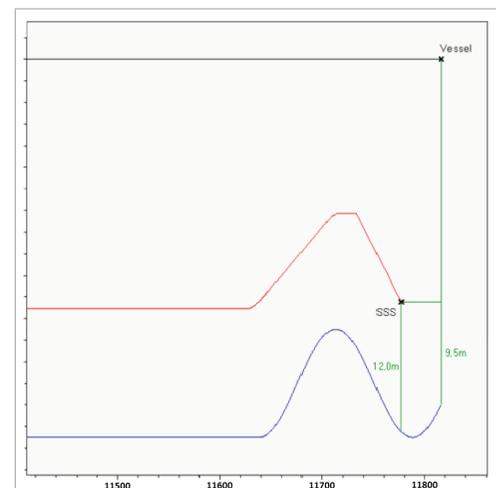
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## Specifications

<b>Load capacity:</b>	420 kg
<b>Drum capacity:</b>	2000 m (dependent on cable choice)
<b>Max speed:</b>	2 m/s
<b>Drive type:</b>	380 V three-phase electric power  Power supply for sensors
<b>Power:</b>	10.7 kW
<b>Dimensions:</b>	1.24 x 0.78 x 1.17 (L x W x H)
<b>Weight:</b>	380 kg
<b>Material:</b>	RVS
<b>Winch control:</b>	LAN
<b>Data communication:</b>	LAN / COAX / RS485 / RS232
<b>Accessories:</b>	Slipring Cable counter Diameter Sensor Flashing light Measurement and regulation of cable tension Two handhelds End-stop sensor Slackwire sensor Extendable arm to control fleet angle



High Speed Winch with lexan security cover



Winch software showing actual sensor position and altitude corrections

## Applications

- Sound Velocity Sensors
- Rheotone
- Side Scan Sonar systems
- Sub-Bottom Profilers
- Combined Side Scan Sonar and Sub-Bottom Profiling systems
- Magnetometer (arrays)