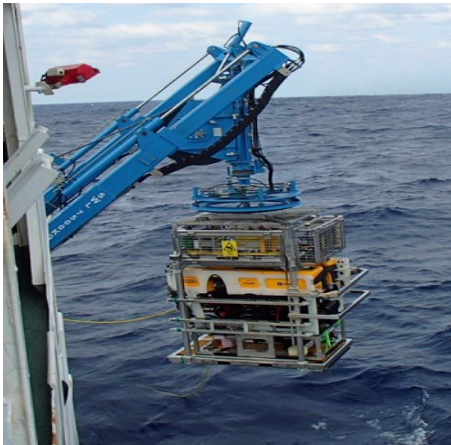
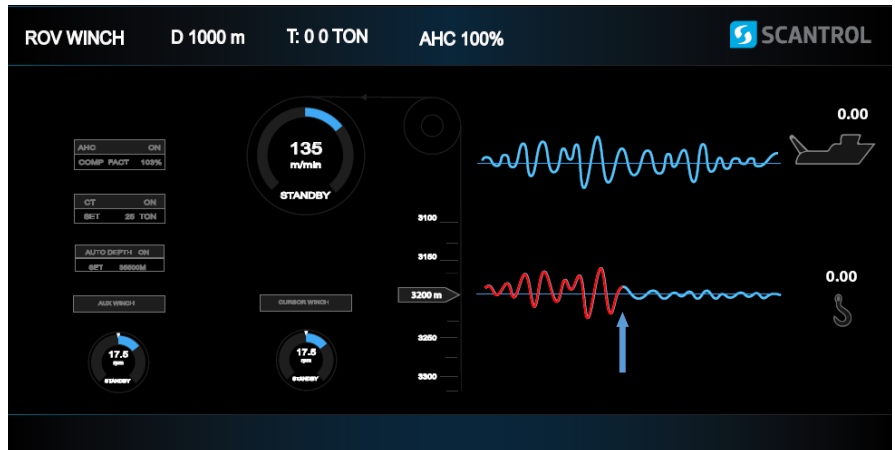


Upgrade your winch with Scantrol AHC

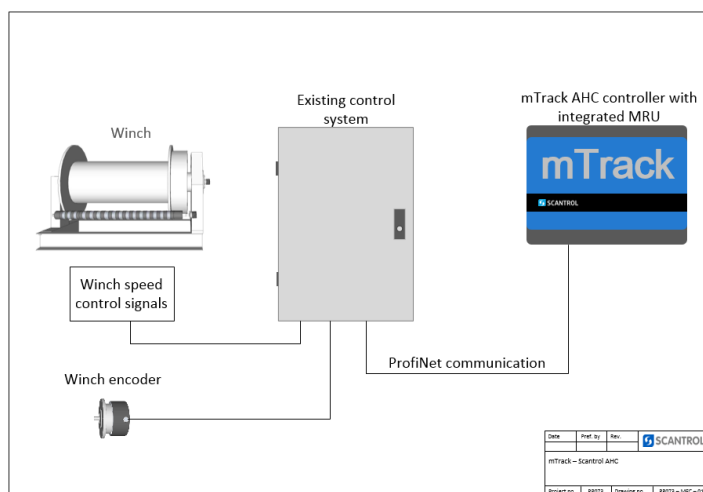
Many LARS winches and other winches used for subsea work can be upgraded to AHC with minor modifications to the drive system. Scantrol AHC will increase the uptime of your subsea operations, improve system stability, as well as reduce some of the tougher operational burden on the winch operator. mTrack is Scantrols AHC controller with an integrated MRU and all the tools needed to make AHC work with your winch or crane. Fitting mTrack to an existing winch is a cost effective solution to increase your asset value and keep up with the competition.



Efficient installation: The image shows a Seaeye Leopard LARS upgraded with Scantrol AHC in only 3 days. This is a cost-efficient way to upgrade your winch.



User friendly for the operator: The top graph shows the vessel movement. The bottom graph shows the load movement. The arrow indicates when AHC is activated. The system filters out the movement and stabilizes the load related to the seabed.

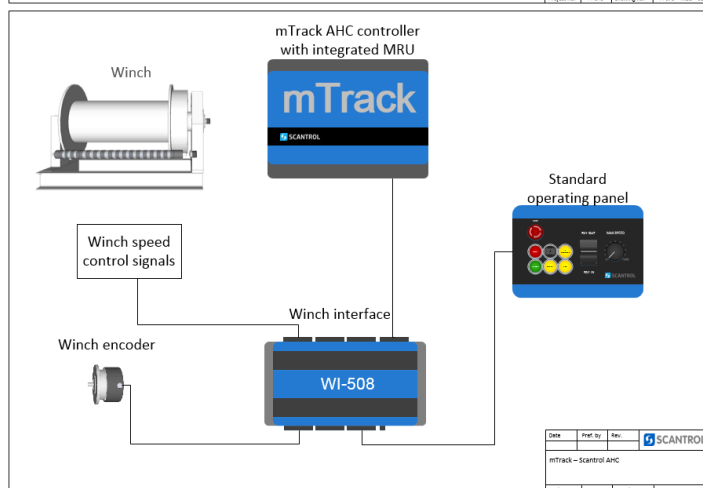


Installation example

mTrack becomes part of the existing control system

ProfiNet communication is used between mTrack and the existing control system. Scantrol supplies function blocks for the existing PLC, together with detailed instructions for installation.

mTrack needs an accurate length measurement, and an encoder is installed on the drum



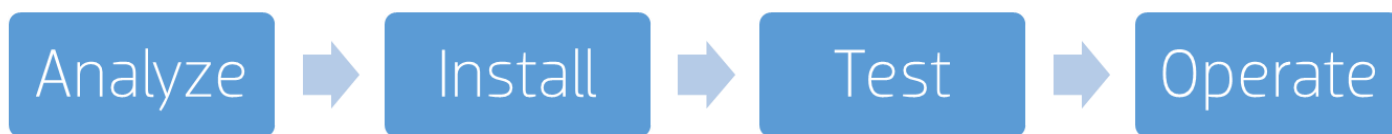
Installation example

Scantrol supplies winch interface and operator panel

This option can be selected if there is no PLC control system for the winch, or you wish to not change the existing controls

The winch interface communicates with mTrack, the encoder, the operator panel, and sends the speed control signals directly to the hydraulic or electric drive.

How to fit Scantrol AHC to an existing winch in four steps



1. Analyze

Run Scantrol AHC Analyzer to estimate AHC performance of the winch, together with required speed, and power requirements. Scantrol needs following information on the winch to run AHC Analyzer:

Company name		Contact name	
Vessel name		Winch application	
Wire capacity		m	Wire diameter
Line speed bare drum		m/min	Line pull bare drum
Line speed full drum		m/min	Line pull full drum
Installed power		kW	
Winch drive (electric or hydraulic)			
Comments:			

Fill in the table and send to AHC@scantrol.com for a quick and non-binding AHC analyzes.

2. Install

If the results from AHC Analyzer shows that AHC performance is sufficient for the application, mTrack can be installed without modification of the winch drive system.

In some hydraulic systems, it may be required to upgrade the speed control valve of the winch in order to achieve required response time and accuracy.

If AHC capacity is too low for the application, the speed of the winch will have to be increased. In many cases this can be done by increasing the size of the power unit, or operate the winch in high speed mode if available.

3. Test

Speedtest: automatically calibrate the winch control signals to adapt to imperfections in the drive system.

Dynatest: verify the winch performance at the factory or while quayside., and avoid expensive sea trials for AHC tuning.

4. Operate

Scantrol AHC is easy to operate. It is activated by pushing the "AHC ON" button. AHC is completely isolated from controlling the winch when AHC is off. The operator will always be told how much of the winch capacity is used for AHC.

Scantrol AS has manufactured control systems for deck machinery for over 30 years. 110+ Active Heave Compensation systems has successfully been delivered by focusing on user friendly controls, efficient support and commissioning, and standardized solutions. Scantrol AHC is available for upgrades and new systems for all winches and cranes.