



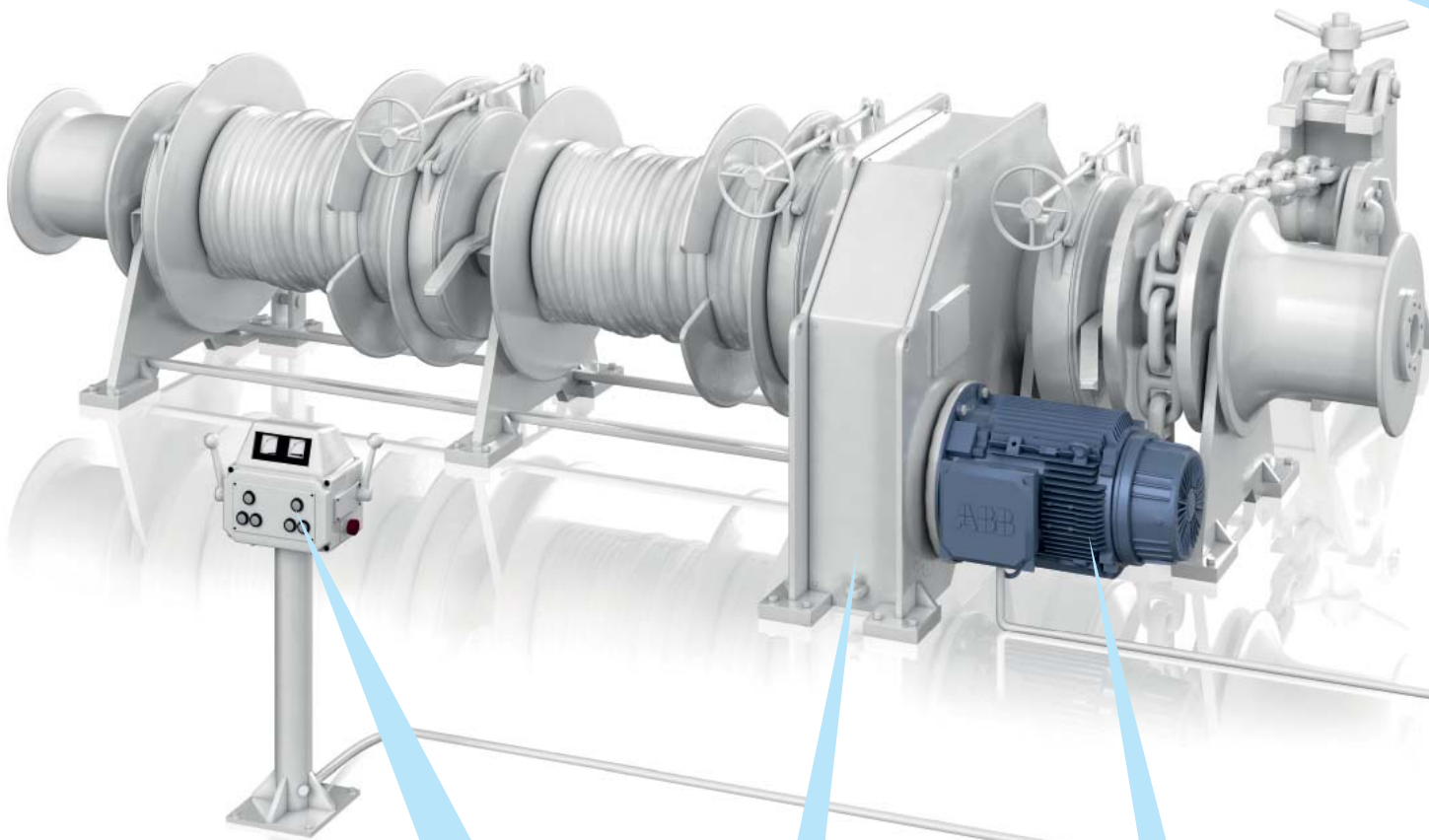
## Electrically driven deck winches with ACS800 industrial drives

# Performance. Speed. Reliability. Everything counts.

Anchoring and mooring often involves low-speed, high-torque situations on heavy vessels. With the help of application expertise gained over many years, we've developed drives that overcome the winching challenges and enable precise, dependable and smooth winch operation.

1

Winch control included in the drive  
No need for external controllers



4

Multiple control stands  
connect directly to the drive

3

Automoooring is possible  
without a load cell sensor

2

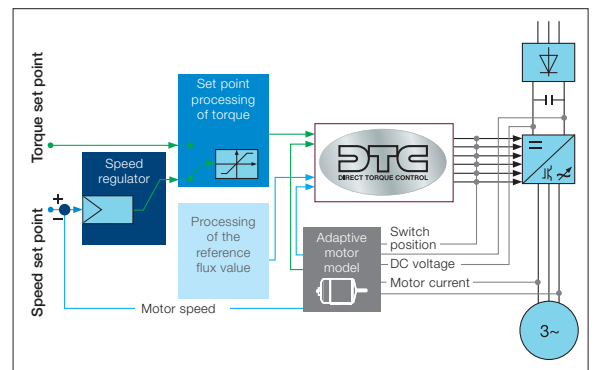
Full control of speed  
without a shaft



## ACS800 drives for new installs and retrofits

- ACS800 drives fulfill marine and offshore requirements, and the design and operation comply with regulations from all major classification societies.
- Full torque at low speed enables winch start and stop without any jerking.
- Stepless speed and torque control reduces winch noise.
- Synchronized control for mechanical disk brake in starting and stopping of the winch.
- Dynamic braking with integrated brake chopper and external braking resistor.
- The winch control software includes parameter sets for anchoring, automooring and handmooring.
- ACS800 drives are also available as low harmonic and regenerative variants.

The combination of direct torque control (DTC) and winch control program eliminates the need for motor shaft encoders and gearbox load cell sensors



Direct torque control (DTC) technology facilitates the accurate control of speed and torque without rotary encoder feedback from the motor shaft. Through DTC, the winch control program offers higher levels of operational reliability and more precise regulation of lower motor speeds with high torque levels.

Speed and torque  
without encoder

# Contact us

For more information please contact your local ABB representative or visit:

[www.abb.com/drives](http://www.abb.com/drives)

[www.abb.com/drivespartners](http://www.abb.com/drivespartners)

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See how Norwegian Deck Machinery used our drives onboard a passenger ship.

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