



Winch Model 750.370 – 37 kW

Manual

KC Denmark A/S

Research Equipment
Limnology • Oceanography • Hydrobiology

IMPORTANT



All power installation work must be performed by an authorized technician.

Power requirements:

- 460 V/3-phase – 80/100 A
- 60 Hz



It is important to carry out a test deployment with a representative load, such as a box corer or similar, and then rewind the cable onto the drum under load. At the factory, we cannot spool the cable onto the drum under the same load as the box corer provides, so the cable will not be wound as tightly or evenly as it will be after the first operational deployment.



For all maintenance, inspection, and repair work on the winch, disconnect the power supply to prevent any unintended operation that could result in injury to personnel or damage to the winch.

Maintenance, inspection, and repair work shall only be carried out by qualified maintenance personnel fully familiar with the associated hazards.

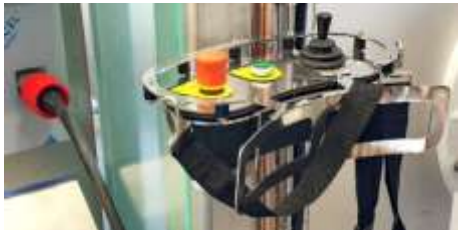
Personnel assigned to work on the winch and its accessories shall be specially trained for the task and shall possess the necessary skills and experience in this field. They shall also be provided with the appropriate tools and personal protective equipment. Failure to comply with these requirements may result in a risk to personal safety and property damage.

When working on the unit in areas that are difficult to access or present hazards, ensure that adequate safety precautions have been taken for the operator and other personnel, in accordance with applicable health and safety regulations.

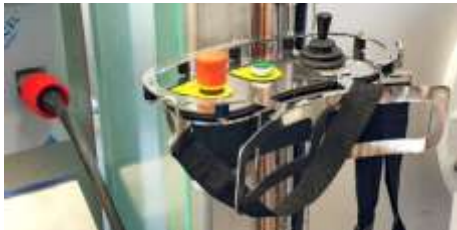


For moving the winch, it is fitted with four lifting eyes, A4M24. Side-pull or transverse loading significantly reduces the safe capacity and should be avoided or the load should be derated.



Winch preparation		
1	Secure the winch on a flat surface before use. Use the four fastening brackets located at each corner of the winch. Furthermore, you will find two holes beneath the motor; see item 2.	
2	The bracket supports the motor and has two holes.	
3	The external box is mounted separately and need not be installed adjacent to the winch. It contains heat-generating resistors and must be placed in a well-ventilated area.  <u>IMPORTANT:</u> The box shown must be rotated 180° during assembly. It is shown upside down.	
4	Connect the remote control to the SubConn connector on the right side of the electronics box.	

	Emergency	
5	The winch is equipped with four emergency stops. Note that there are two different designs: • One on the remote control • One on the electronics cabinet • Two on top of the winch Activation: It must stop all dangerous movements immediately, and the winch must not be able to restart until the emergency stop has been manually reset. Resetting is done by turning (shown with arrows on the knob) or pulling out the button.	
	Operating the winch	
6	Check that the disc brake is released by turning it anticlockwise until it stops. Otherwise, you may cause serious damage to the winch.	
7	Turn the main switch clockwise to position "On".	

8	On the remote control, press “Activate” and move the joystick forward to spool out the wire. Pull the joystick back to spool in the wire. The joystick controls the wire direction and the winch speed. The further you move the joystick, the higher the speed.  <i>Before changing direction, it is very important that the winch drum is completely still to avoid damage.</i>	
9	The jog control on the winch is a manual operation mode used for short, precise movements of the wire guide system - known as jogging or inching - achieved by repeatedly pressing or tapping the control button. It is commonly used during spooling to make smaller adjustments to the layer. Pushing the Reset switch restores the factory settings.	
	Maintenance	
10	The two ball bearings must be greased at the least every six months. They are located on the right side of the winch, opposite the electric motor.	

11	The spindle and the guiding system must be greased as needed.	
12	The electronics cabinet contains complete documentation for the servo system, including a winch diagram. All software is available on CD and on a USB key. If you require any support relating to the electrical design, please refer to the serial number indicated on the inside of the door.	
13	Replace worn component with original spare parts. Use the lubricants (oil and grease) recommended by the manufacturer.	

	Technical Specifications	
15	• Dimensions of the winch: 3190 x 2430 mm. Height 2560 mm • Weight: 3100 kg • Drum dimensions: Ø 1,200 mm x 1,900 mm • Cable capacity: approx. 6,100 m (Ø15 mm) • Lifting capacity, inclusive the weight of line/wire: 2,200 kg. Power requirements: • 460 V/3-phase – 80/100 A • 60 Hz The winch has an inner drum diameter (first layer) of Ø400 mm and an outer diameter (fully spooled) of Ø1150 mm, resulting in the following operating speeds: • Ø400 mm: 0,56 m/s • Ø750 mm: 1,05 m/s • Ø1150 mm: 1,62 m/s This gives an average speed of approximately 1,1 m/s when the full 6000 m of cable is deployed.	

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