

Shown with accessories (Dyneema line and a counter system)

Portable Winch Model 30.000

Manual

KC Denmark A/S

Research Equipment
Limnology • Oceanography • Hydrobiology

Portable Winch Model 30.000

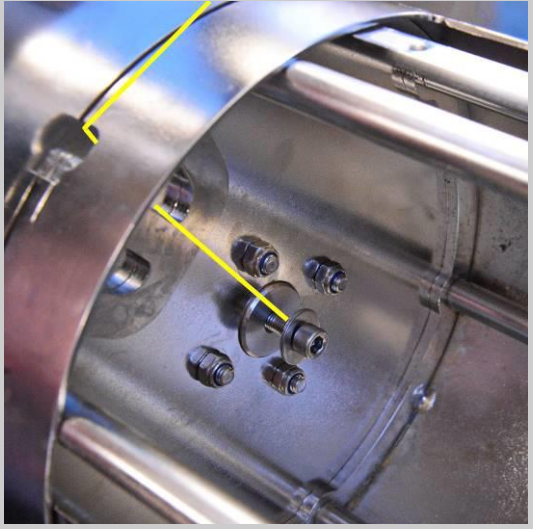
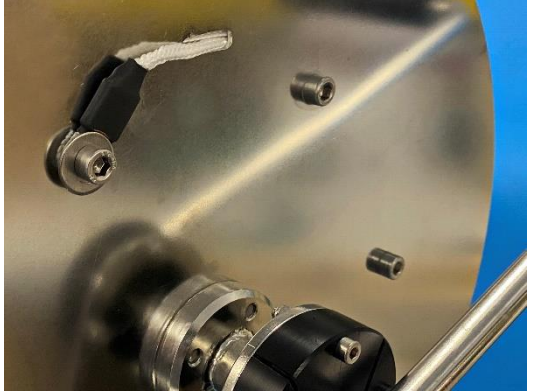
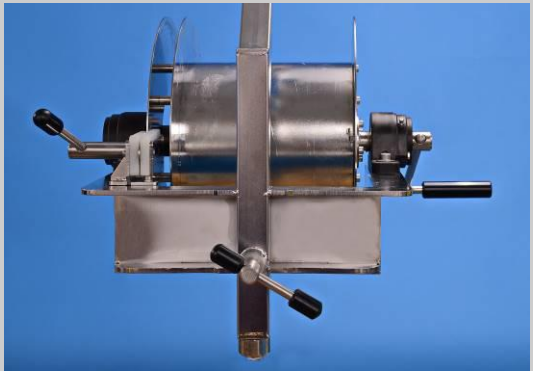


Use of the winch may under certain circumstances, constitute a potential risk of injury. Take serious precautions to avoid any accidents.

KC Denmark A/S is not, and cannot be held, responsible for any damage(s) made to equipment or to operators who ignore safety precautions or because of misuse, any modifications or wrong operation.

Max. recommended load: 30 kg. Adding the 30.004 gear box provides a max. load of 60 kg.

Preparation		
1	<p>Secure the winch properly using a suitable bracket or a steel bar with a diameter of $\varnothing 34$ mm. More options are available; the photo shows a rail-mounted, lockable model 30.005. Useable for a rail with dimensions within 13 to 92 mm. The bracket is lockable to prevent theft but comes without the padlock. The winch can be locked each 45°</p> <p>See item 2 for another model.</p> <p>To avoid any damage or injury, you must ensure free space for the wire in all positions.</p>	
2	<p>Model 30.006 offers several options for adjustment, so it will fit for almost any mounting.</p> <p>The winch can be locked every 45°.</p>	

3	<p>Fastening the wire:</p> <p>2 options are available, see also item 4.</p> <p>Remove the plate on the drum. Insert the wire as shown and fasten it to the bolt using an appropriate eye at end of the wire. You may secure the bolt by adding Loctite or similar to the thread.</p> <p>Remount the plate and you are now ready for spooling the wire onto the drum.</p>	
4	<p>You can also fasten the wire on the outer side of the drum.</p>	
5	<p>Loosen the brake at the left side and spool the wire taking precaution as per item 6.</p>	

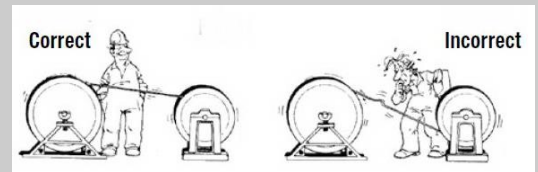


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Winding from reel to drum:

During installation, when the steel wire rope is running directly from the reel to the drum, you must ensure that the reel is running in the same direction as the drum. If this is done incorrectly, the steel wire rope is subjected to tension.

To achieve a problem-free winding in multi-layer winding, it is extremely important that the steel wire rope is under tension when applied to the drum. If the layers are too loose, the upper layers can damage or cut into the layers below when tension is applied, resulting in damage to the steel wire rope. The rope must be wound onto the drum at a tension corresponding to at least 2% of the tensile strength of the rope. Text and illustration by Fyns Kran, Denmark <https://fyns-kran.dk/>



Operating the winch



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Attach your equipment and lower it to the sea. A maximum weight of 30 kg is highly recommended as a higher load makes the handling more inconvenient. Turning the brake handle in clockwise position will lock the winch.

Before losing the brake for resuming the operation hold the handle in a firm position so you don't get hit by the handle.

For a fast deployment you can loose the brake and the winch runs in free-wheeling mode. Beware of the rotating handle which can cause serious injury. Never attempt catching the handle to stop the winch, you must only use the brake handle.

For a wire speed exceeding 3 m/sec. approx, the counter may have an incorrect read-out of length.



The counter system

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The counter system (30.361) must be ordered separately, and it consists of a counter and a wheel with three magnets and a Hall element.



9

The counter has a max. counting of 999,9 m with a resolution of 10 cm.

Push the small button to reset the counter to 0.



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The counter is powered with 3 internal AA-batteries with an estimated lifetime of 12 months. If the display gets hard to read, you may replace the batteries. Dismount the upper part of the counter by unscrewing the 4 screws. When replacing the batteries, be sure to observe the correct polarity indicated in the battery box.

If the winch is unused for a while, it is strongly recommended to remove the batteries to avoid any leaking, which may cause serious damage to the printed circuit board.

The warranty is void if damage to the counter system can be attributed to a leaking battery.



Technical Specifications - Winch	
Portable winch operated by hand:	SWL: 30 kg (max. 300 Nm, first layer). Up to 60 kg if the winch is delivered with 30.004 gear box.
Mechanical	
Material:	All parts are made of AISI 316 stainless steel
Main rack:	40 x 40 x 2 mm profiled tube
Finish:	Electro polish
Drum:	Inner diameter: Ø200 mm Outer diameter: Ø340 mm Width: 210 mm
Drum and disc brake:	4 mm AISI 316 stainless steel
Mechanical brake:	Ø340 mm disc brake
Ball bearing:	AISI 316 stainless steel flange ball bearing, 1 pc Ø25 mm.
Shaft required for mounting on bulwark:	Ø34 AISI 316 stainless steel
Weight and dimensions	
L x W (depth) x H:	58 x 84 x 120 cm
Weight, exclusive wire:	Approx.: 20 kg

Rev.: May 5, 2022 - lkj	
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