



Piston corer  
Model 13.600

# Manual

**KC** Denmark A/S

Research Equipment

Limnology • Oceanography • Hydrobiology

## Manual for Piston corer

Model no.  
13.600

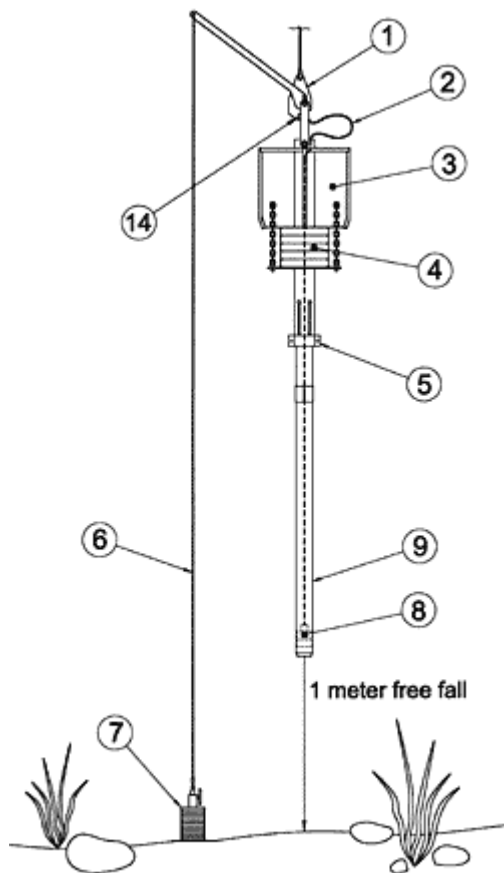




### Caution



The piston corer is very dangerous in unskilled hands and serious precautions must be taken to avoid accidents.

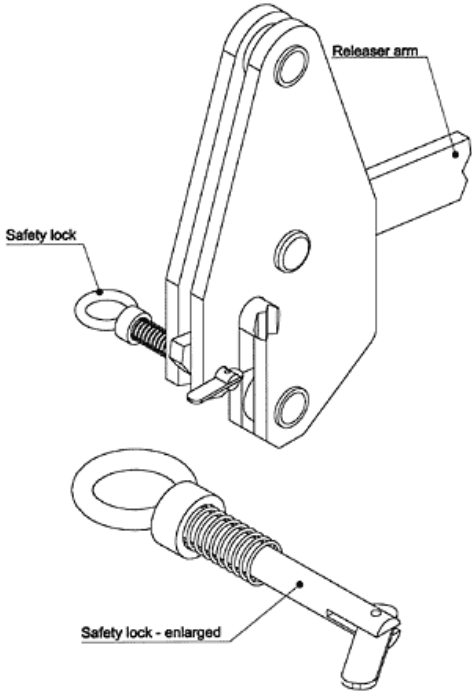


KC-Denmark is not, and cannot be held, responsible for any damage(s) made to equipment or to operators who ignore safety precautions or because of misuse or wrong operation.


Never walk under the piston corer, when lifted up by the winch.



<b>Preparation:</b>		
1	Position numbers refer to the schematic.	
2	Place the necessary number of lead weights (pos. 4) at the main rack (pos. 3). Then mount the supporting frame with its 2 pcs. of chains with shackles (do not forget control check).	
3	Push the corer-tube (pos. 9) app. 30 cm into the main rack (pos. 3) and mount safely. (pos. 5).	
4	A wire-tightener (i.e. 2 pcs PE-HD plastic plate's arrangement) is placed at the top of the main rack.	
5	Guide the wire (with the swivel in front) through the main rack and the corer tube. The swivel must remain at top of the main rack).	

6	<p>Mount the wire (pos. 2) with the swivel part at the piston outside the end of the corer tube. Then press the piston into the corer tube on level with the corer edge.</p>	
7	<p>Tighten the PE-HD arrangement a little bit to ensure against a piston fall-out at sudden movements.</p>	
8	<p>Mount the wire end with its steel thimble to the KULLENBERG releaser (pos. 1) by the steel bolt. (Do not forget to make a control check).</p>	
9	<p>Mount the KULLENBERG releaser (pos. 1) at the main rack and mount the safety lock in the hole over the long moveable arm. (Do not forget control check). Mount the thin wire at the moveable KULLENBERG releaser arm and at the releaser weight (pos. 7).</p>	

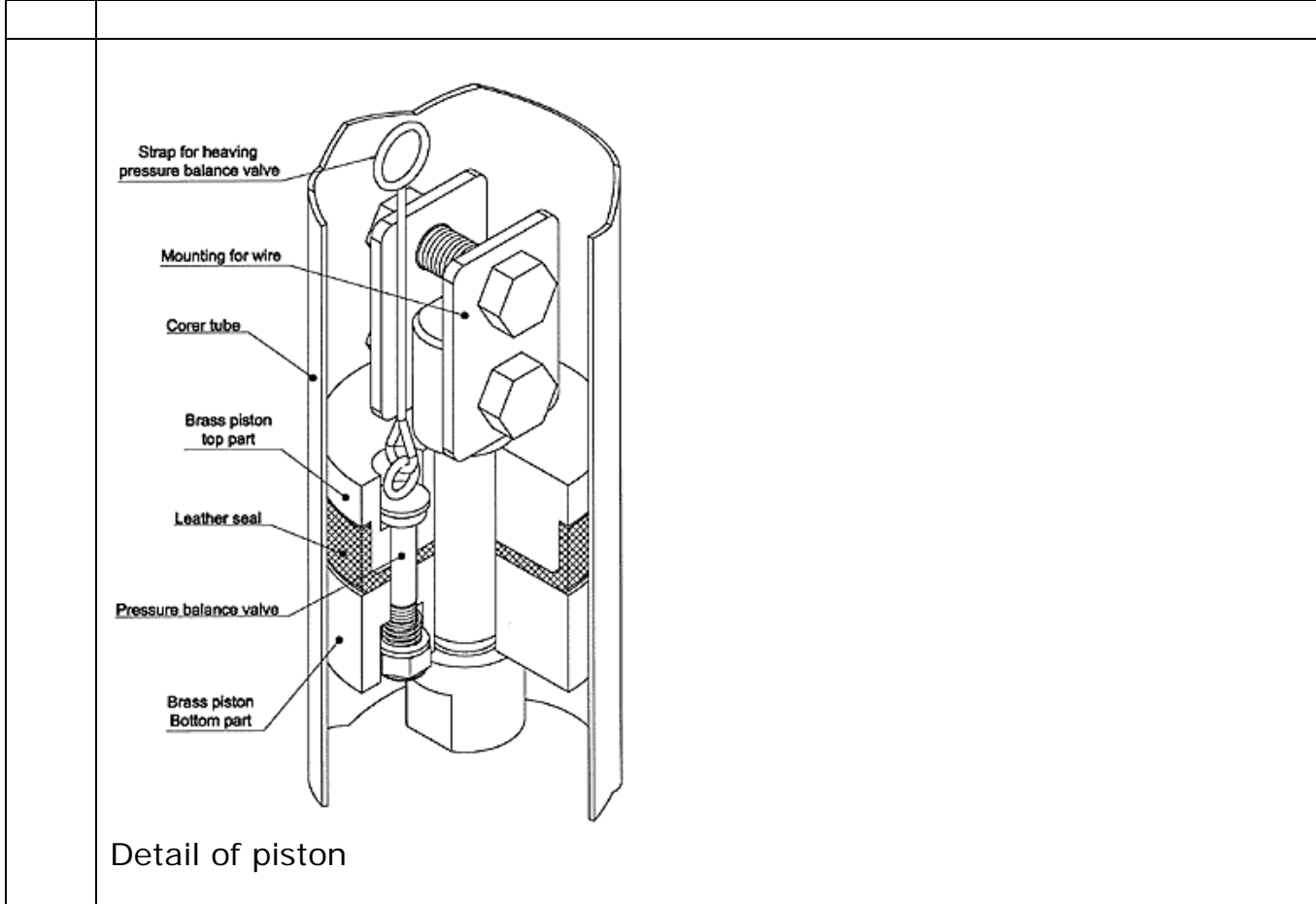
<p>10</p>	<p>When the piston corer is hinged outboard the ship, remove the safety-lock (pos. 14 and annex D) and the piston corer is ready for use.</p>	
<p>11</p>	<p> <b>Caution</b></p> <p><b>WARNING: Never remove the safety lock before the piston corer is outboard the ship. It poses great danger for personnel to remove the safety lock inboard the ship.</b></p>	
<p>12</p>	<p>When the piston corer is redrawn and placed on the ships deck with the sample inside, then release the corer-lock (pos. 5) and the corer is now removable by the tube-detacher (pos. 10). To remove the piston, heave the strap at the top of the piston to create pressure balance. When the piston is removed, then dismount it from the wire, and the piston corer is ready for the next operation.</p>	

13	Place the corer tube horizontally at the 2 trestles.	
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14	<p>The sample remove-drum with its ratchet device (pos. 11) is fastened app. at the middle of the corer. The wire must be guided round the wheel at the piston rod (pos. 12) and is fastened under the drum (pos. 11). When the drum is turned the sample will be pressed out of the tube.</p>	
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**Maintenance**

All parts of the piston corer can be rinsed using salt water or fresh water. Regular cleaning with fresh water is recommended and all moveable parts must be moved individually to ensure all dirt has been removed.



### Accessories and spare parts

Order no.	Pcs.	Product	Net. weight		
13.702A	1	Coring tube, AISI 304 stainless steel, <b>1,2 m</b> O.D./I.D. $\varnothing 104/\varnothing 99$ mm.	6,6 kg		
13.702	1	Coring tube, AISI 304 stainless steel, <b>2,2 m</b> O.D./I.D. $\varnothing 104/\varnothing 99$ mm.	12 Kg		
13.704	1	Coring tube, AISI 304 stainless steel, <b>4,2 m</b> O.D./I.D. $\varnothing 104/\varnothing 99$ mm.	23 Kg		
Special	1	Coring tube, AISI 304 stainless steel, <b>6,0 m</b> O.D./I.D. $\varnothing 104/\varnothing 99$ mm.	33 kg		
13.802A	1	Coring tube, transparent PVC, <b>1,2 m</b> O.D./I.D. $\varnothing 110/\varnothing 99$ mm.	3,3 Kg		
13.802	1	Coring tube, transparent PVC, <b>2,2 m</b> O.D./I.D. $\varnothing 110/\varnothing 99$ mm.	6 Kg		
13.804	1	Coring tube, transparent PVC, <b>4,2 m</b> O.D./I.D. $\varnothing 110/\varnothing 99$ mm.	11 Kg		
Special 1	1	Coring tube, transparent PVC, <b>6,0 m</b> O.D./I.D. $\varnothing 110/\varnothing 99$ mm.			
13.901	1	Tube detacher	3 Kg		
13.902	1	Drum with ratchet device & wire	6 Kg		
13.903	1	Piston rod for ejecting the sample	10 Kg		
13.904	1	2 trestles made of stainless steel			
13.905	1	Extra weights, (28 kg each),	84 kg		
	1	Wire (8) for 1,2 m tube			
	1	Wire (8) for 2,2 m tube			
	1	Wire (8) for 4,2 m tube			
	1	Wire (6) for releaser, 120 cm core tube			
	1	Wire (6) for releaser, 220 cm core tube			
	1	Wire (6) for releaser, 420 cm core tube			
	1	Kullenberg releaser			

Rev. December 12, 2006 – lkj

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