






KC Box Corer, 400 cm²
Model 80.400



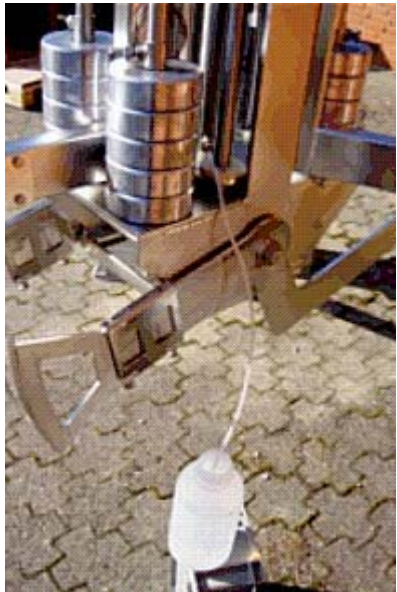
Manual





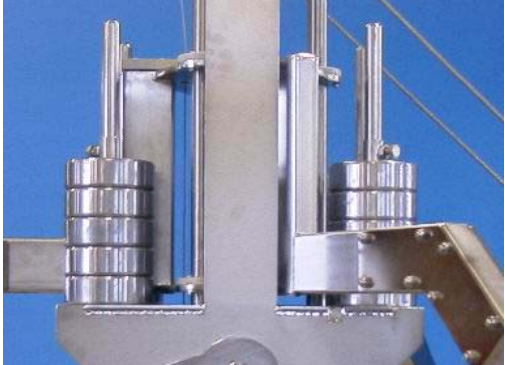
KC Denmark



Research Equipment





Limnology • Oceanography • Hydrobiology



	<p align="center">Manual for box corer 400 cm²</p>	<p align="center">Model no. 80.400</p>
	<p> Caution This box corer is very dangerous in unskilled hands and serious precautions must be taken to avoid accidents.</p> <p>The safety clamp must always be in the secured position and must only be released, when the box corer is outside the rail of the boat. Except for item #5 (water filling of hydraulic damper).</p> <p>Never walk under the box corer, when lifted up by the winch.</p> <p>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.</p>	 <p align="center">80.400 Box corer, 400 cm²</p>
<p>1</p>	<p> Caution</p> <p>Check that the safety clamp is placed correctly.</p>	
<p>2</p>	<p>Mount the 3 legs at the box corer before removing it from the transport frame.</p>	

3	<p>The upper part of the box corer now has to be hitched on the lifting hook from the winch.</p>	
4	<p>Hold the release clamp in position by hand while the box corer is lifted 2-3 cm until the main wire is taut and then take the box corer out of the transport frame.</p> <p>Remove the box corer from the transport frame and place it on the ground. Remove the sample tube from the box corer.</p>	
<p>Water filling of the hydraulic damper.</p>		
5	<p>First remove the 400 cm² sample tube. Connect the 1-meter plastic tube to the lower hose union and lower the other end into a water filled plastic bottle. Mount the crane hook to the upper part of the box corer rack.</p> <p> Caution</p> <p>Remove the safety clamp. <u>Take serious care to avoid release of the box corer, as it might cause serious damage to people or part of the body.</u></p> <p>Move the box corer rack down and up until no more bubbles pass out of the plastic tube. The damper is now ready.</p>	






	 Caution Remember to mount the safety clamp.	
Mounting of the sample tube		
6	Place the sample tube in the 2 guiding grooves, press it into its final position and mount the lock clamps.	
7	Mount the outer shovel plate and lock it to the 2 shovel arms by means of the 2 lock fittings	
8	Press the outer shovel arms into horizontal position.	
9	Place the necessary number of weights at the weight station and secure them in position.	

10	Place the snap hook on the lid of the sample tube and tighten the thin wire so the lid is open.	
11	The upper part of the box corer now has to be hitched on the lifting hook from the winch.	
	Brief characteristic of the function:	
	<p>While the box corer is lowered into the water, there is a full flow through the sample tube in order to obtain an undisturbed sample.</p> <p>After landing on the seabed and penetration has taken place, an automatic now-load mechanism will release the spade formed closing grab and by withdrawing of the main wire the closing grab will be pressed in position beneath the sample tube by 2 pcs of released steel wire. The box corer with its secured sample is now lifted out of the seabed.</p>	

Taking out the sample:		
13	 <p>Caution</p> <p>Before the Box Corer is landed on deck, place the safety clamp in its position and mount the upper-part again.</p>	
14	<p>Press the inner shovel into its position between the sample tube and the outer shovel and fasten it by means of its 2 snap-lock fittings.</p>	 
15	<p>Remove the snap hook from the lid of the sample tube and remove the lock clamps.</p>	

16	<p>Push the outer shovel arms into horizontal position. Place the transport carriage in position under the core and fasten the locks.</p>	
16		
	<p>The sample tube is now ready for transportation.</p>	
17	<p>When your work has been finished, the saltwater in the hydraulic cylinder has to be replaced thoroughly with fresh water.</p>	
	<p> Caution</p> <p>Always remember to mount the safety clamp during transport or work with the box corer.</p>	

Spare parts for 80.400 box corer

Order no.	Pcs.	Product	Net. weight		
80.401	1	Sample tube, 400 cm ² , AISI 316 stainless steel			
80.402	1	Sample tube, 400 cm ² (Polycarbonate)			
80.403	1	Small carriage for sample tube transport			
80.404	1	Transport frame mounted on a wood container			
80.405	1	Special sample tube, 400 cm ² , with removable front plate. AISI 316 stainless steel			
80.406	1	Hydraulic damper mounted on box rack			
80.407	1	Lead weight, 5 kg, each			
80.408	1	Inner shovel for 400 cm ²			
80.409	1	Safety clamp			

Rev. February2, 2005 - lkj

KC **Denmark**

Research Equipment
Limnology • Oceanography • Hydrobiology

E-mail: kc@kc-denmark.dk website: <http://www.kc-denmark.dk/>
 Holmbladsvej 19 – DK-8600 Silkeborg – Denmark - Tel. +45 86 82 83 47 – Fax +45 86 82 49 50
 Bank: Sydbank – S.W.I.F.T. SYBKDK22 IBAN DK5070460000104832 or
 Bank: Danske Bank – S.W.I.F.T. DABADKKK IBAN6730003462779860
 CVR no. DK 86 16 15 16