



Small Free Fall Corer
Model 13.570

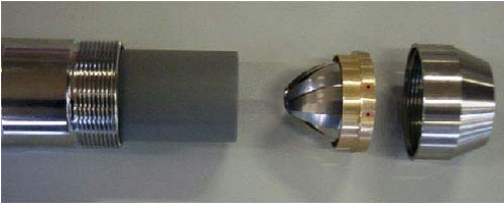
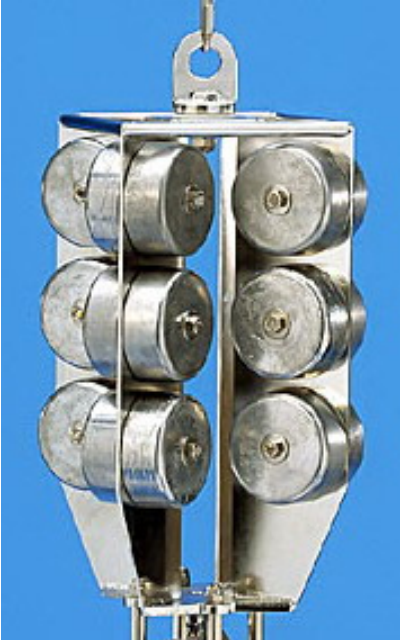

Manual

KC Denmark



Research Equipment

Limnology • Oceanography • Hydrobiology

	<p align="center">Manual for Small Free Fall Corer</p>	<p align="center">Model no. 13.570</p>
	<div data-bbox="225 656 343 786" data-label="Image"> </div> <p data-bbox="225 864 922 1055"> 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>	<div data-bbox="1015 277 1398 1431" data-label="Image"> </div>
	<p align="center">Preparing the free fall corer</p>	
<p align="center">1</p>	<p data-bbox="225 1682 911 1832"> Place the upper part of the corer horizontally and insert the stainless steel tube in the upper part. Fasten the tube by turning the handle clockwise. </p>	<div data-bbox="1007 1603 1406 1908" data-label="Image"> </div>

<p>2</p>	<p>Insert the internal PVC liner and the orange peel system as shown; both parts are secured by screwing the carver part tight.</p> <p>When the upper layer of the sediment must remain totally undisturbed, you can leave out the liner and the orange peel system.</p> <p>If you intend to use the liner without the orange peel system you must insert a steering ring (13.527) to centre the liner in the tube.</p>	
<p>3</p>	<p>Adjust the number of lead weights for your purpose and secure all bolts. Always use the same qty. on each fin to keep the balance of the corer.</p> <p>Room for a maximum of 24 pcs lead weights, each 2 kg.</p>	
<p>4</p>	<p>Ensure the lid will close firmly to the top of the tube and no sediment will disturb the closing function.</p>	





5	<p>Check out the wire system has been secured and fastened to the top of the corer.</p> <p>The Gravity Corer is now ready for lowering into the sea.</p>	
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Removing the sample		
6	<p>Place the Gravity Corer on deck and dismount the carver and the orange peel system. The internal PVC liner can be taken out.</p> <p>The sample in the liner can now be removed by use of the piston rod or sealed by rubber bungs in the tube ends for later research.</p>	
7	<p>The fraction tray can be used if you want to slice the sample.</p>	
Maintenance		
8	<p>Before storing the free fall corer, the tube and carver, etc., must be disassembled and all parts must be rinsed with fresh water.</p>	





Order no.	Pcs.	Product	Net. weight		
13.570	1	<p>1 pc small free fall corer consists of: (Shown with 24 pcs 2 kg weights). (Optional).</p> <ul style="list-style-type: none"> • 1 pc corer body • 1 pc 1000 mm corer tube • 2 pc lead weight, 7 kg/ea • 1 pc orange peel closing system • 1 pc carver • 1 pc PVC internal liner • Total height without corer tube: 760 mm • Max. weight: Up to 86 kg by adding more weights (optional). 	25 kg		

Other parts recommended

Order no.	Pcs.	Product	Net. weight		
13.421	1	ø60 x ø53 x 1000 mm stainless steel corer tube	6,2 kg		
13.421 A	1	ø60 x ø53 x 1500 mm stainless steel corer tube	9,3 kg		
13.421 B	1	ø60 x ø53 x 2000 mm stainless steel corer tube	12,4 kg		
13.523	1	Lead weight, 2 kg. Max. mounting: 24 pcs.	2 kg each		
13.524	1	Orange peel closing system. Prevents the sample from exiting. To be fastened with carver 13.525. The system will also centre the internal liner.	0,2 kg		
13.525	1	Carver (Cutting Edge). Protects the tube during the penetration. AISI 316 stainless steel.	0,2 kg		
13.426	1	Internal PP liner, (Polypropylene), ø50 x ø46 x 995 mm ,	0,3 kg each		
13.426 A	1	Internal PP liner, (Polypropylene), ø50 x ø46 x 1495 mm ,	0,45 kg each		
13.426 B	1	Internal PP liner, (Polypropylene), ø50 x ø46 x 1995 mm ,	0,6 kg		
13.427	1	Internal PMMA acrylic liner, ø50 x ø46 x 995 mm	0,3 kg each		

13.427 A	1	Internal PMMA acrylic liner, ø50 x ø46 x 1495 mm	0,45 kg each		
13.427 B	1	Internal PMMA acrylic liner, ø50 x ø46 x 1995 mm	0,6 kg each		
13.527	1	Steering ring for PVC and PMMA acrylic liners. The ring will centre the liner in the stainless steel tube, and must be fastened with carver 13.525.	0,1 kg		
13.528	1	Rubber bung for PVC and PMMA acrylic liners.	0,1 kg		

Ejecting the sample from acrylic or PP liners

13.013	1	Adjustable piston rod, length 115 cm , with silicone packing	1,0 kg		
13.015	1	Adjustable piston rod, length 165 cm , with silicone packing	1,6 kg		
13.017	1	Adjustable piston rod, length 215 cm , with silicone packing	2,0 kg		
13.531	1	Fraction tray for ejected sample, for ø50/ø46 mm acrylic or PP tube			

Spare parts

Order no.	Pcs.	Product	Net. weight		
13.522	1	1 pc lead weight, 7 kg	7 kg		
13.523	1	Lead weight, 2 kg. Max. mounting: 24 pcs.	2 kg each		
13.529	1	Unbrako bolt, M8 x 70 mm + nut. AISI 316 stainless steel			

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