

Small Free Fall Corer
Model 13.570

Manual

KC Denmark A/S

Research Equipment
Limnology • Oceanography • Hydrobiology

	Manual for Small Free Fall Corer	Model no. 13.570
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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 or wrong operation.

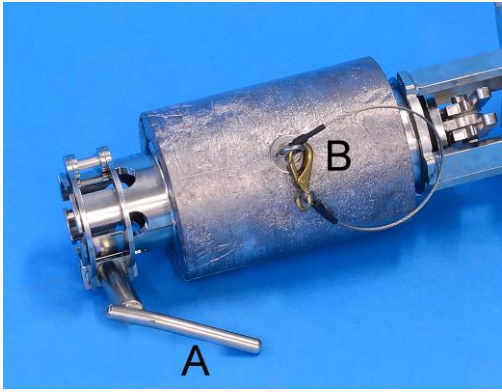
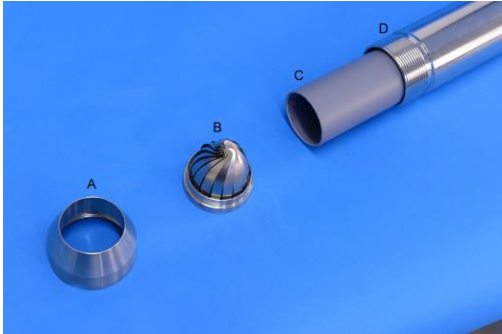





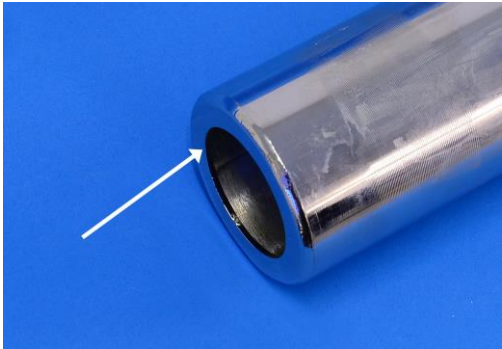

	Preparing the free fall corer	
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Place the upper part of the corer horizontally and insert the stainless steel tube in the upper part.
Attach the snap hook to the ring at end of the sample tube.



2	Fasten the tube by turning the handle "A" clockwise.	
3	If the upper layer of the sediment must remain undisturbed, you can leave out the liner and the orange peel system.	
4	<p>In order to prevent the sample from exiting, you can add the orange peel closing system. It consist of the following parts:</p> <ul style="list-style-type: none"> A - Carver B - Orange Peel C - Liner 4 - Steel tube 	
5	Insert the orange peel into the liner.	
6	The orange peel is located into the liner.	

7	<p>Fasten the carver by hand to secure the orange peel.</p>	
8	<p>When sampling half-hard or clayey sediments, attach the carver and you can leave out the orange peel system.</p> <p>You can use the steel tube with no liner for sampling, but due to the steel tube's locking ring at the top, see photo, you cannot use the piston rod for ejecting the sample.</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>	
9	<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>The corer has room for a maximum of 24 pcs lead weights, each 2 kg.</p>	


10	<p>Ensure the lid will close firmly to the top of the tube and no sediment will disturb the closing function.</p>	
11	<p>Lower the free fall corer at a reasonable speed to take the sample.</p>	
<p>Removing the sample</p>		
12	<p>After raising the corer, dismount the carver and the orange peel system. Take out the internal PVC liner.</p> <p>For later analysis, you can secure the samples with rubber bungs or caps at the tube's end(s).</p> <p>For ejecting the sample into smaller parts, adjust the small crossbar accordingly.</p>	
13	<p>Using the fraction tray demands that the sample tube is positioned in vertical position. Add the fraction tray on top of the tube and secure with the wing nut on the black part of the tray.</p> <p>The small plate can slice off the visible sample.</p>	
<p>Maintenance</p>		
14	<p>Before storing the free fall corer, the tube and carver, etc., disassemble and all parts and rinse with fresh water.</p>	


Order no.	Qty.	Product		Prices - Euro
13.570	1	<p>Small free fall corer (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 polypropylene (PP) internal liner • Quick change system • Integrated handles at top of the rack • Total height without corer tube: 760 mm • Max. weight with 1 m tube: Up to 86 kg, by adding more lead weights (optional) • Max. weight with 2 m tube: Up to 93 kg, by adding more lead weights (optional) • Weight: 38 kg 		

Other parts recommended


Order no.	Qty.	Product		Prices - Euro
13.421	1	<p>Corer tube</p> <ul style="list-style-type: none"> • AISI 316 stainless steel • Ø60 x Ø53 x 1000 mm • Weight: 6,2 kg 		
13.421 A	1	<p>Corer tube</p> <ul style="list-style-type: none"> • AISI 316 stainless steel tube • Ø60 x Ø53 x 1500 mm • Weight: 9,3 kg 		
13.421 B	1	<p>Corer tube</p> <ul style="list-style-type: none"> • AISI 316 stainless steel • Ø60 x Ø53 x 2000 mm • Weight 12,4 kg 		
13.523	1	<p>Lead weight</p> <ul style="list-style-type: none"> • Max. mounting: 24 pcs. • Weight: 2 kg 		


13.524	1	<p>Orange peel closing system</p> <ul style="list-style-type: none"> • AISI 316 stainless steel • Prevents the sample from exiting • To be fastened with carver 13.525 • The system will also centre the internal liner • Weight: 0,2 kg 		
13.525	1	<p>Carver (Cutting Edge)</p> <ul style="list-style-type: none"> • Protects the tube during the penetration • AISI 316 stainless steel • Weight: 0,2 kg 		
13.426	1	<p>Internal PP liner</p> <ul style="list-style-type: none"> • Polypropylene • Ø50 x Ø46 x 995 mm • Weight 0,3 kg 		
13.426 A	1	<p>Internal PP liner</p> <ul style="list-style-type: none"> • Polypropylene • Ø50 x Ø46 x 1495 mm • Weight: 0,45 kg 		
13.426 B	1	<p>Internal PP liner</p> <ul style="list-style-type: none"> • Polypropylene • Ø50 x Ø46 x 1995 mm • Weight: 0,6 kg 		
13.427	1	<p>Internal PMMA acrylic liner</p> <ul style="list-style-type: none"> • Acrylic • Ø50 x Ø46 x 995 mm • Weight: 0,3 kg 		
13.427 A	1	<p>Internal PMMA acrylic liner</p> <ul style="list-style-type: none"> • Acrylic • Ø50 x Ø46 x 1495 mm • Weight: 0,45 kg 		
13.427 B	1	<p>Internal PMMA acrylic liner</p> <ul style="list-style-type: none"> • Acrylic • Ø50 x Ø46 x 1995 mm • Weight: 0,6 kg 		


13.527	1	Steering ring <ul style="list-style-type: none"> For polypropylene and PMMA acrylic liners AISI 316 stainless steel The ring will centre the liner in the stainless steel tube, and must be fastened with carver 13.525 Weight: 0,1 kg 		
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13.528	1	Rubber bung <ul style="list-style-type: none"> For polypropylene and PMMA acrylic liners Weight: 0,1 kg 		
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Ejecting the sample from acrylic or polypropylene liners


13.013	1	Adjustable piston rod <ul style="list-style-type: none"> Length: 115 cm Silicone packing AISI 316 stainless steel Weight: 1 kg 		
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13.015	1	Adjustable piston rod <ul style="list-style-type: none"> Length: 165 cm Silicone packing AISI 316 stainless steel Weight: 1,6 kg 		
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13.017	1	Adjustable piston rod <ul style="list-style-type: none"> Length: 215 cm Silicone packing AISI 316 stainless steel Weight: 2,0 kg 		
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13.531	1	Fraction tray <ul style="list-style-type: none"> For ejected sample Fits for Ø50/Ø46 mm acrylic or PP tube 		
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Spare parts

Order no.	Qty.	Product		Prices – Euro
13.522	1	Lead weight <ul style="list-style-type: none"> Weight: 7 kg Standard delivery comes with 2 pcs of weights 		
13.529	1	Unbrako bolt <ul style="list-style-type: none"> For 13.522 lead weight M8 x 70 mm + nut AISI 316 stainless steel 		

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