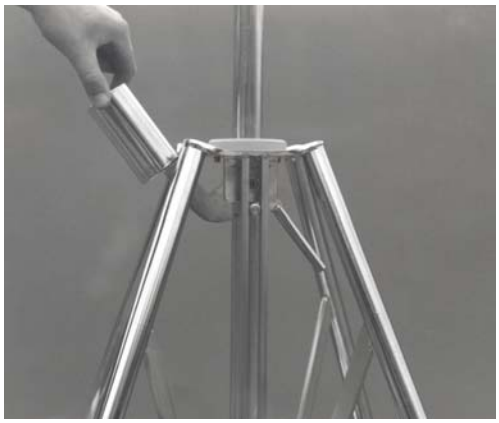
KC Haps
Model 50.000

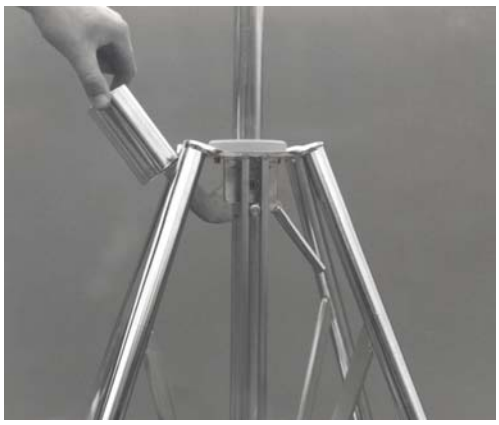
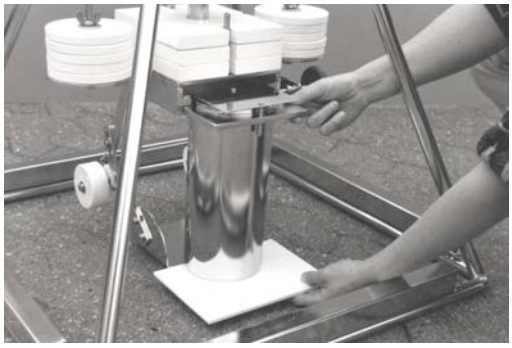
Manual

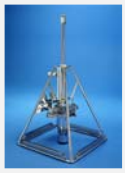
KC Denmark

Research Equipment
Limnology • Oceanography • Hydrobiology

	Manual for Haps	Model no. 50.000
	Caution The Haps 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.	
	Preparing the Haps	
1	Caution **IMPORTANT:** Be sure the automatic releaser is in lock position (lock grip in function). Max. Operating depth is 200 m to avoid collapse of the releaser. You can extend the operating depth to full oceanographic depth (6000 m) by removal of the automatic releaser. When the Haps have been raised from the sea, it must remain on the winch and the sample tube must be removed **before lowering to the deck**. Otherwise the Haps will sink to the deck and prevent removal of the sample tube.	

2	Place the bucket arm in locked position.	
3	Insert the sample tube.	
4	Mount the necessary amount of lead weights you need for penetrating the seabed.	

5	When the Haps have been lowered from the sea, be sure the automatic releaser is in lock position. (Lock grip in function). If the releaser has been removed, the Haps must remain on the winch, see note #1.	
6	When removing the sample tube, a thin plate is placed under the sample.	
7	Remove the sample by slicing. The sample corer is inserted at top and each time you turn the handle 1 revolution, the sample will be released 5 mm, ready for slicing.	

Content of standard delivery					
50.000	1	Haps, frame supported bottom corer complete, consisting of: 1 pc main rack, 4 pcs 10 kg lead weights (50.400). 4 pcs 5 kg lead weights. (50.200). 4 pcs 2 kg lead weights. (50.300). 1 pc non-return flap. (50.500) 1 pc sample tube, AISI 316 stainless steel. (50.600).	108 kg		
Other parts recommended					
Order no.	Pcs.	Product	Net. weight		
50.100	10	Lead weight, 2 kg, for Haps, ø150 x ø36 x 15 mm. For mounting on top of the vertical ø35 mm rod.	2 kg each		
50.200	1	Lead weight, 5 kg, for Haps, 200 x 100 x 25 mm. For mounting on the platform.	5 kg each		
50.300	20	Lead weight, 2 kg, for Haps, ø150 x ø13 x 15 mm. For mounting on the platform.	2 kg each		
50.400	4	10 kg lead weight for Haps, 540 x 40 x 40 mm. For mounting on the bottom main frame.	10 kg each		
50.500	1	Non-return flap			
50.600	1	Sample tube, AISI 316 stainless steel. Length 315 mm, O.D./I.D. ø140/ø136 mm, sample area 145 cm². Sample volume 4,5 litre.	3,5 kg		

50.700	1	Sample tube, polycarbonate. Length 315 mm, O.D./I.D. ø133/ø127 mm, sample area 127 cm². Sample volume 4,0 litre.	0,7 kg		
50.800	1	Sample ejection aggregate. Sample ejection aggregate The sample corer is inserted at top and each time you turn the handle 1 revolution, the sample will be released 5 mm, ready for slicing.	10 kg		

Rev. March 23, 2005 – lkj

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