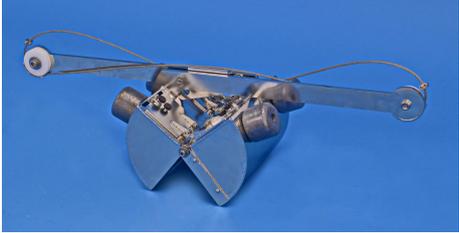


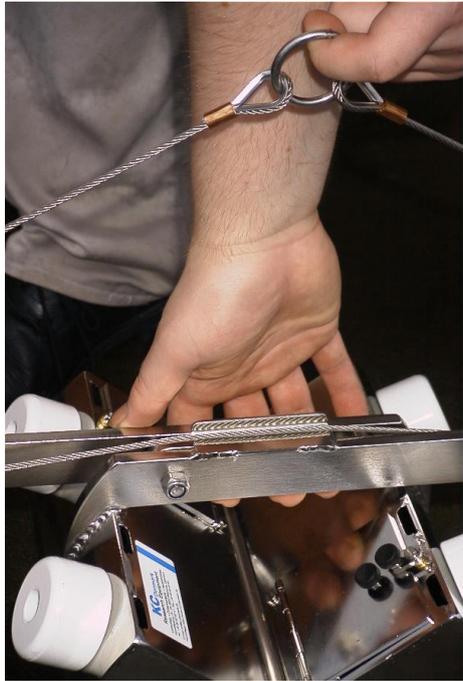
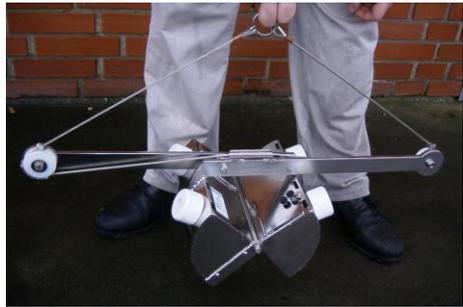
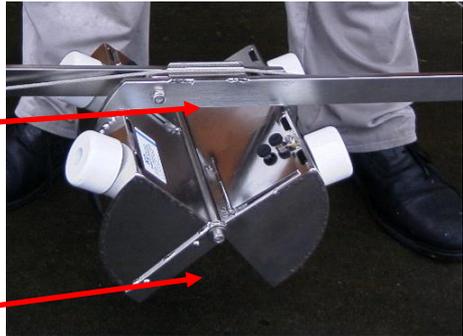
12.110
Van Veen Grab

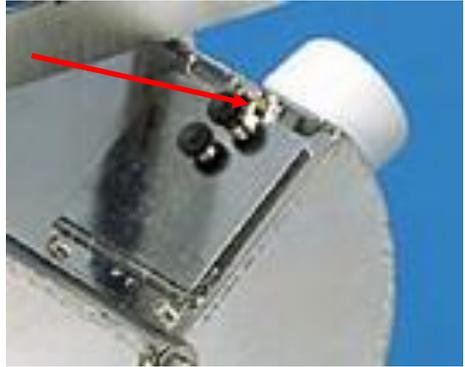
Manual

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	<p align="center">Manual for Van Veen grab 250 cm²</p>	<p align="center">Model no. 12.110</p>
	<p> Caution This Van Veen grab is very dangerous in unskilled hands and you must take serious precautions to avoid accidents.</p> <p>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.</p>	
	<p>Preparation:</p>	
<p>1</p>	<p>Standard delivery includes 4 lead weights, each 1 kg. It is possible adding 4 more weights (requires longer bolts 6 x 80 mm). Use lock nuts so you do not lose the lead weights.</p>	
<p>2</p>	<p>Place the grab on a plain, stable surface. Force both arms down to horizontal position so the grab is open.</p> <p>Press the locking pawl upwards to lock the arms.</p> <p>For security remarks, please see item #4.</p>	

<p>3</p>	<p>Still lifting the pawl upwards, pull the wire tight as shown on the photo. The grab is now locked in this position.</p>	
<p>4</p>	<p>The grab is now ready for deployment. Attach the wire for deploying the grab to the eye of the wire.</p> <p> Caution</p> <p>Keep the wires on the grab straight to avoid an unintended release of the locking mechanism.</p>	
<p>5</p>	<p> Caution</p> <p>Handle the grab with care to prevent injury to personnel. Fingers and hands may be stuck at the arms and by the jaws.</p>	

Emptying the grab	
6	<p>The grab has 4 lids and turning the knob counter clockwise the appropriate lid can be open and you can take out a small sample without emptying the whole sediment sample.</p> <p>Empty the whole content of the grab by forcing the arms of the grab into horizontal position.</p> <p>Each time you handle the grab, take care to avoid any injury.</p>
	

Maintenance

All parts of the Van Veen grab can be rinsed using fresh water. We recommend regular cleaning with fresh water before storing the sampler. Turn all moveable parts during the rinsing to remove all the dirt.

Technical information

Materials:	
All metal parts:	AISI 316 stainless steel. Finish: Electro polish.
Wheels for wire:	Nylon PA 6.6
Weights:	Lead, 1 kg/ea. Support for 4 extra weights.
Sampling:	
Sample area:	250 cm ² (20 x 12,5 cm)
Sample volume:	3,14 L
Lids, 4 pcs:	Each 60 x 70 mm
Dimensions:	
Dimensions:	71 x 22 x 20 cm
Max. height, released position:	90 cm
Recommended wire for deployment:	
Recommended steel wire:	5-8 mm or polyester line 5-10 mm
Weight of grab:	
Weight with 4 lead weights:	10 kg
Weight with 4 extra lead weights:	14 kg
Operational depth:	
Full oceanographic depth	>6000 m (no limits)

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