

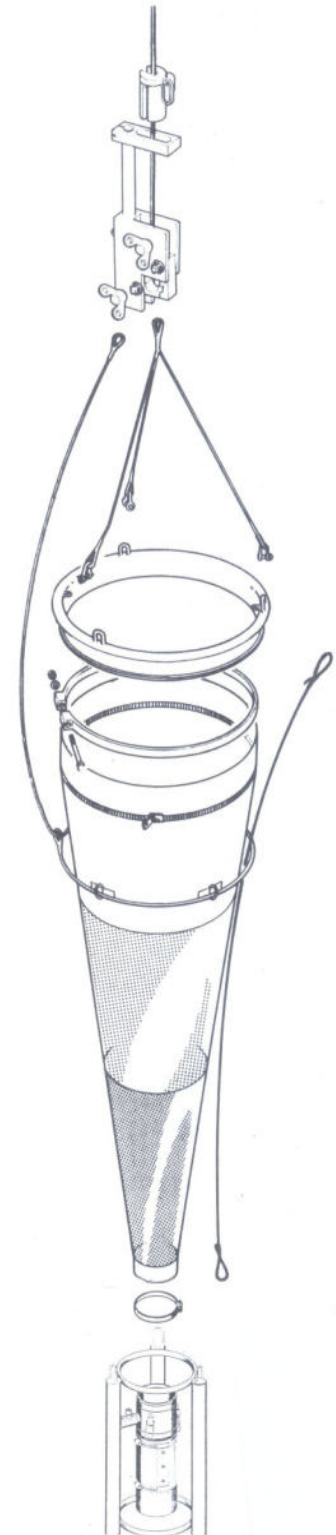
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Nansen Closing Net

438 505 Nansen Closing Net

1. Messenger-operated closing mechanism, including messenger 800 g and closing rope
 2. Bridle of Nylon rope with thimble and shackle
 3. Net ring of stainless steel tubing with loops for bridle and bucket ropes. Diameter 70 cm. With Nylon webbing and zip fastener.
 4. Net Part, consisting of:
 - a) Canvas part with zip fastener and loops for the closing rope, length 100 cm
 - b) Net part of synthetic material, mesh 100 microns, length 100 cm
 - c) Net part of synthetic material, mesh 55 microns, length 100 cm
 5. Vertical Net Bucket consisting of:
 - a) Fixing Ring with overcentre fasteners
 - b) PVC Net Bucket with side windows covered with net gauze
 - c) Net Bucket Frame made of stainless steel for vertical operation, weight approx. 16 kg
- 438 507 Spare Net Part, as described under point 4.
438 975 Spare Vertical Net Bucket, as described under point 5.



Operation instruction

The following steps have to be carried out to prepare the Nansen Closing Net for an operation:

- Fix Nylon webbing at the net ring by using the long band clamp.
- Fix upper end of the net part to the zip fastener of the Nylon webbing.
- Put lower end of the net part on the fixing ring of the Vertical Net
- Bucket and fasten it fingertightly by using the short band clamp.
- Place plastic bolt of the fixing ring into the tube of the Net Bucket
- Frame until snap in.
- Connect Bucket Ropes to the loops of Net Ring and Net Bucket Frame.
- Make sure that the Bucket Ropes are not twisted and run straight from the Net Ring to the Net Bucket Frame.
- Stretch the net part by pulling at the Net Bucket Frame. The lengths of the Bucket Ropes should be adjusted with the grey plastic adjusting devices until the weight of the Net Bucket Frame is carried by the Bucket Ropes and **NOT BY THE NET PART**. On the other hand the Bucket Ropes should not be so short that the net bags have folds and thus the collected material cannot flow freely into the net bucket.
- Make sure that the Net Part is not twisted, otherwise the end of the Net Part must be turned at the Fixing Ring by hand until the seam of the Net Part runs straight from the Nylon webbing to the Net Bucket.
- Fasten short band clamp at the Fixing Ring.
- Fix Net Bucket at the Fixing Ring by using the overcentre fasteners.
- Connect Bridle to the loops of the Net Ring.

The following steps have to be carried out to prepare the Closing Mechanism for an operation:

- Remove security pin from the Closing Mechanism.
- Open snap hook of the Closing Mechanism by pressing the anvil downwards.
- Guide towing rope from top side through the slit of the anvil. Fix end-eye of the towing rope to the **UPPER** wing screw of the Closing Mechanism.
- Connect center-eye of the net's Bridle to the snap hook of the Closing Mechanism and close snap hook.
- Insert security pin into the boring inside the Closing Mechanism and secure it with the locking clip. Security pin and locking clip are only released directly before an operation.
- Connect Closing Rope to the **LOWER** wing screw of the Closing Mechanism.
- Make sure that the Closing Rope is completely released and does not contract the Net Part.

During an operation please care for the following:

- Security pin and locking clip of the Closing Mechanism are only released directly before an operation.
- During lowering the Nansen Closing Net the downcast speed should not exceed 0.5 meters per second.
- During lowering the Nansen Closing Net do not stop the winch to avoid contamination of the sample with material from wrong depths.
- During heaving the Nansen Closing Net the upcast speed should not exceed 0.5 meters per second.
- During heaving the Nansen Closing Net do not stop the winch to avoid loss of sample.
- To close the WP2 Net use the messenger (800g) which has been delivered with the Closing Mechanism. To open the messenger turn core of the messenger counter-clockwise. Place messenger at the towing rope and close it by turning the core of the messenger clockwise.