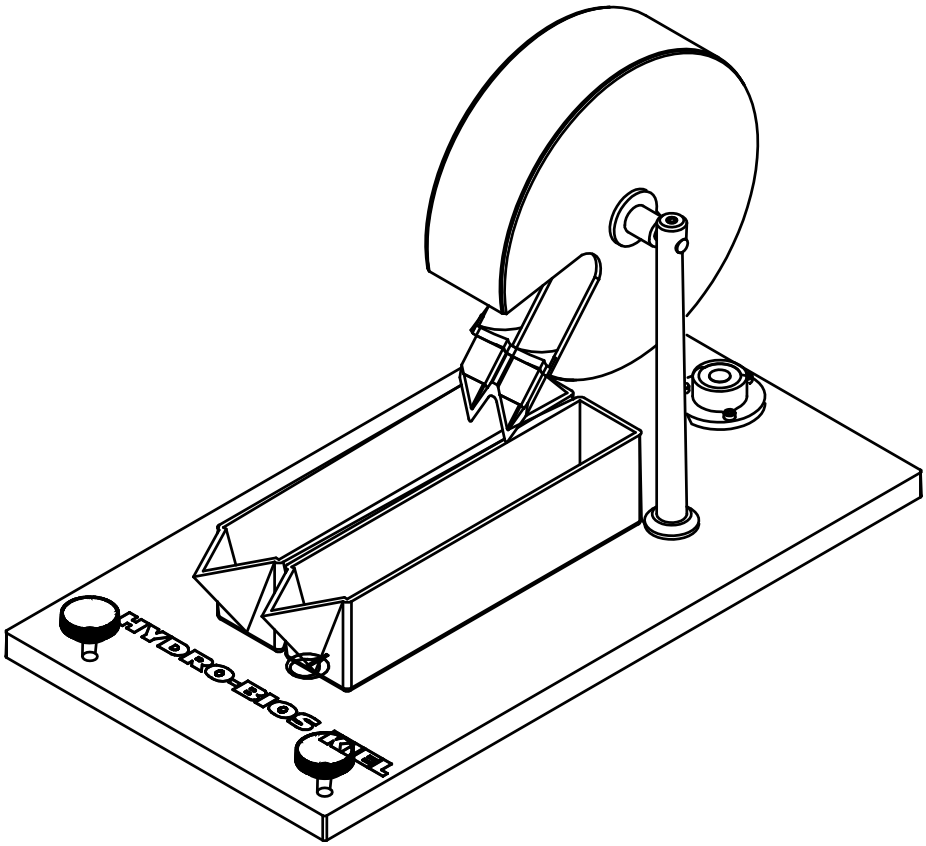


Folsom's Plankton Sample Divider

OPERATION MANUAL

Product ID 435 100

Edition 04/26

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NOTICE



Please read this manual carefully before operating or performing maintenance on the instrument. Pay special attention to all danger, warning and caution statements. Failure to do so could result in serious injury and/or damage to the instrument. Keep manual available at all times.

LAYOUT AND MEANING OF WARNINGS

All safety instructions found in this operation manual are composed in accordance with the following pattern (signal words):

DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to personal injury.
NOTICE may also indicate a situation which, if not avoided, may cause damage to equipment.

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GENERAL DESCRIPTION

Originally developed by Dr. Folsom of the Scripps Institute of Oceanography, this instrument provides a quick and precise method of dividing plankton samples so that accurate splitting of the sample is achieved. Simply repeat the operation until the desired amount is left.

The Folsom´s Plankton Sample Divider comes complete with a removable splitting wheel for samples up to 100 ml and two containers. The base plate is equipped with a water level bubble and two levelling screws for easy horizontal alignment.

STANDARD EQUIPMENT

1. 1 Transparent splitting wheel **F**
2. 2 Transparent containers **J**
3. 1 Base plate **C** with water level bubble **K**, two levelling screws **H** and two stay bolts **B** with axis **D**
4. Hexagon socket screw key 2 mm
5. Hexagon socket screw key 3 mm

MOUNTING INSTRUCTIONS

1. Remove countersunk screws **A** from both stay bolts **B**.
2. Place stay bolts at top side of the base plate **C** (centred to the borings with bottom side countersunk) and mount countersunk screws from bottom side. Do NOT fasten the countersunk screws yet.
3. Align the stay bolts in that way that the cross-holes on top end of the stay bolts are concentrically.
4. Insert the axle **D** into the cross-holes of both stay bolts.
5. Fasten the countersunk screws **A** on bottom side of the base plate. Use moderate force only. Tool: Hexagon socket screw key 3mm.
6. Withdraw axle **D** from one stay bolt until you can slip the following items on the axle:

   1 Acrylic spacer **E** - acrylic drum **F** (with discharge beak heading towards the levelling screws) – 1 acrylic spacer **E**
7. Re-insert the axle into the second stay bolt.
8. Fix axle with both set screws **G** (located on face side of the stay bolts). Use moderate force only. Tool: Hexagon socket screw key 2mm.

OPERATION

Place Folsom´s Plankton Sample Divider on a plane surface. Align the base plate **C** horizontally by adjusting the black knurled-head screws **H**.

Pour a measured volume of sample into the undivided section of splitting wheel. Rapidly rotate the acrylic drum back and forth about 120° a few times, then rotate the wheel further to pour all the sample into the two removable containers. The content of one container may be returned to the divider for further subdividing. As subdividing is repeated, more water may be added to the sample.

NOTICE

Do not use alcohol for cleaning acrylic parts!
For cleaning use distilled water and mild detergent.

FIG. 1: OVERVIEW NOMENCLATURE

