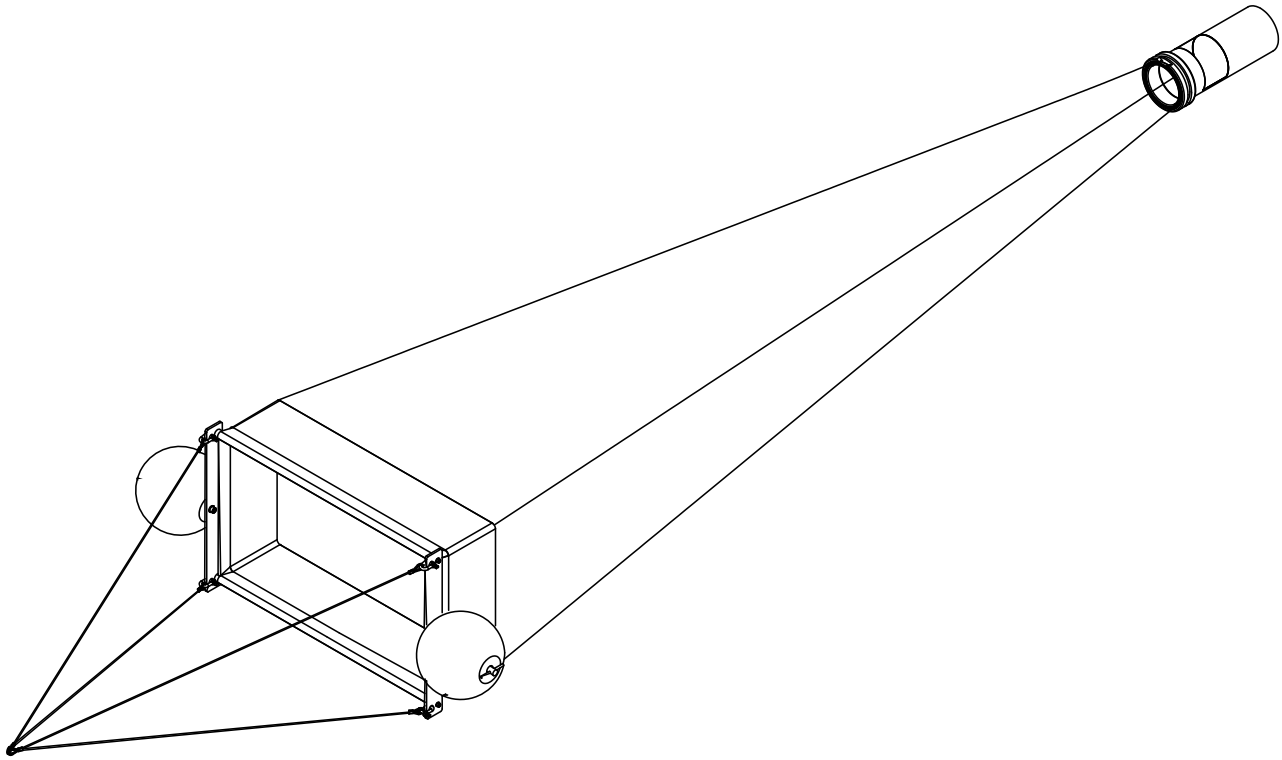


MICROPLASTICS NET

OPERATION MANUAL

Product ID 438 214

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GENERAL DESCRIPTION

The Microplastic Net with two lifting bodies is made for operation in inland waters, coastal areas and the open sea under calm conditions. The maximum speed is rated to 3 knots. Only a small boat is needed to operate it. Due to the very small size and the option to dismantle the lifting bodies it can easily be carried from one sampling spot to the other.

Plastic debris in the environment - a problem which is drawing more and more attention. One reason for this is that plastic will never really biologically degrade and disappear from our environment but become so called microplastic. Microplastics are small particles ranging from 1 µm to 5 mm.

Tons of those particles get into our natural waters and end up in our oceans. Up to now it is not yet fully understood what physical and chemical impacts microplastic is having on any kind of living organism.

The establishment of a reliable, verified and standardized method to quantify the amount of microplastic particles in the environment plays a key role to assess the consequences of plastic debris in aquatic ecosystems.

- Large variety of mesh sizes
- Light weight but robust
- Easy to handle

TECHNICAL DATA

Length:	300 cm
Width:	70 cm
Width incl. floating balls	112 cm
Height:	40 cm
Net opening area:	70 x 40 cm (0.028 m^2)
Weight on air:	12 kg
Material of frame:	stainless steel
Material of net bag:	MOnyl
Standard mesh size:	300 µm

STANDARD EQUIPMENT

1. 1 Metal frame
   with mouth opening 70 x 40 cm with 4 shackles
2. 1 Nylon webbing with zip fastener
3. 1 Net bag of synthetic material with zip fastener
   front opening 70 x 40 cm
   back opening Ø 11 cm
   length 260 cm
4. 1 Fixing ring for soft net bucket
5. 1 Soft net bucket
   with side window, covered with sieve gauze
6. 2 Floating bodies (balls)
7. 2 Mounting bars for floating bodies
8. 2 Washers Ø8.4 DIN 125
9. 2 Hexagon socket screws M8x20 DIN 912
10. 1 Hexagon socket screw key 5 mm
11. 1 Hexagon socket screw key 6 mm
12. 2 Bridles ca. 1 m
13. 4 shackles 6 mm

ASSEMBLY INSTRUCTION

The frame of the MICROPLASTIC NET is delivered pre-assembled. For operation the following steps have to be performed:

1. Mount the two mounting bars with the floating bodies onto the net frame using the provided screws.
2. Zip the net bag to the canvas part.
3. Fit the fixing ring for the soft net bucket to the end of the net bag.
4. Mount the soft net bucket to the fixing ring.
5. Fix the two bridles with the shackles to the metal frame.
6. Fix the bridles with the shackles across the short sides of the net frame.

Now the MICROPLASTIC NET is ready for deployment.

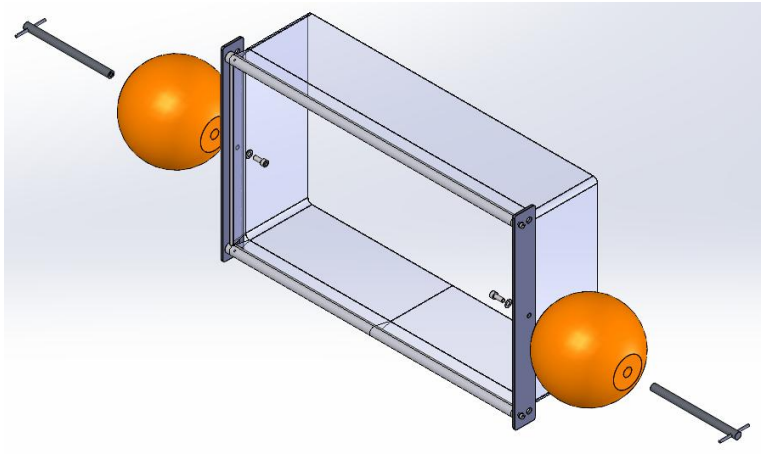


Fig. 1: pre-assembled frame with floating bodies

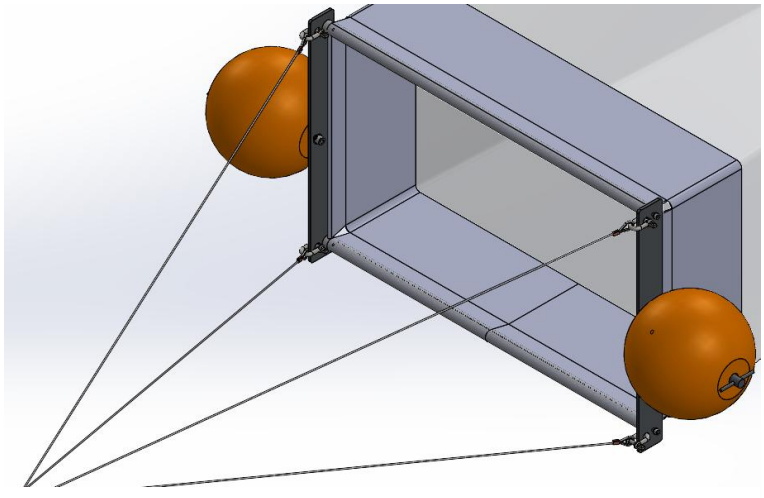


Fig. 2: fixing bridles and shackles to the metal frame