

# FLOATEX<sup>®</sup>



**BUOY TYPE MMB**

## **GENERAL**

### **Imballo**

When packing is foreseen (pallet, crate, cage, external protection such as protective film), the same shall be disposed and recycled properly in base of the type of material involved, as per existing regulations.

### **Handling**

The buoy must be handled as per indication given in our manual. Wrong handling could cause stress or breaking point of the buoy itself.

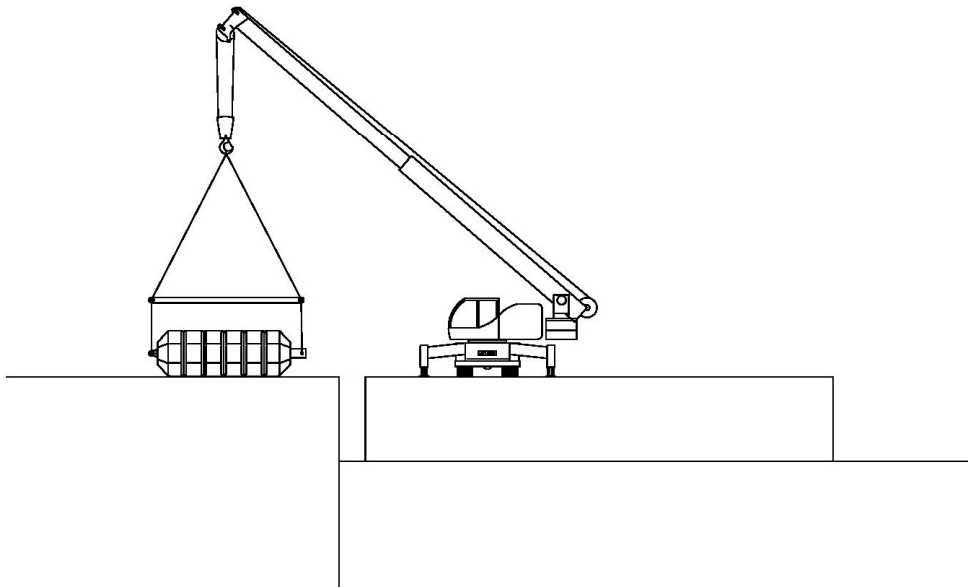
### **Buoy storage**

The buoy must be kept on a clean floor, without pebbles or objects which may damage the external shell of the buoy. As much as possible, buoy's dragging should be avoided on any surface. Positioning the buoy on a not suitable surface or a dragging of the same may cause problematics to the external shell, with the risk to compromise the quality of the products and affect the proper use and work of the same."

## MODULAR BUOY TYPE MMB 18

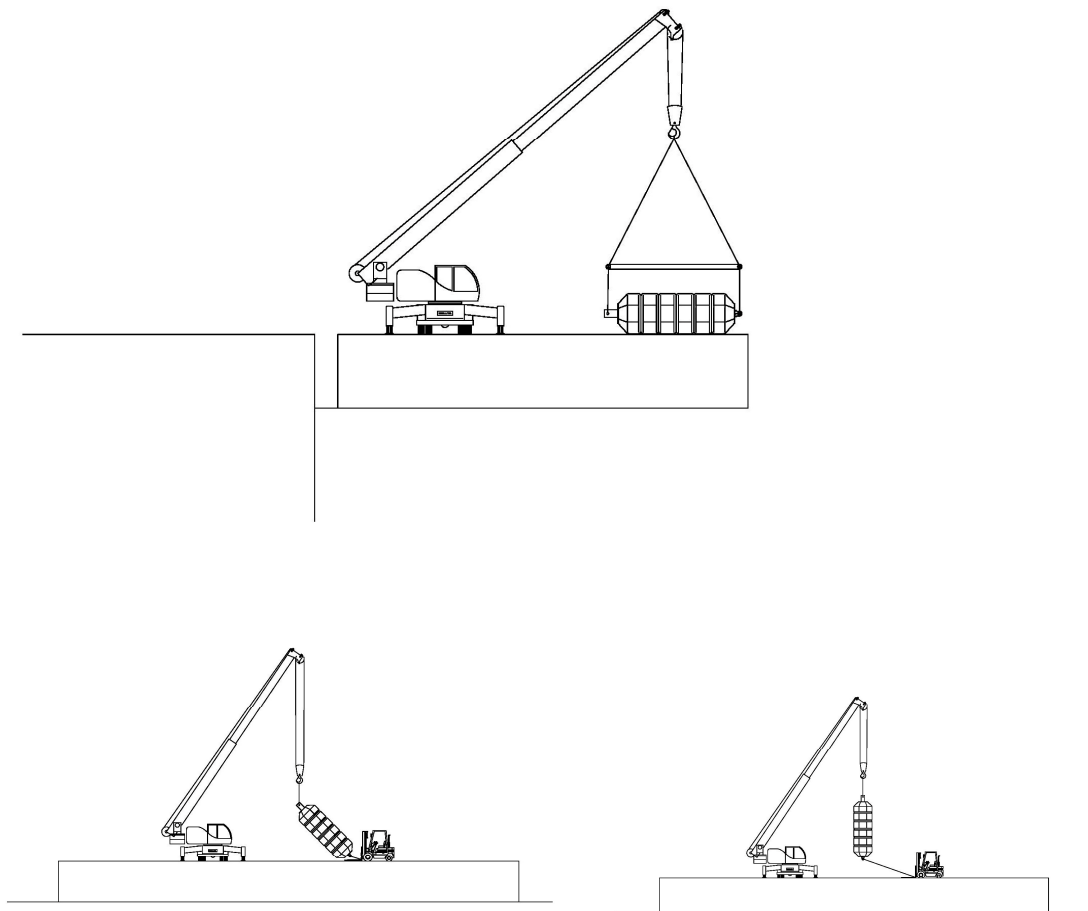
### Handling:

To handle the buoy we suggest to use a system which allows to lift the buoy directly to the two lifting points at each end of the buoy , or using a tie rod which keeps the two lifting ropes separated (as shown in the above picture) . It is not recommended to use only one lifting point. IF SPREADER BAR IS NOT AVAILABLE IS POSSIBLE LIFT WITH TWO DIFFERENT DEVICE,(2 CRANE, 2 FORK LIFT, 1 CRANE 1 FORK LIFT). THIS OPERATION REQUIRE SKILLED PEOPLE AND A GOOD COORDINATOR THAT CAN COMMUNICATE WITH TWO DIFFERENT OPERATOR.



### Erection:

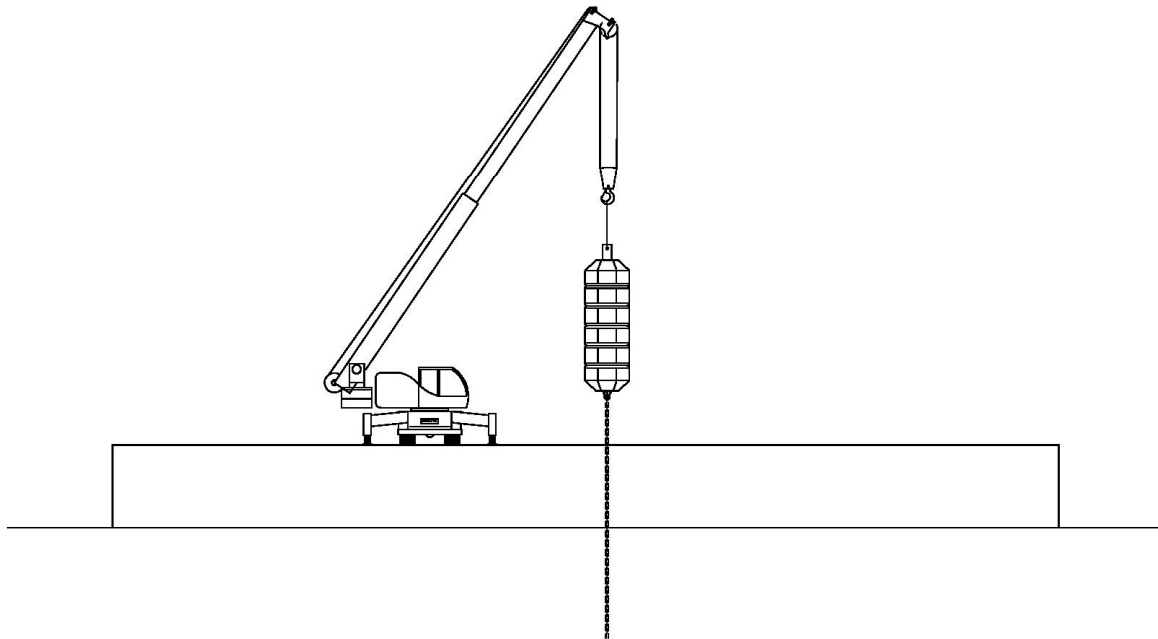
To erect the buoy, use two different lifting machines.  
We suggest the use of one crane and one forklift as shown below, the crane connected at the upper part of the buoy and the forklift connected at the bottom part.



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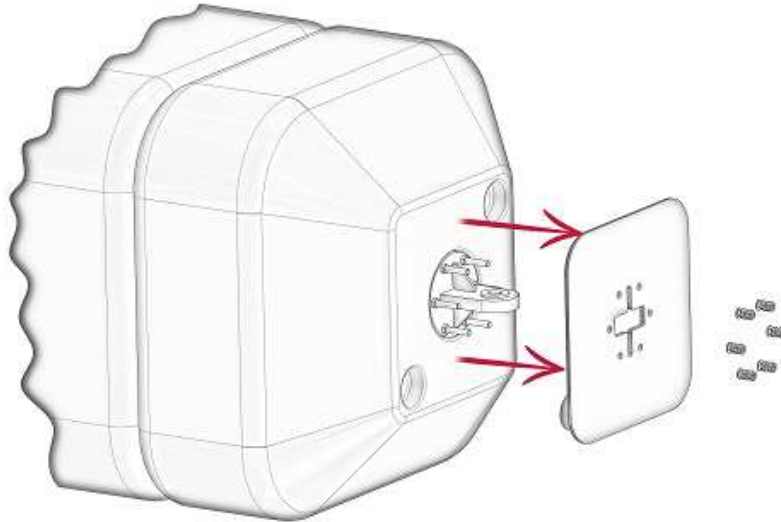
### Positioning:

Once the buoy is vertically positioned, connect it to the mooring system and very carefully drop it down as shown below.

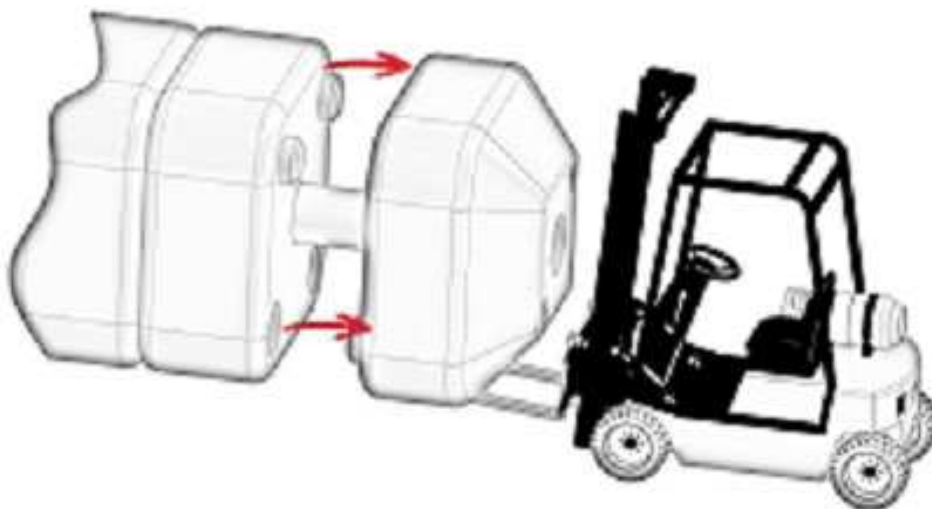


## HOW TO REMOVE A FLOAT:

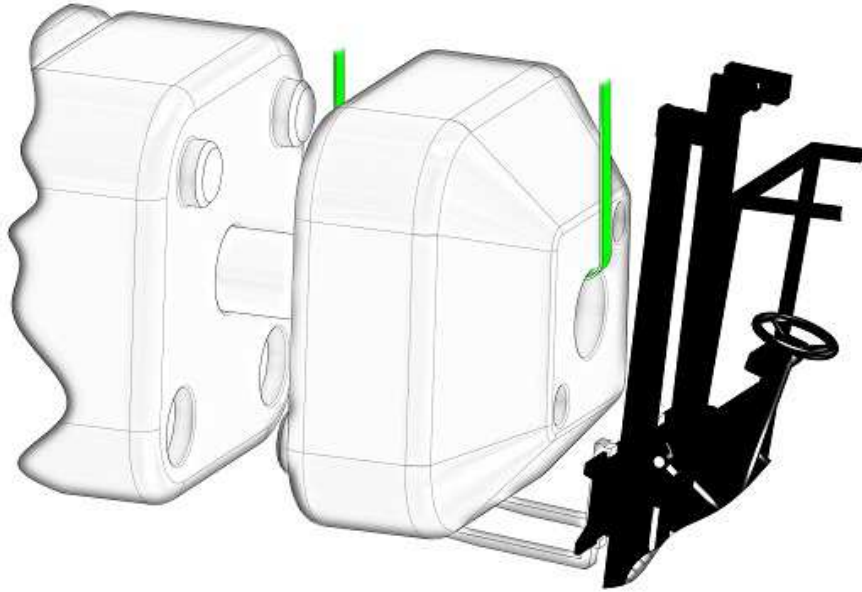
1. Remove bottom flange, unscrew 6 bolts M 24.



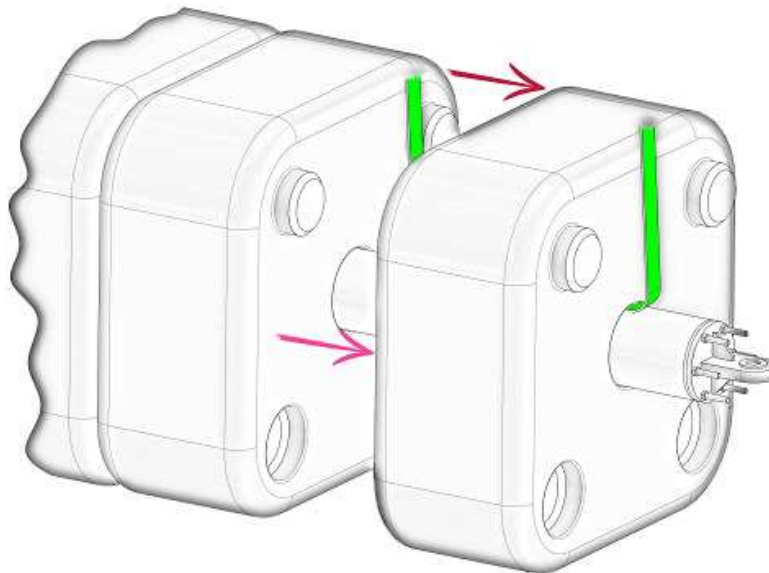
2. Lift last floating module and move away. Attention not damage plastic shell with fork lift. Drive carefully.



3. Keep plastic float in position with fork lift. Insert a lifting belt trough central pipe of float.



4. Now connect lifting belt to a crane or suitable fork lift and move floating module



## **MAINTENANCE FOR PLASTIC COMPONENTS ON FLOATEx BUOY**

Floatex plastic buoys don't need ordinary maintenance.

This type of buoy has been designed to avoid continuous maintenance as normally done on traditional steel buoys.

Polyethylene buoy body facilitate cleaning and detachment of sea flora and fauna sediments, extend cleaning operation time and simplify them also in water.

The times of intervention depends on the installation zone and typology of flora and fauna. For our experience in the Mediterranean Sea an annual control is required to avoid increase in weight and consequentially reduction of floating capacity, necessary to support sea meteorological conditions studied during the project time.

Divers can clean the float and pipe structure under water level with an iron brush or a trowel.

A pontoon can be used to clean the body of the buoy and the chain from sea level to the bottom, put the buoy in vertical position on the pontoon and tightening the chain without picking up the concrete sinker. Clean it with a high-pressure water pump, with trowel for the buoy body and iron brush for metal parts of the buoy and mooring system.

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## **REPAIRING INSTRUCTION FOR THE ROTATIONALLY MOULDED P.E. FLOATS**

If the external surface of the float presents cracks, the following operation must be effected:



1- Clean carefully the surface to be repaired.



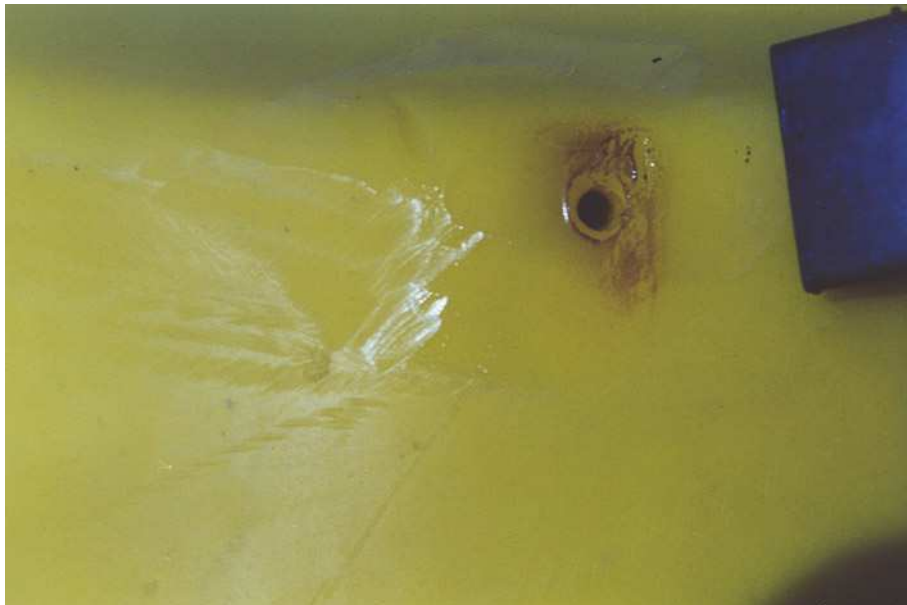
2- Wash with solvent and scrape with a knife or grinder the zone to be welded

3- Use welding material with identical characteristics.

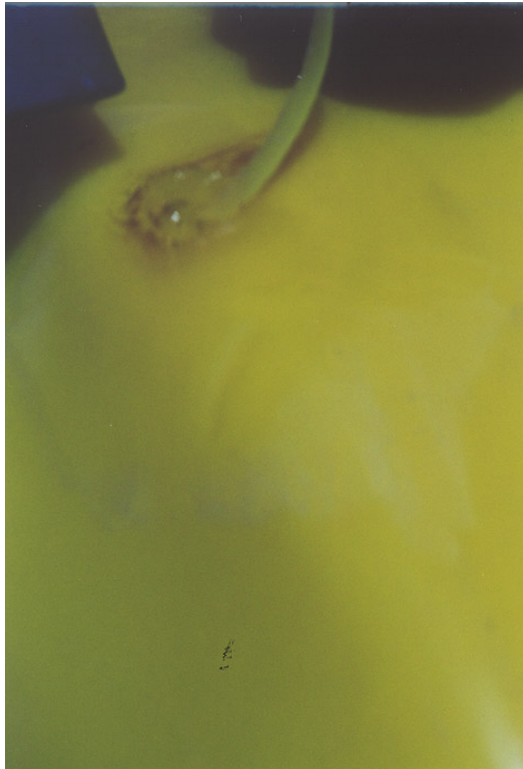
4- Cut the welding material rod, with diameter similar to the crack of float.



5- Heat with hot air welder, or a flame, the two surface to be jointed, and around the cracks.



6- Increase the temperature of surface until becomes plastic and translucent.



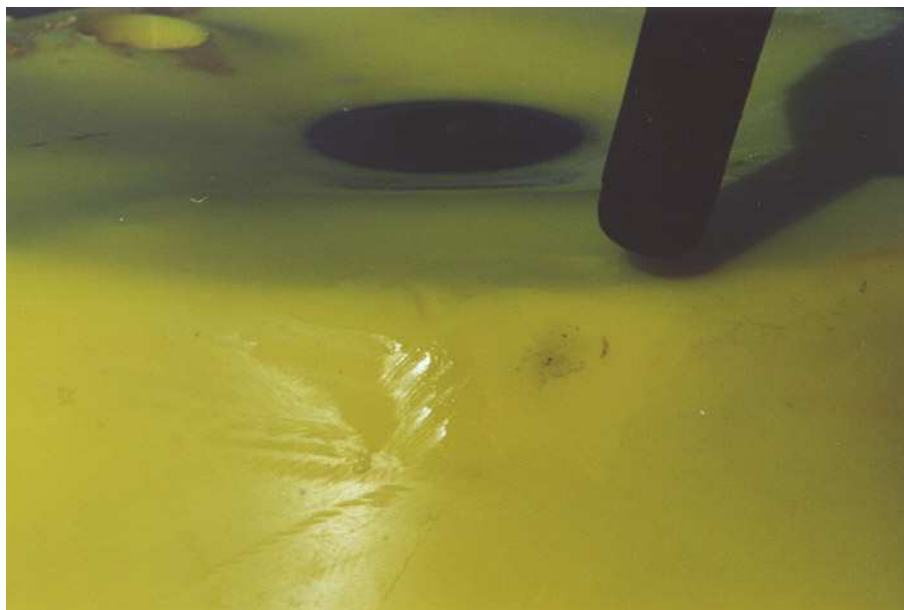
**7-**The welding melting between the 2 parts, a welding rod and then,(foto 5)using a little spatule, to obtain a perfect homogenizing of the added polyethylene with the polyethylene of the float.



**8-** Welded parts must be cooled keeping the parts pressed with the spatula, until the material exhaust the plastic phase.



**9-** When the surface is completely cooled, scrape off the welded part and check if there are no cracks caused by a quick cooling.



**10-** Heat the surface at plastic temperature to eliminate existing scratches.

**11-** If repaired part present cracks, repeat operation described in point 4 to 9.



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