

The float of our **EBM Elastomer Buoy series** is manufactured with solid closed-cell polyethylene foam sheet (no water absorption) and projected with a thick layer of coloured polyurethane elastomer. It is **virtually unsinkable**, even against a strong impact.

In order to reinforce the stability of the buoy, the superstructure and the tail or keel can be made from galvanized-steel, stainless-steel or marine aluminium, which grants it a great increasing its strength.

Their main advantages are:

- **Great elasticity of the float, highest resistance against impacts and damages.**
- **Capacity to maintain its original shape even against strong collisions.**
- **High stability and buoyancy.**
- **Great flexibility of sizes and dimensions**, without the need of a mould allowing a custom-made manufacturing.
- Easy modification of ballast weights, matching with **different chain weights and thus various water depths.**
- **Long service life** (over 25 years).



The float of our **RBM Rotomoulded Polyethylene Buoys** is made from high-quality virgin polyethylene and filled with closed-cell expanded polyurethane foam to avoid sinking in case of breaking. Depending on the diameter and volume, floats can be made up of several sections. Polyethylene includes the necessary pigment that provides the colour. UV filters guarantee a stable colour protection during its whole service life.

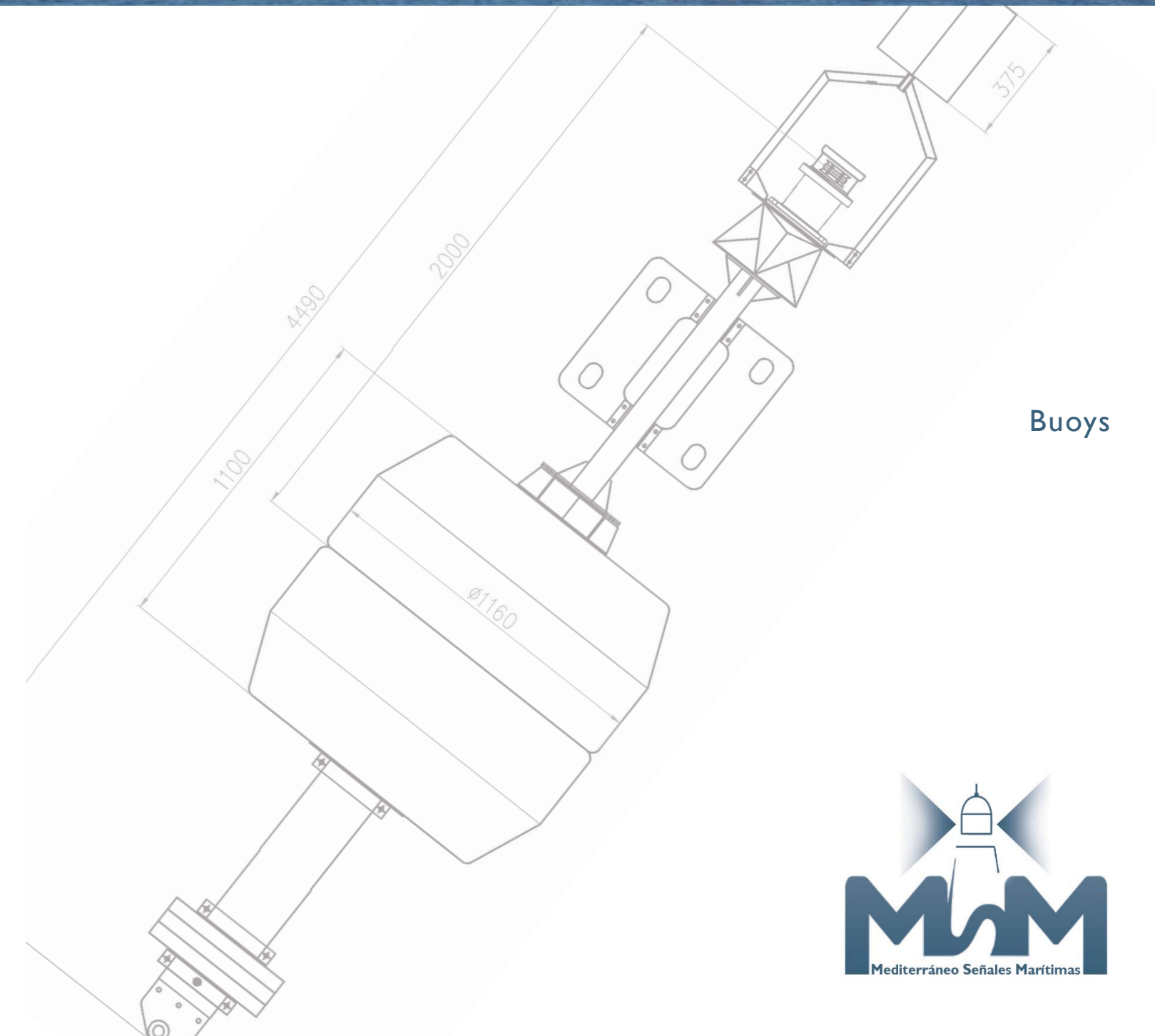
Metallic buoy parts (superstructure and tail) are made from hot-dip galvanized steel, and designed to provide a long service life under severe marine conditions. They can be customized under client's request, as well as to be manufactured from stainless-steel or marine aluminium. The **main advantage** of those buoys is their **low cost**, thanks to their economical raw material and their automatized manufacturing process with few workforce.



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**PBM Polyethylene buoys series** are characterized by their **complete manufacturing in high-quality rotomoulded virgin polyethylene**, regardless of its focal height.

The polyethylene hull is filled with closed-cell expanded polyurethane foam. Polyethylene includes the necessary pigment that provides the colour. UV filters guarantee a stable colour protection during their whole service life. **Reinforcements** are included from the floating line to the mooring eye. They are supplied with their corresponding ballast weights. The advantages of these buoys are their **low cost of acquisition and easy installation.**



In order to cover all our customer requirements, MSM designs and develops a great range of buoys of various materials. This brochure lists the different standard types and models available, in such a way that you may choose the most adequate option to your needs and/or obtain a guide in the selection of your future custom-made buoy.

In MSM, we have our own moulds available and use the most appropriate materials and process technologies for each product; either elastomer, polyethylene or metal (marine aluminium, stainless-steel or galvanized steel). Nowadays, thanks to their highest resistance to impacts and longest service life, our Elastomer Buoys are the most prized and appreciated ones at worldwide level.

In this document we gather all information you may need to make your choice, depending on the purpose and location as well as the marine conditions to which this aids to navigation will be exposed.

In MSM, we are specialized in manufacturing custom-made buoys according to your specifications. The production of our customized equipment is one of our most characteristic features.

Kindly do not hesitate to request any additional information or quotation you may wish.

(\* The data concerning buoy draft are related to buoys with tail. These same models are available with skirt for shallow waters or with special keel for rivers.



Type	Model	Diameter (m)	Focal height (m)	Draft (*) (m)	Referred depth (m)	Buoy total height (kg)	Max. chain rating (kg)	Indications
Elastomer and Metal Hybrid EBM range	EBM 06/08	0.6	1.7	2.00	5-20	320	200	Specially designed for a quick installation without the need of large logistic means, both in channels, ports and river waterways.
		0.8	1.7	2.00	5-25	370	300	
	EBM 10/12	1.0	1.7	1.50	5-10	250	250	To be used during work periods, hazard marking, as emergency buoys or in shallow waters.
		1.2	2.0	1.50	5-20	330	400	
	EBM 15/30	1.5	2.5	1.50	8-30	400	500	Particularly designed for both sheltered and open-sea waters, since they are available in diameters from 1.5 to 3 metres, able to hold heavy moorings.
		1.8	3.0	2.50	12-40	900	1,300	
		2.2	4.0	3.00	20-60	1,400	1,600	
		2.5	4.5	4.40	25-75	1,700	2,000	
	EBM-HV 22/30	2.2	3.0	3.00	20-60	1,300	1,600	Characterized by their high-visibility superstructure. They are indicated to be deployed in places where their day mark has to be recognised from a long distance, such as landfall buoys.
		2.5	4.5	4.40	25-75	1,900	2,000	
		3.0	6.0	5.20	35-150	2,800	3,000	
	EBM-N	0.8	1.7	2.29	5-25	370	300	Indicated for both sheltered and open-sea waters. Ideal for a quick installation, thus guaranteeing the correct beaconing of the wreck area.
		1.2	2.0	1.35	5-20	330	350	
		1.5	2.5	2.20	8-30	400	500	
1.8		3.0	2.76	12-40	900	1,300		
MBM 30	3.0	1.8	0.90	30-170	1,200	3,200	Designed for mooring big vessels, they can also be used for a wide range of applications such as off-shore prospecting platforms fixing, fuel hose holders, etc.	
Polyethylene and Metal Hybrid RBM range	RBM 12	1.2	2.0	1.50	5-20	280	350	Ideally used during work periods, hazard marking, as emergency buoys or in shallow waters.
	RBM 15/30	1.5	2.5	2.00	8-30	400	500	Designed for both sheltered and open-sea waters, since they are available in diameters from 1.5 to 3 metres.
		1.8	3.0	2.50	12-40	1,460	1,200	
		2.2	3.5	3.00	20-60	1,600	1,500	
		2.5	4.0	4.40	25-75	2,280	1,800	
	RBM-HV 22/30	3.0	6.0	5.20	35-150	2,750	2,700	Characterised by their high-visibility superstructure. They are indicated to be deployed in places where their day mark has to be recognised from a long distance, such as landfall buoys.
		2.2	3.0	3.00	20-60	1,700	1,400	
		2.5	4.0	4.40	25-75	2,580	1,800	
	RBM-ATV 25	2.5	4.0	3.00	25-75	2,150	1,800	Particularly indicated to be deployed in places with a high theft incidence.
	ABM	2.3	5.0	-	8-15	-	-	Suitable in shallow waters where the swinging radius is limited by heavy vessel traffic.
2.5		7.0	-	10-30	-	-		
NBM	0.4 to 0.8	-	-	-	-	-	For beach buoyage, leisure areas or sports channels.	
Polyethylene PBM range	PBM 08	0.8	1.2	0.80	3-15	60	75	Designed to be used during work periods, hazard marking, as emergency buoys or in shallow waters.
	PBM 15/25	1.5	2.0	1.00	5-20	410	350	For both sheltered and open-sea waters, characterised by their low maintenance.
		1.8	2.5	1.25	10-30	555	650	
		2.5	4.0	3.45	20-50	2,100	1,500	