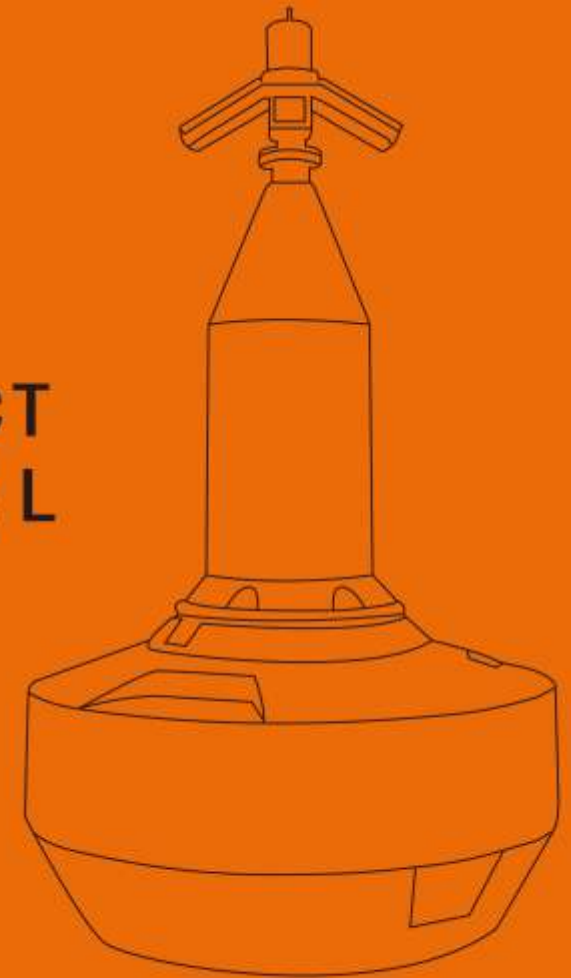


HYDROFLOAT

HELLENIC PRODUCT • ΠΛΩΤΕΣ ΕΞΕΔΡΕΣ • ΠΡΟΒΛΗΤΕΣ



PRODUCT MANUAL



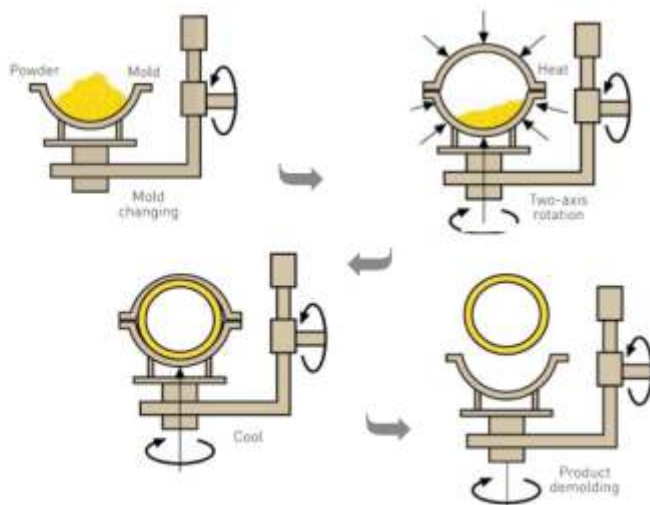
HYDROFLOAT
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ROTATIONAL MOULDING

Rotational Moulding is a process of forming hollow plastic products. Firstly, put the plastic powder into the mold and then heated and rotated along two vertical axes. The powder in the mold is melted and adhered onto the mold inner surface, then cooling down the mold and take out the product when it reaches a correct temperature.

Compare to the extrusion, injection and blow molding processes, which are often used in plastic molding. The rotational moulding process is more suitable for the production of large, medium or complex plastic products. The products have almost no internal stress to ensure a very long service life.



ROTATIONAL MOULDING MATERIAL

Due to the long production time and high energy consumption, Rotational moulding process has special requirement for the performance of raw materials. After many years of test and demonstration on the flow rate of raw material solution, resin density and thermal stability of resin, we have selected 100% suitable raw materials for plastic buoys, and established a stable supplier channel. This will ensure the high quality and stability of our products.

Meanwhile, our company promises that 100% of our products use original raw materials, all the waste materials produced in the production process will be destroyed through formal channels or resold to the recycling middleman.



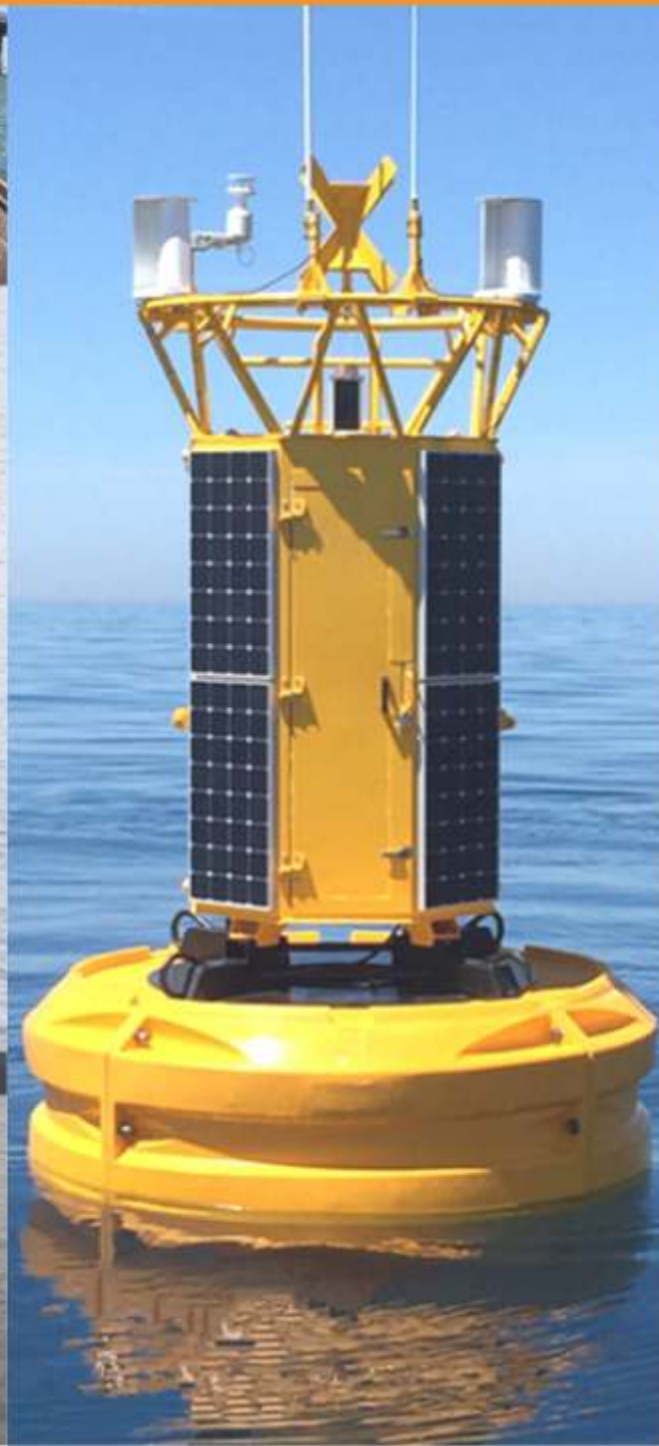


APPLICATION CASE SHOW

◆ Marine Navigation Buoy

We offer an extensive range of Navigation Buoys, Solar Marine Lanterns/Beacons, Monitoring and Control Systems, Navigation Marker Posts&Top Marks and Moorings&Installations to suit all marine applications. These products are being successfully used to mark out shipping channels, hazardous waters, aquaculture sites and a variety of other marine installations.

These high quality aids to navigation (AtoN) devices are extremely durable and cost effective enabling watercraft operators determine position, course, warn of a danger and/or obstructions and indicate the location of safe or preferred channel/routes.



APPLICATION CASE SHOW

◆ Monitoring Buoy

The stable platform can be easily customized to maximize instrumentation on a single monitoring platform. Adding satellite, radio, or cellular telemetry provides data to a custom visual display, making it easy for researchers and operators alike to receive critical data on a daily basis.





APPLICATION CASE SHOW

◆ Mooring Buoy

The Rotational Moulding Plastic Mooring Buoys filled with closed cell EPS foam, shell made by marine corrosion resistant polyethylene, around a central tubular steel frame, forming a high quality mooring buoy with excellent performance and lower cost. Our mooring buoys are rapidly replacing the traditional steel mooring buoys. This is due to their low maintenance costs, excellent waterproofing, impact resistance, long service life, easy construction, easy to handle and repair.

Applications including but not limited to:

- Offshore vessel mooring
- Temporary mooring of ships in designated areas
- Additional mooring support for large vessel
- Mooring of occasionally used vessels
- Remote mooring of vessels



APPLICATION CASE SHOW

◆ Floating Barrier

Floating Barriers are applied to zone off a water zone from debris, silt turbidity or oil etc. These are contained to a specific designated area so that it can be efficiently collected for subsequent disposal or cordoning of working zone, i.e. bridge pier area that need to prevent silt spreading to the whole water catchment.

The design of floating barrier is dependent on what are to be contained i.e. rubbish, timber log, silt turbidity or floating oil, it is also dependent on the prevalent site condition i.e. high velocity rivers, deep reservoir etc. Generally, floating barrier consists of buoy, cable, net, ballast, or location buoy. With the increasing awareness of environmental protection, floating barrier is being rapidly popularized around all over the world. Our design and products have been kept updated and constantly improved.



APPLICATION CASE SHOW

Warning Floating Line can be simply use as to guide, direct or demarcate non-entry areas, such as the intake of a reservoir, a channel intake, a dangerous area, a cruise terminal, pump stations and other **Warning Floating Line** areas to prevent the accidental entry of individuals or ships, etc.

In order to achieve better warning effect, Warning Floating Line often insert marker buoys with warning lights or add luminous bands to the main buoys, which makes the Warning Floating Line boundary clearer and provides a clearer view.

The design and models selection of the Warning Floating Line is determined by the functions to be achieved, the water regime of the target waters, and the geographical status, etc.

The location of the Warning Floating Line can be achieved either by the fixed pile on the shore or in the water, or by the use of the anchor buoy. The main body is usually composed of a cylindrical buoy or a float, connected by a main rope cable.



APPLICATION CASE SHOW

◆ Dredging Pipeline

Dredging Pipe is used to transfer the material to the requested area. There are many different material types pipe can be choosed. Traditional pipes are made of steel pipes and floats. Now HDPE (High density Polyethylene (HDPE) UHMWs) and other pipes have been widely used. The correction option should depend on the materials to be transported. The pipe is usually connected by flange, and flange parts are connected together by bolt, which is very easy to operate.

Dredging pipeline floater is one of the most important components. The key factors for correctly selecting the floater model including the arrangement and layout of the floater, the materials to be transported, the length of the pipeline etc. Finally to calculate the correct floater size, wall thickness, match with the high quality material selection and the filling of the inner EPS foam. All these factors ensure the safe and reliable operation of dredged pipeline.

As one of the pioneers in the field, Botai went through a difficult trial and error process before getting the best design solution, on base of these experience, now we have the ability to provide the most feasible solution.



APPLICATION CASE SHOW

◆ Floating Pontoon Docks

Floating Pontoon Docks mainly used as vessel dock, floating bridge, floating platform, fishing cage, water sports, or relaxation. All the docks have a modular system that offer endless configuration possibilities. It mainly constitute by plastic floating cube, or cover with steel frame and wooden boards. The solution will design on base of: water depth, tide table, water bed structure, shoreline condition, etc. Based on the correct information, our professionals recommend you the right product and provide you with a dock drawing.



PRODUCTION SHOW

◆ Navigation Buoy



FB700Z



FB700HZ



FB800P



FB1200P



FB1200T



FB1200G



FB1400Z



FB1500P



FB1500T



FB1800P



FB1800G



FB1800Z

PRODUCTION SHOW

◆ Navigation Buoy



FB2100Z



Fb2300



FB2400Z



FB2600Z



FB3000Z

Navigation Buoy

Model	Diameter(mm)	Height(mm)	Thickness(mm)	Buoyancy(kg)
FB700Z	700	900	6	150
FB700HZ	700	1100	6	80
FB800P	800	1400	8	300
FB1200P	1200	1500	8	600
FB1200T	1200	2000	8	350
FB1200G	1200	3400	8	900
FB1400Z	1400	1400	8	800
FB1500P	1500	1800	10	900
FB1500T	1500	2900	10	1000
FB1800P	1800	1800	10	1400
FB1800G	1800	4000	10	2500
FB1800Z	1800	4200	10	1500
FB2100Z	2100	1200	10	2400
FB2300	2300	2510	10	3000
FB2400Z	2400	1100	10	3600
FB2600Z	2600	1200	10	4000
FB3600	3600	800	10	5500
FB4300	4300	1100	10	11000

PRODUCTION SHOW

◆ **Monitoring Buoy**



FQ70-32



MFB1000



MFB1200



MFB1200

PRODUCTION SHOW

◆ **Lighthouse**



PRODUCTION SHOW

◆ **Marine Lantern**



GS-LS/C



GS-LS/E



GS-LS/H



GS-LS/EL



GS-LS/EH



GS-LS/S



GS-LS/B



GS-HD-155T

Marine Lantern

Type	Visual Range	Weight	Installation Size	Continuous Working Time Without Sunlight
GS-LS/C	1-2.5NM	0.3kg	∅ 100mm × M6	>15days work 12 hours a day
GS-LS/E	1-4NM	1.2kg	∅ 170mm × M6	>20days work 12 hours a day
GS-LS/H	1-5NM	3.2kg	∅ 185-200mm × M8	>15days work 12 hours a day
GS-LS/EL	1-5NM	3.5kg	∅ 145mm × M11	>15days work 12 hours a day
GS-LS/EH	1-6NM	4.2kg	∅ 145mm × M11	>20days work 12 hours a day
GS-LS/S	5-10NM	7kg	∅ 220mm × M12	>20days work 12 hours a day
GS-LS/B	5-10NM	8.5kg	∅ 160mm × M12	>20days work 12 hours a day
GS-HD/155T	1-5NM	3.6kg	∅ 175-205mm × M16	>30days work 12 hours a day

PRODUCTION SHOW

◆ **Mooring Buoy**



MB1200



MB1200P



MB1800



MB3600



MB4300



MB1800G

Mooring Buoy

Model	Diameter(mm)	Height(mm)	Thickness(mm)	Buoyancy(kg)
MB800P	800	600	8	300
MB1100	1100	1400	8	1200
MB1200P	1200	600	8	600
MB1200	1200	930	8	750
MB1300	1300	1200	10	3800
MB1500P	1500	800	10	900
MB1800P	1800	800	10	1400
MB2600	2600	1100	10	4000
MB3600	3600	1100	10	5500
MB4300	4300	1100	10	11000

PRODUCTION SHOW

◆ **Pipe Floats**



FT300-600



FT360-450



FT500-800



FT600-1000



FT800-1100



FT1100-1400

Pipe Floats

Model	Inner Diameter(mm)	Outside Diameter(mm)	Length(mm)	Thickness(mm)	Buoyancy(kg)
FT300*600	65/85/110/125	300	600	5	35
FT300*1000	30	300	1000	5	60
FT300*1070	125	300	1070	5	50
FT360*410	50	360	410	5	35
FT360*450	50	360	450	5	35
FT450*900	50/150	450	900	5	120
FT500*750	60	500	750	4	90
FT500*800	150/180/200/250	500	800	6	130
FT550*900	260	550	900	7	190
FT600*1000	40/60/100/296/300	600	1000	7	200
FT700*800	320/360	700	800	7	220
FT800*1100	50/65/400/500	800	1100	7	520
FT1000*1000	335/380	1000	1000	8	620
FT1050*2000	800	1050	2000	10	1500
FT1100*1100	500	1100	1100	8	750
FT1100*1400	220	1100	1400	8	1200

PRODUCTION SHOW

◆ **Cylinder Buoy**



FT500-800

FT500-900

FT550-950

FT600-1000

Cylinder Buoy 一体式浮筒

Model	Inner Diameter(mm)	Outside Diameter(mm)	Length(mm)	Thickness(mm)	Buoyancy(kg)
FT150*500	40	150	500	3	6
FT150*550	40	150	550	3	7
FT200*1000	40	200	1000	4	28
FT220*1000	40	220	1000	4	32
FT220*1550		220	1550	5	50
FT250*500		250	500	4	23
FT250*850	40	250	850	5	35
FT300*500	40	300	500	4	30
FT300*800	40	300	800	5	50
FT300*1000	40	300	1000	4	65
FT380*480	40	380	480	4	50
FT380*580	40	380	580	4	60
FT400*800	40	400	800	5	70
FT400*1000	40	400	1000	6	110
FT500*750	40	500	750	5	90
FT500*800	40	500	800	6	130
FT500*900		500	900	6	140
FT550*950	40	550	950	6	210
FT600*760	40	600	760	5	180
FT600*1000	40	600	1000	6	220
FT600*1100		600	1100	6	290
FT800*900		800	900	7	420
FT800*1200		800	1200	8	550
FT1000*1000	40	1000	1000	8	650
FT1000*1200	40	1000	1200	8	850

PRODUCTION SHOW

◆ **Floating Pontoon**



FX50

FXV50

FXU100

Screw

Ladder

Wrench

Handrail



PRODUCTION SHOW

◆ Floating Ball



Floating Ball			
Model	Diameter(mm)	Thickness(mm)	Buoyancy(kg)
FQ-250T	250	4	8
FQ-300T	300	5	10
FQ-300S	300	5	10
FQ-400T	400	5	25
FQ-400S	400	5	25
FQ-500T	500	5	55
FQ-600T	600	5	95
FQ-800T	800	8	230
FQ-335R	335	5	10
FQ-381R	381	5	23
FQ-457R	457	6	40
FQ-600R	600	6	100
FQ-775R	775	6	200
FQ-1000R	1000	10	450

PRODUCTION SHOW

◆ Customize



DELIVERY LOADING



STOCK

