



MeriTaito

Polyethylene Plastic Buoys

More Than 30 Years' Experience in Producing Buoys

Meritaito has manufactured plastic buoys in its factory in Joensuu since 1976. The annual production exceeds 1500 buoys, primarily for the Finnish market but also for export markets in Russia and Canada. Meritaito's buoys meet the international standards set by the IALA (International Association of Light-house Authorities).

The buoys consist of a through-colored highly durable extruded polyethylene plastics tube structure that withstands the most demanding weather conditions. The wall thickness of the extruded plastic pipe ranges from 6 to 30 mm and the pipe is filled with polystyrene P25 kg/m³. The anchored base is made of FE 52 galvanized steel. All the buoys have lights and radar reflectors as standard fittings.

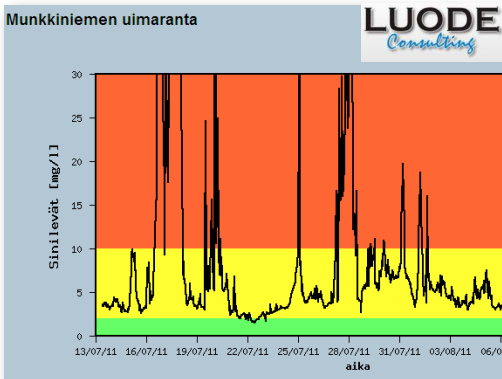
Spar buoys and buoys can be equipped with lighting systems and light symbols according to customer specifications. Lighting options include MPV-Led or PV-Led and are powered by battery with a life span of up to five years. Other lighting options are also possible.

Smart Buoys Provide Data that Supports Navigation

Our latest innovation is a Smart Buoy and Environment Sensors which are encased inside the body of the buoy that gather data on the environment according to needs. The smart buoys are visually similar and use the same power source as the normal range of buoys.

The smart buoy can be used to improve safety of navigation as it can gather important information for seafaring such as water levels, wave height, the speed and direction of water currents, location and status on lights and battery power.





Environment Sensors Monitor Water Area Conditions

Environment Sensors can provide continuous and real time data observations for example supporting dredging operations or beach and coastal area swimming conditions. The sensors selected are based on the type of data required such as data on blue algae, water turbidity, temperature, salinity etc.

The sensors transmit the observed data through a GSM network to a web-server where the data is verified, interpreted and edited after which it can be used by the customer.

Types of Buoys

length(m) diameter(mm) draught(m)

Boat Passage Buoy

VEP 0.9	2,3	90	1,1
VEP 1.0	2,0	160	1,1
VEP 1.5	2,5	160/225	1,0
VEP 2.0	3,3	160/225	1,3

Pretension Spar Buoy

T 1.6	6,0	160	3,0
T 2.7	7,0	225	3,5
T 3.45	4,5	160/225	1,8
T 3.6	6,0	160/225	2,6

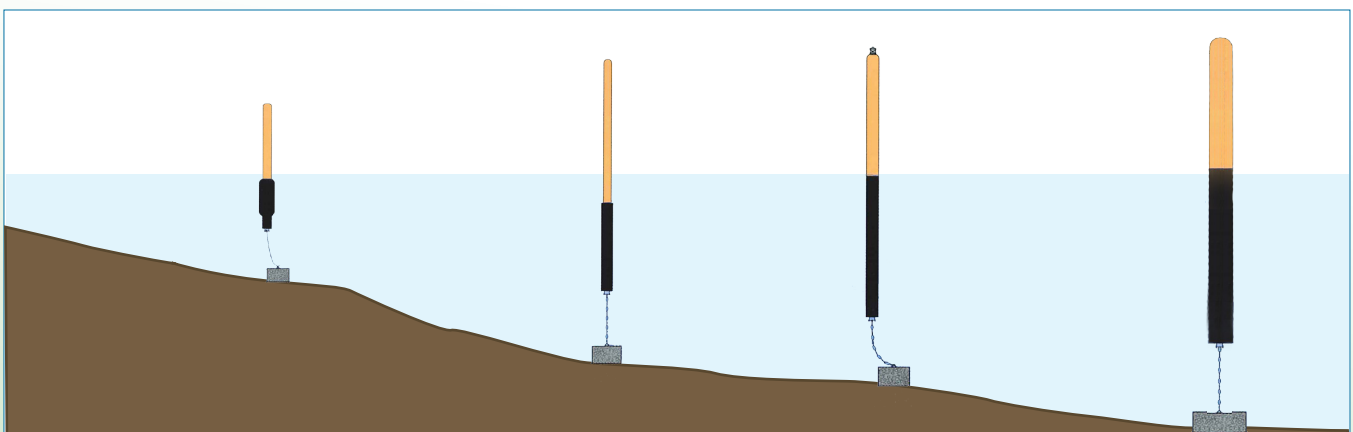
Spar Buoy

VPU 225/355	4,0	225/355	3,8
VPU 400	7,0	400	4,0

Buoy

SVV 500	10,0	500	5,7
PV 800	10,0	800	5,7

The range of buoys produced can be Lateral Buoys (red, green) or Cardinal Buoys (north, south, east, west) or Special Buoys and Marks(yellow) or Marks indicating Isolated danger (red/black). Marks indicating Safe water (red/white) are produced only to a dimension of 225 or 500 mm.



Boat Passage Buoy

Pretension Spar Buoy

Spar Buoy

Buoy

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