GISMAN

THE RANGE OF POLYETHYLENE BUOYS

CERTIFIED LR ISO 9001

IALA

CONTENT

BENEFITS

Less Maintenance

Lower Weight

Modular

Environnement-Friendly

LESS MAINTENANCE

Plastic parts do not corrode

LOWER WEIGHT

Less logistical and lifting ressources

Smaller servicing vessels

MODULAR

Less spare buoys

Easy transportation and storage

Easy to repair

ENVIRONNEMENT-FRIENDLY

Polyethylene is fully recyclable

No anti-fouling coating

Longer service intervals

DESIGN PRINCIPALS

Floats and Spars

Structures

FLOATS AND SPARS

Rotational moulded thermoplastic parts

Precompounded virgin Polyethylene (PE)

UV stabilisation and high quality pigments

Colour matching according to IALA requirements

Optional closed cell expanded Polystyrene (EPS) foaming

Mechanical and waterproof tests

STRUCTURES

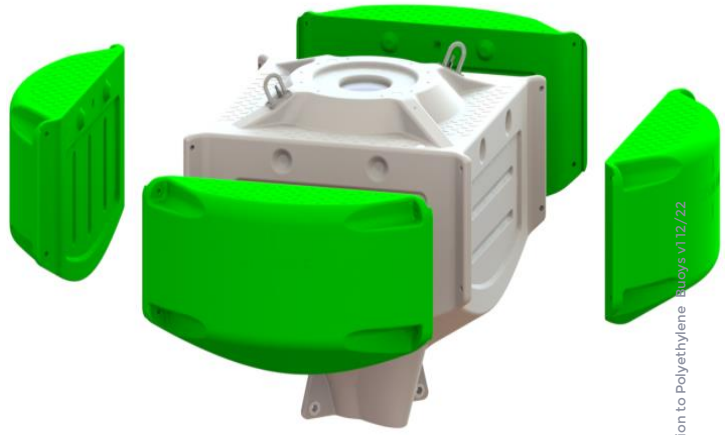
Mechanical strength calculation using a calculation tool (FEM)

CAD design

Mechanical testing

Approved corrosion protection systems

Reinforced lifting and mooring devices



DESIGN PRINCIPALS

Option

Tailor-Made equipment

Mooring-Lines and Anchoring

OPTION, TAILOR MADE EQUIPMENT

GISMAN's solar lanterns with connectivity modules, AIS, radar reflectors, solar generators

Elevated focal plane, high visibility day marks, retro-reflective stripes, marking/identification plates

Secure access, anti-slip decking,

Anti-vandalism system, anti-volatile systems

Integration of Hydro Weather sensors

Storage ber, standalone tail tubes

MOORING-LINES AND ANCHORING

Stability and buoyancy according to IALA G1099

Mooring-lines and anchoring according to IALA G1066

Single or multiple mooring systems

Textile, hybrid and chain mooring lines

Environment-friendly mooring lines

Dampers

Sinkers, anchoring systems

POLYETHYLENE RANGE OF BUOYS

Proximity and River Buoys

Coastal Buoys

Open Sea buoys

PROXIMITY AND RIVER BUOYS

COASTAL BUOYS

OPEN SEA BUOYS

PROXIMITY AND RIVER BUOYS

Lightweight

Economic

GBP-900

GBM-1400-0,7

GBR-1250

GBP-1500

GBP-1800

GBP-900

Proximity

LIGHTWEIGHT AND VISIBLE

Float diameter	0.9 m
Float volume	200 L
Type of float	Monobloc (optional EPS foaming)
Reserve buoyancy	0.18 m^3
Focal plane	Up to 1.3 m
Total weight	19 kg
Recommended chain	DN14-5D
Recommended lantern	GISMAN GSC-3

GBR-1250

River

SUITABLE FOR FAST CURRENT

Float diameter	1.25 m
Float volume	0.4 m^3
Type of float	2 segments (optional EPS foaming)
Reserve buoyancy	0.3 m^3
Focal plane	1.5 m (SS spar) to 1.9 m (ES spar)
Total weight	70 kg to 110 kg
Recommended chain	DN14-5D
Recommended lantern	GISMAN GSC-3

GBM-1400-0,7

Ports & Harbours

MODULAR AND FLAT BOTTOM

Float diameter	1.4 m
Float volume	0.7 m^3
Type of float	2 segments (optional EPS foaming)
Reserve buoyancy	0.45 m^3
Focal plane	1.5 m (Spar SS)
Total weight	235 kg or 245kg
Recommended chain	DN16-5D
Recommended lantern	GISMAN GSC-3

GBP-1500

Fast current

MULTI-PURPOSE

Float diameter	1.5 m
Float volume	0.8 m^3
Type of float	Monobloc with EPS foaming
Reserve buoyancy	0.6 m^3
Focal plane	1.4 m (SS spar) or 2.1 m (ES spar)
Total weight	167 kg or 180 kg
Recommended chain	DN16-5D
Recommended lanterns	GISMAN GSC-3 / GSC-5-SS

GBP-1800

Ports & Harbours

PROXIMITY MARKER BUOY

Float diameter	1.8 m
Float volume	1.7 m^3
Type of float	Monobloc with EPS foaming
Reserve buoyancy	1.3 m^3
Focal plane	2.5 m
Total weight	403 kg
Recommended chain	DN25-5D with bridle
Recommended lanterns	GISMAN GSC-3 / GSC-5

COASTAL BUOYS

Multipurpose

High Visibility

GBM-1400-1,5

GBM-2000

GBM-2500

GB-2600-ECO

GBM-1400-1,5

Semi-exposed

HYBRID AND STABILITY

Float diameter	1.4 m
Float volume	1.5 m^3
Type of float	4 segments with EPS foaming
Reserve buoyancy	1.0 m^3
Focal plane	2.5m
Total weight	480 kg
Recommended chain	DN25-5D
Recommended lanterns	GISMAN GSC-3 / GSC-5

GBM-2000

Semi-exposed

STRONG AND MODULAR

Float diameter	2.0 m
Float volume	3.1 m^3
Type of float	2 segments with EPS foaming
Reserve buoyancy	2.0 m^3
Focal plane	2.5 to 4.2 m
Total weight	780 to 1200 kg
Recommended chain	DN25-5D
Recommended lanterns	GISMAN GSC-5 / GSC-8

GBM-2500

Coastal / Channel

HYBRID AND HIGH VISIBILITY

Float diameter	2.5 m
Float volume	5.25 m^3
Type of float	4 segments with EPS foaming
Reserve buoyancy	3.6 to 4.0 m^3
Focal plane	3.9 to 5.4 m
Total weight	1200 to 1600 kg
Recommended chain	DN30-5D
Recommended lanterns	GISMAN GSC-5 / GSC-8

GB-2600-ECO

Coastal / Channel

EFFICIENT AND COST-EFFECTIVE

Float diameter	2.6 m
Float volume	5.6 m^3
Type of float	PE central structure with EPS foaming + 4 segments of PE floats
Reserve buoyancy	4.6 m^3
Focal plane	2.6 to 3.9 m
Total weight	900 to 950 kg
Recommended chain	DN30-5D
Recommended lanterns	GISMAN GSC-5 / GSC-8

OPEN SEA BUOYS

Resilient

Modular

GBM-3000-7.5

GBM-3000-10

GBM-3000-12

GBM-3000 – 7.5

Open sea

DURABLE AND HIGHLY VISIBLE

Float diameter	3.0 m
Float volume	7.5 m^3
Type of float	4 segments with EPS foaming
Reserve buoyancy	6 m^3
Focal plane	4.0 to 5.5 m
Total weight	1400 à 1700 kg
Recommended chain	DN35-5D
Recommended lanterns	GISMAN GSC-5 / GSC-8

GBM-3000 – 10

Open Sea

SIGNIFICANT DEPTHS

Float diameter	3.0 m
Float volume	10 m^3
Type of float	4 segments with EPS foaming
Reserve buoyancy	8 m^3
Focal plane	4.0 to 6.0 m
Total weight	1700 à 2000 kg
Recommended chain	DN35-5D
Recommended lanterns	GISMAN GSC-5 / GSC-8

GBM-3000 – 12

Open Sea

OFFSHORE

Float diameter	3.0 m
Float volume	12 m^3
Type of float	4 segments with EPS foaming
Reserve buoyancy	10 m^3
Focal plane	5.0 to 6.2 m
Total weight	1800 à 2100 kg
Recommended chain	DN35-5D
Recommended lanterns	GISMAN GSC-5 / GSC-8

GISMAN, SINCE 1862.

close to 500 customers in 80 countries

1. Implementation of major historic lighthouses and light stations on all continents.
2. Acknowledged as a pioneering designer and manufacturer of modular plastic navigational buoys in the early 1990s.
3. Market introduction of its own range of marine lanterns and applications suite for monitoring and maintenance in 2022.

CERTIFIED ISO 9001

Quality Management System approved to standards ISO 9001:2015.

IALA

IALA was established in 1957. GISMAN is member since 1966.

GISMAN

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