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GISMAN  
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# THE RANGE OF MOORING BUOYS

# CONTENT

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## BENEFITS

- Cost-effective
- Environment-friendly
- Versatile

2

## DESIGN / MANUFACTURING

- Normative Referential
- Floats
- Structure
- Option
- Mooring link
- Anchoring

3

## RANGE

- MB-1250
- MB-1400-0.7 & 1.5
- MB-2000
- MB-2500
- MB-3000

# BENEFITS

**Extend harbours facilities into deep water**  
**Reduce the impact on marine environment**

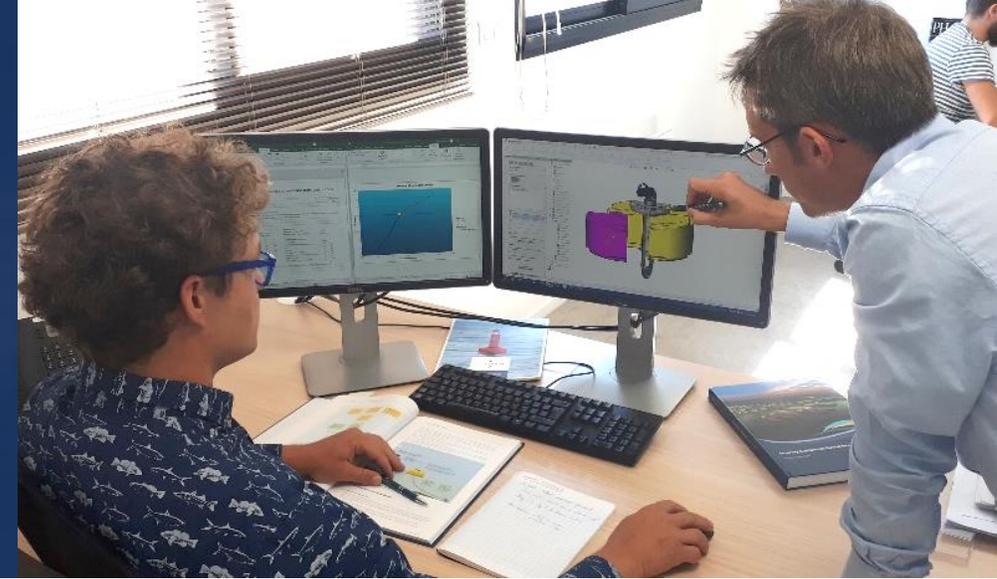


- **Safe and cost-effective**
  - No need to extend quayside facilities
  - Temporary or permanent
  - Low maintenance
  
- **Environment-friendly**
  - No hard construction
  - No need for dredging
  - No need for using anchors
  
- **Versatile**
  - All types of ships
  - All types of site conditions
  - Single Point Mooring (SPM) or Multi Buoy Mooring (MBM)



## DESIGN / MANUFACTURING

Compliant with International Rules,  
Recommendations, Standards and Practices



### ANCHORING AND MOORING CALCULATIONS

**DNVGL-OS-E301 : Position Mooring**

**DNVGL-OTG-18 : Guidance for long term nearshore mooring systems**

**DNVGL-RP-C205 : Environmental conditions and environmental loads**

**API RP 2SK : Design and analysis of Stationkeeping Systems for Floating Structures**

### STRUCTURE CALCULATION

**Custom design with dedicated CAD**

**Validation of mechanical performance using a finite element calculation tool**

**Mechanical tests on a traction bench**

## DESIGN / MANUFACTURING

Incorporates the latest technology



### POLYETHYLENE FLOAT

**Precompounded Low Density Polyethylene**

**Stabilisation UV and high quality pigments to avoid colour fading**

**Foaming with high density Expanded Polystyrene (EPS) or Polyurethane (PU)**

### MOORING BUOYS STRUCTURE

**Validation of mechanical performance on a traction bench**

**Approved anti-corrosion protection systems (galvanisation, painting, anodes)**

**LESS MAINTENANCE**

**No corrosion on plastic parts**

**LOWER WEIGHT THAN STEEL OR ELASTOMER**

**Less logistical and lifting resources**

**ENVIRONNEMENT-FRIENDLY**

**Polyethylene is fully recyclable**

**No anti-fouling coating**

**Longer service intervals**

**MODULARITY**

**Easy transportation and storage**

**Easy to repair**

# DESIGN / MANUFACTURING

Option



## OPTIONAL EQUIPMENT

**Footsteps**

**Marking**

**Identification**

**Retro-reflective stripes**

**LED lanterns**

## MOORING LINKS

**D-Link**

**Static-T**

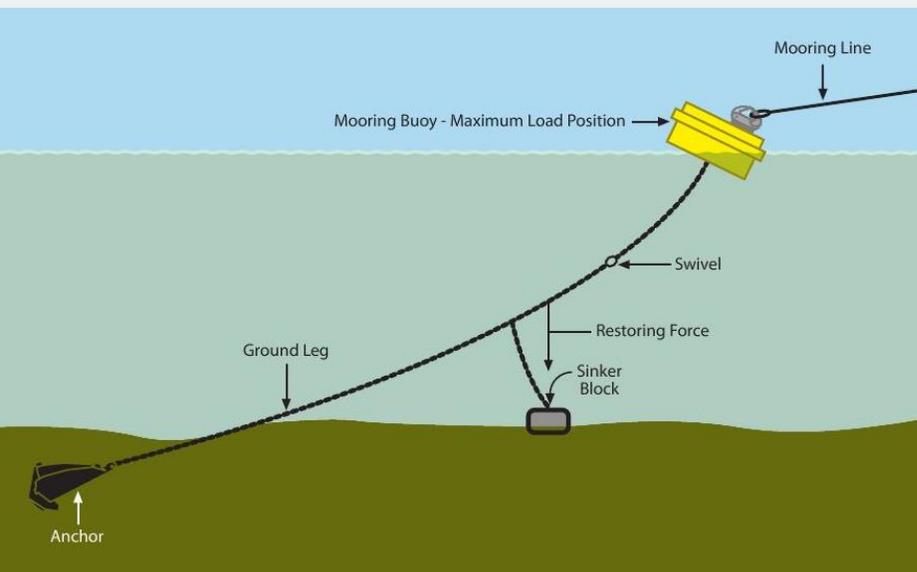
**S-Shackle**

**CT- Chain Through**

**Pelican Hook(s)**

# RELATED DESIGN

## Anchoring



----- ● **TEXTILE, HYBRID AND CHAIN ANCHORING LINES**

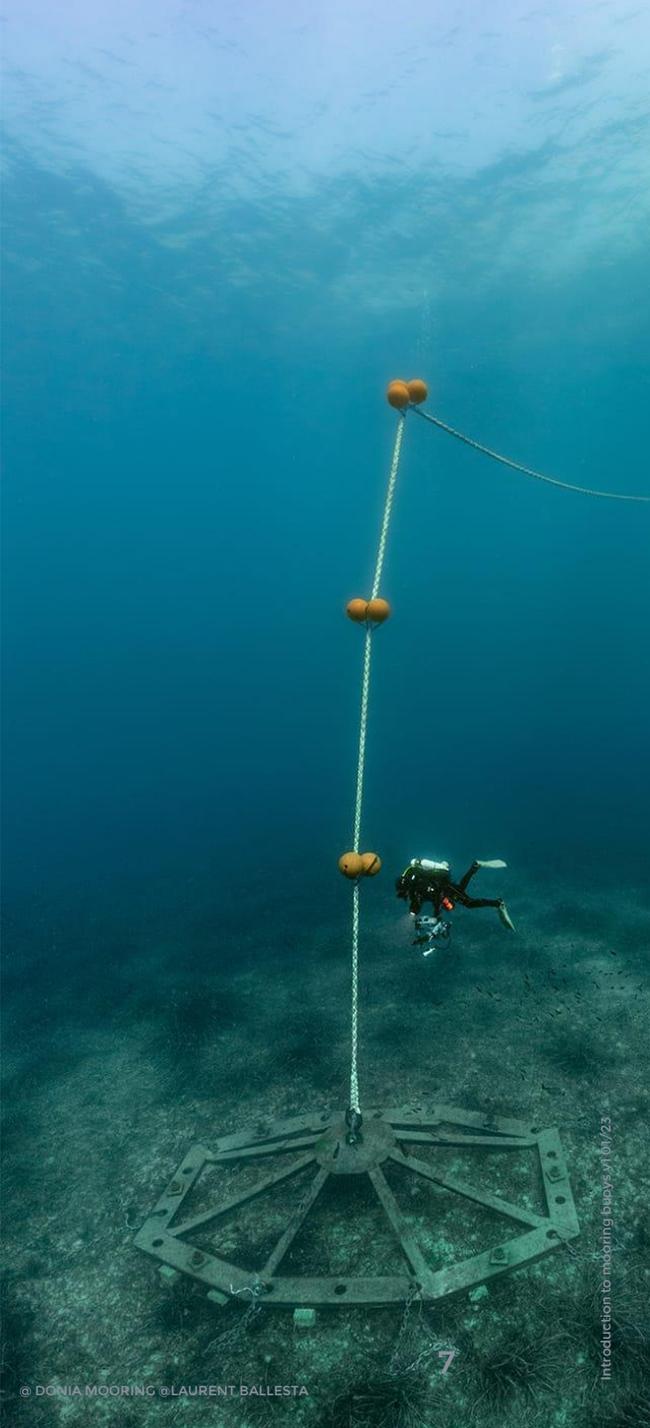
- Chains with or without studlink tested on a traction bench
- Textile anchoring lines and floats subsurface
- Dampers to withstand peak loads

----- ● **SINKERS**

- Concrete
- Concrete and Magnetite
- Cast Iron

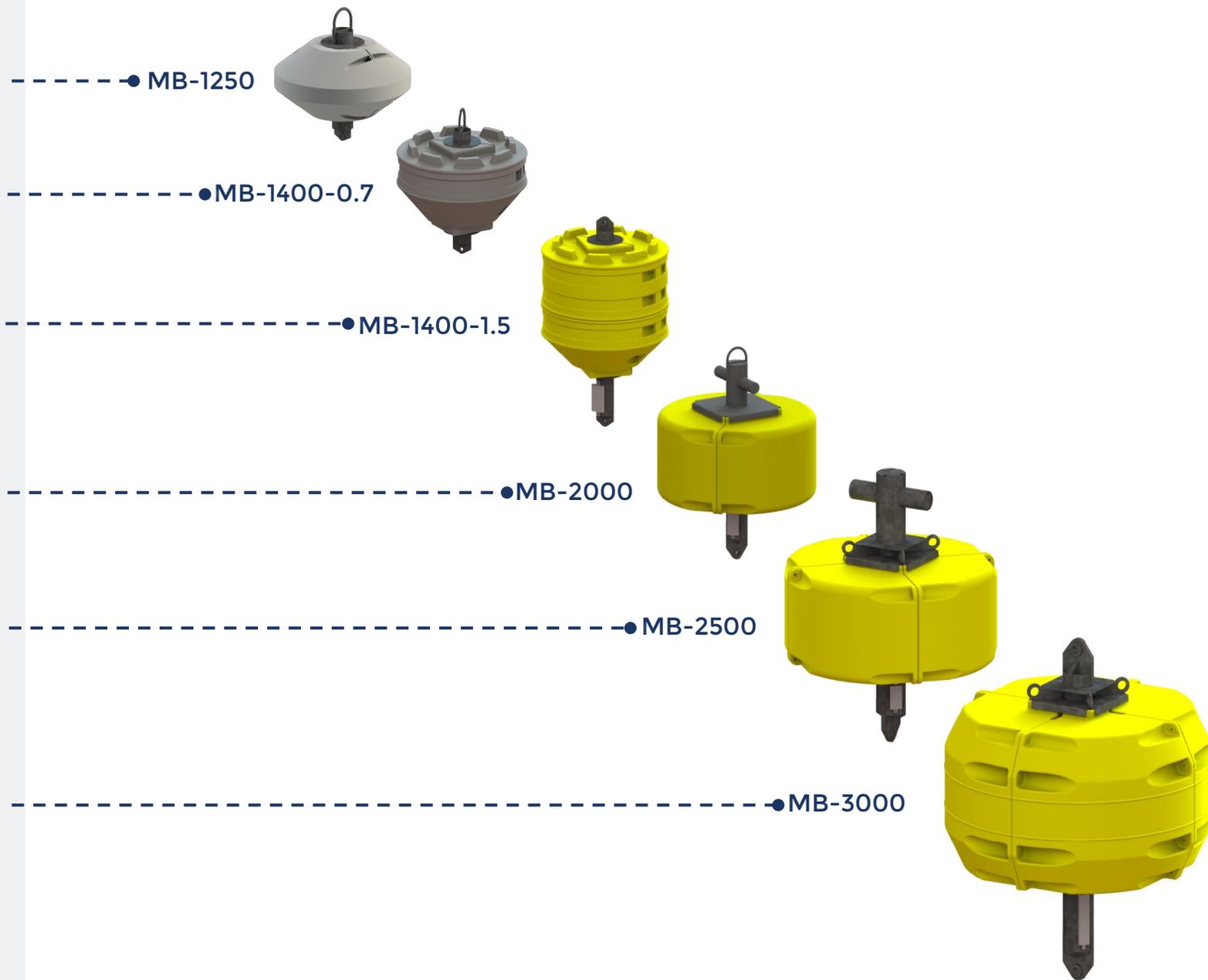
----- ● **EMBEDDING OR SCREW-TYPE CERTIFIED ANCHORS**

- HHP AC-14
- Flipper Delta
- Danforth
- Stevpris ...



# RANGE OF MOORING BUOYS

**Diam. from 1250 to 3000mm**  
**SWL from 5.5 to 150t**



MB-1250

SWL from 5.5 to 15t

YACHTING  
HARBOUR

Diameter (m)	1.25
Net Buoyancy (kg)	350
Volume (m <sup>3</sup> )	0.4
SWL (t)	5.5 to 15
Mooring Links	D, Shackle, Chain Through, T
Option	EPS or PU foaming Enhanced SWL



MB-1400-0.7  
SWL from 5.5 to 15t

YACHTING  
HARBOUR

Diameter (m)	1.4
Net Buoyancy (kg)	600
Volume (m <sup>3</sup> )	0.7
SWL (t)	5.5 to 15
Mooring Links	D, Shackle, Chain Through, T
Option	EPS or PU foaming Enhanced SWL Hand rail



MB-1400-1.5

SWL from 5.5 to 15t

WORKBOAT  
LARGE YACHT  
HARBOUR

Diameter (m)	1.4
Net Buoyancy (kg)	1250
Volume (m <sup>3</sup> )	1.5
SWL (t)	5.5 to 15
Mooring Links	D, Shackle, Chain Through, T
Option	EPS or PU foaming Enhanced SWL Hand rail

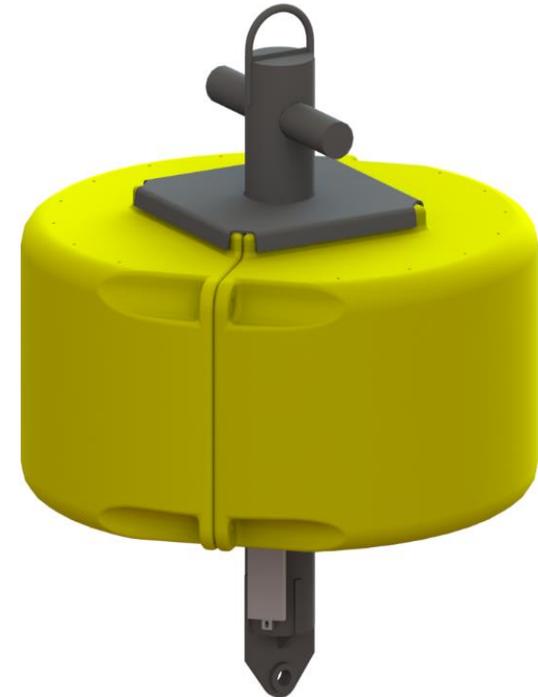


MB-2000

SWL from 7.8 to 80t

WORKBOAT  
LARGE YACHT  
HARBOUR

Diameter (m)	2.0
Net Buoyancy (kg)	2650
Volume (m <sup>3</sup> )	3.1
SWL (t)	7.8 to 80
Mooring Links	D, Shackle, Chain Through, T
Option	EPS or PU foaming Enhanced SWL Hand rail Rubber fender LED lantern



# MB-2500

SWL from 17 to 150t

WORKBOAT  
LARGE YACHT  
HARBOUR

Diameter (m)	2.5
Net Buoyancy (kg)	4250
Volume (m <sup>3</sup> )	5.25
SWL (t)	17 to 150
Mooring Links	D, Shackle, Chain Through, T
Option	EPS or PU foaming Enhanced SWL Hand rail Rubber fender LED lantern



## MB-3000

SWL from 17 to 150t

Available in 3 distinct volumes

WORKBOAT  
LARGE YACHT  
HARBOUR

Diameter (m)	3.0
Net Buoyancy (kg)	6500 / 8700 / 10700
Volume (m <sup>3</sup> )	7.5 / 10 / 12
SWL (t)	17 to 150
Mooring Links	D, Shackle, Chain Through, T
Option	EPS or PU foaming Enhanced SWL Hand rail Rubber fender LED lantern



# 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.



Quality Management System approved to standards ISO 9001:2015.



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



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