



GISMAN

THE RANGE OF MOORING BUOYS

CONTENT

1

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

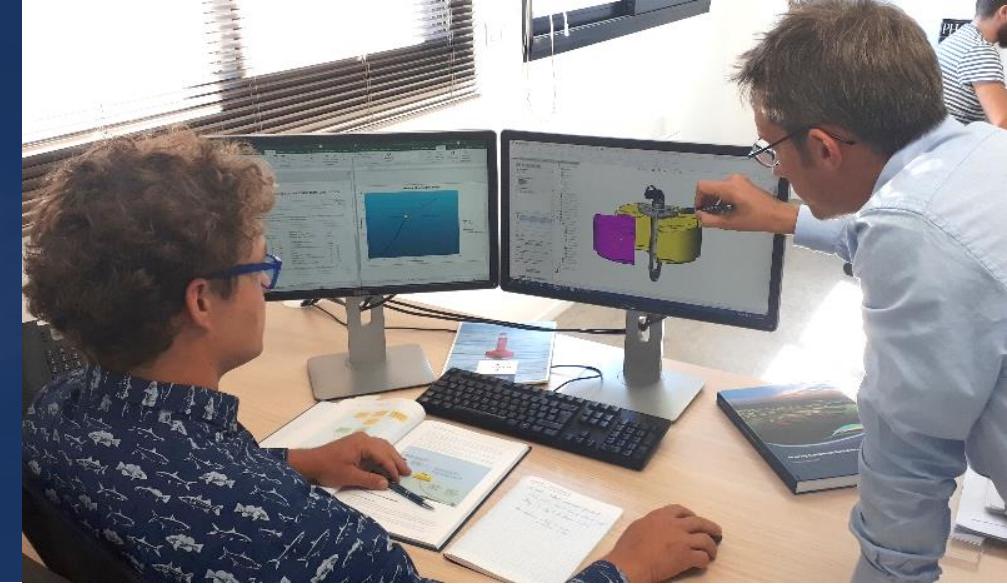
----- • **Versatile**

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

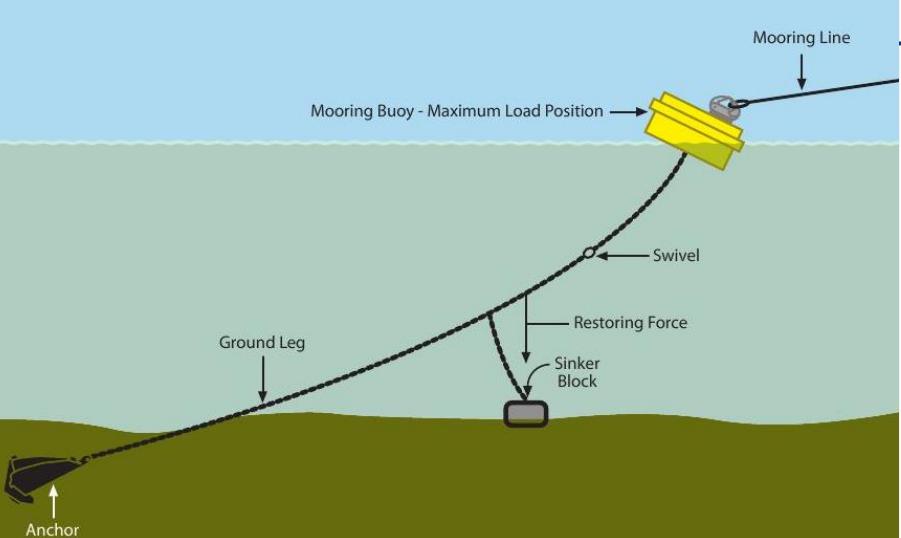
CT- Chain Through

Pelican Hook(s)



RELATED DESIGN

Anchoring



● TEXTILE, HYBRID AND CHAIN ANCHORING LINES

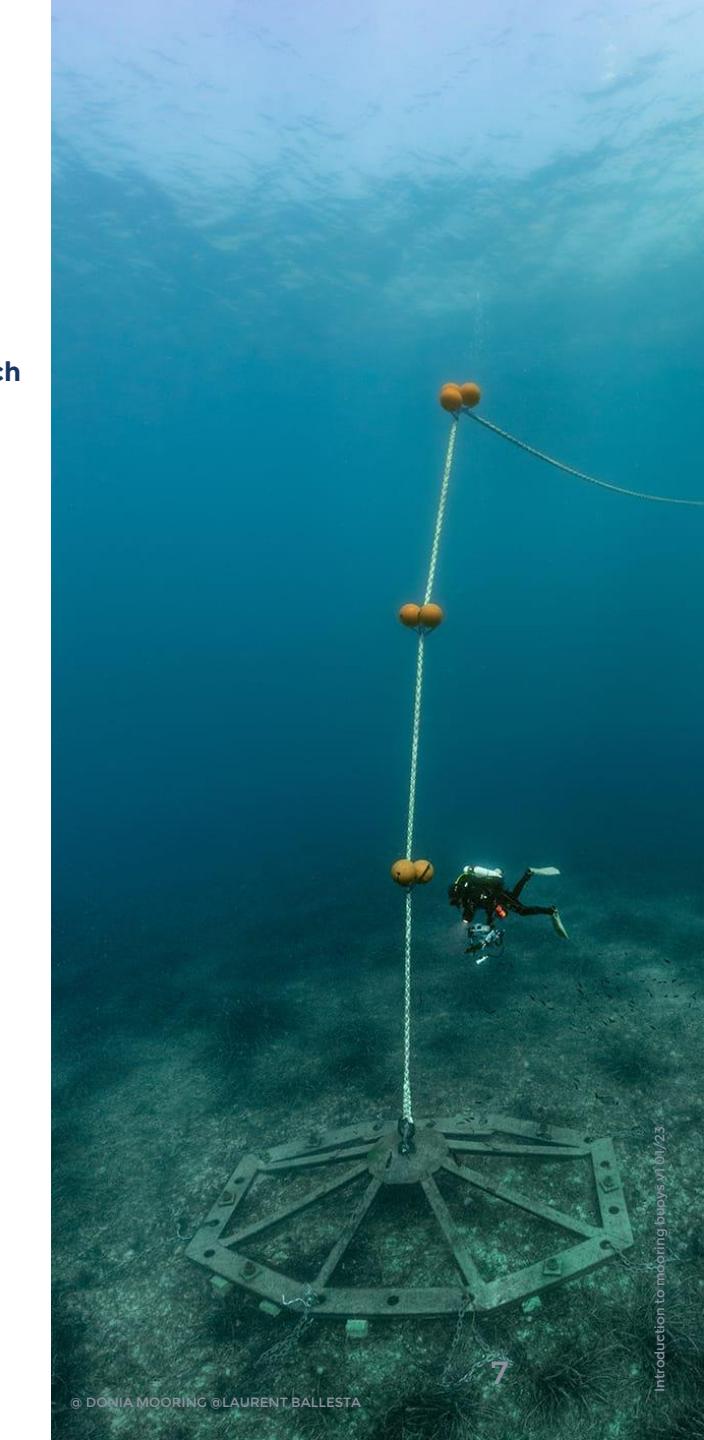
Chains with or without studlink tested on a traction bench
Textile anchoring lines and floats subsurface
Dampers to withstand peak loads

● SINKERS

Concrete
Concrete and Magnetite
Cast Iron

● EMBEDDING OR SCREW-TYPE CERTIFIED ANCHORS

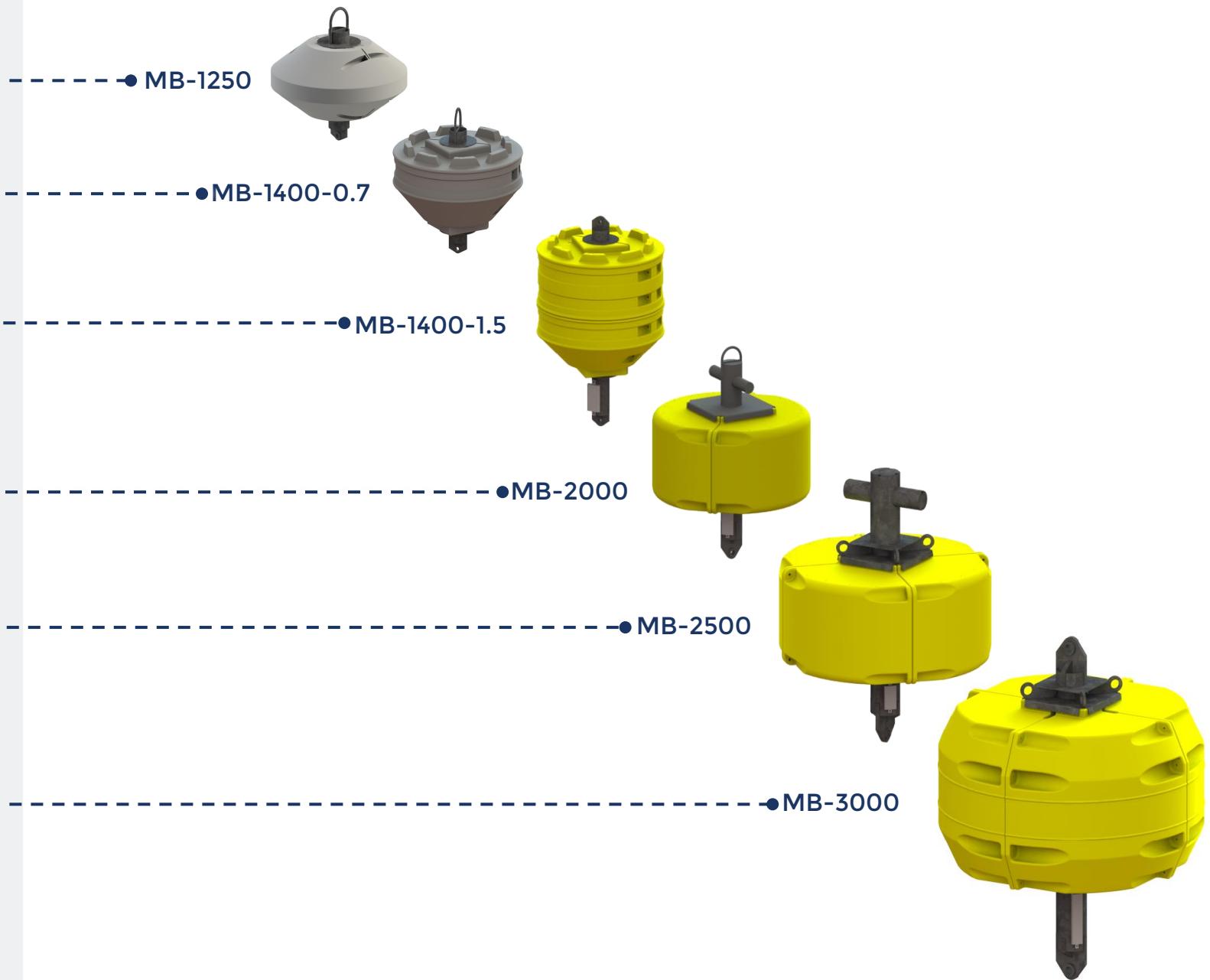
HHP AC-14
Flipper Delta
Danforth
Stevpris ...



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 ³)	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 ³)	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 ³)	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

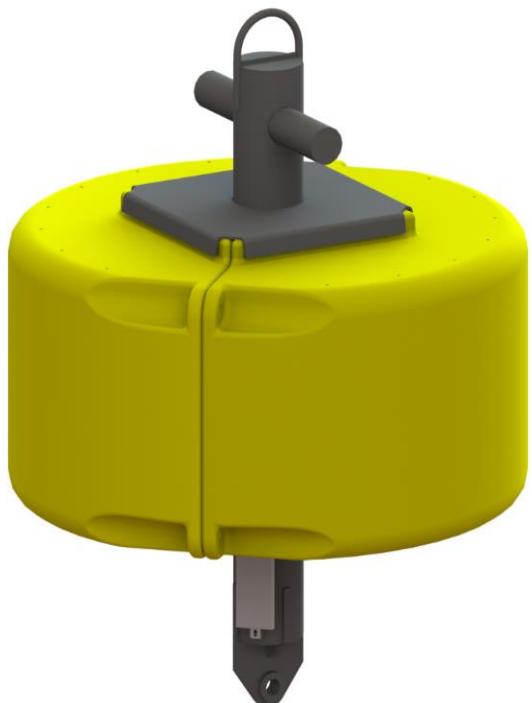
SWL from 7.8 to 80t

WORKBOAT

LARGE YACHT

HARBOUR

Diameter (m)	2.0
Net Buoyancy (kg)	2650
Volume (m ³)	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 ³)	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 ³)	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.

Management
System
approved
by LRQA
to standards
ISO 9001:2015

Quality Management System
approved to standards ISO 9001:2015.



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



Your contact

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