



MOORING BUOYS SOLUTIONS



YOUR CHALLENGE IS TO EXTEND HARBOUR FACILITIES INTO DEEPER WATER

- Floating mooring solutions have proven their reliability and cost effectiveness when harbours congestion becomes an issue:
 - › no need to extend quayside facilities.
 - › No need for dredging.
- Floating mooring solutions reduce the impact on marine environment:
 - › No need for using anchors to preserve the seabed integrity.



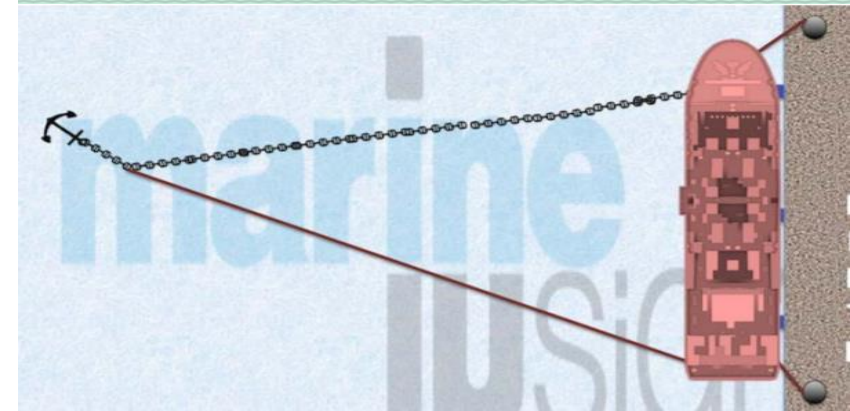
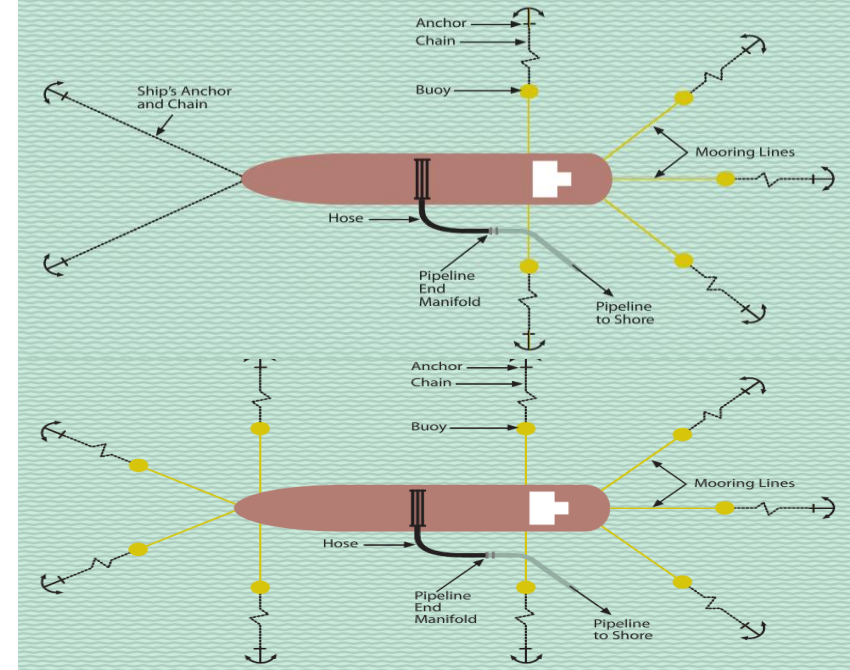
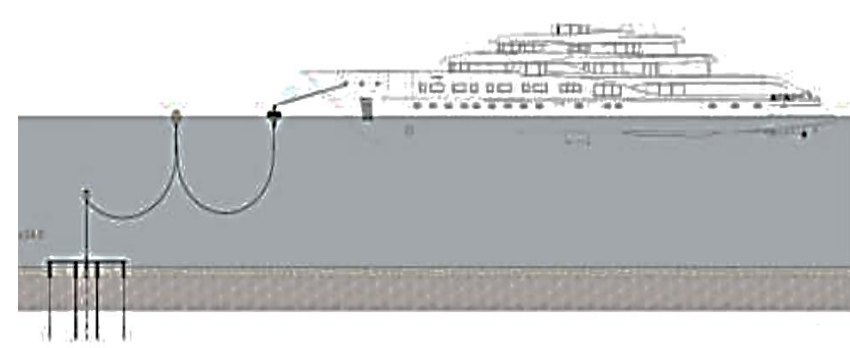
OUR FLOATING MOORING SYSTEMS: AN ALTERNATIVE TO QUAYSIDE SOLUTIONS

- Our custom-designed mooring solutions are able to match the vessel's requirements and local environmental conditions:
 - › All types of ships: tankers, LNG, passengers' ships, working vessels, tug-boats, fishing boats, etc..
 - › All types of site conditions: deep sea, coastal waters, estuary, ports, rivers, etc..
 - › Single Point Mooring (SPM) or Multi Buoy Mooring (MBM).
 - › All type of anchoring solutions: drag embedment anchors, concrete or cast-iron sinkers.



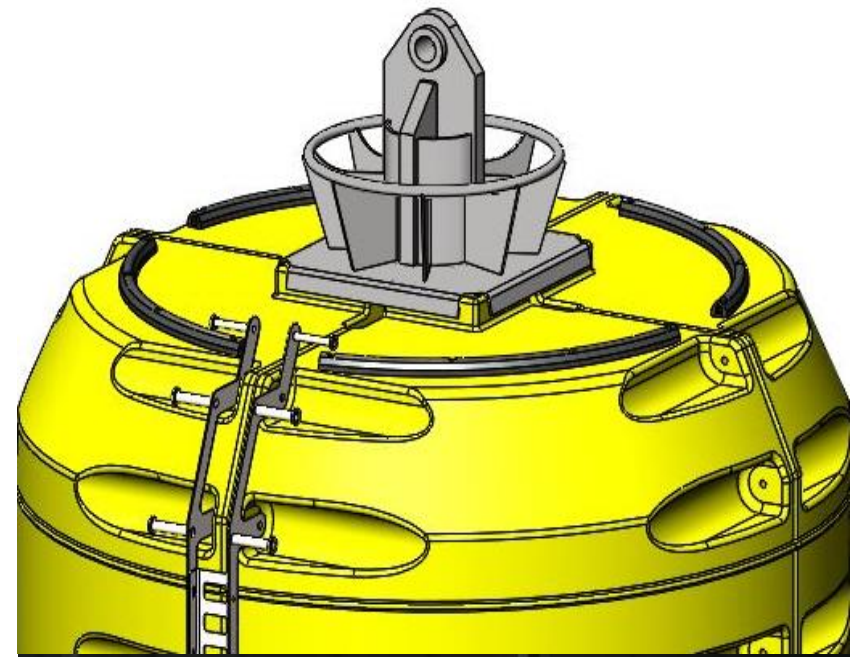
OUR FLOATING MOORING SYSTEMS CALCULATIONS: COMPLYING WITH INTERNATIONAL RULES & STANDARDS

- Analytic and dynamic calculations with ORCAFLEX, the world-leading software for the dynamic analysis of offshore marine systems:
 - › Within standards API RP 2SK " (American Petrol Institute) for the design and analysis of station-keeping systems for floating structures.
 - › Within recommended practice DNVGL-C205 for modelling, analysis and prediction of environmental conditions as well as for calculating environmental loads acting on structures
- Structural calculations with SolidWorks Simulation software:
 - › Within guideline DNVGL-OTG-18 for long term near shore mooring and
 - › Within offshore standard NVGL-OS-E301 for design and construction of position mooring systems.
 - › Within OCIMF (Oil Companies International Marine Forum) guidelines.



OUR FLOATING MOORING SYSTEMS : COST-EFFECTIVE POLYETHYLENE FLOATING SOLUTIONS

- With medium density polyethylene floats for a high return on investment:
 - › Virgin pre-compounded polymer powder.
 - › High resilience to shocks.
 - › UV stabilizing additives to reduce colour ageing.
 - › Diameter from 0.9 to 3m with volume from 0.2 to 12m³.
- Designed and manufactured within a Quality Management System certified according to ISO-9001: 2015 standard.



OUR FLOATING MOORING SYSTEMS: MEDIUM SIZE MOORING BUOYS FOR A SAFE WORKING LOAD UP TO 12 TONS

Model	MB-1250	MB-1400-0.7	MB-1400-1.5
Float diameter (m)	1.25	1.40	1.40
Volume (in m ³)	0.4	0.7	1.5
SWL (in tons)	5.5	5.5 to 11	5.5 to 12
Available links	D	D or S	D or S



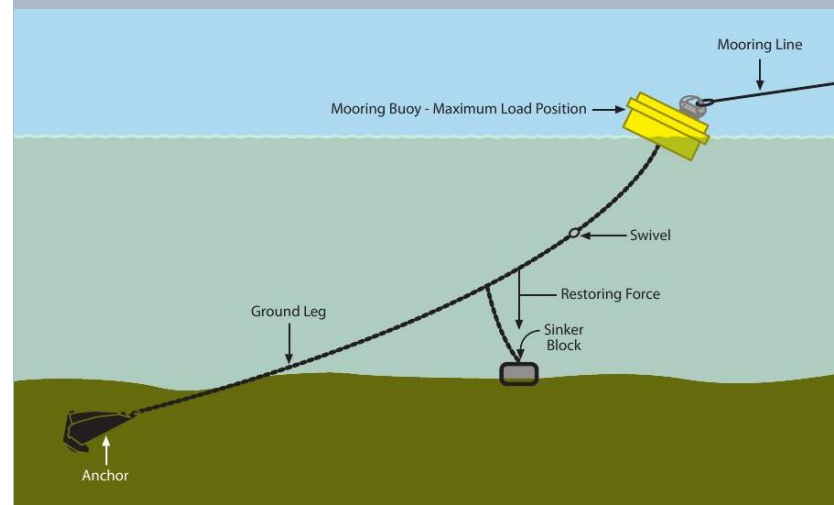
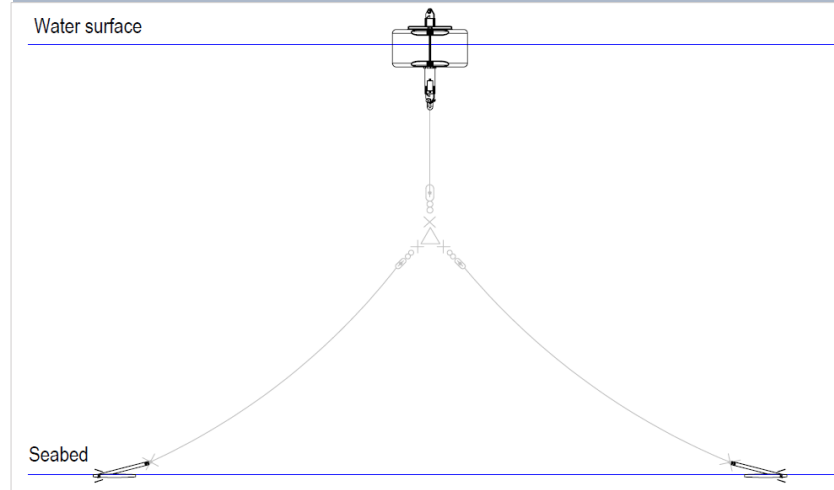
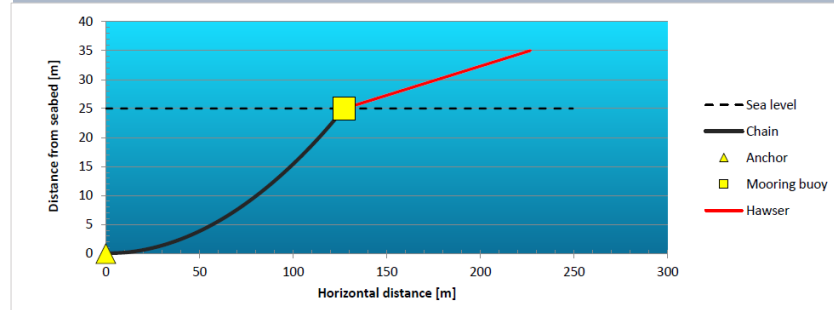
OUR FLOATING MOORING SYSTEMS: LARGE SIZE MOORING BUOYS FOR A SAFE WORKING LOAD UP TO 80 TONS

Model	MB-2000	MB-2500	MB-3000
Float diameter (m)	2.0	2.5	3.0
Volume (in m ³)	3.1	5.25	7.5 or 10 or 12
SWL (in tons)	11 to 33	17 to 80	48 to 80
Available links	D, S or T	D, S or T	D, S or T



OUR FLOATING MOORING SYSTEMS: VARIOUS MOORING CONFIGURATIONS

- Studless and stud link chains: BV and LRQS certified.
- Associated mooring components: swivels, shackles, kenter shackles, etc...
- Sinkers: in concrete or cast-iron.
- Drag Embedment Anchors with test certification, high weight/strength ratio and easy handling and installation: HHP (High Holding Power) type AC-14, Flipper Delta, Danforth, Stevpris, etc...



CONTACT US

- Xavier AUBERT

Managing Director

xavier.aubert@gisman.fr

- Vincent ROGET

Aids to Navigation Director

vincent.roget@gisman.fr

- Olivier MELLET

Technical Sales Manager

olivier.mellet@gisman.fr

- Ornella MAXO-CHARRIER

Sales & Marketing Assistant

ornella.maxochARRIER@gisman.fr

GISMAN SA

12 impasse du Bois
ZA de Kerstran 1
56400 Brech
France

Tel: +33 (0)2 97 29 41 21

Fax: +33 (0)2 97 29 41 30

contact@gisman.fr

www.gisman-sa.com

