RESINEX

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Benefits of Polyethylene Buoys

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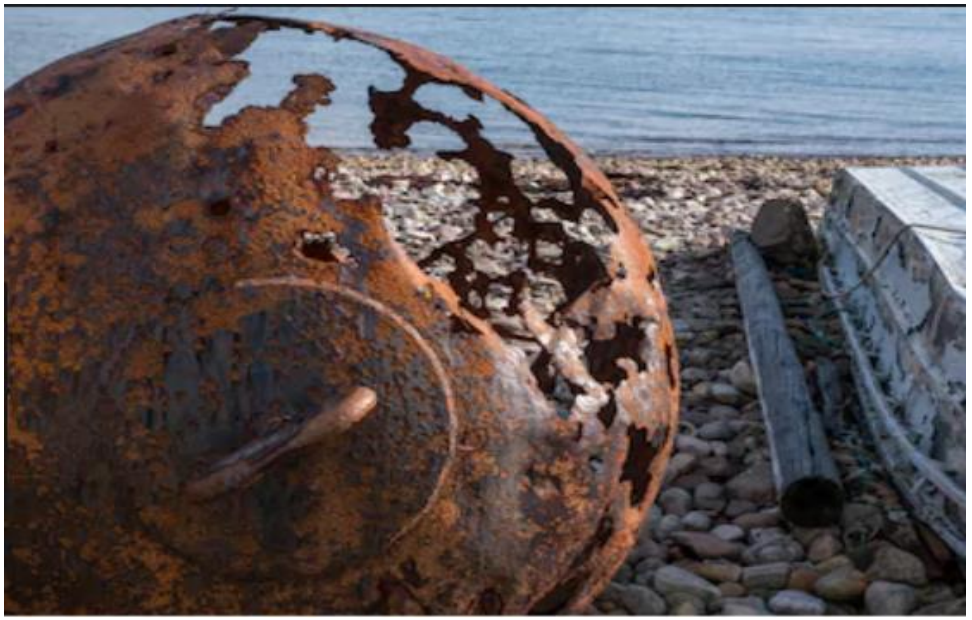

Benefits of Polyethylene Buoys

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	POLYETHYLENE	STEEL
SIZE AND BUOYANCY	They are smaller than the steel ones with the same net buoyancy, due to the lower specific weight of the material	They have lower net buoyancy than polyethylene ones with the same size, due to the higher specific weight of the material
FILLING	Unsinkable (also in case of crash) due to the closed-cell polyurethane foam filling	Sinkable (they must be empty to allow internal inspection)
ASSEMBLY	Plastic floats can be modular and easily assembled on the central steel structure	Steel buoys are not modular

Benefits of Polyethylene Buoys

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	POLYETHYLENE	STEEL
COLOUR	Manufactured with colored polyethylene in the mass and stabilized against UV rays	Paint on steel floats has a limited lifetime
CATHODIC PROTECTION	Plastic is not subject to corrosion	Subject to corrosion and need to be protected with zinc anodes

Benefits of Polyethylene Buoys

	POLYETHYLENE	STEEL
SHIPPING & TRANSPORTATION	They can be shipped disassembled in standard size containers saving transportation costs (any size up to 6 m of diameter) No need for heavy lifting facilities	Steel buoys need special transportation and they cannot be containerized; in that case transportation is much more expensive than a standard shipment Heavy lifting facilities
ENVIRONMENTAL IMPACT	Reduced weight of PE buoys implies less servicing vessels and fuel consumption	Heavier weight and more servicing vessels imply more fuel consumption

Benefits of Polyethylene Buoys

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	POLYETHYLENE	STEEL
REPARATION	In case of damage of some floats, the buoy still works and it is possible to replace only the broken floats	In case of crash, buoys could sink and must be recovered onshore to be repaired
REPARATION KIT	Small damages can be repaired at sea with a portable reparation kit	For any reparation, buoys have to be recovered onshore
MAINTENANCE OF FLOATS	Minimal maintenance for the lifetime (not less than 20 years)	Need very frequent and expensive maintenance (sandblasting, painting, welding)

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Some of our latest projects: Support and mooring polyethylene buoys

Project in Norway

- Year: 1991
- Quantity: 1
- Depth: 60 m
- Diameter: 4,3 m
- Height: 10 m
- NB: 72.000 kg

Project in Malaysia

- Year: 2005
- Quantity: 2
- SWL: 75 t
- Diameter: 5,8 m
- Height: 2 m
- NB: 40.000 kg

Project in Malaysia

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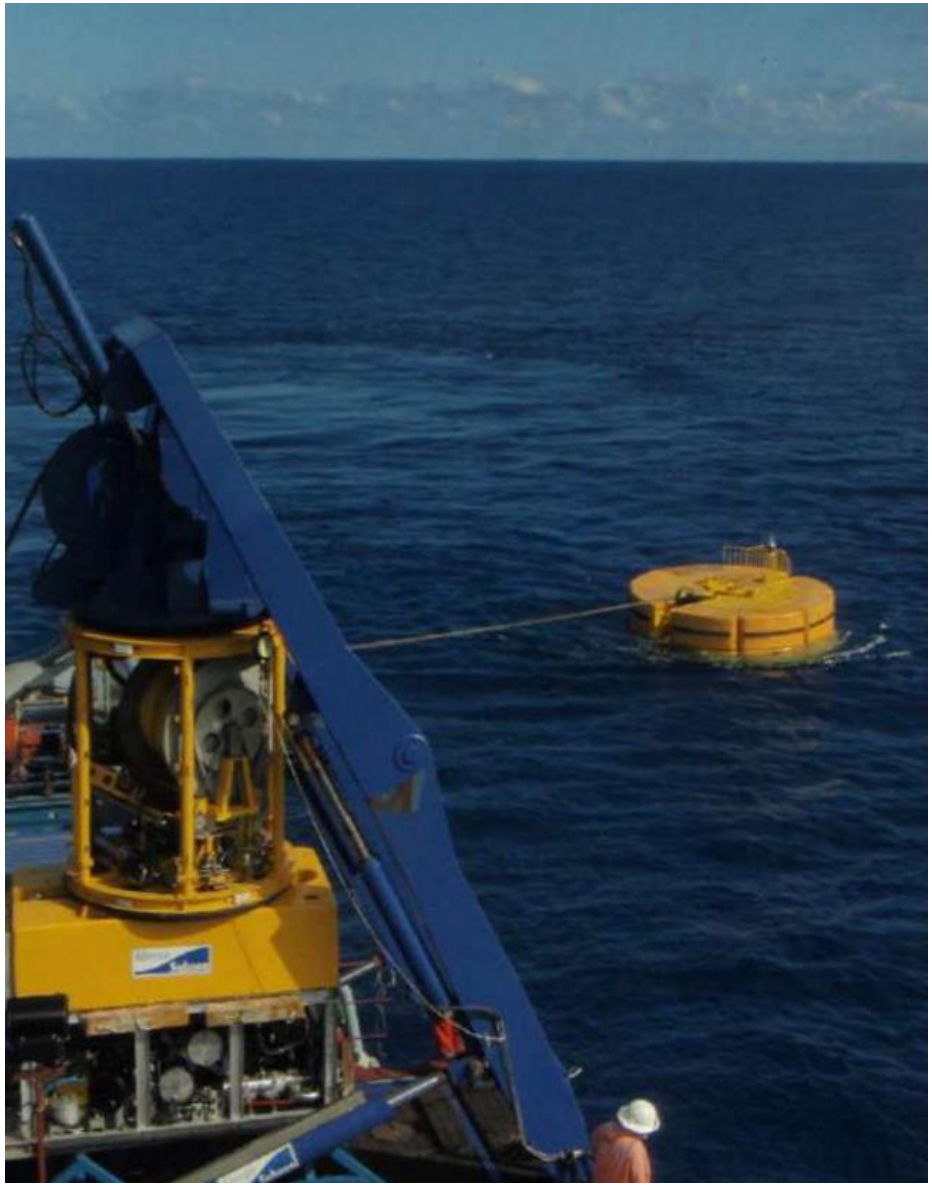

Project in Venezuela

- Year: 2008
- Quantity: 1
- SWL: 75 t
- Diameter: 4,3 m
- Height: 2,2 m
- NB: 24.500 kg

Project in Venezuela

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Project in Italy

- Year: 2008
- Quantity: 1
- SWL: 250 t
- Diameter: 5,8 m
- Height: 3 m
- NB: 58.000 kg

Project in Italy

Project in Cameroon

- Year: 2008
- Quantity: 8
- SWL: 90 t
- Diameter: 4,3 m
- Height: 2,2 m
- NB: 24.000 kg

Project in Cameroon

Project in Albania

- Year: 2008
- Quantity: 5
- SWL: 50 t
- Diameter: 4,3 m
- Height: 1,1 m
- NB: 12.000 kg

Project in Albania

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Project in Montenegro

- Year: 2009
- Quantity: 13 + 4
- SWL: 55 t
- Diameter: 2,5 m – 3 m
- Height: 1 m
- NB: 3.350 kg – 5.200 kg

Project in Montenegro

Project in Italy

- Year: 2009
- Quantity: 3
- SWL: 300 t
- Diameter: 5,8 m
- Height: 2,2 m
- NB: 35.500 kg

Project in Italy

Project in Italy

- Year: 2010
- Quantity: 1
- SWL: 50 t
- Diameter: 4,3 m
- Height: 1,1 m
- NB: 12.000 kg

Project in Italy

Project in Tenerife

- Year: 2010
- Quantity: 1
- SWL: 150 t
- Diameter: 5 m
- Height: 2,2 m
- NB: 36.000 kg

Project in Tenerife

Project in Venezuela

- Year: 2010
- Quantity: 3
- SWL: 75 t
- Diameter: 4,3 m
- Height: 2,2 m
- NB: 17.500 kg

Project in Venezuela

Project in Kenya

- Year: 2010
- Quantity: 10
- SWL: 75 t
- Diameter: 3 m
- Height: 1,8 m
- NB: 7.300 kg

Project in Kenya

Project in Malaysia

- Year: 2012
- Quantity: 1
- SWL: 75 t
- Diameter: 5,8 m
- Height: 2,5 m
- NB: 40.000 kg

Project in Malaysia

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Project in Malaysia

- Year: 2014
- Quantity: 1
- SWL: 75 t
- Diameter: 5,8 m
- Height: 2,5 m
- NB: 39.600 kg

Project in Malaysia

Project in Java, Indonesia

- Year: 2014
- Quantity: 2
- SWL: 125 t
- Diameter: 4,3 m
- Height: 2,2 m
- NB: 25.800 kg

Project in Java, Indonesia

Project at Adriatic Offshore Area

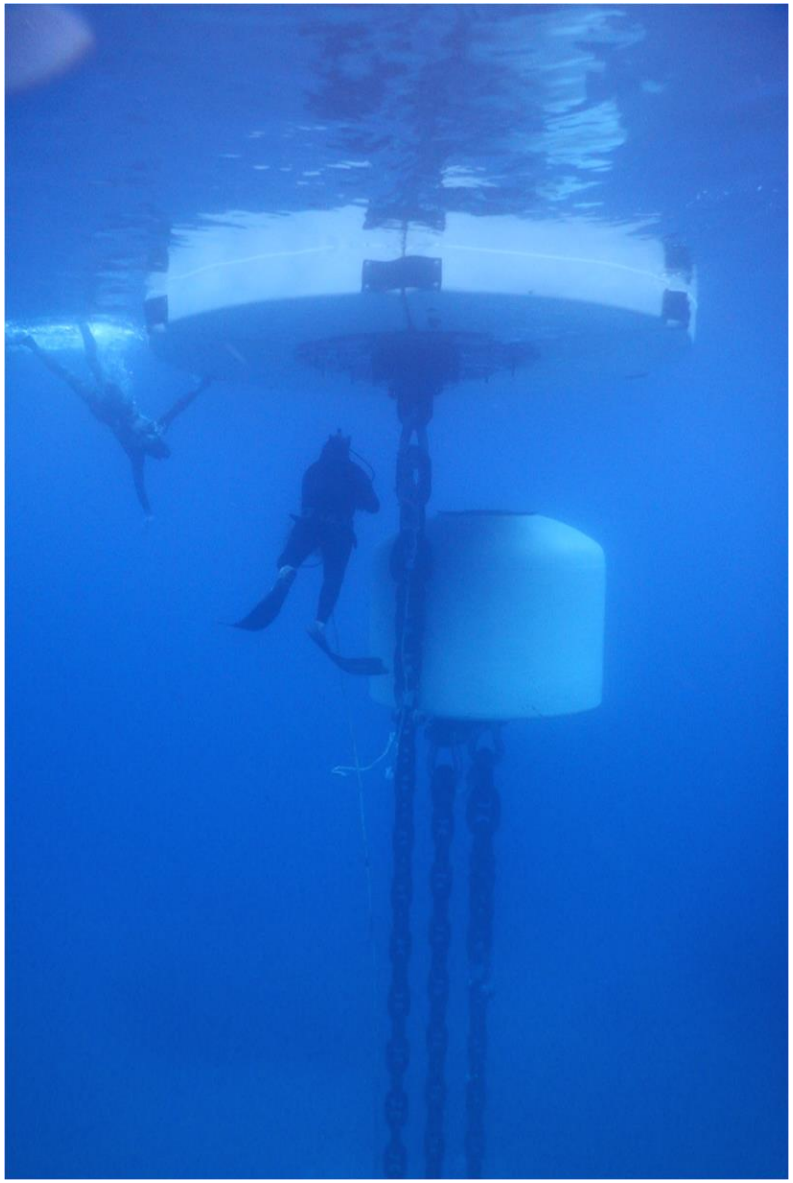
- Year: 2014
- Quantity: 2
- SWL: 75 t
- Diameter: 3 m
- Height: 1,8 m
- NB: 8.200 kg

Project at Adriatic Offshore Area

Project in Italy

- Year: 2015
- Quantity: 1
- SWL: 85 t
- Diameter: 4,3 m
- Height: 1,1 m
- NB: 11.400 kg

Project in Italy



Project in Angola

- Year: 2015
- Quantity: 8
- SWL: 125 t
- Diameter: 5,8 m
- Height: 2 m
- NB: 38.000 kg

Project in Angola

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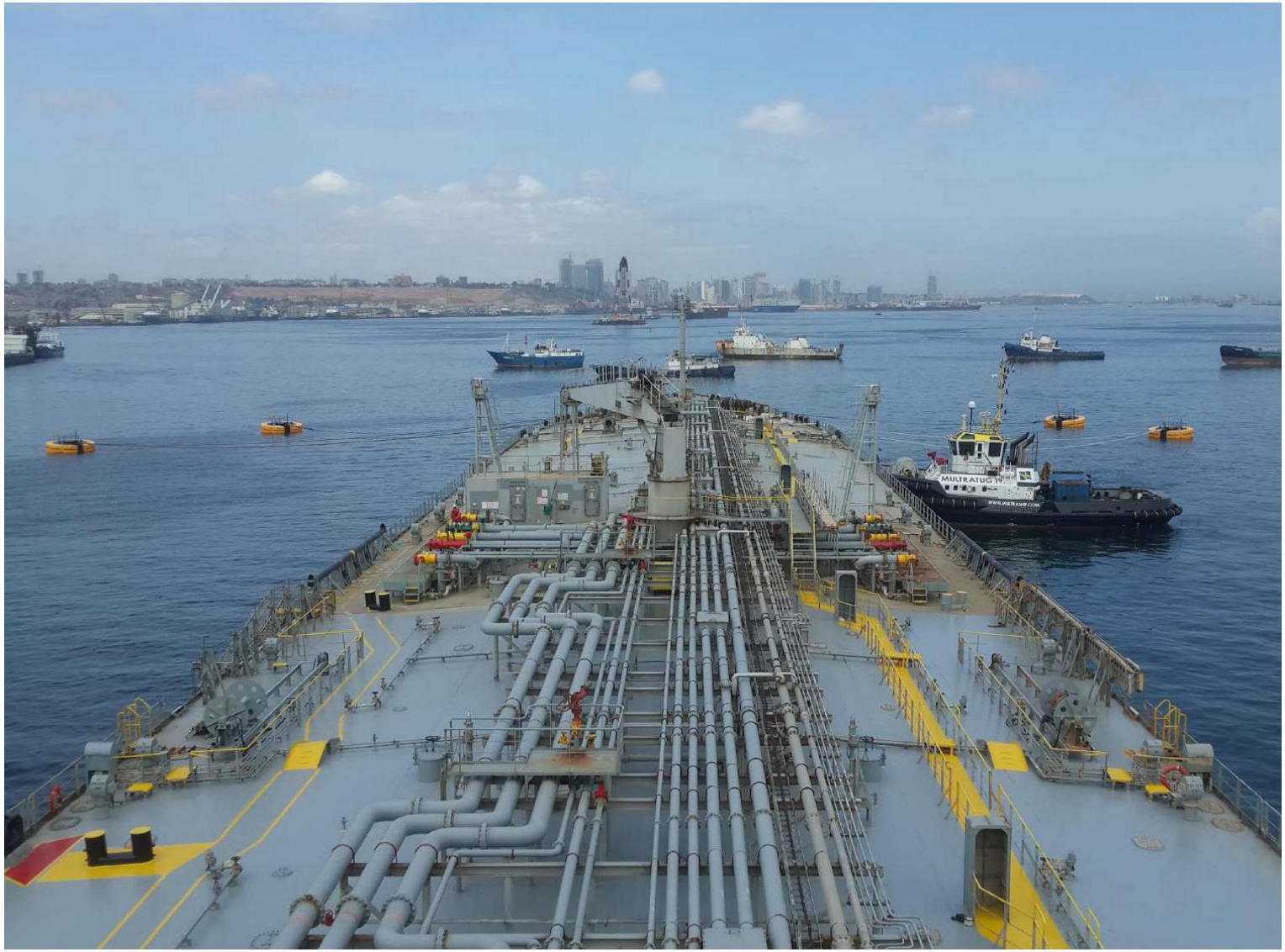


Project in Montenegro

- Year: 2015
- Quantity: 47
- SWL: Different
- Diameter: Different
- Height: Different
- NB: Different

Project in Montenegro

Project in Persian Gulf

- Year: 2016
- Quantity: 2
- SWL: 85 t
- Diameter: 4,5 m
- Height: 1,1
- NB: 11.400 kg

Project in Persian Gulf

Project in Egypt

- Year: 2017
- Quantity: 6
- SWL: 180 t
- Diameter: 5 m
- Height: 2,2 m
- NB: 28.000 kg

Project in Egypt

Project in Angola

- Year: 2017
- Quantity: 2
- Water Depth: 100 m
- Diameter: 4,3 m
- Height: 5,23 m
- NB: 33.500 kg

Project in Angola

Project in Panama

- Place: Year: 2018
- Quantity: 9
- SWL: 275 t
- Diameter: 5,8 m
- Height: 2 m
- NB: 37.000 kg

Project in Panama

Project in Jamaica

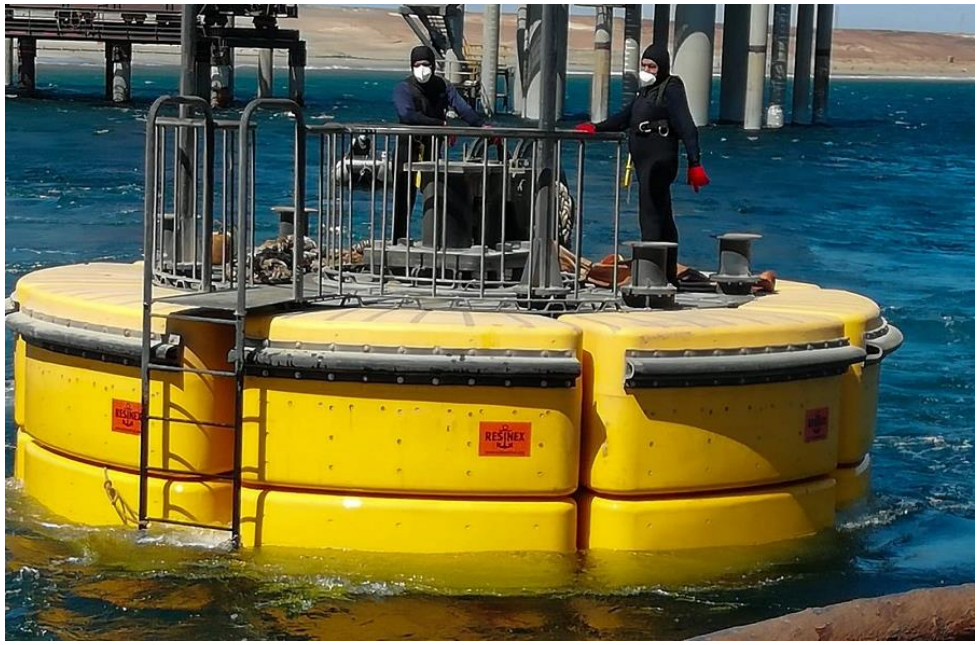
- Place: Year: 2018
- Quantity: 1
- SWL: 105 t
- Diameter: 5 m
- Height: 3,3 m
- NB: 49.000 kg

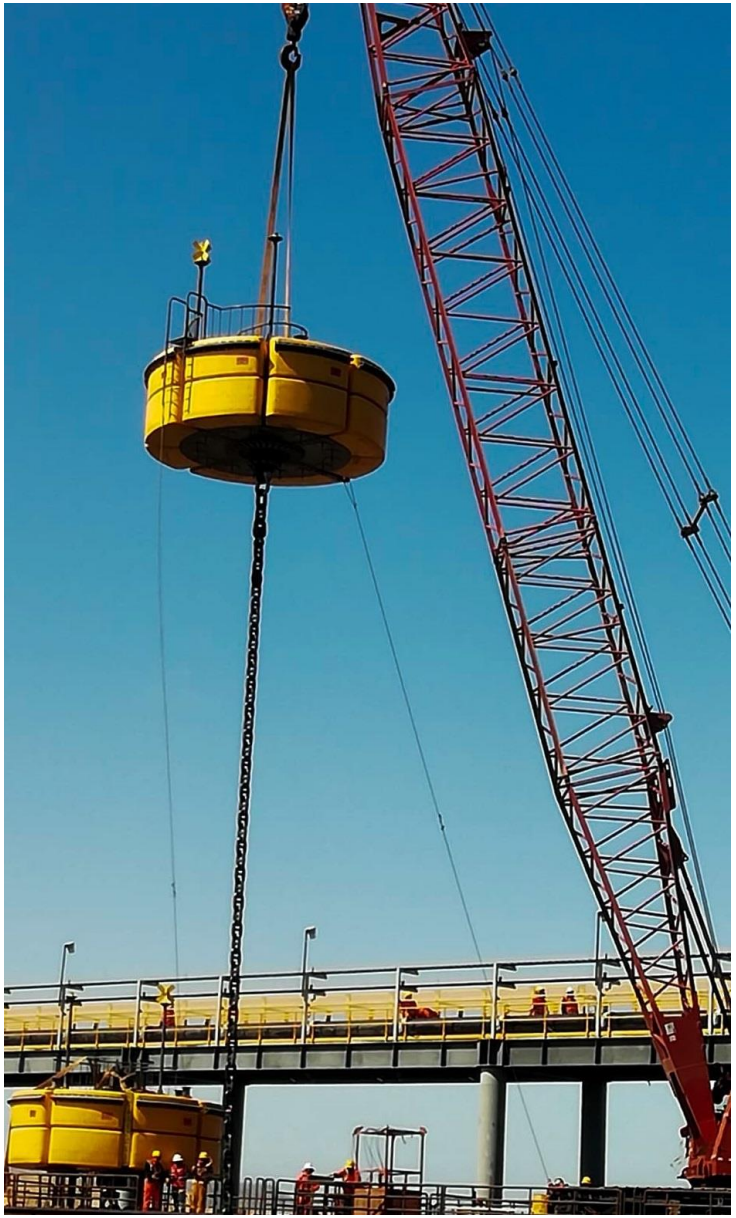
Project in Jamaica

Project in Perù

- Year: 2019
- Quantity: 4
- SWL: 275 t
- Diameter: 5,8 m
- Height: 2 m
- NB: 41.000 kg

Project in Perù





Project in Nigeria

- Year: 2019
- Quantity: 1
- SWL: 125 t
- Diameter: 5,8 m
- Height: 2,2 m
- NB: 45.000 kg

Project in Nigeria

Project in New Caledonia

- Year: 2020
- Quantity: 2
- SWL: 100 t
- Diameter: 4,3 m
- Height: 1,1 m
- NB: 12.900 kg

Project in New Caledonia

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For further information or any request of quotation please contact us:

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