

Quick Release Mooring Buoys

Mampaey Offshore Industries, The Netherlands



mampaey[®]



Mooring Buoys

Offering safe, durable operation with a maximum of operational space

The safe mooring of vessels in the most economical way, that is the main perspective of Mampaey's specially designed mooring buoy. Build from robust, high quality steel and fitted with an adapted version of Mampaey's unique quick release mooring hooks, Mampaey's mooring buoys offer an sturdy mooring solution for vessels undergoing waiting- or charging/discharging procedures. The mooring stability is furthermore reinforced by the direct connection of the anchor chain to the mooring unit.

Because of special coatings, bushings, grease and the use of stainless steel for several (internal) hook parts, the Mampaey mooring buoy offers a durable operation, even in extreme corrosive environments. Safe operation of the mooring hooks in all sea conditions is assured by manually operated, quick release mechanisms.

Mampaey mooring buoys are available in different sizes (according to special requirements and conditions) and can be equipped with several quick release mooring hooks that can be released up to full Safe Working Load.

The following features make the Mampaey mooring buoy even more versatile:

- Load monitoring systems for monitoring loads on each individual mooring hook
- Portable, remote buoy operation from ship- and/or shore system by means of a 4 NM off shore, license free, telemetry system
- Solar panels for charging batteries.





Hook operations

In a standard outfit Mampaey quick release buoy hooks are operated manually. Undesired opening of the hook (because of buoy movement) is prevented by a special locking device. This device is operated manually from a remote line handling vessel.



Electric - hydraulic release

Optionally the mooring hook can be operated safe and simple by a single push-on-a-button. This release mechanism works through a hydraulic cylinder mounted on the mooring hook. Pressure is provided by a power pack mounted in a watertight compartment. Energy is generated by a solar driven battery pack.



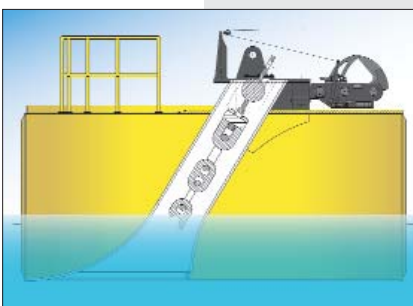
Load monitoring

A mooring load monitoring system is yet one other option to make the operation of Mampaey's quick release mooring hooks more safe and economic. After mooring, valuable information regarding loads, alarms, et cetera are provided and compared with preset data. Mooring loads are measured in metric tons by an integrated load cell, showing the proportional load in the mooring line.



iMoor system

Mampaey's iMoor system consists of ATEX certified components and combines all the best features of Mampaey's mooring products: remote control and/or mooring load monitoring can all be integrated in iMoor. Furthermore the mooring hooks can be monitored and operated from the jetty control room, or on site by means of a portable iMoor mobile device.



Chain connection

Mampaey's Mooring Buoys offer significant advantages in terms of safety, stability and sustainability. These features are the result of the direct connection of the anchor chain to the mooring unit. As a result installation of the buoys can be executed without the use of divers.

Over 100 years safe and reliable mooring and towing systems

Established in 1904 as a local blacksmith, Mampaey Offshore Industries is the proud owner of a long track record in the design, development and manufacturing of unique berthing, mooring and towing systems for the shipping - and petro chemical storage industries. Next to this extensive experience, Mampaey's solid reputation is the result of the outstanding quality of the products that are produced.

Put together, these company assets result in a long lifespan of products at the lowest possible operational costs. Maintenance is reduced to a minimum by using only the best components. And made easy by the small amount of spare parts that are being used in Mampaey products.

The low, total costs of ownership turn every Mampaey solution into a fully rendering investment

Mooring, Towing, Berthing, FPSO



Quick release mooring hooks, with capstan



Quick release towing hook



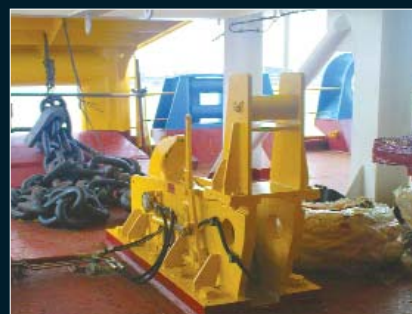
Mampaey innovations:
The Dynamic oval towing system (DOT)



Mampaey innovations:
The iMoor pro active jetty management system



iMoor large LED display



Offshore hooks (FPSO)

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