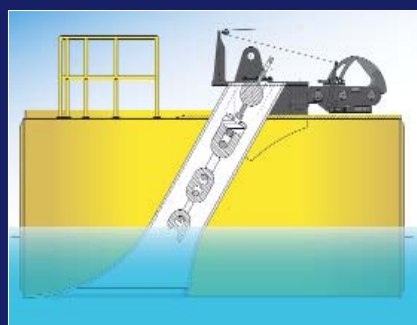


Quick Release Mooring Buoys

Mampaey Offshore Industries, The Netherlands





Mooring Buoys

Mampaey Mooring Buoys are in use to moor vessels during loading and unloading operations or at "waiting areas". Mampaey Mooring Buoys are robust steel buoys which makes mooring safe, even in the severest conditions. The buoys are specially designed by Mampaey to be integrated with the Quick Release Mooring hooks. By connecting the anchor chain to the mooring unit directly, a very stable and sturdy buoy is realized. The stability of the Mampaey Mooring Buoy guarantees a safer operation with a maximum of operational space.

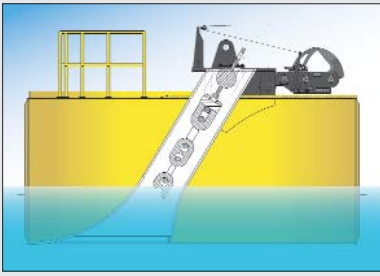
The Quick Release Mooring Hooks are adapted to be used on mooring buoys. Special coating, bushings, grease and some internal parts are manufactured from stainless steel to guarantee the Mampaey quality even in extreme corrosive environments. Additionally a special manual release mechanism assures the safe operation of the hooks in all sea conditions.

The buoys can be equipped with a maximum of 3 mooring hooks that can be released up to the full working load. Different buoy sizes are available depending upon the requirements and conditions.

Optionally the buoys can be equipped with the following features:

- Load Monitoring System for visualizing loads applied on each hook.
- Remote Buoy Operation from Ship system (portable) and/or shore system by means of telemetry system up to 4NM offshore license free.
- Solar panels for charging batteries





Chain Connection

One of the unique features of the Mampaey Mooring Buoy is that the anchor chain is connected directly to the mooring unit. This offers significant advantages in terms of safety, stability and durability. Due to this special connection the installation of the buoys can be performed without divers.



Hook Operations

Standard the Mampaey Quick Release Buoy Hooks are manual operated. A special locking device prevents the hook from being opened due to movements of the buoy and at the same time enables the operator to release the hook manually from a line handling vessel.



Electric - Hydraulic Release

Optionally the hook can be opened by the push of a button. The release mechanism will be operated by means of a hydraulic cylinder mounted at the hook. Hydraulic pressure will be provided from a power-pack mounted below deck in a watertight compartment. Batteries provide the required energy and are charged by Solar panels.



Load Monitoring

Optionally the quick release mooring hooks can be incorporated with a mooring load monitoring system. After the vessel is moored, valuable information such as loads, alarms, etc will be provided against preset data. The mooring load is measured by the integrated load cell, giving the proportional load in the mooring line in tons.



iMoor

iMoor is the optional integrated solution of all Mampaey Mooring products. If remote control and or load monitoring is desired this can be integrated in iMoor. The hooks can be operated and monitored with the iMoor Application Software in the Jetty Control room or on site by iMoor Mobile on a Portable device.



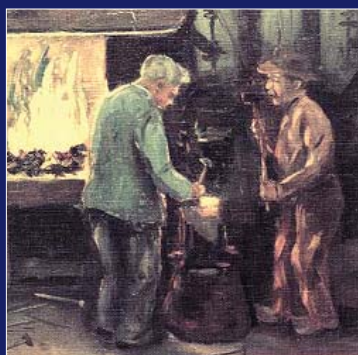
Other Types

The buoy hooks of Mampaey can not only been found on Mampaey Mooring Buoys, but can be ordered separately to be installed on other types of mooring buoys. The hooks are modified to endure even in extreme corrosion sensitive environments with special bushing and lubrication.

Over 100 Years Safe and Reliable Mooring and Towing Systems

Mampaey Offshore Industries is the leading supplier of Mooring, Berthing and Towing Systems, with Safety and Reliability as a shared value. The company, based in the Netherlands, was founded in 1904. Mampaey Offshore Industries is a privately owned company, managed by the fourth generation. Started as a local blacksmith, the company has evolved into a global active supplier that defined industry standards and is ISO 9001 quality approved.

Mampaey has an outstanding reputation with regard to the quality of her products. A track record of 100 years learns that Mampaey products have a long life cycle combined with low operational costs. The Total Cost of Ownership makes every Mampaey product a solid investment.



Mampaey smithery early 1900's



Frank and Gerard Mampaey

Towing



Quick Release Towing Hook

Mooring



Quick Release Mooring Hooks, with Capstan

Berthing



iMoore Berthing Approach System

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