



MOTION COMPENSATION SYSTEMS



ELIMINATING MOTION

REDUCING COSTS

By eliminating vessel motions, Barge Master ensures safe and cost effective offshore operations, including lifting, vessel to vessel and vessel to platform transfers, and surface work. By increasing the workability, costs will be reduced significantly.

SOLUTION

Relatively small vessel motions can have a large impact on the safety and workability of offshore operations. Barge Master provides the solution to deal with these sea induced vessel motions during offshore operations. Barge Master's standard and custom motion compensation systems improve safety and workability in offshore operations.

OUR PARTNERS

Barge Master systems are developed together with a number of selected technology partners. These partners are recognized leaders in their respective industries, all with outstanding track records, allowing us to provide the highest quality and reliability in motion compensation systems.

INNOVATION

The Barge Master concept is patented through the European patent office; industry specialists and the Dutch Government's innovations-office, both, recognize the innovative approach.



BM-T700 in use as a supply platform

BM-T700

MOTION COMPENSATED PLATFORM

Compensation	Heave, Roll & Pitch
Wave height	Hs 0 - 2.5 m
Crane capacity	160 mT at 12 m
Platform payload capacity	700 mT

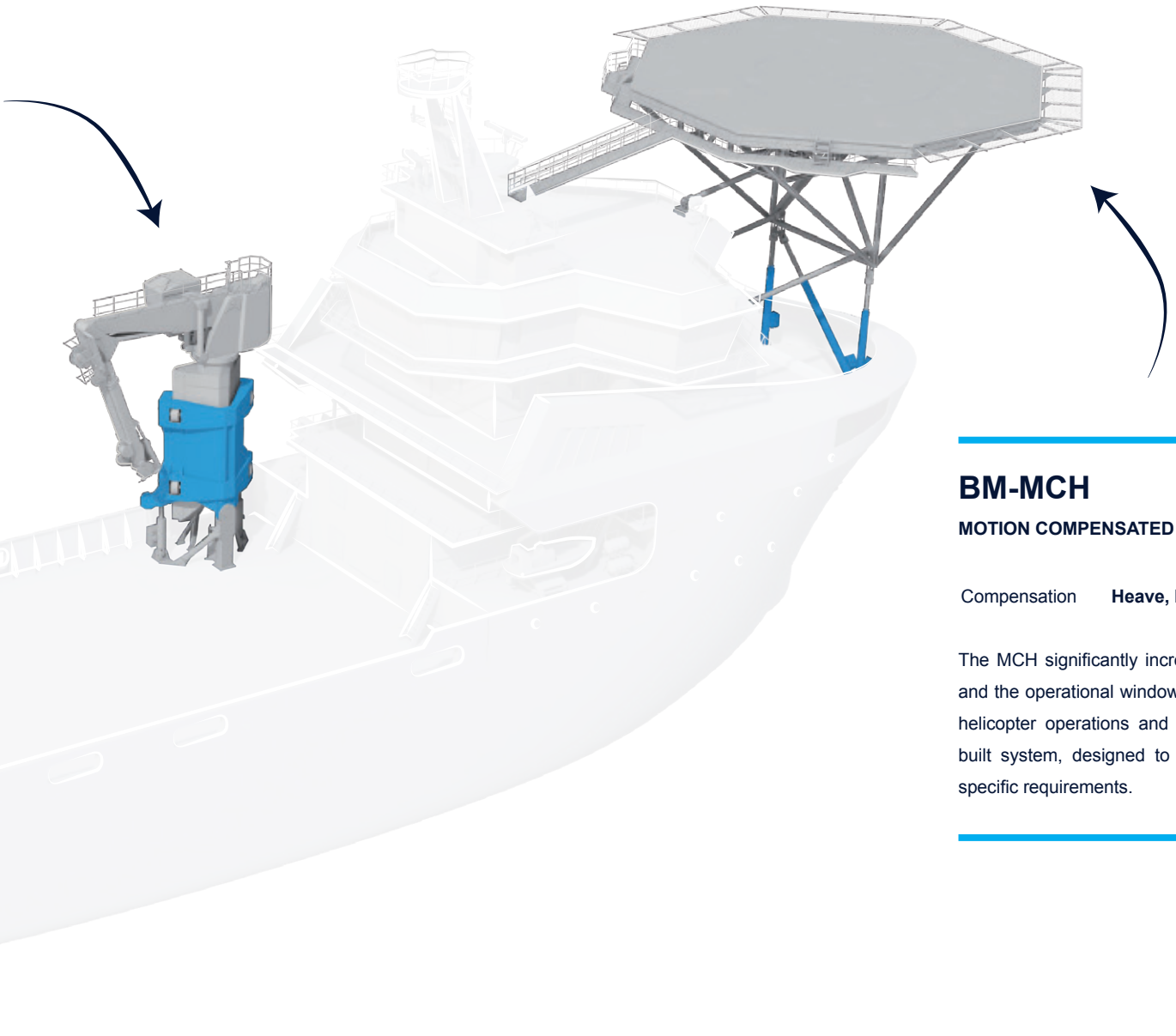
Lloyd's Register certified

BM-T40

MOTION COMPENSATED KNUCKLE BOOM CRANE

Compensation	Heave, Roll & Pitch
Wave height	Hs 0 - 3 m
Crane capacity	15 mT at 10 m
	5 mT at 20 m

Lloyd's Register certified
EN13852-1 manriding certified



BM-MCH

MOTION COMPENSATED HELIDECK

Compensation	Heave, Roll & Sway
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The MCH significantly increases safety and the operational window for offshore helicopter operations and is a custom built system, designed to accommodate specific requirements.

APPLICATIONS

Barge Master offers products with a broad range of applications. Essentially all marine operations can be performed safer, quicker and under more adverse sea states when using a Barge Master system. Barge Master predominantly operates in:

- ♦ **Oil & Gas**
Installation, maintenance, decommissioning of platforms, drilling and operational support and subsea intervention;
- ♦ **Offshore Wind**
Construction and maintenance of wind turbines;
- ♦ **Heavy Civil**
Installation and maintenance of bridges and jetties, harbor development;
- ♦ **Marine Salvage**
Cargo salvage and wreck removal.

RENTAL & SALE

The company currently has three standard products; The BM-T700 can carry a 400-600 mT crane, or, alternatively, compensate loads up to 700 mT when used as a supply platform. The BM-T40 system has a smaller footprint and is capable of compensating a knuckle boom crane with an offshore capacity of 15 mT. The BM-MCH provides a stable platform for offshore helicopter landings.

Since the entire BM-T700 system is fully containerized, mobilization costs are kept to a minimum and the system can easily be mobilized on a barge or other vessel of opportunity.

The BM-T40 and BM-MCH systems can be integrated into a new vessel or retrofitted to an existing vessel.

CUSTOM BUILT

Custom built Barge Master systems are developed and built according to client specific requirements. Get in touch with us to discuss your project.

TECHNOLOGY

Barge Master measures vessel motions and actively compensates one translation (heave) and two rotations (roll and pitch) by means of three hydraulic cylinders. The translations (surge and sway) and one rotation (yaw) of the vessel or barge can be constrained by using a dynamic positioning or a traditional anchor system.

The BM-MCH (Motion Compensated Helideck) compensation of translation 'sway' can virtually eliminate the impact of severe rolling movements of the ship. Mitigation of these motions can be very critical, given the height of the helideck on board the ship.

Barge Master technology can be applied to compensate any motion of a vessel, ensuring that the compensated platform or deck maintains a level and stable configuration.



BM-T40 motion compensated knuckle boom crane



BM-T700 motion compensating platform in use as a crane platform



INCREASED SAFETY AND WORKABILITY WHILE REDUCING COSTS OF OFFSHORE OPERATIONS

