

# FLOATING, FAST MOTION COMPENSATED BLADE EXCHANGER



**BARGE MASTER**  
MOTION COMPENSATION SYSTEMS



## BLADE EXCHANGER

Within a consortium Barge Master and TWD have developed a revolutionary new way for the exchange and repair of blades offshore: The Blade Exchanger. By converting a former oil&gas asset into a stable vessel with a large deck space, we provide a fast and safe solution for the increasing need of blade repairs. Current state of the art solutions are expensive, have a low workability and questionable quality of repair.

Our vast track record of motion compensated solutions and tools for the offshore wind industry allows us to come up with this motion compensated setup, based on our proven BM-T700 system.

The Blade Exchanger has a high year round workability. Because the blade is controlled by a modified crane, no suspended loads are present, making the operation less wind speed dependent. The Blade Exchanger is suited for fast response after incidents, but is perfectly fit for larger exchange campaigns as well. Up to 6 blades can be stored on deck. A controlled environment for the cleaning and repair of blades ensures the quality of repair. Replacing the need for rope access or jacking nearby an existing turbine.

## GENERAL

Transit speed	10 knots
Capacity	6 blades
Blade weight	30 tons
DP2, no mooring	
Stable work environment	45 pax
Deck space	40 x 35 m

## COMPENSATION

Wave height up to	$H_s$ 1,5 m
Wave period	3 - 12 s
Motion at blade	< 10 mm

Compensated access to TP

Motion compensated crane:

- Barge Master platform BM-T700
- Modified telescopic crane up to Nacelle height 80 m

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**T W D**  
TEMPORARY WORKS DESIGN



*3D motion compensated  
platform BM-T700*

