



## MPI Discovery

*Due for delivery in late 2011, the MPI Discovery is the 'next generation' of wind turbine installation vessel and the sister ship to MPI Adventure.*

Like her sister ship, the Discovery will be the world's most advanced and most efficient WTIV, in terms of jacking speed, deck space, lifting capacity and positioning capabilities (DP2).

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# MPI Discovery

*The MPI Discovery's enhanced characteristics have been achieved without losing the original concept of a unique combination of tested technologies, pioneered by MPI on its first WTIV, MPI Resolution.*

The experience gained from operating MPI Resolution in the offshore wind turbine installation market since 2003 has proved vital in implementing these enhancements.

Key features on the MPI Discovery include a 1,000-tonne-capacity main crane, plus a 50-tonne-capacity auxiliary crane, accommodation capacity for 112 persons, a maximum operating depth of 40 metres (at 5.0m leg penetration and 7.8m air gap) and an ability to jack with 6,000 tonnes of cargo onboard.

## General Information

Classification	Det Norske Veritas ✳ 1A1 Self-elevating Wind Turbine Installation Unit Crane Unit-HELDK Crane EO DYNPOS-AUTR CLEAN
Number of Jackup Legs	6 @ 72.545m from keel
Flag State	Netherlands
Operating Area	Unrestricted
Lightship	14,739Te (inc. 72m legs = 17,686Te)
Draft	4.1m (minimum operational depth)
Overall Length	138.55m
Breadth (moulded)	40.80m
Depth (moulded)	10.00m

## Operating Conditions

Service	Unrestricted (as per DNV rules)
Jacking Operations (all concurrent)	2.8m Wave (Hmax) 14m/s wind 2.0kn Total Current
Jacked Survival (all concurrent)	10.0m Wave (Hmax) 36m/s wind 2.0kn Total Current
Maximum Operating Depth*	40m (depending on leg configuration) *At 5.0m leg penetration and 7.8m Air Gap
Maximum Operating Draft	5.5m
Air Draft	66.745m @ 5.8m draft
Crane Operations	21m/s wind speed

## Performance

Transit Speed	12.5 Knots
Maximum Jacking Speed	1m/min (platform handling) 2m/min (leg handling)
Maximum Jacking Load	3,750Te/Leg
Maximum Jack Holding	7,500Te/Leg

## Cargo & Accommodation Capacity

Maximum Deadweight	6,800 T
Maximum Cargo Area	3,600m <sup>2</sup>
Maximum Deck Loading	10.00Te/m <sup>2</sup>
Forklift	50.00Te
Main Crane	Main Hoist 1,000Te @ 26m radius 104m Hook Height Aux Hoist 160Te @ 70.0m radius Trolley Hoist 25Te
Auxiliary Crane	50Te @ 26.0m radius
Accommodation	112 POB 50 Single + Pullman Berths 12 Single Cabins Utilities for 200 Max POB
Utilities	Client Offices, Conference Room, Recreation/ Reading Rooms, Coffee Shop, Galley, Mess, Gymnasium, Sauna, Laundry/Drying Room, M/F Changing Rooms

