



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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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 ²
Maximum Deck Loading	10.00Te/m ²
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

