

Following in the wake of success of MPI Resolution, MPI Offshore have invested in two new builds, MPI Adventure and MPI Discovery.

Delivery of these is spring 2011 and autumn 2011 (available in Europe). Both Vessels have enhanced systems which will maintain MPI-Offshore as the preferred 'Installation Solution.'



Currently MPI Resolution is the first and only purpose built vessel for installing offshore wind turbine components and foundations. MPI Resolution has proved that the Transport Installation Vessel (TIV) concept is the choice of the industry.

At the point of delivery in 2011 MPI Adventure and MPI Discovery will be the second and third purpose built vessels for Offshore Wind.

Their enhanced design features have been sourced and integrated from designing and operating MPI Resolution.

These new built vessels will transport, lift and install more wind turbines and their foundations than any other solution. This is achieved by improved deck space, lifting capacity, jacking speed, increased power and improved environmental operability .

This has been achieved without losing the original concept, of the unique combination of tested technologies, pioneered by MPI Resolution and MPI Offshore.

General Information

Classification	Det Norske Veritas : 1A1 Self-elevating unit, EO, DYNPOS-AUTR, HELDK, CLEAN
Number of Jackup Legs	6 @ 72.00 metres
Flag State	Cyprus
Operating Area	Unrestricted
Endurance	240 Days Maximum Speed, Minimum Crew 36 Days Maximum Crew
Lightship	14,739Te
Lightship Draft	3.5m
Overall Length	138.55m
Breadth (moulded)	40.80m
Depth (moulded)	10.00m

Cargo & Accommodation Capacity

Maximum Deadweight	7,095Te
Maximum Cargo Area	3,600m ²
Maximum Deck Loading	10.00Te/m ²
Forklift	50.00Te
Main Crane	Main Hoist 1,000Te @ 25m radius 104m Hook Height Aux Hoist 160Te @ 70.0m radius Trolley Hoist 20Te
Auxiliary Crane	50Te @ 25.0m 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

Operating Conditions

Service	Unrestricted (as per DNV rules)
Jacking Operations (all concurrent)	3.0m Wave (Hmax) 14m/s wind 1.86m/s Total Current
Jacked Survival (all concurrent)	10.0m Wave (Hmax) 36m/s wind 2.21m/s Total Current
Maximum Operating Depth*	40m (depending on leg configuration) *At 5.0m leg penetration and 7.8m Air Gap
Minimum Operating Draft	3.5m (lightship)
Maximum Operating Draft	5.5m
Air Draft	67m (@ 5m draft)
Crane Operations	16.0m/s wind speed

Performance

Transit Speed	12.5 Knots
Maximum Jacking Speed	60m/hr (platform handling) 120m/hr (leg handling)
Maximum Jacking Load	3,750Te/Leg
Maximum Jack Holding	7,500Te/Leg