

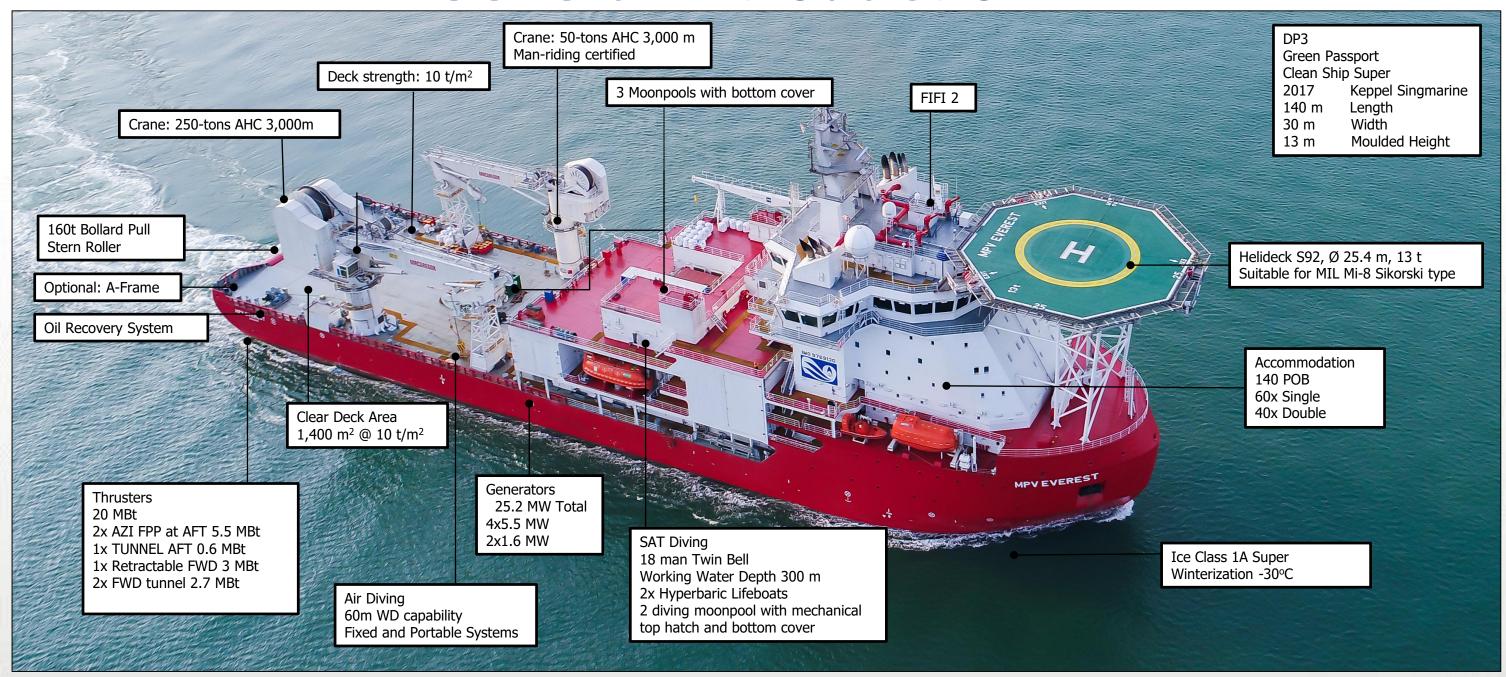
Multi-Purpose Ice Class Construction Vessel

EVEREST

Continues to work safely where others have to stop



General Introduction



The DP3 1A Super ice class multipurpose vessel EVEREST is capable of handling the severest Arctic conditions. **Built to the latest standards this state-of-the-art vessel continues to work safely where other vessels have to stop.** The EVEREST has been designed to execute:

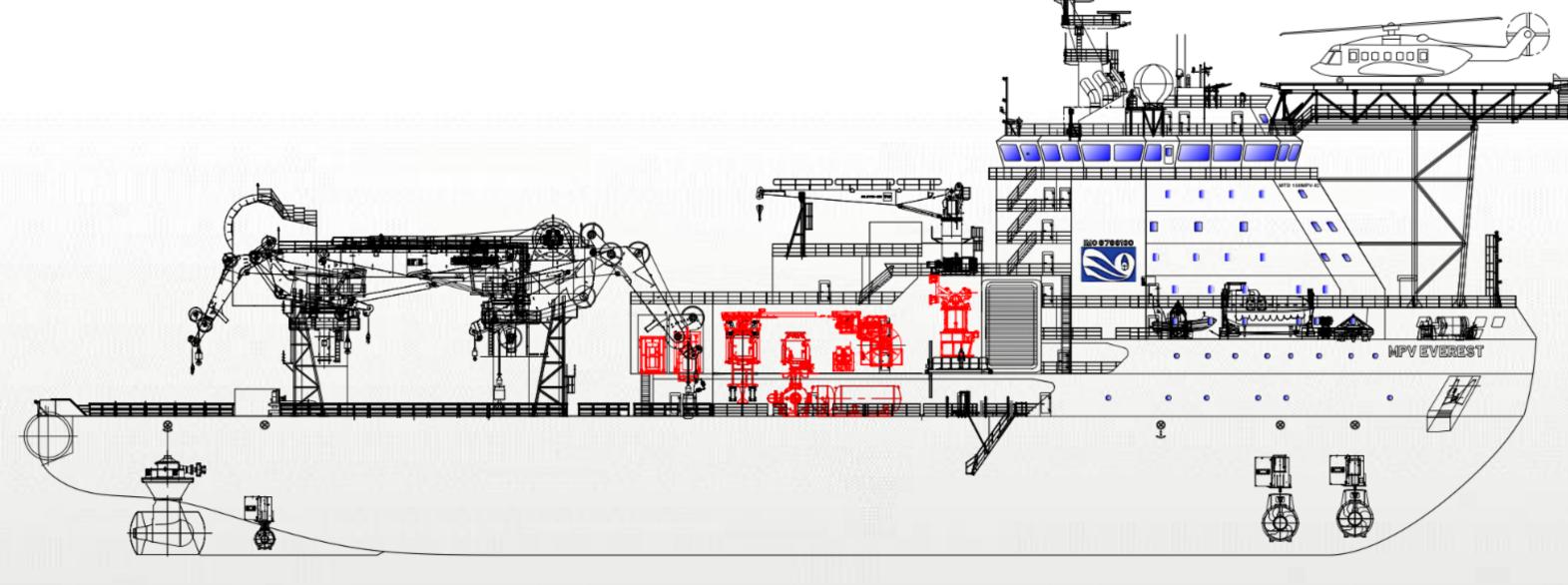
- ✓ Saturation & Air Diving
- ✓ ROV Support
- ✓ IRM / IRRM and SURF Installation
- ✓ Light & Medium Construction
- ✓ Oil Recovery

- ✓ Geophysical Survey
- ✓ Ice navigation
- ✓ Umbilical & Cable Installation
- ✓ Deepwater Intervention
- ✓ Light Well Intervention

- ✓ Trenching and burial of pipelines and cables
- Accommodation services
- Arctic and Antarctic Research
- ✓ Pipelay (Rigid/Flexibles)



General Arrangement & Dimensions



Vessel name

Type

Year of production

Builder

Length x width x height

Draft summer

Draft scantling

Register tonnage

Fuel consumption in DP3

- MPV Everest
- ▶ Ice Class Multipurpose Construction Vessel
- **2017**
- ▶ Keppel Singmarine Pte Ltd
- 140 x 30 x 13 m
- ▶ 8.2 m
- ▶ 8.7 m
- > 30,000 t
- > 25 to 35 ton / day

Accommodation

Deadweight @ 8.2m draft

Max design speed

Economic design speed

Bollard Pull

Endurance

Fuel Oil

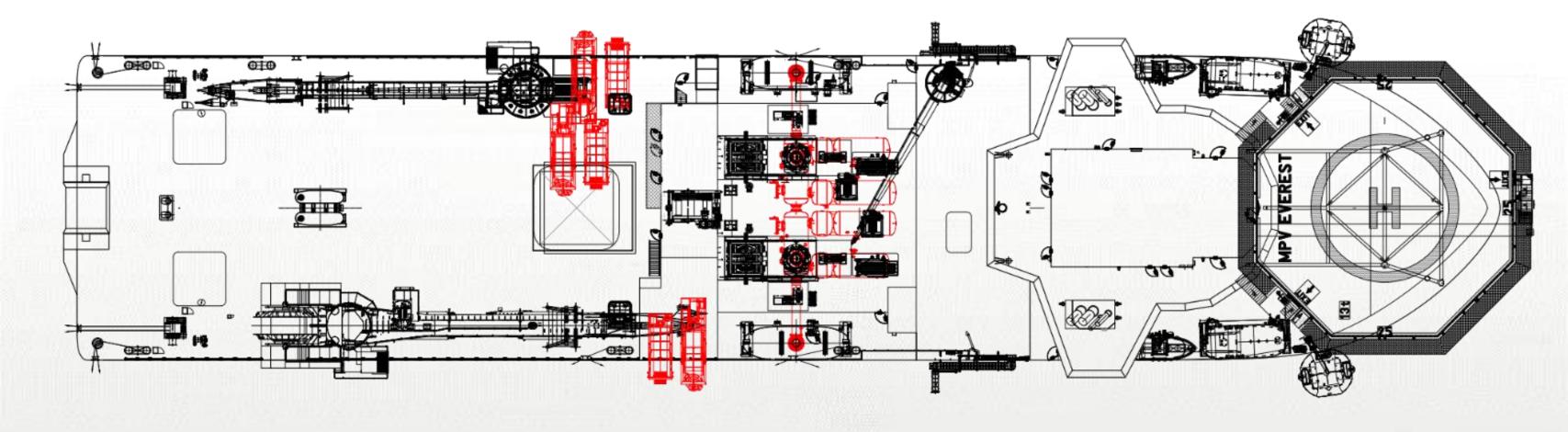
Helideck

- ▶ 140 personnel / 100 cabins
- > 7,200 t
- ▶ 13.5 knots
- ▶ 12 knots
- ▶ 162 t
- ▶ 50 day
- ▶ 4,960 m³
- ▶ Ø 25.4 m, 13 t, Suitable for MILMi-8 Sikorski type



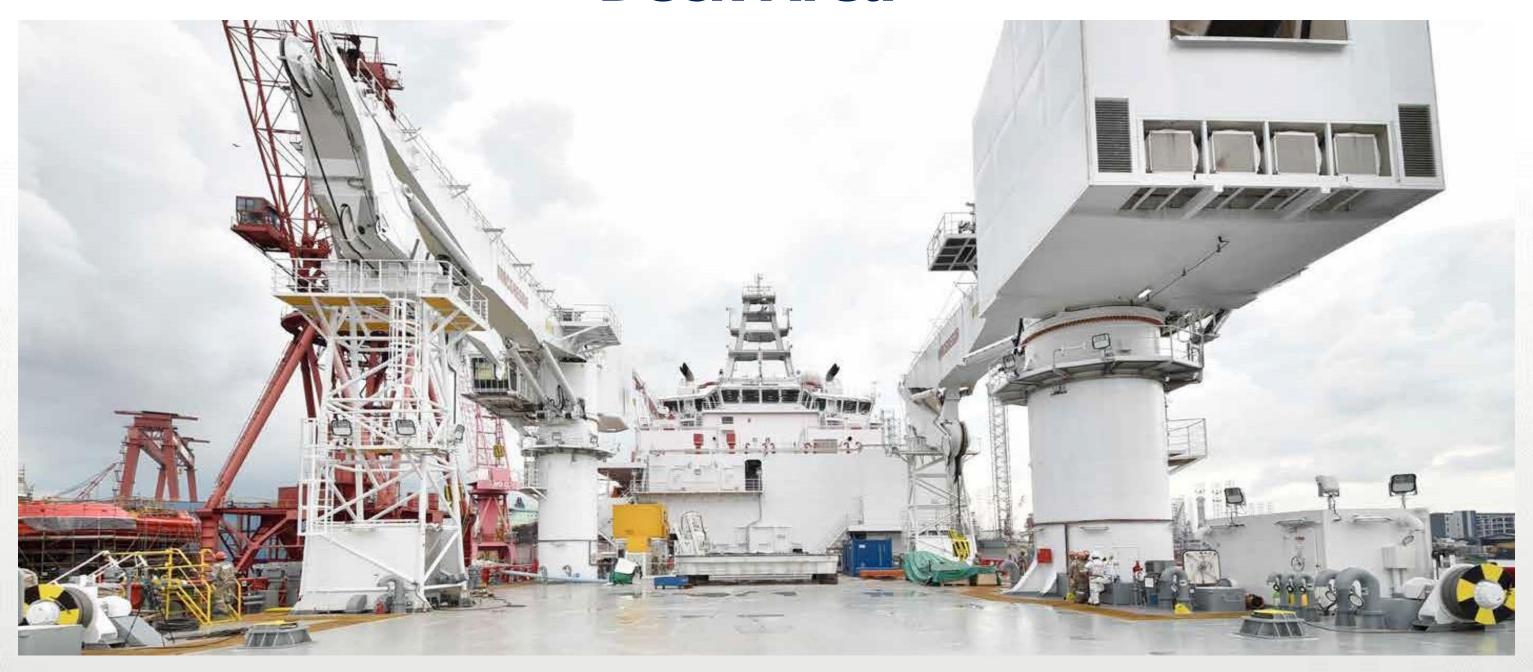
IntroSpecs, GA & ClassDeck & CranageDP3 SystemElectricPropulsionAdd. CapabilitiesAbout MCSContact

Class



- ▶ 1¾HULL ¾MACH, Diving support-integrated DD SD, Fire fighting ship 2, Oil recovery ship, Special service Multi-Purpose Support Vessel, Multi-Purpose Support Vessel SP140 -heavycargo (main deck 98.1 kN/m2), Unrestricted Navigation, ACCOMMODATION, COMF-NOISE3, COMF-VIB3, ¾AUT-UMS, ¾SYS-NEQ-1, GREEN PASSPORT, CLEANSHIP SUPER (BWT, OWS-5ppm, NDO-15 days), ICE CLASS 1A SUPER, ¾ALM, ¾HEL, INWATERSURVEY, ¾DYNPOS AM/ATRS, SDS, COLD (H-30, E-30), SPS
- RMRS > KM 🕏, AUT1, OMBO, DYNPOS-3, ANTI-ICE, ECO-S, HELIDECK, WINTERIZATION (-30), Special Purpose Ship

Deck Area



Clear Deck Area Deck strength

Deck Cargo (VCG 2 m abovedeck)

Moonpool

- ▶ 1,400 m²
- ▶ 10 t/m²
- ▶ 4,500 mt
- > 7.2 m x 7.2 m with hydraulic bottom cover



Cranes



250-tons

MacGregor Offshore Knuckle Jib Crane HMC 4240 LKO 650-35 (2500-15) knuckle boom crane for 3,000 m with Active Heave Compensation (AHC), 250 mT @ 12,5m, 55 mT @ 35m

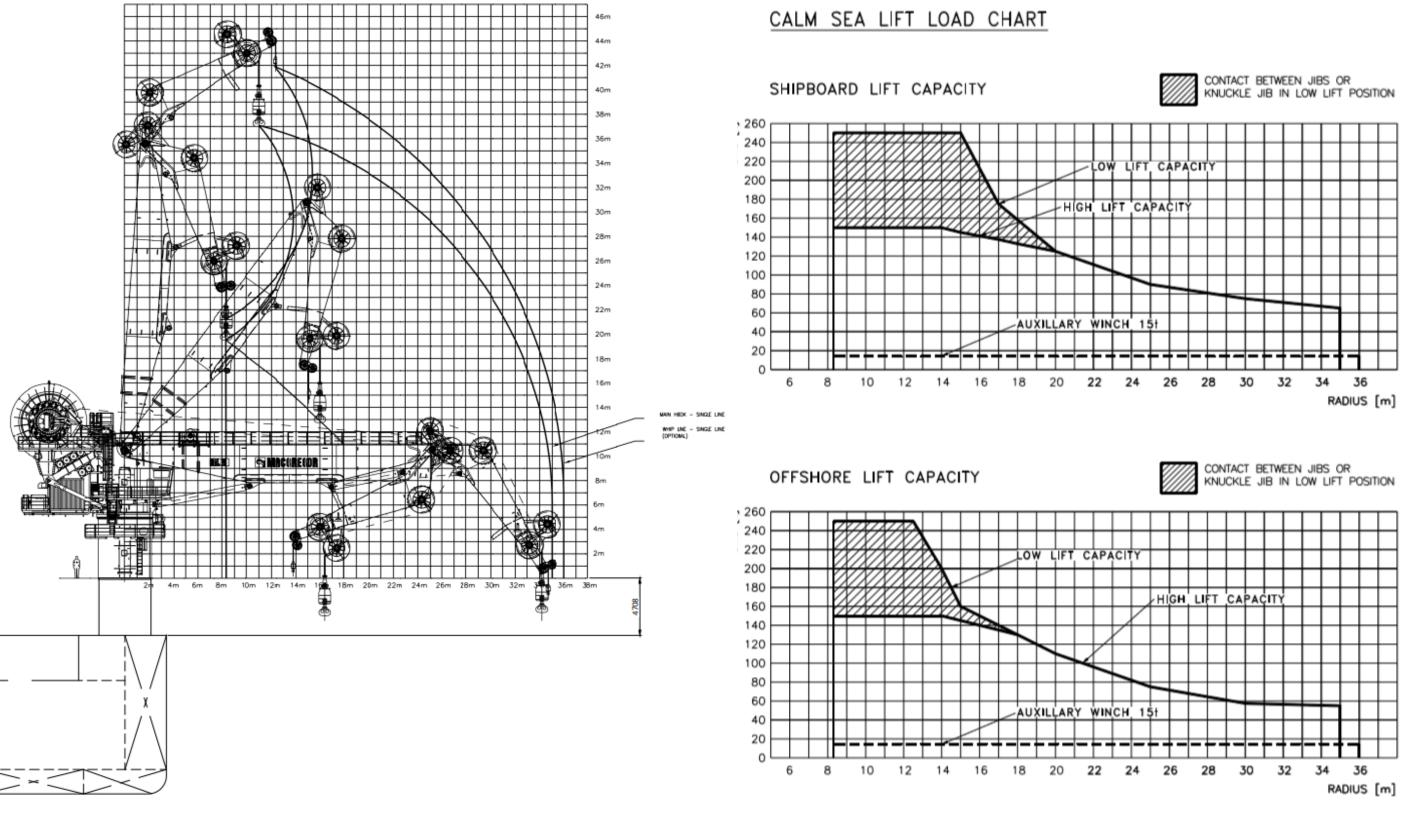
50-tons

Provision crane

Travelling bridge crane

- MacGregor Offshore Knuckle Jib Crane HMC 3293 LKO 250-30 (500-18) AHC 3,000 m, 50 mT @ 16 m, 20 mT @ 30 m, man-riding certified
- Deck-loaded marine crane, 10 mT under the safe working capacity with the boom length 15 m
- ▶ 2 traveling bridge cranes, 1 mT under the safe working capacity with the boom length 15 m

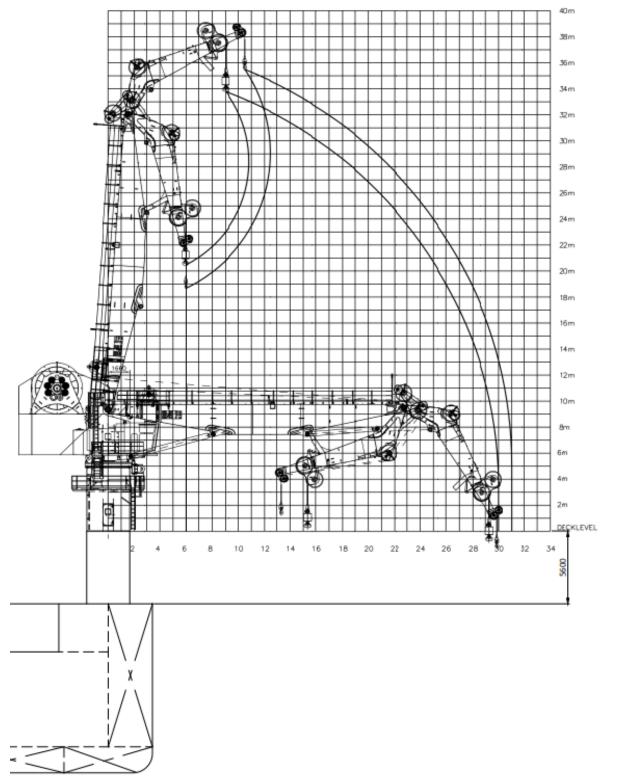
250 mT Main Crane Capacity Chart



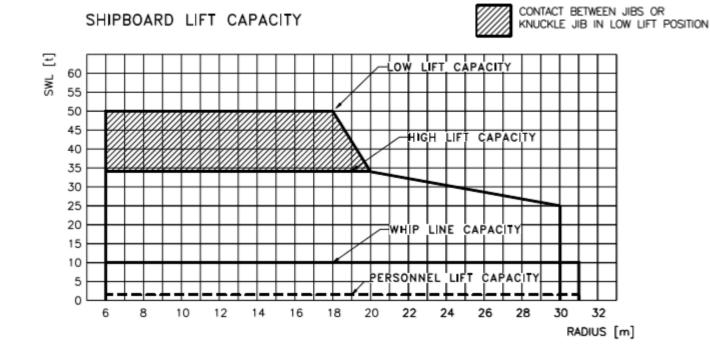


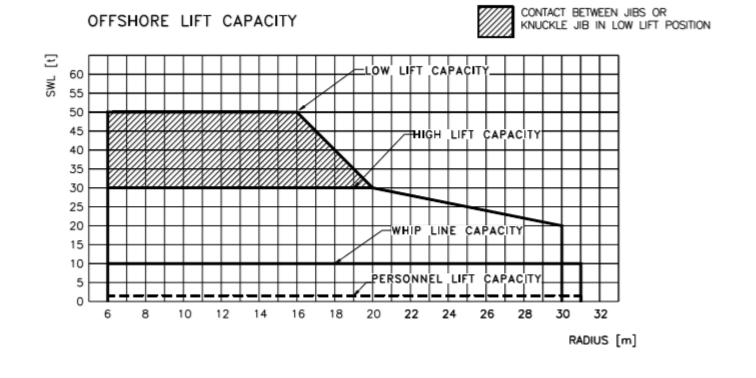
Propulsion

50 mT Main Crane Capacity Chart



CALM SEA LIFT LOAD CHART

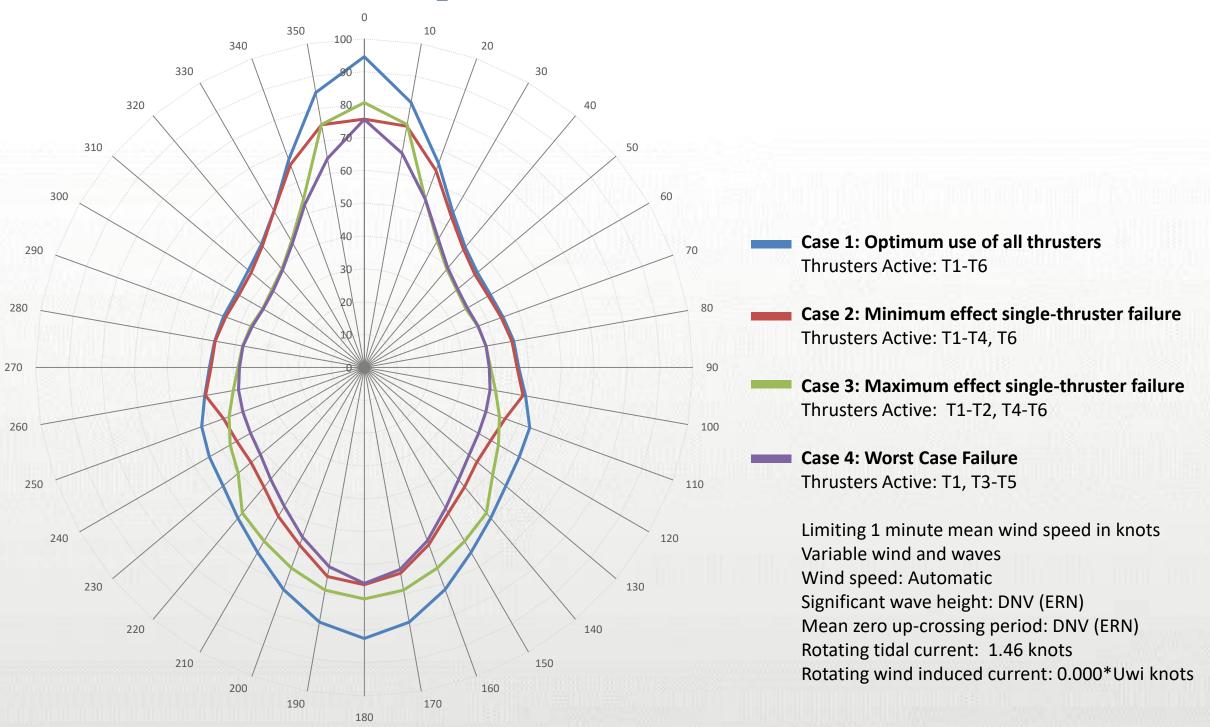






<u>Intro</u>

DP3 System



DYNPOS ERN Reference Systems

- DPS 3
- **99, 99, 98, 97**
- ▶ 3 x Gyrocompass (also used for navigation), 2 x Differential GPS, 3 x Motion Reference Unit (MRU), 3 x Ultrasonic Wind Sensors, 1 x RADius unit with omni-directional capability (4 sensor heads), 1 x omni-directional laser-based relative position sensor, 2 x HiPAP, Bandak Light weight tautwire (starboard side)



Accommodation





Personnel Cabin **140**

Single cabin: 60Double cabin: 40

All cabins are fully airconditioned with ensuite bathroom

MLC Compliant

Facilities

Recreation Room
Meeting Rooms
Gymnasium



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Electric Plant



Main diesel generators

<u>Intro</u>

▶ Total output power ~ 25 200 ekWt, comprising:
 4 x diesel-generators, each 5500 ekWt @ 720 r/min 2 x diesel-generators, each 1600 ekWt @ 900 r/min

Emergency diesel generator

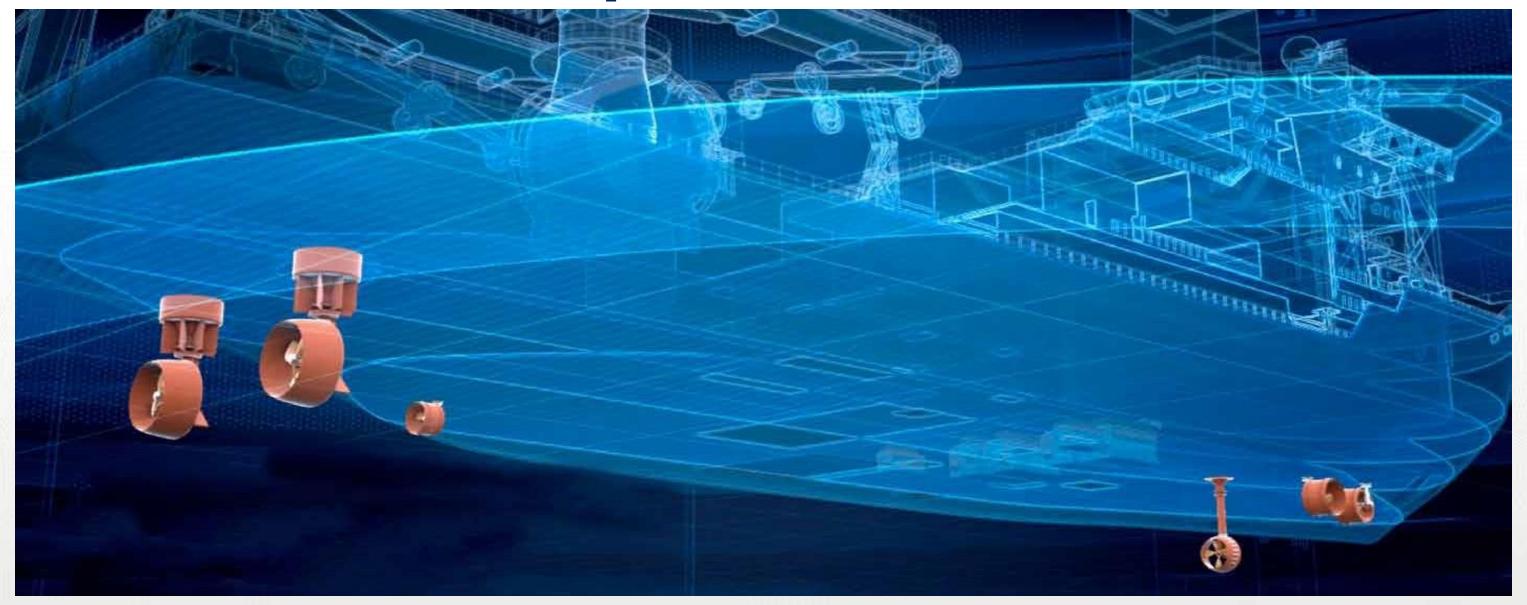
800 ekWt x 440Vx 3 phase x 60 Hz x 1800 r/min
 1300 ekWt x 440V x 3 phase x 60 Hz x 1800 r/min



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Contact

Propulsion Plant

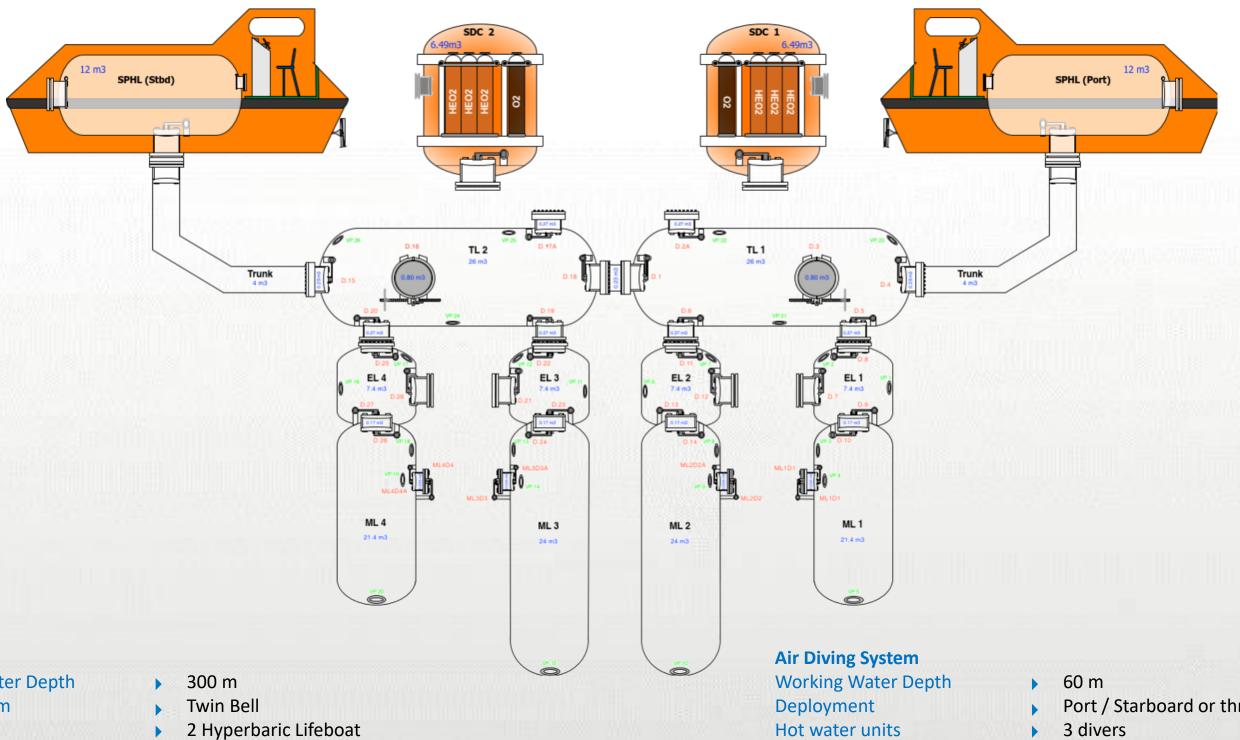


Number of Thrusters Total Thruster Power Main Propulsion (Aft) Retractable Thruster (Fwd) Tunnel Thruster (Fwd) Tunnel Thruster (Aft)

- **6**
- > 20 000 kW
- > 2 Azimuth FPP at stern, each 5,500 kW @ 600 rpm
- ▶ 1 Azimuth FPP, 3000 kW @ 1200 rpm
- > 2 CPP at bow, each 2700 kW @ 900 rpm
- ▶ 1 CPP at stern, each 600 kW @ 1200 rpm



SAT & Air Diving



SAT System

Working Water Depth Depth System

Lifeboat

Capacity

Dedicated Diving Moonpools >

- 2 Diving Moon pools 4.2 m x 4.2 m with mechanical bottom cover and heading indication system
- 18 man

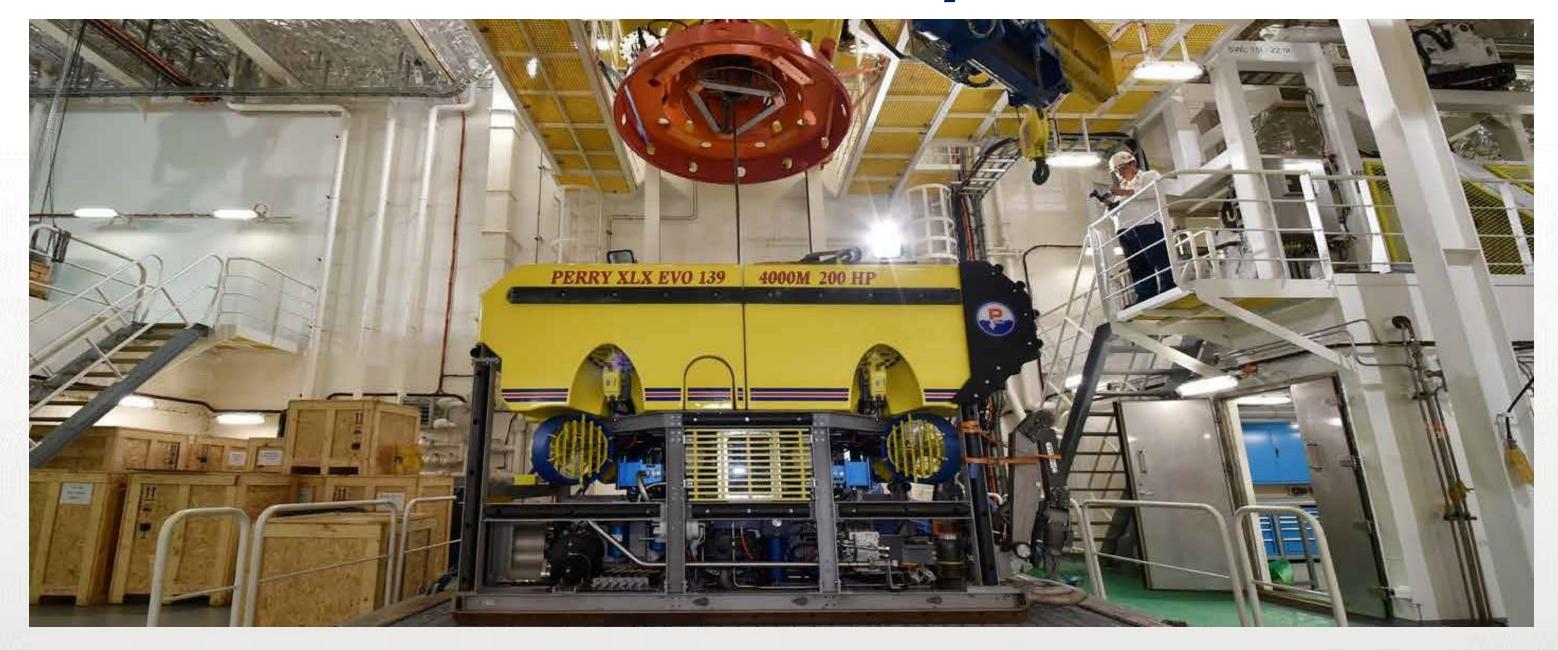
- Port / Starboard or through moonpool
- 3 divers

Depth System

2 LARS with 3 man Wet bell and 2 man basket on each



ROV & Survey



4,000 m waterdepth
3,000 m water depth
Heave compensated LARS
Moonpool with mechanical top hatch

- 2 heavy duty work class 200HP systems Triton XLX EVO 139
- ▶ 1 light work/inspection class system Comanche
- ▶ 2 Heave compensated LARS by A frame over the side
- ▶ Dedicated 5.6 m x 4.2 m ROV Moonpool with mechanical top hatch, bottom cover and heading indication system

<u>Intro</u>

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Add. Capabilities: Oil Recovery



MPV Everest is fitted with an Oil Recovery System for First Response in case of Offshore oil spillage and has a class annotation "OIL RECOVERY SHIP". The system can be hooked up to external hoses and a skimmer system at both Portside and Starboard side.

Oil Recovery Tank Capacity **Pump Capacities Additional Pumps**

- ▶ Portside 649 m³, Starboard side 523 m³, Total Storage: 1055 m³
- > 2x 70m³/hr @ 10b, Total pump capacity: 140 m³/hr @ 10b
- ▶ GTA Heavy Oil Transfer pump which can be fitted with skimmer unit



Add. Capabilities: Umbilical and Flexible Pipe lay



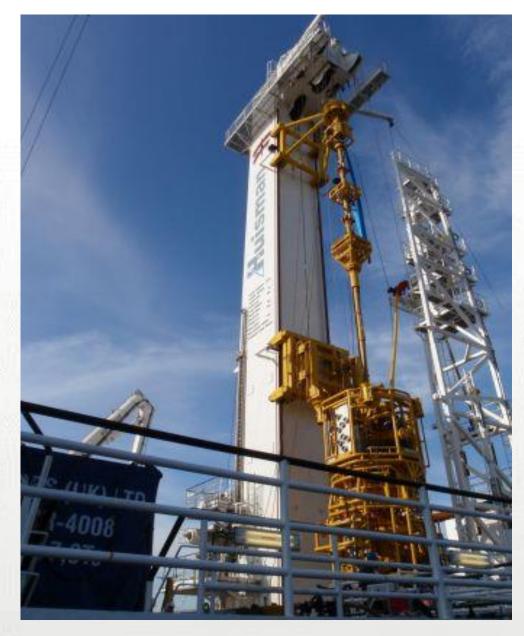


Deck Capacity
Available deck layouts
Pre-Engineering

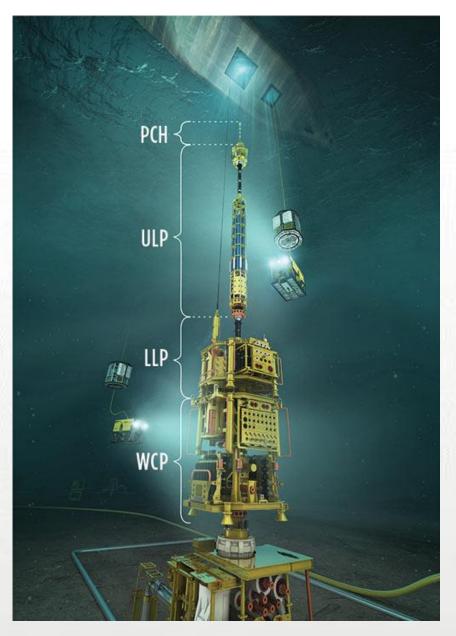
<u>Intro</u>

- ▶ 4,500 MT
- ▶ Carousel, Reel Hub Drive, VLS vertical lay system, HLS horizontal system
- completed

Add. Capabilities: Light Well Intervention









- Module handling tower and AHC hoisting systems, Skidding system, Central & local control HPU & PVU
- ▶ Riserless Well intervention tower, Well intervention Equipment, Chemical Tanks and Storage
- Completed
- ▶ DNV-GL classed and certified to WELL-1 and WIU-1 DNV-GL OS-E101, Drilling ship & 2.22 Lifting appliance

Add. Capabilities: Geotechnical Drilling





Water depth
Drilling depth
Hook load
Pre-Engineering
Systems

- ▶ 3000m
- ▶ 500m
- ▶ 200 MT
- Completed
- Dual Option for hoisting System − Telescopic Mast / Ram Rig, Heave compensator 6m twin system for shallow and deep waters, Liquid Mud & Bulk system on deck, Drilling fluid processing and storage modular system(more that 80m3), Drilling fluid delivery system 6500 psi, Automatic storage and delivery of drill equipment and pipes, Downhole geotechnical tool Wison EP, XP, CPT & TCPT, 20T Seabed frame with hydraulic drive and AHC



Contact



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