

**ENA Wizard**

60 Man / DP2 / 65MT AHC Crane / 928 m2 / MPSV



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60 Berths in en-suite cabins
DP2 Positioning System
Built 2012
65MT, Active Heave Compensated Crane (Upgradeable to 70 MT)
200 m2 ROV Deck
928 m2 Deck Space
Helideck
Large Liquid & Dry Bulk Cargo Capacity
Fitted with Cinema, Offices, Recreation etc

For further information, please contact us:  
 Email: [marketing@easternnavigation.com](mailto:marketing@easternnavigation.com)  
 Telephone: +65 6268 3222

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**Principal Particulars**

Flag	Singapore
Built	2011
Length Overall	87.38 m
Length B.P	80.41 m
Beam Overall	19.00 m
Depth Moulded	8.00 m
Max operating Draft	6.55 m
Deadweight	4,683 tons

**Classification**

DNV +1A1 BIS CLEAN COMF(C-3, V-3) DK(+)  
DYNPOS(AUTR) EO HELDK HL(2.8) OILREC  
SF TMON

**Capacities**

Ship's Fuel Oil	293 m3
Fuel Oil Cargo	982 m3
Total Fuel Oil	1,370 m3
Potable Water	1,368 m3
WB/DW	862 m3
Mud	1,396.4 m3
Dry Bulk	379.8 m3 (7 x 54.3 m3)
Brine	449.7 m3
Base Oil	159.2 m3
ORO	1106.0 m3
Lube/Hyd storage	51 m3 / 6.2 m3
Sewage	13.5 m3
Bilge	13.5 m3
Deck Cargo Area	928 m2 (57.8 x 16.0 m)
Deck Cargo	1,940 tons @ 1m VCG
Cargo Deck Load	5.0 tons/m2
ROV Deck	200 m2 (10.5 x 19 m)
ROV Deck Load	3 tons/m2
ROV Cargo	600 tons @ 1m VCG
ROV Power	1,000 kW DB's 440/3/60

**Machinery & Propulsion Equipment**

Main Engines	2 x 3,000 kW (4,021 bhp each) Wartsila, each with 2,000 kW shaft alternator
Generators	2 x 320 kW diesel generators @ 440V, 3 Phase, 60Hz 1 x 250 kW emergency diesel generator, with harbour function
Propellers	2 x CPP
Bow Thruster	2 x Transverse Tunnel Thruster, 830 kW, Brunvoll
Stern Thruster	2 x Transverse Tunnel Thruster, 830 kW, Brunvoll
Subsea Crane	1 x 70MT TTS Norway Crane SWL 70MT (2,000m hook travel). Currently fitted with 2,400m main hoist wire; SWL 65MT (2,300m hook travel)  Main Hoist: - 65MT @ 11m, - 24.4MT @ 25m, - 2,300m hook travel  Active Heave Compensation: 65MT @ +/- 3m  Auxiliary Hoist: - 10MT @ 25m - 400m hook travel - Man-Riding - 0-50m/min hook speed @10MT  Tugger Winches - 2 attached units - SWL 3MT each - up to 30m hook travel
Auxiliary Crane	1 x 5MT @ 15m, fixed boom

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**Normal Mooring Equipment**

Anchor Windlass	2 x 16MT @ 12.7m/min for chain - 20MT @ 10m/min (Low speed) - 5MT @ 33m/min (High) for mooring line
Anchor	2 x 3,540kg anchors stowed in anchor pockets
Chain Cable	Ø50mm steel grade NVK3
Mooring Lines	4 x 80 m mooring rope, MBL 29MT
Tugger Winch	2x 15MT @ 15.5m/min, 375m x 25 mm diameter wire
Capstan	2 x 10MT @ 0-19m/min, light speed @ 23m/min, variable speed control

**Dynamic Positioning System**

Type	Kongsberg, IMO Class DP2
Reference Systems	1 x Cyscan 2 x DGPS 1 x HiPAP 501 fitted 3 x Wind Anemometer
Acoustic Reference	A-Frame fitted on bow for reference transponder 3,500m wire on transponder winch 2 x HiPAP Trunks
Control	2 x DP Workstations at aft bridge 1 x Independent Joystick

**Navigation and Communication Equipment**

Compass, Autopilot, 3 x Gyrocompass, 2 x Radars, Echo sounder, Doppler speed log, Engine telegraphs, Automatic Identification System, Weather fax receiver, Voyage data recorder, GPS receiver, BNWAS, ECDIS, MF/HF Radio, MF/HF Watch receiver, 3 fixed VHF, 4 portable VHF, Navtex receiver, Inmarsat C-SES satellite system, SSAS, LRIT, Inmarsat system, EPIRB, GMDSS, SART, Marine TV System, Integrated telephone/PA system

**Discharging Rates**

Fresh Water	2 x 150 m3/hr @ 9 bar
Fuel Oil Cargo	2 x 150 m3/hr @ 9 bar
F.O Transfer	2 x 20 m3/hr @ 3 bar
Ballast/DW	2 x 150 m3/hr @ 9 bar
Mud	2 x 75 m3/hr @ 9 bar
Base Oil	1 x 150 m3/hr @ 9 bar
Brine	2 x 75 m3/hr @ 22.5 bar
ORO	6 x 250 m3/hr @ 3 bar
Dry Bulk	2 x 29.5 m3/min @ 6 bar
Flow Meter	Provided for all cargo

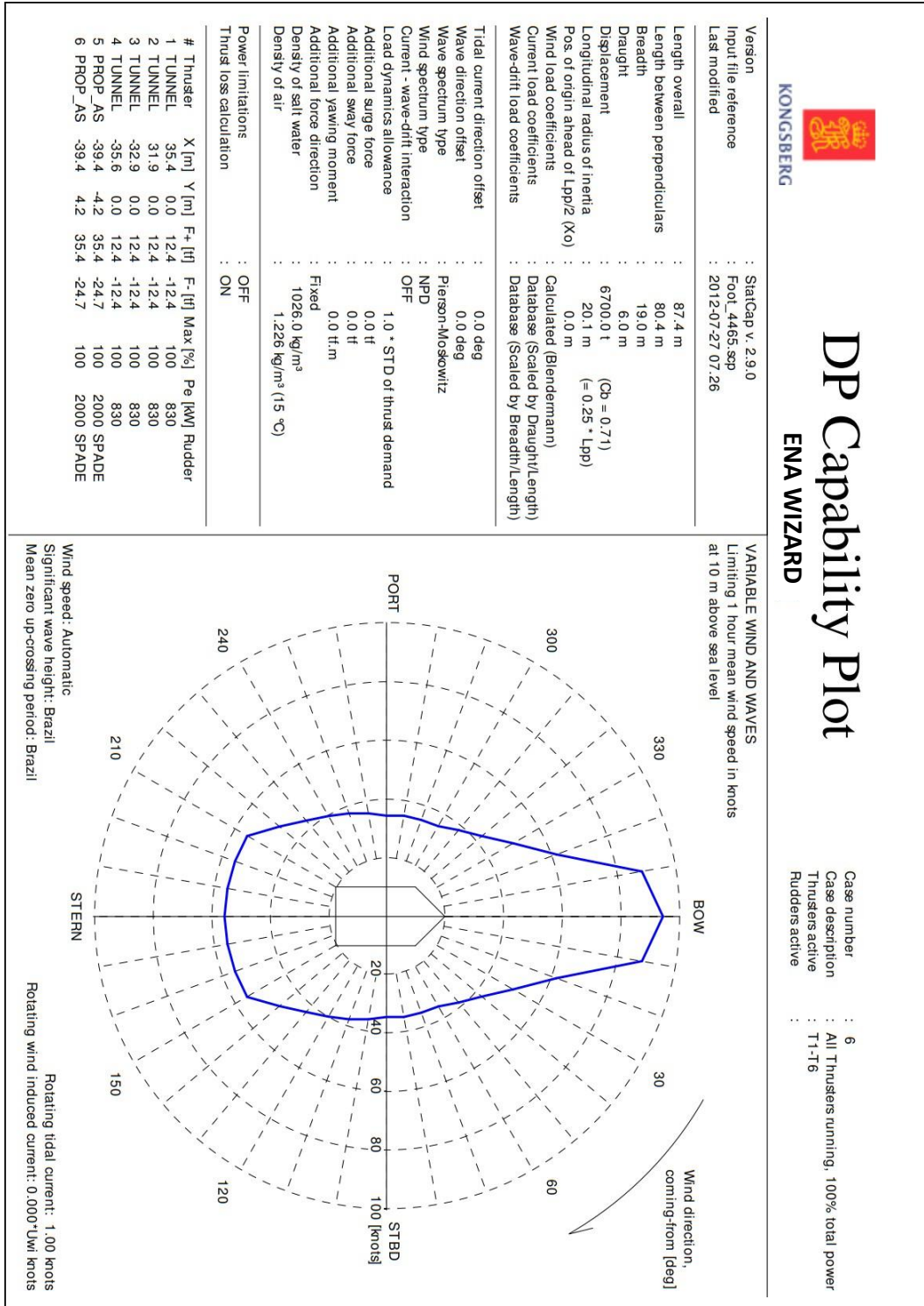
**Life Saving / Rescue Equipment / Pollution Control**

MOB Boat	1 x 6 person with davit (SOLAS)
Oil Recovery	1,106 m3
Slop Tanks	92 m3
Oil Recovery	Oil-Rec Notation. Recovery and dispersant booms, skimmers and
Foam fire-fighting system for helideck, sprinkler system, fixed CO2 system	

**Discharging Rates**

1-Berth Cabins	12
2-Berth Cabins	24
Berths - Total	60
Hospital	1
Recreation/Movie Room	3
Office	4
Conference Room	1
Recreation Room	2
Gym	1
Chiller/Freezer	27.4m3 / 27.6m3
Provisions	37m3
Water Maker	2 x 15 MT/day R.O. type

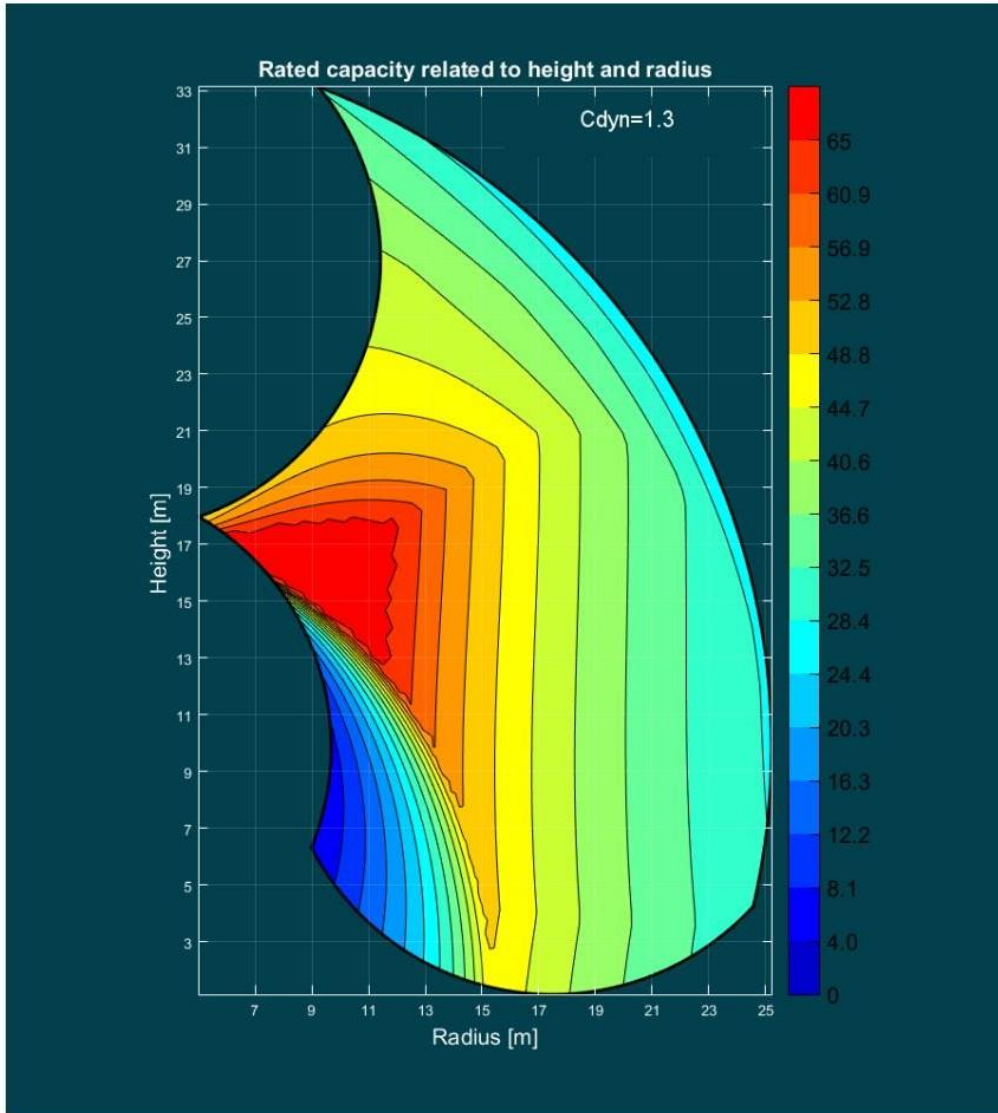
### DP Plot (All Thrusters)





## Crane Capability Chart

2.3  $C_{dyn} = 1.30$  – Deck and Harbour lift



### Operational limits:

Dynamic factor:	1.30
Maximum rated load:	65.0 [t]
Load on maximum outreach	28.2 [t]
Maximum wind velocity:	25 [m/s]
Maximum trim:	2 [deg]
Maximum heel:	5 [deg]
Ice and snow:	No ice and snow

