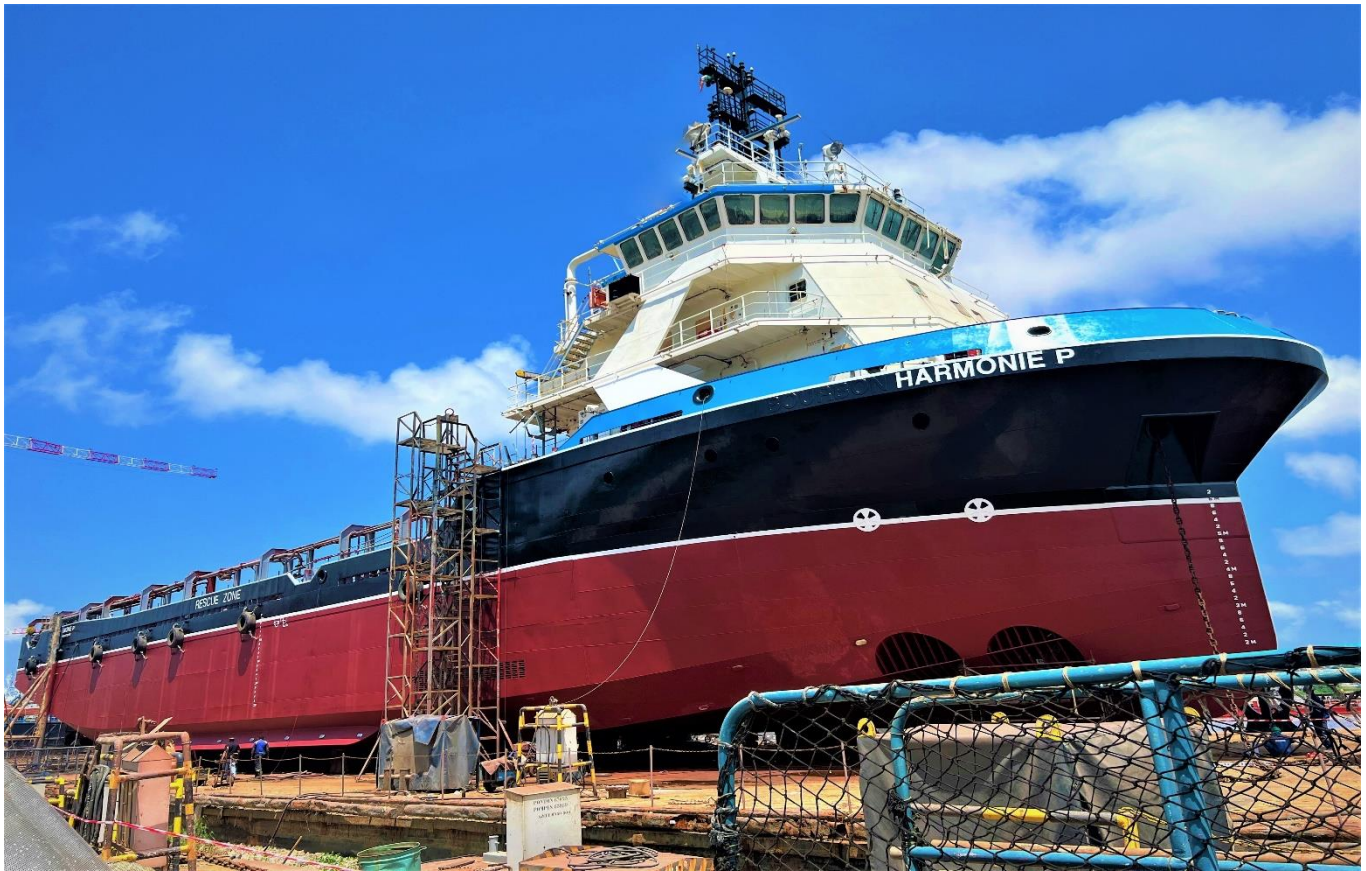




240' CLASS - PSV

DP-2, Fi-Fi-1, Diesel Electric Platform Supply Vessel

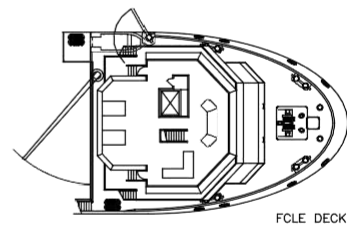


The HARMONIE P, is a GPA 670 PSV designed in conjunction with Guido Perla & Associates of Seattle, Washington. This environmentally friendly diesel electric vessel uses less fuel than conventional direct-drive propulsion vessels and produces far less pollution. The vessel is also classed DP 2.

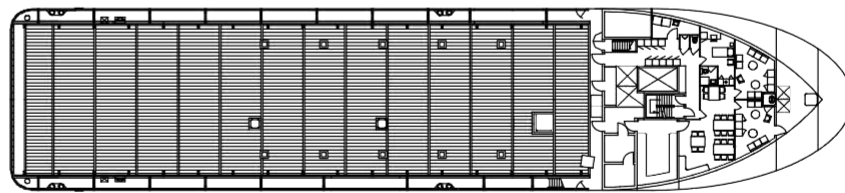
The GPA 670 design allows for greater tank and delivery capacity to compete with vessel larger than it.

The vessel is designed for world-wide, deep water and shallow water operations to fulfill the following duties:

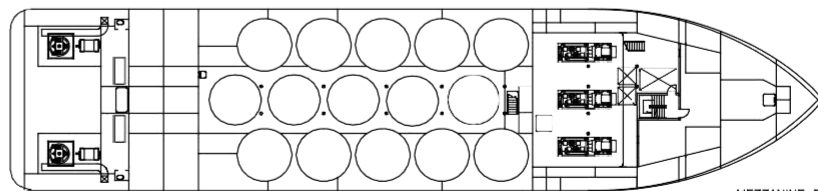
- Transportation of liquid products, deck cargo and other equipment for drilling and production support.



FCLE DECK



MAIN DECK



MEZZANINE DECK

PLATFORM SUPPLY VESSEL

REGISTRATION

Vessel Name: Harmonie P
 Type: DP2, Fi-Fi-1, PSV
 Design: GPA 670
 Flag: St. Vincent & the Grenadines
 Owner: Intercontinental Shipping Limited

Builder: Zhejiang (China)
 Class: BV1+ Hull + MACH Unrestricted Navigation,
 Supply Vessel oil product, Firefighting ship 1,
 Water spray, + AUT-UMS + DYNPOS AM-AT-R (class2)



Technical Specifications

HARMONIE P

MAIN PARTICULARS

DIMENSIONS

Length overall	73.20m
Breadth moulded:	16.50m
Depth	6.80m
Draft	5.63 m
Deadweight	3,230t
Gross tonnage	2,321
Net tonnage	696

CAPACITIES

Deck area	(50,30 x 13,70) 675 m2 with 5 t/m2
Deck cargo	1,600 t
Fuel oil	1,117 m3
Drill water	759 m3
Fresh water	579 m3
Liquid mud, Brine	1,092 m3
Base oil	188 m3
Dry Bulk/Cement	255 m3

DELIVERY RATES

Fuel oil	150 m3/h at 9 bars
Drill water	150 m3/h at 9 bars
Fresh water	150 m3/h at 9 bars
Liquid mud, Brine	2 x 75 m3/h at 15 bars
Base oil	150 m3/h at 9 bars
Dry Bulk/Cement	50 t/h at 6 bars

ACCOMMODATIONS

Accommodations for	23 pers
Single cabins	5
2 man cabins	5
4 man cabins	2
Hospital	1
Mess / day rooms, laundry, galley, stores	
Fully air conditioned.	

MACHINERY / PERFORMANCE

PROPULSION - MACHINERY

Main engines	3 x 1,825 kW
Propellers	Z drive, fixed pitch, 360 degrees
Bow thrusters	2 x 746 kW Tunnel
Auxiliary generators	2 x 1,920 kW
Emergency generator	170 kW

SPEED / CONSUMPTION

Maximum speed (100%)	13 knots
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BALLAST WATER MANAGEMENT SYSTEM

Ballast Water Treatment System Max TRC (IMO)	150 m3/h
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EQUIPMENT & ELECTRONICS

DYNAMIC POSITIONING SYSTEM

Type:	Class 2
-Sensors and monitoring as per class 2 requirements	
-I vertical reference unit.	

DECK EQUIPMENT

Tugger:	1 x 10 t
Capstans:	2 x 8 t
Deck provisions crane:	2 t at 10 m
Roll reduction System.	

SAFETY EQUIPMENT

Fire Fighting (Fifi 1) (2 pumps of 1,500 m3/h and 2 monitors)	
Lifesaving arrangement.	
Stand by rescue equipment.	

ELECTRONICS

- NAVIGATION

2 radars
2 gyrocompasses
1 magnetic compass
1 digital echo-sounder
1 speed log
1 autopilot system
1 GPS (and 2 DGPS)

- COMMUNICATION

1 radio system compliant with GMDSS A3
1 Inmarsat F 77
1 iridium

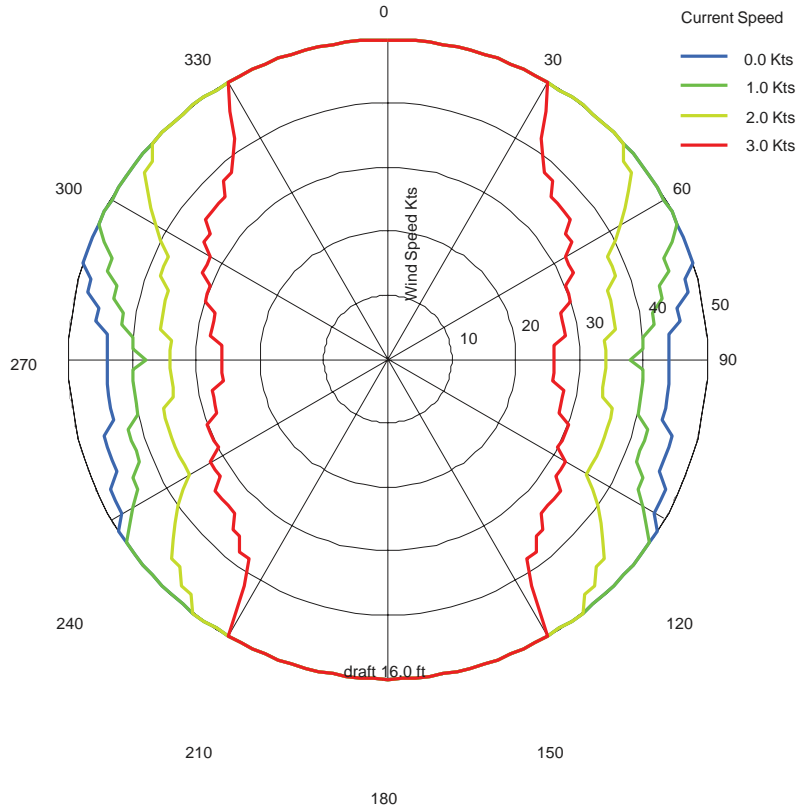
All particulars believed to be correct but not guaranteed.



Vessel Capability Plots DP-2

VESSEL CAPABILITY PLOTS

Capability Plot



PROPULSORS:		ENVIRONMENT
#1 Bow thruster	100% thrust	Max wind speed: 50 Kts Current Speed: 0 -3.0 Kts Colinear environment
#2 Bow thruster	100% thrust	
#3 Stern Port Steer prop	100% thrust	
#4 Stern Stbd Steer prop	100% thrust	
#5 Stern Center Steer prop	offline	
Generator #1	100% power	
Generator #2	100% power	
Generator #3	100% power	

All particulars believed to be correct but not guaranteed.

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