



# MPSV NG Worker

A versatile multi-purpose offshore vessel, providing integrated and dependable WROV services worldwide

Owned by Next Geosolutions and operated by Phoenix Offshore, the MPSV “NG Worker” is fully equipped with onboard WROVs and predominantly manned by in-house Marine, Survey and ROV crews.

Acquired by Next Geosolutions in 2020, she will be delivering a wide range of services including Geophysical, Geotechnical & UXO Surveys, Construction Support & Subsea operations.

Next Geosolutions is a turn-key geoscience and engineering support service provider operating worldwide in the Energy, Infrastructure & Utilities markets.

Our mission is to provide integrated services, both on land and at sea, to support the entire lifetime of our Client’s projects and assets, establishing ourselves as an independent, QHSE mindful and technology driven contractor

## MAIN CHARACTERISTICS

- 2 x Schilling HD 5000 m WROVs
- 1 x ODIM AHC A-frame
- 1 x ODIM Moonpool LARS installed in 50 ft tower
- Kongsberg class DP 2 system
- Kongsberg HiPAP 500 & 100 USBL system
- Active Heave Compensated 50 t offshore crane
- Accommodation for 66 persons
- 630 m<sup>2</sup> deck area plus 270 m<sup>2</sup> cargo holds below main deck
- Voith Schneider propulsion with active roll stabilization
- ERN 99,99,95

## VESSEL SPECIFICATIONS

### VESSEL

Port of registry:	Naples
Flag:	Italian
IMO Number:	9533244
Class:	RINA, AUT-UMS, CLEAN, COMF-NOISE, COMF-VIB-C, DYNAPOS DP2
Call sign:	ICID
Builder:	Fjellstrand AS, Norway
Built:	2009
ERN:	99,99,95

### DIMENSIONS & CAPACITIES

Length overall:	88.80 m
Length between P.P.:	78.15 m
Breadth:	16.00 m
Draft lightship:	5.70 m
Draft maximum:	7.15 m
Draft minimum:	6.30 m
Deck space:	630 m <sup>2</sup>
Gross tonnage:	3923 tonnes
Net tonnage:	1177 tonnes
Cargo holds:	270 m <sup>3</sup>
Water ballast (approx):	1168 m <sup>3</sup>
Fresh water (approx):	671 m <sup>3</sup>
Fresh water production:	10-15 m <sup>3</sup> /day
Fuel oil (approx):	900 m <sup>3</sup>
Endurance at sea:	Approx. 50 days

### SPEED

Economical speed:	9 knots
Service speed (approx):	11 knots
Max speed (approx):	12 knots

### MAIN ENGINES / GENERATORS / THRUSTERS

Main engines:	4 x Cummins QSK 60DMI 4 x 1800 kW
Generators:	4 x 1800 kW Stern
Thrusters/Prop.:	2 x 2500 kW Voith
Fwd thrusters:	2 x 1000 kW Tunnel
Fwd Azimuth:	1 x 1000 kW Azimuth

### MAIN CRANE

National Oilwell Offshore AHC Crane	
Main winch (dual wire):	50 t/ 8m radius
Main winch:	50 t/ 20m radius

Wire length main winch:	3000 m
Max outreach:	30 t/ 25 m radius
Hook speed full load:	0-30 m/min
Hook speed light load:	0-60 m/min
Aux winch:	10 t/ 26 m radius
Wire length aux winch:	100 m
Tugger winch:	3 t

### DECK CRANES

Deck crane 1:	1 x Palfinger 32002 on moonpool tower, 6 t/ 4.5 m radius
Deck crane 2:	1 x Palfinger 4501A in ROV hangar, 780 kg/ 5 m radius

### ACCOMMODATION & MEETING ROOMS

Total:	66 persons
Berths:	10 x 1 / 28 x 2
Lounge:	1 x 40 m <sup>2</sup>
Mess room:	1 x 80 m <sup>2</sup>
Meeting room:	1 x 15 m <sup>2</sup>
Online room:	1 x 25 m <sup>2</sup>
Offline room:	1 x 40 m <sup>2</sup> (offline/ geo room)
ROV:	1 x 31 m <sup>2</sup> (control room)
Office:	1 x 15 m <sup>2</sup> (client)
Hospital:	1 x 14 m <sup>2</sup>
Gymnasium:	1 x 23 m <sup>2</sup>

### NAVIGATION / DP SYSTEM

Radar:	1 x Furuno 10 cm radar (S-band) w/Arpa 1 x Furuno 3 cm radar (X-band 9 Ghz) w/Arpa
Gyro:	3 x Gyro compasses
GPS:	2 x DGPS systems
Additional DP ref.:	Taut wire
Heading Sensor:	1 x Seapath 200
MRU:	3 x Kongsberg MRU 5
DP:	2 x Kongsberg DP Operator Stations
Sensors:	2 x wind sensors
Echo Sounder:	1 x navigation echo sounder
Speed log:	1 x speed log
ECDIS:	Dual ECDIS, approved for paperless navigation

USBL:	1 x HiPAP 500 1 x HiPAP 100
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### COMMUNICATION EQUIPMENT

VHF:	2 x VHF w/DSC 2 x VHF
MF / HF:	1 x MF/HF w/DSC
Inmarsat:	2 x Inmarsat-C with SSAS alarm
GMDSS:	1 x GMDSSA3
Fleet:	1 x Fleet 77 w/ fax and interface to DP
Navtex:	1 x Navtex
VSAT:	2 x Ku-band VSAT
GSM:	1 x GSM mobile phone
Portable VHF:	3 x Portable VHF (GMDSS), (emergency only)
UHF:	Portable and stationary, available for internal communication
ClearCom:	Available in office and operation areas

### ROV HANGAR

A ROV hangar is situated aft of the accommodation area. The hangar may be closed in order to function as a protected work area for storage, maintenance and handling of the ROV systems. The vessel also holds a ROV mechanical and electrical workshop.

### LAUNCH & RECOVERY SYSTEMS ROV

ROV 1:	<ul style="list-style-type: none"> <li>Schilling HD 5000 m Work Class ROV</li> <li>ODIM A-frame installed in ROV hangar</li> <li>AHC winch with 5500 m umbilical capacity</li> </ul>
ROV 2:	<ul style="list-style-type: none"> <li>Schilling HD 5000 m Work Class ROV</li> <li>ODIM Launch and Recovery System installed in moonpool</li> <li>AHC winch with 5500 m umbilical capacity</li> </ul>

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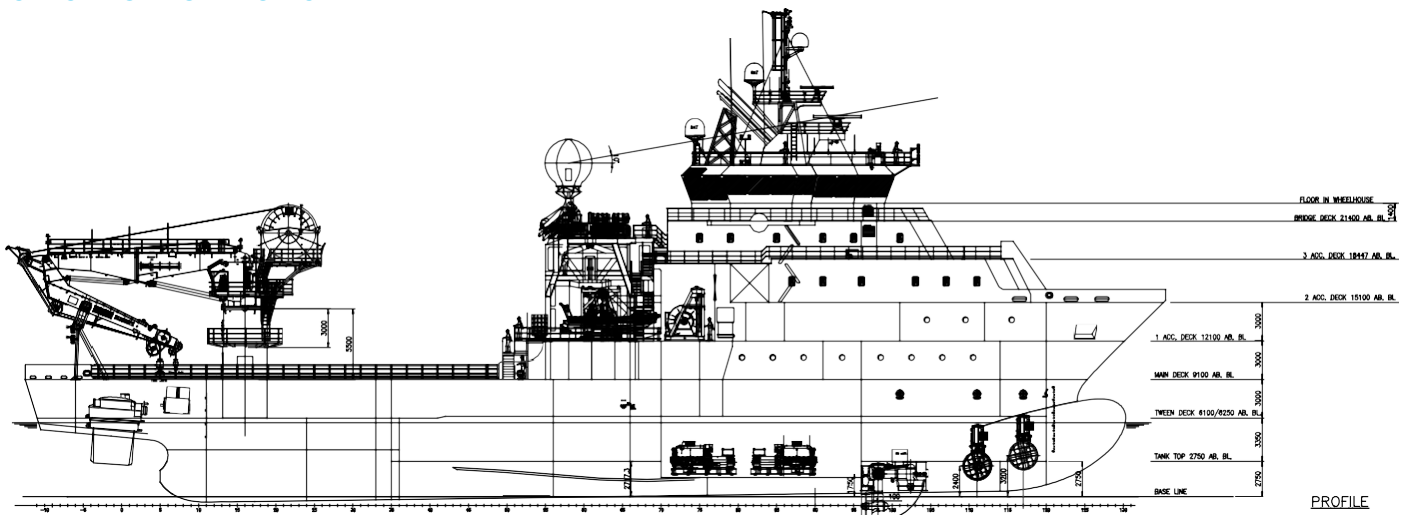
## VESSEL SPECIFICATIONS

### FUEL CONSUMPTION

OPERATING SITUATION	SEA STATE	FUEL CONSUPTION/DAY
Max transit speed	Light	18-22 tonnes
11-12 knots transit speed	Moderate - Heavy	12.5 - 15 tonnes
11-12 knots transit speed	Light	10.5 - 12.5 tonnes
9-10 knots economical speed	Moderate	9.5 - 10.5 tonnes
DP	Heavy	10 - 11 tonnes
DP	Moderate	8 - 9 tonnes
DP	Light	7 tonnes
In port	n/a	2 - 3 tonnes

\* Fuel consumption rates are provided in good faith and are correct at time of publication

### GA SPECIFICATIONS



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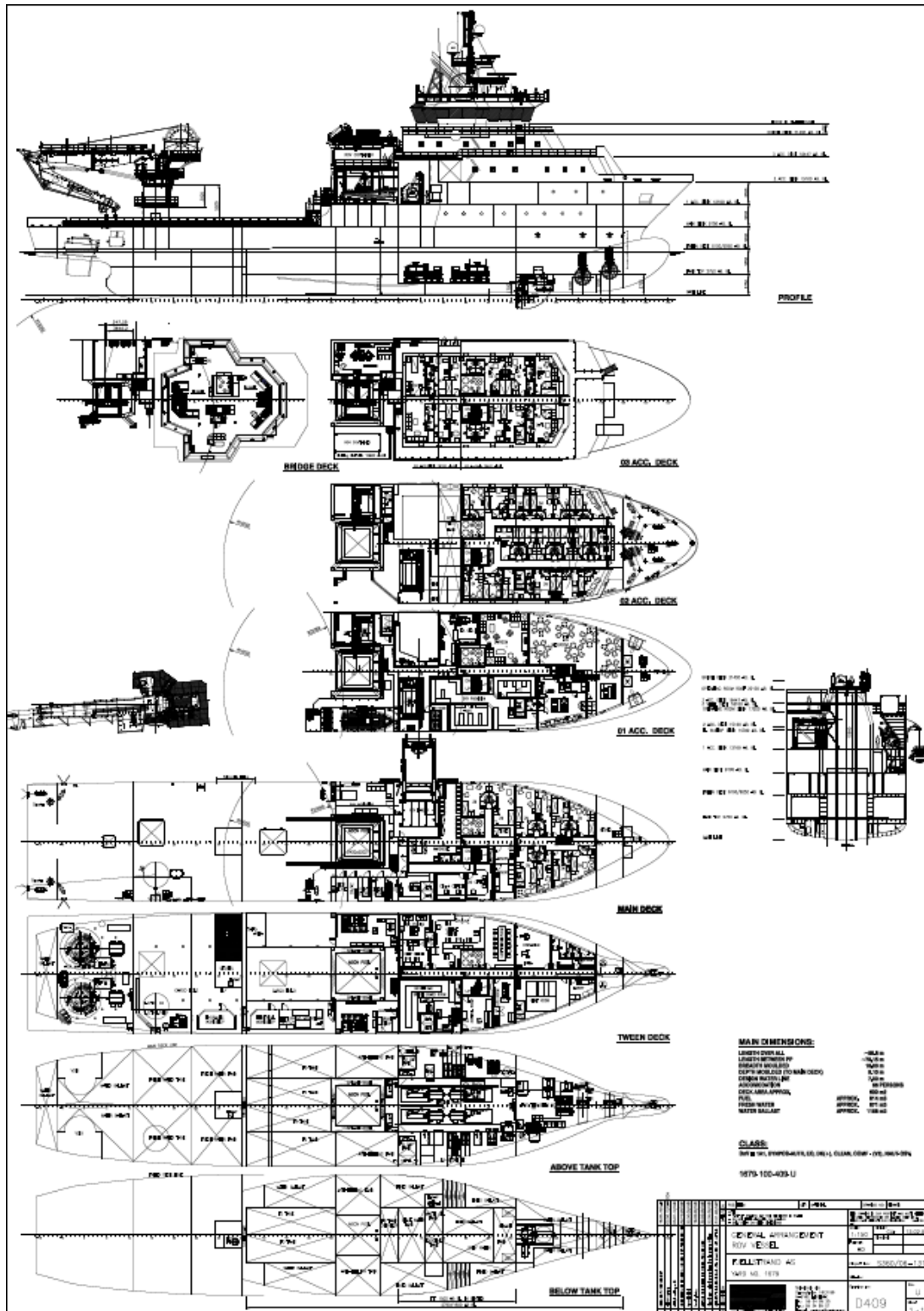
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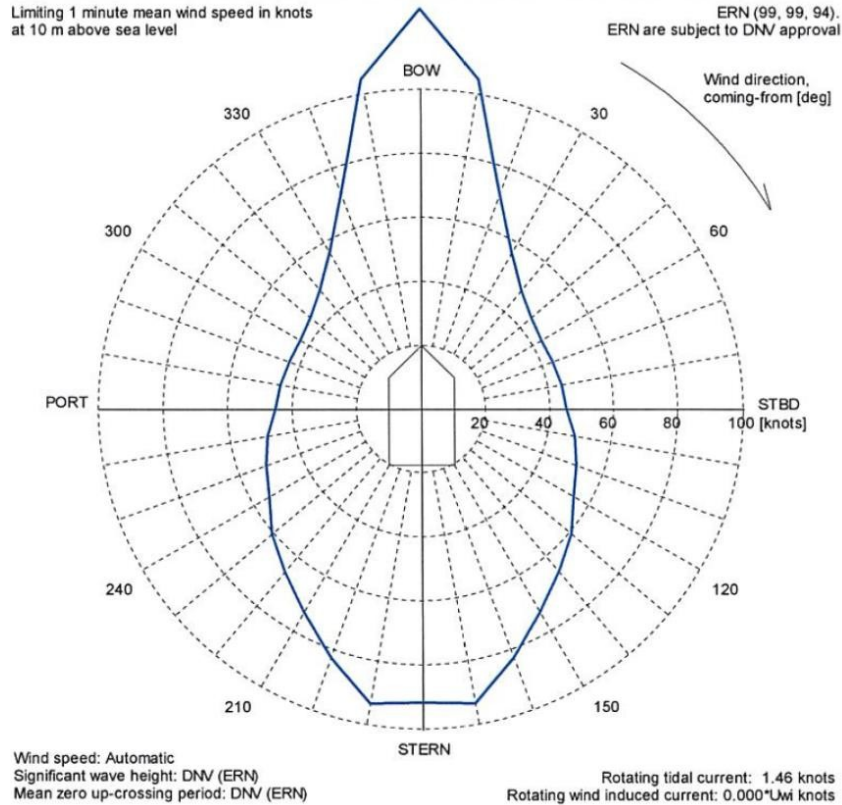


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## VESSEL SPECIFICATIONS

### DP CAPABILITY PLOT



Input file reference	: Foot_2653.scp
Last modified	: 2009-01-30 09.30 (v. 2.7.0)
<hr/>	
Length overall	: 88.8 m
Length between perpendiculars	: 78.2 m
Breadth	: 16.0 m
Draught	: 5.7 m
Displacement	: 5200.0 t (Cb = 0.71)
Longitudinal radius of inertia	: 19.5 m (= 0.25 * Lpp)
Pos. of origin ahead of Lpp/2 (Xo)	: 0.0 m
Wind load coefficients	: Calculated (Blendermann)
Current load coefficients	: Calculated (Strip-theory)
Wave-drift load coefficients	: Database (Scaled by Breadth/Length)
<hr/>	
Tidal current direction offset	: 0.0 deg
Wave direction offset	: 0.0 deg
Wave spectrum type	: JONSWAP (gamma = 3.30)
Wind spectrum type	: NPD
Current - wave-drift interaction	: OFF
Load dynamics allowance	: 1.0 * STD of thrust demand
Additional surge force	: 0.0 tf
Additional sway force	: 0.0 tf
Additional yawing moment	: 0.0 tf.m
Additional force direction	: Fixed
Density of salt water	: 1026.0 kg/m³
Density of air	: 1.226 kg/m³ (15 °C)
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Power limitations	: OFF
Thrust loss calculation	: ON

#	Thruster	X [m]	Y [m]	F+ [tf]	F- [tf]	Max [%]	Pe [kW]	Rudder
1	TUNNEL	31.4	0.0	12.2	-12.2	100	1000	
2	TUNNEL	27.9	0.0	12.2	-12.2	100	1000	
3	AZIMUTH	19.3	0.0	16.3	-9.5	100	1000	
4	AZIMUTH	-39.2	-3.5	40.8	-23.8	100	2500	
5	AZIMUTH	-39.2	3.5	40.8	-23.8	100	2500	

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