

Acta Orion

DP2 W2W Offshore Support Vessel



- *Safe and reliable people transfer by walk to work proven at sea states above **Hs 2.5m***
- *Dedicated Ampelmann E-type gangway with cargo functionality for motion compensated cargo transfers up to 1 t*
- *Modern type accommodation up to **98 persons***
- *Ample deck space both sheltered and outside (**>1200m²**)*
- ***CTV** support base (boat landings, crane and refueling facilities)*

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GENERAL

Type:	98 Persons DP-2 multipurpose walk to work vessel
Year of delivery:	2015
Imo No:	9750268
Call sign:	PCEN
Flag:	Dutch flag
Class society:	Bureau Veritas
Classification:	I + Hull + Mach, + Aut-UMS Special Purpose Ship 2008 Unrestricted Navigation Comfort-noise & vib 2 Dynapos AM/AT-R (DP2) Clean ship Green passport

MAIN DIMENSIONS

Length o.a.:	107.95 m
Breadth moulded:	16.0 m
Depth moulded:	9.3 m
Draught design:	5.5 m
GRT:	6532
NRT:	1959
Deadweight:	4000 ton @ 5.5 m
Hold capacity:	3500 m ³
Hold height:	9.8 m
Tween deck hold:	24.4 x 12.0 m (4 hatches)
Tank top hold:	24.4 x 11.5 m (4 hatches)
Upper deck space:	545 m ²
Tween deck space:	402 m ² (wood covered)
Tank top space:	290 m ²
Upper deck load:	2.5 ton/m ²
Tween deck load:	3.5 ton/m ²
Tank top load:	15.0 ton/m ²



MACHINERY & PROPULSION

Main diesel generator:	4 x 1200 kW 1 x 800 kW
Emergency generator:	1 x 150 kW

PROPULSION

Stern thrusters:	2x Azimuthing 1500 kW each
Bow thrusters:	2x Retractable Azimuth 750 kW each 1x Tunnel 485 kW
DP 2 system:	2x DP class II operator workstation 3x DGPS Laser radar guidance 3x Gyro compass 2x Wind sensor 2x Vertical reference unit

SPEED

Maximum speed:	12 knots @ 5.6 m draught
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CAPACITIES

Marine gas oil (MGO):	562 m ³
Consumption in DP mode:	3 m ³ per 24 hrs
Fresh water:	129 m ³
Two water makers:	16 ton each per 24 hrs
Water ballast:	3385 m ³
Two sewage treatment plants:	20 m ³



DECK AND HOLD EQUIPMENT

- Motion compensated Ampelmann E-type gangway for personnel and cargo transfer: up to 1t motion compensated with winch under gangway bridge tip.
- Knuckle boom crane (cap. 10 ton @ 17.5 m and 5 ton @ 21.5 m) constant tension function, man riding
- Two fixed boat landings on port- and starboard side for CTV landing
- Removable boat landing for CTV landing
- Wall sockets for workshop and/or reefer containers
- CTV refueling installation (25 m³ per hour)
- Two survey moonpools (diameter 1.2 m)



ACCOMMODATION & FACILITIES

Persons on board:	98 Including marine crew
Double cabins:	28 Cabins equipped with onsea sanitary facilities
Single cabins:	32 Cabins equipped with onsea sanitary facilities
Offices:	5 Offices provided with internet (LAN), external telephone connections and a separate reception area
Cinema:	Multifunctional area with a large TV screen
Hospital:	Centrally located and easy accessible from both outside work area and accommodation
Changing / dry room:	Two separate areas equipped with drying and storage facilities
Workshop/ stores:	Technical store & workshop on tween deck level and a survey office area on the bridge
Mess room / restaurant:	Large mess room also suitable as a conference area and a duty galley at main deck level
Catering:	Hot and cold buffet counter to provide 24 hours service
Day room:	Furnished with comfortable chairs, coffee corner and large TV screen
Smoke room:	Furnished with comfortable chairs and large TV screen
Sauna:	Two separate sauna areas
Fitness area:	Modern equipped gymnasium
Communications:	V-SAT broadband transmit/receive system and a Sat C fully integrated communications system
Internet & tv:	All areas in accommodation have WIFI access for internet; cabins are equipped with television and movie facilities



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DESIGN AND LAY-OUT

The Acta Orion is a versatile DPM CSV vessel used for the provision of a broad range of offshore services. The vessel has well proven itself in offshore wind market by providing comfortable accommodation and safe transfers of people and cargo in combination with a high (winter-) workability.

The Acta Orion can accommodate 88 persons (including marine crew) in 28 double cabins and 32 single cabins. The location of the accommodation and working areas provide logical routing, which optimizes the different work flows on board.

DYNAMIC GANGWAY SUPPORT FOR BOTH PERSON AND CARGO TRANSFERS

The dedicated Ampelmann E-1000 gangway on board the Acta Orion is placed amidships and on center line. This allows the gangway to work over both sides of the vessel. Landing height between 8.2 m and 24.2 m can be reached at a maximum luffing angle of 18° degrees. Safe and efficiently transfer of persons (walk-to-work) can be done in wave heights over Hs 2.5 m and windspeeds up to 20 m/s. The winch under the bridge tip of gangway allows us to perform cargo lifts up to 1t and 30 m above LAT, fully motion compensated in windspeeds of up to 16 m/s.

EFFICIENT FUEL CONSUMPTION AND CTV REFUELING

The Acta Orion has an autonomy with fuel of about 6-8 weeks depending, depending on the fuel required for CTV refueling. The Acta Orion is equipped with a high-speed offshore transfer rig for CTV refueling. Dry break couplings in the hose and high pressure Todo fittings decrease the exposure to risk and environmental incidents.

BOAT LANDING

The Acta Orion is equipped with a detachable boat landing which can be used on both sides of the vessel. By giving lee-side, the restricting wave height for CTV operations is generally Hs 2.0m, depending on strength and direction of current and wind. At the starboard side of the vessel, an access door in hull reducing the climbing height to less than a 1 m by providing direct access to main deck (deck 3). The boat landing is equipped with a fall-arrest system.

CONSTANT TENSION LAGENDIJK KNUBLE BOOM CRANE

Acta Orion is equipped with a constant tension Lagendijk Knuckle Boom Crane, capable of lifting 5-10 t depending on the required outreach. The maximum hook height is 24.5 m. The Lagendijk KBC is a certified man-riding crane.

Qualified as a supplier:



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Details are believed to be correct but can not be guaranteed and are subject to change (05-2019).