

JD-Contractor A/S

Nybovej 8-9
DK-7500 Holstebro
+45 97 42 63 11
www.jdcon.com
VAT DK 16 93 56 97



Subsea Construction Vessel Assister

For offshore cable installation, ROV-Work, Plough Work, Rig Moves and Anchor Handling. JD-Contractor is operating the Subsea Construction Vessel 'Assister'. The vessel is based on the Multipurpose AHTS A-type. Engineered, designed and built by German Shipyard. Assister can be mobilized with various equipment/setups for work at sea and Subsea Construction.



JDC SUBSEA CONSTRUCTION VESSEL 'ASSISTER' FULLY LOADED CONFIGURATION

Vessel Information

The vessel is uniquely designed for a variety of work roles including:

- Cable installations
- Operation of subsea plough systems
- Platform for subsea and ROV work
- Deep water Anchor Handling & Mooring operations
- Rig moves (towing)
- General supply duties

The specialized vessel has a high operational criterion, optimal safety conditions and state-of-the-art equipment to operate professionally and cost-effective.

Revision date 30-09-2024



**All figures and data believed to be correct, but not guaranteed*

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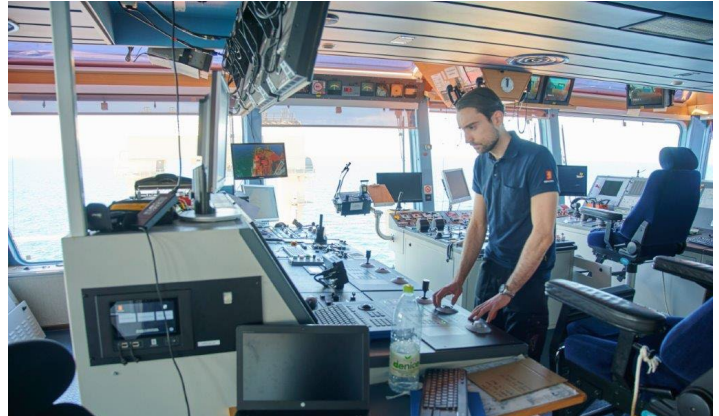
Kongsberg K-POS DP2 SYSTEM

The Kongsberg DP2 provides manual, automatic or combined (semi-automatic) ship control.

There are both separate and simultaneous series control of ship position (coordinates) and heading.

The system includes follow target and direct link-up with USBL. It has input from the winch for tension control.

The DP has the following reference systems:
Hi-Pap 502 – Fanbeam – 2 x DGPS

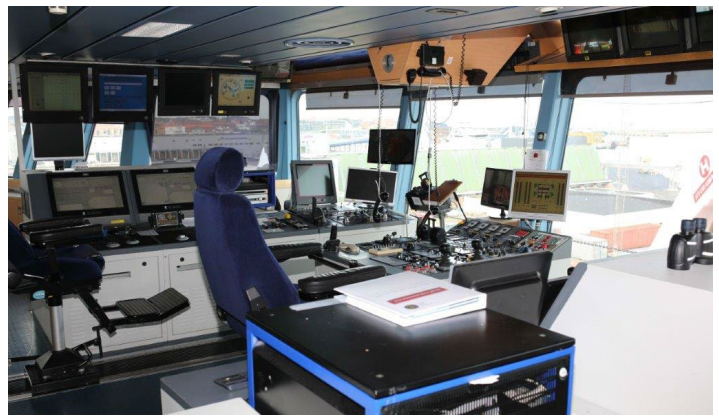


Bridge equipment

Assister is equipped according to industry standard with radio- and navigation systems (DGPS, echo sounder, gyro, radar etc.).

Furthermore, the vessel has:

- NaviPac Online
- Transas ECDIS chart system
- Kongsberg 502 USBL
- Starlink Communication
- Full intergraded communication system
- Fire system integration for client
- PAGA system integration for client
- Fiber and VLAN system from deck to client offices



Survey area

At the bridge deck the vessel has a dedicated survey area.

The area is prepared with cabling etc. for easy connection to data streams from both the bridge and specialist equipment on deck.

The area has working space for up to 6 persons.



Conference area

In connection with the bridge and survey area there is also a separate conference area equipped with whiteboard, projector, cabling for data connections etc. for 10 persons.



Conference room

Separated from the bridge, in addition a separate conference room fully equipped with whiteboard, cabling for data connections etc. for up to 20 people. Further a client office with 4ea. workstations on B-deck. Both these offices are connected to the Survey communication system.



Accommodation

The vessel can accommodate 59 persons in 45 single cabins and 7 double cabins.

The ship crew takes up 14-19 cabins depending on the work task.

Accommodation also includes mess rooms, galley, fridge/cold room, recreational room and a well-equipped gym.



Welfare and fitness

The vessel has modern welfare facilities installed, including a large well-equipped Gym, TV-rooms, smoke cabin, library etc.



Mess rooms

The vessel has two mess rooms so if requested client can have their own mess room. Mess room is equipped with cold and hot buffets and bain-marie.



Towing & Anchor handling equipment

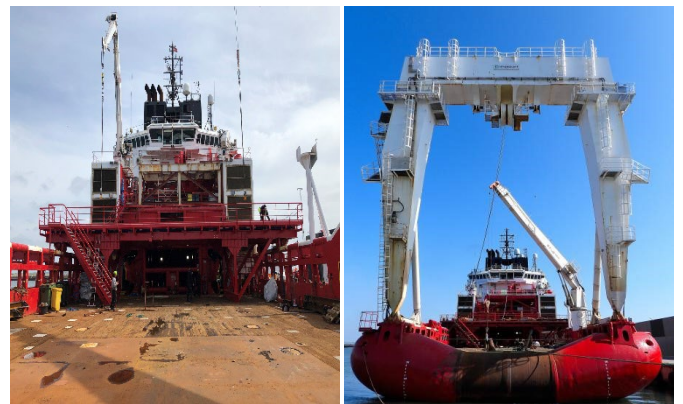
- Anchor handling winch 1 X 625 mt
- Towing winch 2 X 400 mt
- Tugger winch 2 X 15 mt
- Towing wire 1300 m x \varnothing 90 mm
- Stern roller dimension (2 X 3.25m X 4.0m)
- Stern roller SWL 2 X 800 mt
- Triplex shark jaws 2 x 700 mt
- Towing pins 2 X 300 mt
- Capstans 2 X 15 mt
- Wildcats 76/84/100/105
- Work wire 1900m x 83mm



Offshore Crane

Vessel have Offshore cranes

- Crane Stb 15t/10m
- Crane Ps 15t/10m
- STB Aft 6t / 2.9m-24m



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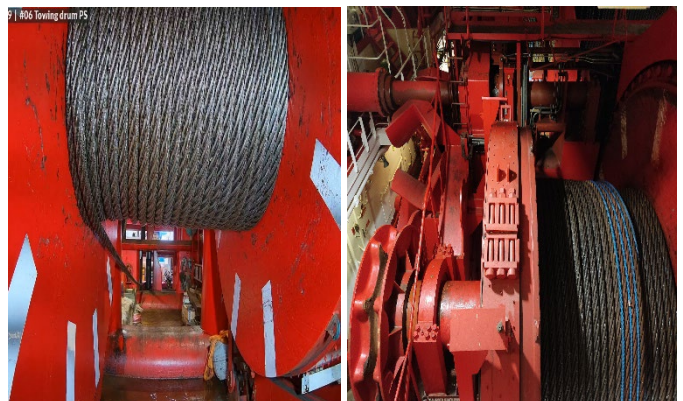
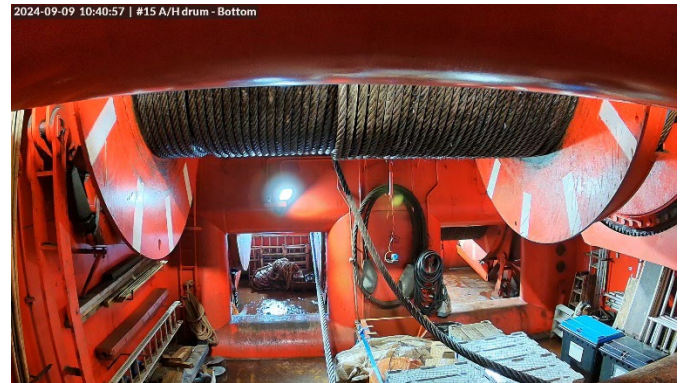
A-frame/ROV launching system

A 260-ton A-frame is installed on the vessel which among other enables the vessel to launch and recover ROV's or equipment of significant size.

The free deck area is 803 m² and have a deck strength of 15t/m² aft and 10 t/m² forward.

The total deck load capacity is 2500 mt

Assister is able to launch and recover very large ROV's in rough weather conditions with substantial wave and swell.



Vessel Specifications

GENERAL

Name	Assister
Call sign	OYUJ2
IMO number	9193783
Flag	Danish
Built	2000
Classification	BV
Certification	AHTS

DIMENSIONS

Length	90.3 m
Breadth	23,0 m
Depth	9.5 m
Draft scantling	7.8 m
Draft azimuth	10.8 m
Deadweight	4743
Gross tonnage	6536

MACHINERY

Main engines		23500 BHP
	4X	MAK 9M32
Propellers	2X	CP main
Thrusters		
- Stern tunnel	2X	880 kW
- Bow tunnel	1X	1500 kW
- Bow azimuth (retractable)	1X	1300 kW
Aux. engines	2X	1125 kW

ACCOMMODATION

Persons	59
Single	45
Double	7

FUEL CONSUMPTION

Maximum 4 Engines	72t@16 kn
DP2 mode	12t-20t
Eco speed	24-33t@10 kn

DECK EQUIPMENT

Anchor handling winch	1X	625 t
Tow winches	2X	400 t
Chain lockers	2X	230 m ³
	2X	330 m ³

TANK CAPACITIES

Base oil	207 m ³
Brine	403 m ³
Drill	2538 m ³
Fresh water	760 m ³
Fuel	2262 m ³
Oilbased mud	605 m ³

DECK CAPACITIES

Deck load capacity	2500 t
Deck strength aft	15 t/m ²
Deck strength fwd	10 t/m ²
Free deck area	803m ²
Length	42.1 m
Width	19.5 m
ROV mezzanine deck	140 m ²
Load	150t

Shark jaws	2X	700 t
Stern rollers	2X	3,25 m x 4,0 m
Stern roller SWL	2X	800 t
Towing pins	2X	300 t
Capstans	2X	15 t
Tugger winches	2X	15 t

OTHER

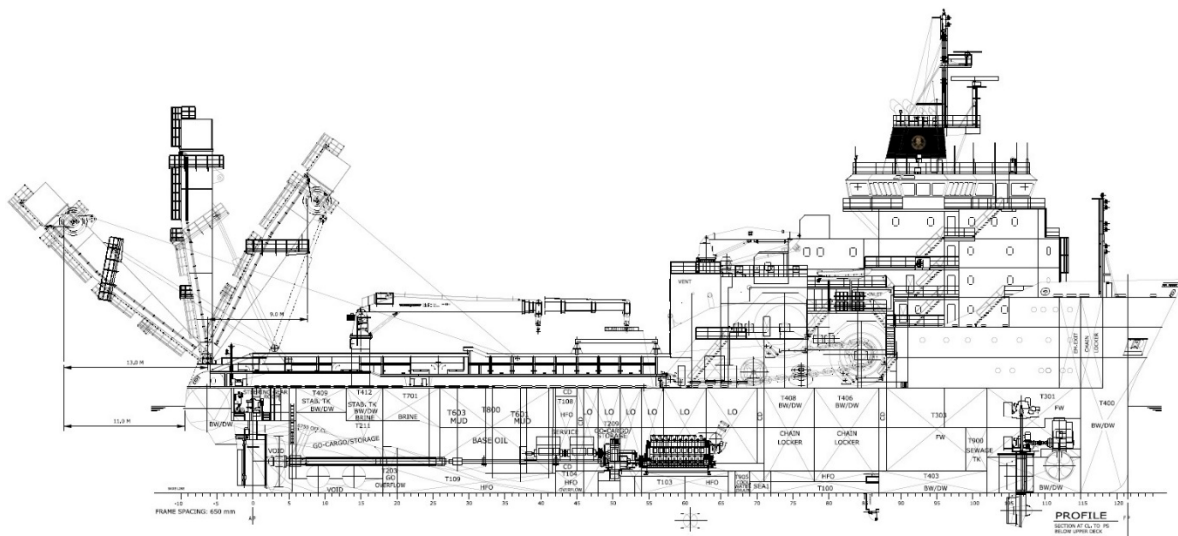
Type of fuel	MGO
Endurance	94 days
Range eco speed	22.620nm
Moonpool (on request)	5,2X4,5m

CRANE CAPACITIES

Crane Stb	15t/10m
Crane PS	15t/10m
Crane AFT STB	6t/2,9-24m
A-Frame out	260 t
A-Frame in	210 t

CLASSIFICATION

Dynamic Position		DP2
Bollard pull		252.7 t
Reference systems	2X	Kongsberg DPS i2
	1X	Fanbeam MDL
	1X	HiPAP Kongsberg 502
Motion reference	3X	Gyro, MGC R2
	3X	Motion sensor MGC
	2X	Wind sensor Deif/Gill



JDC SUBSEA CONSTRUCTION VESSEL ASSISTER GA-PLAN