

# JD-Contractor A/S

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## 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 Mærsk Supply Service. Assister can be mobilized with various equipment/setup for work at sea and Subsea Construction.



JDC SUBSEA CONSTRUCTION VESSEL BASIC 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 criteria, optimal safety conditions and state-of-the-art equipment to operate professionally and cost-effective.



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

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## Kongsberg DP 4000 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 ROV follow up and direct link-up with USBL.

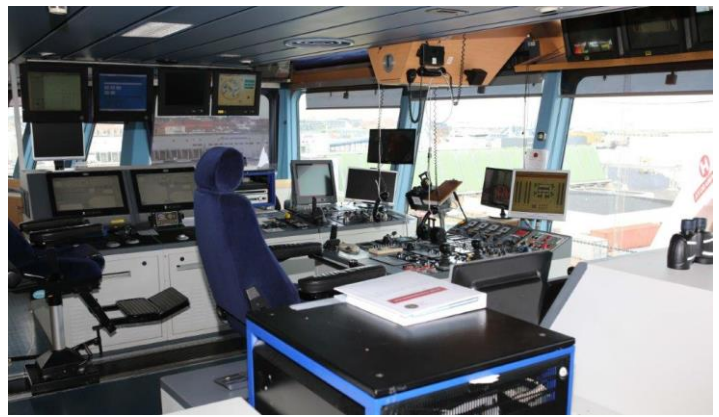


## Bridge equipment

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
- Satellite Communication



## 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 there is also a separate conference room fully equipped with whiteboard, projector, cabling for data connections etc. for up to 20 people.



## Accommodation

The vessel can accommodate 36 persons in 29 single cabins and 15 double cabins.

The ship crew takes up 9-14 cabins depending on the work task.

Accommodation also include 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
- Secondary winches 1 X 170 mt
- Storage winch 1 x 50 mt
- Tugger winch 2 X 15 mt
- Towing wire 900 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



## Offshore Crane

Vessel have Offshore cranes

- Crane Stb (onshore) 15t/10m
- Crane Stb (offshore) 7.5t/10m
- Crane Ps (onshore) 15t/10m
- Crane Ps (offshore) 7.5t/10m

Both cranes are man-riding certified as well as a personnel man riding basket



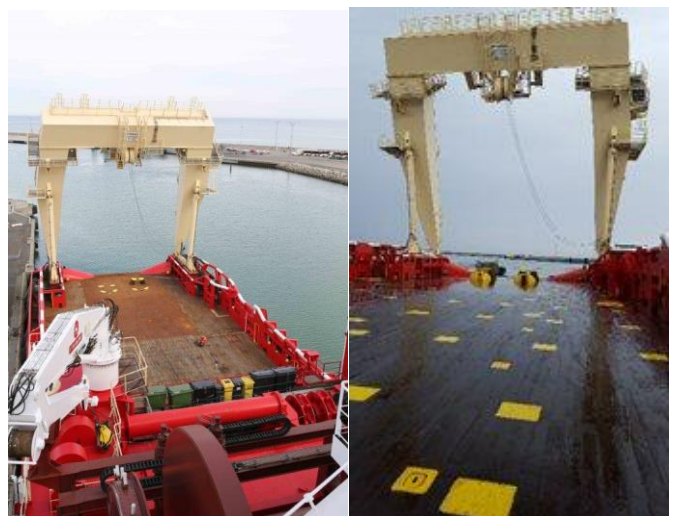
## A-frame/ROV launching system

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 m<sup>2</sup> and have a deck strength of 15t/m<sup>2</sup> aft and 10 t/m<sup>2</sup> 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.



# JD-Contractor A/S



## 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 1200 BHP
- Bow tunnel	1X 2040 BHP
- Bow azimuth (retractable)	1X 1770 BHP
Aux. engines	2X 1125 kW

### ACCOMMODATION

Persons	59
Single	29
Double	15

### FUEL CONSUMPTION

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

### DECK EQUIPMENT

Anchor handling winch	1X	625 t
Tow winches	2X	400 t
Secondary winch	1X	170 t
Storage winch	1X	50 t
Chain lockers	2X	230 m <sup>3</sup>
	2X	330 m <sup>3</sup>
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

### TANK CAPACITIES

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

### DECK CAPACITIES

Deck load capacity	2500 t
Deck strength aft	15 t/m <sup>2</sup>
Deck strength fwd	10 t/m <sup>2</sup>
Free deck area	803m <sup>2</sup>
Length	42.1 m
Width	19.5 m

### OTHER

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

### CRANE CAPACITIES

Crane Stb (onshore)	15t/10m
Crane Stb (offshore)	7.5t/10m
Crane Ps (onshore)	15t/10m
Crane Ps (offshore)	7.5t/10m
Crane Aft (onshore)	2.1t/14.5m
Crane Aft (offshore)	0.8t/14.5m
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 AFT VIEW