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MARINE
CONTRACTORS

Thialf

HMC equipment

A HEEREMA COMPANY

Thialf, the second largest Semi Submersible Crane Vessel (SSCV) operated by Heerema Marine Contractors (HMC), is capable of a tandem lift of 14,200 t. The dual cranes provide for depth reach lowering capability as well as heavy lift capacity to set topsides. This multi-functional dynamic positioned SSCV is tailored for the installation of foundations, moorings, SPARs, TLPs and integrated topsides.

Accommodation / helicopter deck

The living quarters are equipped to accommodate 736 men. All quarters have heating and air conditioning facilities. The helicopter deck is suitable for a Boeing Chinook 234 (21 t take-off weight).

Life-saving / fire-fighting

Life-saving and fire-fighting equipment according to the latest Class and IMO requirements.

Mooring system

12 Delta Flipper anchors of 22.5 t each, on 3 1/8 inch wire ropes of 2,400 m (7,874 ft) long. Minimum breaking strength 480 t.

Ballast system

Ballast pump capacity 20,800 cubic m³/hour.

Power supply

The Thialf is equipped with 12 diesel engines with the following capacities:

- 6 x 4,900 kW
- 4 x 4,500 kW
- 2 x 5,500 kW

Diving system

Containerized saturation diving system with diving bell can be made available.

Deck load

- Deck load capacity 15 t / m²
- Total deck load capacity 12,000 t

Transit speed with 1 tug

Max. 7.0 knot at 12.5 m draft





Main hoist lifting height

95 m (312 ft) above work deck for each crane. Lowering depth of auxiliary hoists 460 m (1,500 ft) below work deck at minimum radius.

Main hoist deepwater mode

Main hoist: 900 t with hook at 850 m water depth up to 128 m above the water line. Special main hoist block: 1,025 t at 847 m water depth. Deep water blocks: 414 t at 2,741 m water depth (all based on main hoist at minimal radius and 26.6 m operating draft).

Dynamic positioning system

The Thialf is equipped with an NMD Class III Dynamic Positioning system with the following characteristics:

Special DP functions

- Heavy lift
- Follow target
- External force compensation

Modes of Operation

- Manual
- Joy-stick
- Auto-pilot
- Auto DP mode
- Position mooring

Thrusters

- 6 x 5,500 kW - 360 degrees azimuth,
- total thrust 420 t

Position reference systems

- 2x Satellite DGPS with 5 aerials
- 1x Mechanical taut wire (300m)
- 1x Artemis
- 2x Acoustic SSBL/LBL
- 1x Fan-beam laser
- 1x Tautwire system

Dimensions

Length overall	201.6 m	661 ft
Width	88.4 m	290 ft
Depth to work deck	49.5 m	162 ft
Draft	11.9 – 31.6 m	43 – 104 ft
GRT	136,709 t	-
NRT	41,012 t	-

Portside and starboard crane

Load

Outreach

Main hoist	7,100 t	up to 31.2 m (102 ft)
Auxiliary hoist	907 t	36.0 – 79.2 m (120 – 260 ft)
Whip hoist	200 t	41.0 – 129.5 m (134 – 430 ft)

www.heerema.com



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