

WORLD SHIP SOCIETY – FREMANTLE BRANCH

SHIPPING BULLETIN - Vol 45 – Issue 457 - No.1 – 11/12/2024

THE MIGHTY ‘AEGIR’

A very significant recent arrival at Fremantle went to the Australian Marine Complex (AMC) at Henderson for several days in early-December. This was the large multi-purpose heavy-lift crane ship AEGIR whose presence here was unmistakably marked by her very tall Huisman offshore mast crane positioned on the starboard quarter at the stern.

AEGIR, 2012 built by Daewoo at Geoje, South Korea, 50,228 gross, 211.5m loa, beam a very wide 46.2m, Panama flag, owned and managed by Heerema Marine Contractors, of Leiden, The Netherlands, arrived Fremantle 05/12/2024 from the Griffin Venture FPSO terminal area offshore from Dampier and anchored in Gage Roads. She has been involved in the recovery of more old monopod wellhead turrets from the seabed as part of the clean up of these redundant structures from the NW Shelf area. Several shipments of which have already been brought to Fremantle for scrap over the past year by barge. AEGIR had two pieces of these large structures onboard stowed on her deck which were subsequently discharged using the ship’s huge crane at the AMC#4 berth where she was alongside 07-09/12/2024. The berthing delay being due to awaiting the departure from the same berth of another heavy lift ship BIGROLL BEAUFORT, which was described in detail with photos ref issue 456/pp 248-249. The AEGIR’s single revolving heavy lift mast has a maximum lifting capacity of 5,000 tonnes (!), with a boom length of 125m and mast height of about 100 metres. This ship’s passing movements attracted attention from those on Woodman Point and adjacent beaches at the time. She is one of the largest and certainly widest ships to berth at Henderson. AEGIR was bound for Benoa, Indonesia, upon departure from Fremantle. (Photos by C.Gee).

The name Ægir is a character from Norse mythology and he is a giant and king of the sea, personifying the power thereof.



ABOVE; AEGIR in Woodman Channel when shifting from Gage Roads to berth at AMC#4, Henderson.

The following is taken from Heerema's data equipment folder on their website: www.heerema.com

As a heavy lift vessel, AEGIR offers unique offshore transport, installation, and removal solutions. AEGIR is one of the world's largest monohull crane vessels and has a proven track record across a wide range of offshore projects. Optimized for fast transit speed, AEGIR can mobilise worldwide and work in any water depth. Due to AEGIR's retractable thrusters, shallow draft, and extensive clear deck space, the vessel has the possibility to load-out directly from the quayside and transport on deck, reducing both yard and transport costs. While on location, AEGIR's DP3 dynamic positioning system provides accurate and stable positioning. The vessel has a lifting capacity of 5,000 metric tons, and the option to use a split main crane block offers flexibility by allowing the upending of tall structures and long piles, similar to our dual crane vessels. Track Record Highlights - AEGIR has transported and installed various jackets, topsides, and modules. In 2017, the vessel installed sixteen anchor piles and mooring lines for the Shell PRELUDE FLNG using a novel pile installation method. In 2020, AEGIR completed the jacket installation, as well as the 3100 metric ton topside installation for Qatargas' North Field Bravo Living Quarters Expansion project. AEGIR's lifting capacity and speed were recently upgraded to make the vessel even more competitive for projects anywhere in the world.

General Description

Design	Ulstein Sea of Solutions customized SOC 5000 design
Dimensions	Length 211 m x width 46 m
Operating draft	9 – 11 m
Transit draft	8 m

Heavy lift crane

Type	Revolving mast type crane
Boom length	125 m
Capacity revolving	5,000 mT between 18-33m radius 1,500mT at 75m radius
Lifting Height main hoist	96 m above main deck
Maximum radius	79 m
Auxiliary Hoist	750mT between 23 – 85m radius, or 300mT up to 110m radius
Whip hoist	110 mT between 31 – 123 m radius

Accommodation / helicopter deck

The living quarters can accommodate 305 persons in single and double cabins. All cabins have heating and air conditioning facilities. The helicopter deck is suitable for Augusta Westland EH101 or Sikorsky S-92 helicopter, compliant with IMO, LR and NMA and CAP437 requirements.

Life-saving / fire-fighting

Life-saving and fire-fighting equipment have been provided for according to the latest class, IMO and NMA standards.

Dynamic Positioning system

The Aegir is equipped with a full Class III Dynamic Positioning system.

Auxiliary Cranes

Deck cranes	Two (2) knuckle boom cranes, each 40 mT SWL at 20 m radius and 5 mT at 40 m radius. Man riding certified
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Deep water lowering system

Capacity	3,500 m waterdepth, active and passive heave compensation up to 750 mT
A&R system	2,000 mT max 3,500 m water depth

ROVs and LARS

ROV	Two (2) ROV work class systems, launched from ROV hangars at starboard and portside
LARS	Two (2) launch and recovery systems inside the ROV hangars suitable for 3,500m waterdepth

Thrusters

2 x 6,500 kW fixed pitch, variable speed azimuth thrusters for main propulsion and for DP 4 x 3,200 kW fixed pitch, variable speed, retractable azimuth thrusters and 1 x 2,500 kW fixed pitch, variable speed tunnel thruster for DP and manoeuvring.

Power supply

The Aegir is equipped with a 48 mW total main power plant comprising of 6 diesel generators rated at 8,000 kW each and 1 emergency diesel generator set rated at 1,731 kW.



LEFT: The recovered monopod sections on deck.

BELOW: A stern view of AEGIR arriving 07/12.

LOWER: A bow view of AEGIR departing 09/12.

