

# Lift of the 11,000 tonnes Deepwater Nautilus RBS-8M Semi-submersible Deck Section, Korea

**Client:** R & B Falcon

**Engineering Contractor:** Hyundai Heavy Industries Co. Ltd.



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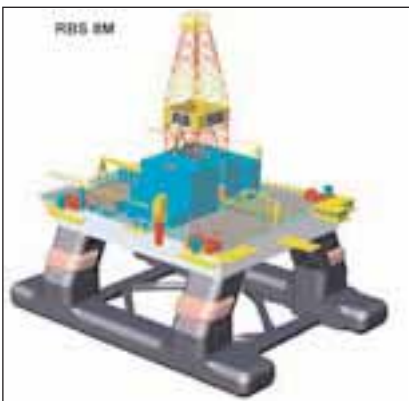
Weighing in at 11,000 tonnes, the RBS-8M semi-submersible deck known as Deepwater Nautilus, and owned by R & B Falcon, was lifted at Hyundai Heavy Industries fabrication yard in Ulsan, Korea.

In a contract awarded by Hyundai Heavy Industries to Fagioli PSC, the deck was lifted with the aid of 24 No. Fagioli PSC L600 Strand Jacks over a total vertical distance of 38 metres. This allowed the two lower hull sections to be skidded underneath the deck, using an Active Loadout System supplied by Fagioli PSC, to complete the semi-submersible structure.

**Above and right:** the deck lift progresses, with Hyundai's towers clearly visible in the foreground and background. Most of the jacking activity is taking place around the central tubular lifting towers just visible underneath the deck.



The lifting method employed six temporary lifting towers, two each at the forward and aft sides of the deck, with each tower supporting a pair of Fagioli PSC L600 Strand Jacks. A further two cylindrical shaped towers, placed in the centre of the deck in line with the opposing pairs of forward and aft towers, each supported eight Fagioli PSC L600 Strand Jacks. The use of Fagioli PSC's computer control system allowed precise synchronisation of the jacking system, and precise control during the mating of the deck to the lower hull sections.



**Left:** Hyundai's 3D rendered representation of the completed semi-submersible.

After completion of the deck, Fagioli PSC then performed the Loadout of the complete 25,500 tonnes semi-submersible over a distance of 120 metres, using eight of the L600 Strand Jacks.