

Client / Operator	: Heerema Offshore Services B.V.
Project name	: New Semi Submersible Crane Vessel NSCV
Engineering vessel	: GVA Sweden
Engineering Crane	: Huisman Schiedam
Construction yard	: JSPL (Sembcorp)
Country	: Singapore
Crane Construction	: Huisman
Country	: China, Netherlands, Czech Republic
Period	: Q4 2012 – Q4 2018
Category	: Conceptual design, basic design, detailed design, construction, commissioning and testing supervision



PROJECT DESCRIPTION

In 2012 Heerema Offshore Services B.V. requested The Offshore Partners to supply engineering management, design supervision, discipline engineering and site supervision for the concept development, the design and new building of the dynamically positioned 20,000t semi-submersible crane vessel. Project is subdivided in 3 sub-projects: Concept/basic design vessel, detail engineering/ construction/crane integration vessel, design and construction crane. TOP provides services for each of the 3 sub-projects. The project is unique due to the 40% increase in lifting capacity compared to the present largest crane vessel and the largest application of LNG fuelled power generation in the marine industry.

TECHNICAL DATA

Principal Particulars			
Main cranes	: 2x 10,000	t	
Deck Capacity	: 20,000	t	
Length over all	: 220.00	m	
Breadth over all	: 102.00	m	
Depth moulded	: 49.50	m	
Design draft	: 12.00-32.00	m	
Power generation	: 12x 8000	kW	
Dual Fuel	: LNG / MGO		
Transit Speed	: >10	knts	
Positioning	: DP3 (LR AAA)		
Accommodation	: 400	pers.	



OUR SERVICES

The Offshore Partners provided the following services:

- Engineering and Interface management during various project stages in the Netherlands, Sweden and Singapore
- Review and approval of concept, basic and detailed engineering packages
- Preparation of design and construction standards
- Review and evaluation of vessel ITT, incl. generators, electrical system, auxiliary cranes, LNG system, winches, thrusters, accommodation, safety
- Site supervision during construction incl. Interface Manager and various discipline engineers both for crane and vessel
- Review and approval of main cranes basic and detail design
- Site supervision and inspection service during main cranes construction