

# 14 Heavyweight News *from Sarens*

Half-yearly newsletter • Issue 14 • March 2010 • [www.sarens.com](http://www.sarens.com)

Dear reader,

2009 has been an intensive year for us, with navigating through a worldwide economical crisis, while preparing for further growth.

For 2010, one of the key challenges for Sarens will be to balance our new organization whilst keeping a client-focussed, no-nonsense entrepreneurial spirit in the organization.

As a company, we are evolving towards a global organization that aspires to bring the best of the entire Group to every customer.

Let's all put our shoulders under this aspiration, and enjoy the reading of a sample of our heavy lift successes in the past year!

Wim Sarens

CEO Sarens Group

## Heavy Haulage wharf works at Sino Iron Ore project, a mine operated by Citic Pacific Mining.



Location : Cape Preston – Western Australia

Equipment used : LR1400/2 ; SCX2800-2 ; CC2800-1

Sarens Australia is for the first time active in the North of Western Australia in the mining industry. Lattice boom crawler cranes LR1400, SCX2800 & CC2800 (see picture) were used for unloading and GPS positioning of core locs and anchor blocks on wharf borders and wharf foundation.



## LNG train



Location : Skikda - Algeria

Equipment used : CC 8800-1 ; LR 1350/1 ; CC 2800-1 ;  
36 axles lines SPMT's


Sarens executes the heavy lifting and placement of vessels in a range of 100t to 800t using 32 tele- and crawler cranes ranging from 25t to 1.600t. The internal organization of this project is a good example of the Sarens Group vision with regard to Global execution.

Eight different nationalities are, will or have been working together to turn this project into a success, and to the client's satisfaction. The crew (currently 20 and at its peak 50) consists of Algerians, Dutch, Germans, English, Belgians, French, Thai and Philippine, led by a multi-cultural Project Management Team.





# Turn Key Erection Project


 Location : T-Power Tessenderlo - Belgium  
Equipment used : Crawler Crane Sennebogen 5500;  
Telescopic cranes from 40t to 700t ; tele Skyworkers

Sarens BE started in October 2009 the erection of the Heat Recovery Steam Generator (HRSG) for a 400MW Combined Cycle Power Plant.  
Duration of the project : 32 weeks  
Total manhours : 25.000  
For this project Sarens BE is responsible for:



- All lifting activities
- Erection of the steel structure (steel portals 36m high)
- Erection of the casing / inlet duct
- Erection of the stack (60m high) and outlet duct
- Erection of the heat exchanger surfaces (114 harps)
- Installation of the mechanical equipment drums & vessels (60t)
- Welding assembly
- Internal insulation, touch-up painting
- Scaffolding
- Project management

# The Netherlands Calling

 Location : Zwolle – The Netherlands  
Equipment used : Crawler cranes: 80t & 180t; 2 x 6 axle lines SPMT's  
hydraulic cranes up to AC700

A new railway called “Hanzelijn” is to be constructed between Lelystad and Zwolle. Part of this railway crosses the river IJssel, thus a new steel and concrete bridge is being built. Sarens positioned all the main steel parts. Almost all the heavy cranes of Sarens Nederland operated on site to contribute to the construction. Up to the present most of the parts leading to the suspension have been placed. The suspension itself is being prefabricated on shore and will be positioned by Sarens Belgium in the summer of 2010.



Location : Rotterdam – The Netherlands  
Equipment used : 2 x 12 axle lines SPMT's ; AC700

In February 2009 Sarens started the construction of a HRSG power plant near Rotterdam. Part of the job was the installation of a stack with a total height of 65m and a total weight of 200t. Because of very little space for the construction of the stack on the erection site, Sarens decided to prefabricate the stack in 4 parts in a factory. While this decision had many advantages, it also meant that the stack parts had to be transported over water and road to the power plant erection site. The operation went smoothly and resulted in a satisfied customer and a proud Sarens crew.





# Highlights from Germany



Location : Köln - Dünnwald

Equipment used : 64 axle lines SPMT's ; Sarens Support System 610 ; 4 x climbing system CS 250t



As a measure to the increasing traffic around the city of Köln, additional lanes were added to the motorway, causing several bridges to be replaced. During 2 consecutive weekends, both 750 ton spans were successfully moved in place.

Location : Lübeck - Bad Schwartau  
Equipment : 32 axle lines SPMT's ; Sarens Support System 610 ; 2 Sarens Skidding system ; 4 x CS 250t

This bridge (480t) was built with regard to the construction of a 2<sup>nd</sup> railway between Lübeck and the port of Travemünde. Sarens positioned the bridge in a time frame of 3 hours while the A229 was closed for traffic.



Location : KW Moorburg  
Equipment used : CC2500-1

For the construction of a new power plant for Vattenfall, called KW Moorburg near Hamburg, our client Köster required Sarens to install underground concrete pipelines for the cooling water supply and drainage. This was performed in 3 phases following the overall project planning of Vattenfall.

Together with our client Köster, Sarens found the solution for lifting in a short timeframe, approximately 160 pieces of 56t concrete prefabricated pipes for the 3x 500m pipeline. Another challenge was the lifting in a narrow trench between two concrete building foundations and a changing gradient of the concrete duct.



Location : Segnitz  
Equipment : Twin barge Jozef and Rosa ; winches ; Ballastpumps ; RoRo Ramps ; 48 axle lines SPMT's ; Sarens Support System 610 ; 8 x CS 250t

The new "Mainbrücke" (900t) was built as a replacement for the existing bridge over the River Main. Sarens used the SPMT, with the Sarens Support System 610 mounted on top of it, to bring the bridge on the barge. The bridge was then positioned by the barge equipped with winches.





# First time in Poland and Europe



Location : Gdansk Lotos Refinery - Poland  
Equipment used : CC8800-1 ; 2 x 30 axle lines SPMT's

This lift was the heaviest reactor lift (1.360t) ever performed with a crawler crane! The lifting was shown live by Polish tv channels Polsat News and TVN24.  
The second reactor (1100t) was lifted with success 2 days later.



Location : Mińsk Mazowiecki - Poland  
Equipment used : LTM1500-8.1 ; AC100

In December 2009 Sarens Polska assembled two 0,75MW wind turbines from the company Windword. It was the first turbine of that kind ever assembled in Poland.



# Main Truss Installation



Location : Map Ta Put - Thailand  
Equipment used : LR 1750

Sarens Asia installed the main trusses. The total weight of the heaviest piece was 130t, the span 32m to an erection height of 73m.  
The job was executed in a very confined space at the Gheco one power plant.



# South Africa revisited



Location : Pretoria  
Equipment used : CC2600H

Sarens SA, recently lifted a new Pedestrian and Pipe Bridge into place in Pretoria.

The client Cadcon manufactured the bridge which spans 73m, with a width of 6m, and is 13m high at mid span. This project is part of the Gauteng Freeway Improvement Project, which is currently upgrading 185km of the countries critical road infrastructure. Sarens SA has been a major lifting specialist in this project.



Location : Kwa Zulu Natal  
Equipment : CC 2600H

Sarens SA was required to remove an existing vessel and replace it with a new vessel at Sapref Refinery. For this lift a 78m main boom and 200t superlift was required to lift the new vessel of 190t.



Location : Sandton  
Equipment : AC650

Sarens SA using the largest hydraulic capacity crane in SA, also participated in the same Gauteng Freeway Improvement Project in Sandton, for the William Nicole Bridge. For this lift of 108t a 160t counterweight and super lift was required, with a 35,5m main boom.

Sarens SA are the Heavy Lift Specialists in SA and proud to complete another successful Sarens Lift!





## NEWS FROM THE USA

### Surfing at San Onofre



Location: San Clemente, CA, USA  
Equipment Used: 42 axle lines SPMT's; Outside Lift System (OLS);  
Elevated Runway System; Hydraulic Lifter;  
Temporary Lifting Device

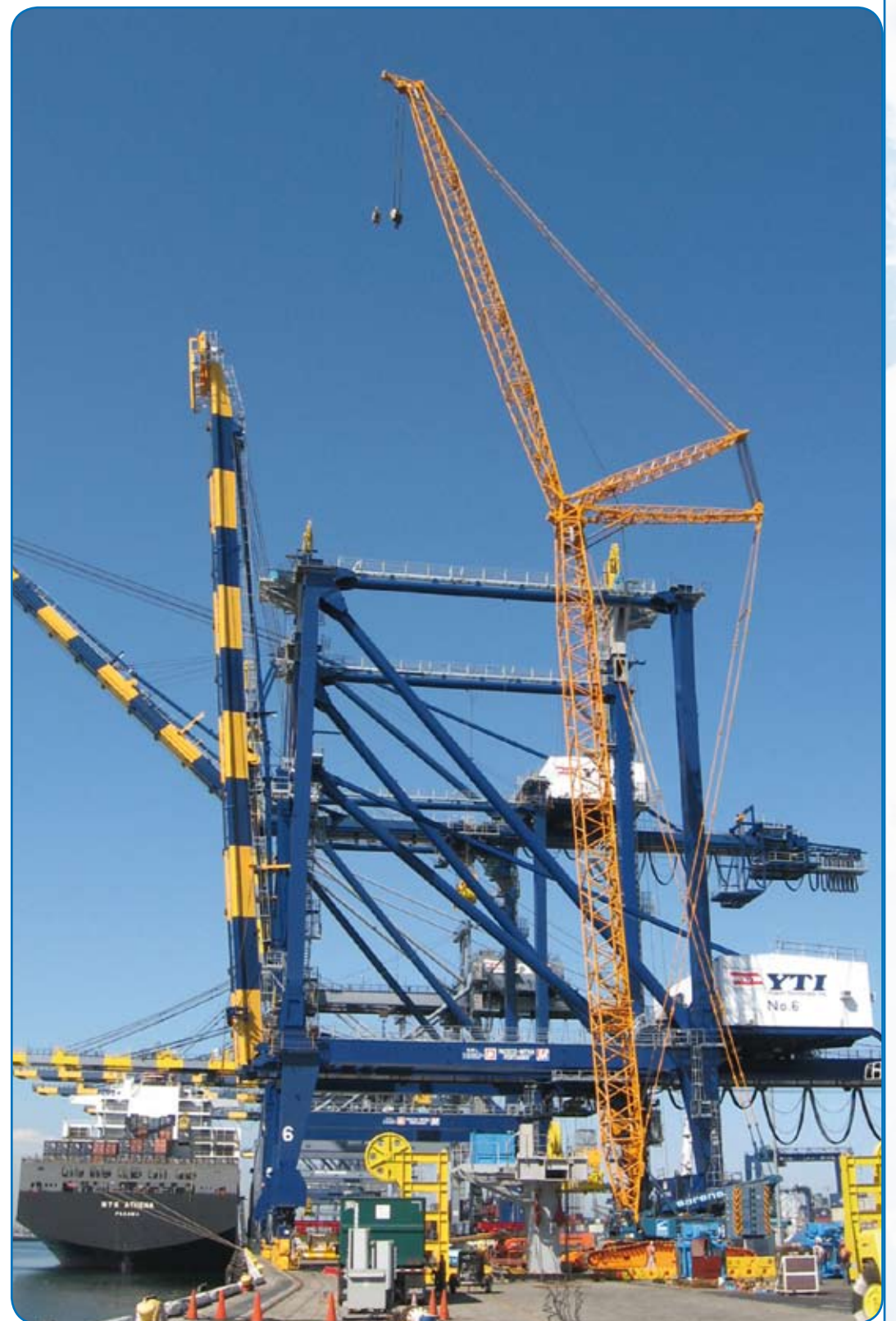
Next to one of the world's premier surfing beaches Rigging International (RI) recently performed a steam generator replacement project at the San Onofre Nuclear Generating Station. The construction team transported and lifted a total of four (two in & two out) Steam Generators weighing approximately 650 tons each. RI designed and operated a unique Temporary Lifting Device (TLD) that was mounted on top of the Polar Crane. The TLD has the capability to extend the Steam Generators up and down as well traverse on top of the Polar Crane.



### Foster Wheeler Modules on the Move

Location: Tulsa, Oklahoma, La Place, Louisiana and Benicia, California, USA  
Equipment Used: 400t Derrick Crane, (2) 12-line Self Propelled Modular Trailers  
(SPMT's) ; Western Carrier 300 ft. x 84 ft. Barge

RI was responsible for the engineering and delivery of fifteen (15) furnace modules totaling 1,570 tons. Components were fabricated in Tulsa, OK then loaded onto inland hopper barges for transport down the Mississippi river to New Orleans, LA. They were then trans-loaded to an ocean going barge and towed through the Panama Canal to Benicia, CA for offload onto Sarens' trailers for delivery to Valero Refinery.



### Sarens' Iron Hits the Dock

Location: Los Angeles, California, USA  
Equipment Used: LR1400/2 ; 2 x 4 axle lines SPMT's ; Prime Mover

RI offloaded, jacked up, tested and commissioned (4) four Quayside Container Cranes at Yusen Terminals on Terminal Island. Coordinating efforts with Sarens Global Operations (GOP), RI arranged to receive its first crawler crane directly from the delivery ship at the Port of Los Angeles. The LR1400 finished a project in Thailand then went straight to work in the USA.

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