

# Heavyweight News 19

Dear reader,

Over the last 6 months, Sarens continued implementing its mission to be the global leader in heavy lift and special transport. We are proud to have reinforced our HSQE standards again, with several BU's achieving their ISO and OHSAS certifications, and many more making good progress towards certification. This is of course not the end, but another milestone in a lifelong journey of continuous improvement towards 0 accidents.

Above all, a global leader needs excellent people and so we continued to reinforce our teams worldwide. We keep looking for people passionate about heavy lifting and special transport in all departments throughout the world, and our renewed website reflects this search for more colleagues. Sarens' fleet grew as well, with another three CC's with 1000t+ capacity, more than 100 SPMT's, a barge, lifting towers, strand jacks, over 50 telescopic cranes etc.

We are proud to share with you a sample of jobs supporting our slogan "nothing too heavy, nothing too high!" Enjoy reading this issue.

Wim Sarens - CEO Sarens Group



 LOCATION SANTA MARTA – COLOMBIA  
EQUIPMENT USED LR 1400/2; LR 1200

## SANTA MARTA JETTY PROJECT

This project involved the construction of a new loading facility for vessels in the Caribbean Sea, where Sarens supplied cranes for the storage area and the pier. The jetty will extend for approximately two kilometers into the sea and will support multiple conveyor systems and provide an access road to the vessels being loaded. Due to the stringent time constraints the cranes worked double shifts during 7 days a week. Congratulations to the project team involved!



LOCATION OSTEND - BELGIUM

### EQUIPMENT USED

ONSHORE: CC 6800; SENNEBOGEN 5500;  
OFFSHORE ON NEPTUNE: HUISMAN CRANE  
600t; LTR 1100

## THORNTON BANK, EMPEROR OF THE BELGIAN OFFSHORE WIND

Sarens installed and executed this spring and summer phase II of the Belgian offshore wind project Thornton Bank. The new project consists of thirty turbines of 6MW each. Sarens performed all onshore logistics, such as unloading of supply vessels, transport to and from intermediate storage and loading on board of the Jack Up Barge Neptune at the logistic hub in Ostend. The preassembly and loading on board of the rotor with a diameter of 126m was the most spectacular lift. However the heaviest part is the nacelle with a weight of 352t at a radius of 33m. On the Jack Up Barge, Sarens owns and operates a fixed Huisman crane (in green on the picture) which performs all lifts to install the tower elements, nacelles and the preassembled rotor at the offshore installation site in the North Sea. The Thornton Bank has the largest Belgian Offshore wind turbines of 6MW each and thus is the emperor of Belgian Offshore Wind!



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LOCATION VITORIA - BRAZIL

### EQUIPMENT USED

SMLT, STRAND JACKS;  
SKIDDING SYSTEM; SPMT'S

## EXCHANGE OF THE RINGS

Sarens provided an A to Z solution for the removal of old rings and the installation of new rings at Arcelor Mittals blast furnace in Brazil.

Five old furnace rings were first lifted with Strand Jacks, skidded out of the furnace building, then lifted with a gantry and finally lowered with the Sarens Multi Lifting Tower (SMLT) equipped with Strand Jacks. SPMT's transported the rings to temporary supports. The three new ring sections with a maximum weight of 750t each were installed using the same technique.

The Sarens team executed all lifting operations working continuously in shifts 24/7, resulting in a serious time reduction.







## ISO 9001 FOR SARENS IN MEXICO!

SRNS Latinoamérica, S.A. de C.V. (SARENS Mexico) obtained the ISO 9001 2008 certificate from Bureau Veritas Quality International in April 2012. The process to obtain this certificate started in September 2011 and was lead by Lorena Espinosa, HR and GEHS Manager of Sarens Mexico. The ISO certification is important for Sarens in Latin America in perspective of the further growth and development in this region.

Mr. Jan Sarens, member of the board and Mr. Luis Romero, Director Sarens Mexico, received the certificate by Mr. Rodrigo Bustamante of BVQI. Clients, staff, family and friends were invited to the ceremony.



## SIGNAL MUTUAL'S INDUSTRY LEADER SAFETY AWARD

Sarens North America (Rigging International) was awarded the Signal Mutual's Industry Leader Safety Award for its outstanding safety performance during 2010-2011.

Industry Leader Safety Awards require three consecutive years of membership, a claim frequency rate declining each year, no fatalities during the Membership Year (excluding natural causes), and reporting of Man-hours.

People depicted from left to right: Andy Lewis (Vice President, Durham & Bates), Scott Eppelman (Assistant VP, UW & Member Services, Signal Mutual), Patrick Settle (President & CEO, Rigging International dba Sarens), Mary Lyding (Risk Manager, Rigging International dba Sarens) and Mike Davis (Senior Vice President, Durham & Bates).



## STRATEGIC PARTNERSHIP FOR OFFSHORE WIND ENERGY

Sarens and Verbrugge Terminals from Flushing (Vlissingen) in the Netherlands have entered into a strategic partnership, resulting in a synergy of know-how and capability. Due to its unique location, Verbrugge Terminals is an ideal basis for providing logistic services to large-scale offshore projects in the North Sea. Both partners will focus on all onshore logistics related to offshore wind farms in Flushing.

People depicted from left to right : Rob Quartel (General Manager Verbrugge), Peter Libert (Key Account Manager Sarens), Martin Verbrugge (President and CEO Verbrugge), Hendrik Sarens (Member of the Board Sarens) and Erik van der Ham (Commercial Manager Offshore Wind Verbrugge).



LOCATION	QINGDAO - P.R. CHINA
EQUIPMENT USED	SPMT Kamag 2400

## SARENS AND CHINA

Sarens is providing the load-out service for more than 157 process modules. This project is a major achievement for the Sarens Group in intensifying its Chinese market development.



LOCATION	POITIERS, VIENNE (86) - FRANCE
EQUIPMENT USED	CC 6800

## BRIDGE DEMOLITION WITHOUT TRAIN DELAYS

Sarens was contracted to dismantle the "Passerelle des Rocs" bridge that was built in the 1970's over train tracks in the center of the city of Poitiers. Sarens lifted in total three pre-stressed bridge elements and three piles, the largest element being 52m long and weighing 270t. The challenge was multiple :

- Designing an appropriate spreader bar of 50m
- Rigging a CC6800 with reduced space and truck access
- Lifting the bridge sections and piles in the authorized time windows: power cuts for the whole SNCF train infrastructure during night

Despite a first windy evening implicating several planning rearrangements, Sarens carried out the job within the scheduled time. Sarens brought its heavy lifting experience and flexibility to adapt realistically to the requests of a demanding but cooperative client.







LOCATION  
EQUIPMENT USED

DAMMTORDAMM, HAMBURG - GERMANY  
4 x 12 axle lines SPMT's; PJ250 with 6 towers

## NEW BRIDGE IN HAMBURG

In April Sarens installed two new railway bridges, weighing 550 and 275t.

Sarens loaded the new bridges on SPMT's near the existing bridges, then drove underneath them to the far side. The new bridge parts were jacked up by 2m using the PJ250 system and then manoeuvred into place.



LOCATION  
EQUIPMENT USED

BREMERHAVEN - GERMANY  
2 x CC 6800; barge Louis

## GIANT LEGS CAN WALK IN DEEP SEAS WITHOUT WET PANTS!

After the manufacturing of the Jack Up Vessel "Victoria Matthias" in Asia it sailed to Bremerhaven for the finishing touch. Sarens lifted the 4 jack-up legs into the ship. Each of these jack-up legs weighs 650t and has a length of 78m. The tandem lift cranes were 2 x CC 6800. Due to the "never-seen-before-so-high" jack-up legs, both cranes needed a boom length of 108m!

Sarens also lifted 4 identical jack-up legs in a sister ship. The Victoria Matthias has enough capacity to transport and install towers, nacelles and blades of 3 wind turbines in the 5-6 MW class during one trip to an Offshore Wind Farm. With these legs the ship can jack itself up so high that it can stand in the deepest known offshore wind farm sites without getting wet!



LOCATION  
EQUIPMENT USED

NAMEN - BELGIUM  
Twin barges Karel & Victor;  
2 x LTM 1250

## DISASSEMBLY OF A BICYCLE BRIDGE DECK

In order to disassemble a bicycle bridge in Namén, two cranes were positioned on the twin barges.



LOCATION  
EQUIPMENT USED

BAHRAIN  
CC 2800-1

## ALL IS WELL IN BAHRAIN

Sarens has recently completed a one year project at a new steel mill in Bahrain. The project consisted in the erection of the steel structure, lifting and placing the equipment and the housing.

The crane was reconfigured three times to adapt to the growing plant and handled successfully all its tasks. Even through hard political times, Bahrain is holding on to its investment decisions.



## CHILEAN AMBASSADOR VISITS HQ

In March 2012 Sarens has opened offices in Santiago, Chile, and will operate 12 cranes by the end of the year. Additional investments are foreseen in 2013, thus strengthening Sarens' presence in the South-American hemisphere. The Chilean team is lead by Horst Nickel and is supported commercially by Regional Project Sales Manager Stefaan Vandierendonck, who is based in Santiago as of September 2012.

The Ambassador of Chile in Belgium, Mr Carlos Appelgren Balbontin, as well as the Commercial Representative of Prochile, Ms Susana Véliz Carrasco, recently paid the Sarens Headquarters a working visit. They were received by Mr Hendrik Sarens, member of the Board.

Best of success to the new Sarens entity!

People depicted from left to right: Marcel Roovers (Global Director Sales), Hendrik Sarens, Carlos Appelgren Balbontin, Susana Véliz Carrasco and Stefaan Vandierendonck.







LOCATION  
EQUIPMENT USED

YANBU – KINGDOM OF SAUDI ARABIA  
CC 8800-1; CC 2800-1; CKE 4000;  
Sarens Climbing Towers (SCT);  
24 axle lines SPMT's

### A SERIES OF FIRSTS

The maiden lifts of this upgraded CC 8800-1, brand new out of the factory with 150m main boom, consisted of six coke drums weighing 544t each. This Yanbu Export Refinery project (YERP) highlights Sarens' interest in the Middle East.

Building on this good start, Sarens will lift amongst others two reactors weighing 1.365t each with its renowned Sarens Climbing Towers (SCT).

With this reference project, Sarens is looking forward to expand its presence in the Middle East for upcoming projects.



LOCATION SHAYBAH – SAUDI ARABIA

### HOTTEST CRANE DEPOT IN THE WORLD!

The temporary crane depot and workshop set up in Shaybah, is probably the hottest crane depot in the world where 60 degrees centigrade is not uncommon.

Sarens Nass Middle East operates as Abdulla Nass & Partners Co. Ltd in Saudi Arabia.

In January 2012 Abdulla Nass & Partners signed an alliance agreement with Samsung Engineering, as a preferred crane supplier for their project. Shaybah, located in the desert 'empty quarter' of Saudi Arabia, lies 400km from the nearest town and is one of the largest oil fields in the world.

As of June 2012 Abdulla Nass & Partners Co. Ltd have thirty cranes on site and this will continue to rise. Cranes currently range in capacity from a 55t mobile to a 280t Liebherr crawler crane.



LOCATION SALT LAKE CITY, UTAH - USA  
EQUIPMENT USED 18 axle lines SPMT's; 2 PPU's; 610 Beam Support Structure; Grillage Beams

### MINE CRUSHER DRIVE MOVE IN ONE OF THE WORLD'S LARGEST OPEN PIT MINES

Sarens transported two drive stations using self-propelled modular trailers (SPMT's) at one of the world's largest open pit copper mines near Salt Lake City, Utah. Each of the 286t drives travelled approximately 3 miles downhill on an 11% grade. A total of 18 axle lines of SPMT's were used in a 3 x 6 configuration with 2 power pack units (PPU) and a beam support structure.



nothing too heavy, nothing too high





LOCATION  
EQUIPMENT USED

KRIMPEN AAN DEN IJSSEL – THE NETHERLANDS  
5 telescopic cranes (3 x 250t, 500t, 70t); SPMT's

### TELESCOPIC CRANES HELP TO ASSEMBLE LINK SPANS

Sarens has been awarded the contract for the heavy lifting works and site moves of stinger part which were fabricated at Krimpen aan den IJssel.

This stinger will form an essential part on one of the largest pipe laying vessel (PLV) in the world. With parts weighing up to 900t this is also one of the biggest stingers.



LOCATION  
ROTTERDAM - THE NETHERLANDS  
EQUIPMENT USED CC 2800-1

### SARENS TO THE RESCUE!

Sarens Nederland was in attendance at the Erasmus Medical Center in Rotterdam with a 600t crawler crane. This CC 2800 replaced two steam boilers on the 26th floor of the hospital, with weights up to 22t. The work was carried out at night, to keep the landing platform accessible for the emergency helicopter.

Special foundations were needed because of the weight of the crane (750t) and the 180m boom had to be assembled in the air due to the limited space.



### FMG PORT EXPANSION

LOCATION PORT HEDLAND, WA- AUSTRALIA  
EQUIPMENT USED 2 x 22 axle lines SPMT's

Transport and installation of a 800t Reclaimer unit.



### FMG SOLOMON PROJECT

LOCATION TOM PRICE - AUSTRALIA  
EQUIPMENT USED 2 x 12 axle lines SPMT's;  
CC 2800-1

Transport and installation of a 300t ROM Bin (Run of Mine Bin).



LOCATION RUMAILA OIL FIELD  
IRAQ  
EQUIPMENT USED 2 x 40t; 2 x 60t 1 x 80t

### NEW GROUNDS FOR SARENS

Sarens has been awarded a one year contract for six telescopic cranes.

The cranes work five days a week at the North and South Rumaila oil field near Basra.



LOCATION GDYNIA - POLAND  
EQUIPMENT USED LTM 1400; LTM 1400/1; AC 650; AC 700

### HARBOUR CRANE ASSEMBLY

Beams weighing 230t were lifted by four cranes. This was the heaviest part of the harbour crane.







## NEW WINDS FOR SARENS

LOCATION OJUKULA - ESTONIA / PAKERTAI - LITHUANIA  
EQUIPMENT USED TC 2800-1; GMK 5100; LTM 1400-7.1

Sarens Polska executed the first Sarens project in Estonia: the assembly of three E82 wind turbines. The project was completed quickly and in time. Afterwards the cranes were transported to Lithuania for a following project. On site in Lithuania a LTM 1400-7.1 was used for preassembly and a TC 2800-1 and GK 5100 for installation. This project also finished in time and to the clients' satisfaction.



LOCATION RIJEKA – CROATIA  
EQUIPMENT USED Barge Paula

### SARENS' NEWEST BARGE PAULA

Barge Paula, 100m long, 33m wide and 7,6m high, was launched in the Rijeka shipyard. It is the sister barge of the identical barge Louis, which was built at the same shipyard and launched in May 2011.

Both barges owned by the Sarens Group are used to support Sarens' maritime moving activities. This could range from simple transport to the most complicated rigging activities whereby ballasting, trailers, skidding and lifting are part of the operations. Sarens owns six more twin barges of smaller sizes.



### FREE STANDING TOWER CRANE SOLUTION

WSV, the joint venture of Sarens and Wilbert Cranes, present a free standing crane solution for the construction of wind turbines. This concept offers the following advantages to the client:

- considerable **free standing** heights (with 3,30m tower elements up to 152m, in combination with 6,60m tower elements over 200m)
- steady load capacity
- small required area for mounting and operation of crane
- can be mounted on stationary or railgoing portal (free standing heights between 75 and 85m, depending on jib length)
- transport with standard trucks
- crane operation possible up to 17 m/sec wind speed
- putting into operation and out of operation rapidly done by crane operator
- hoisting speed:
  - up to 95 m/min at 10 tons
  - up to 15 m/min at 96 tons
  - up to 10 m/min at 128 tons

This concept can be performed even on difficult sites.



LOCATION DE HOEK – SOUTH AFRICA  
EQUIPMENT USED LTM 1400

### CEMENTING SOUTH AFRICA

Sarens South Africa lifted the main stack (12t) at a cement plant.

In the background of the picture you can see the bag filter section weighing 18t which Sarens also lifted excluding the funnel section.

### OFFICIAL SARENS WEBSHOP

At [www.sarensshop.com](http://www.sarensshop.com) you will find an extensive range of unique Sarens items including scale models, accessories and clothing. These items have been especially designed for Sarens. Become part of the Sarens Group and choose your personal products.

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