



# 11 Heavyweight News *from Sarens*

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Dear reader,

Thanks to the combined forces of our Heavy Lift, Special Projects, Engineering and Product Development departments, we are installing the first offshore 5 MW turbines in the world, 28 km off the Belgian coast.

In the meantime, Dirk Verwimp, our Heavy Lift Sales Manager, moved with his family to the other side of the world and is doing a great job for us in Australia.

Enjoy reading this latest edition of our Heavyweight News.

Carl Van den Eynde  
CEO

## First offshore wind farm with 5MW turbines in the world!



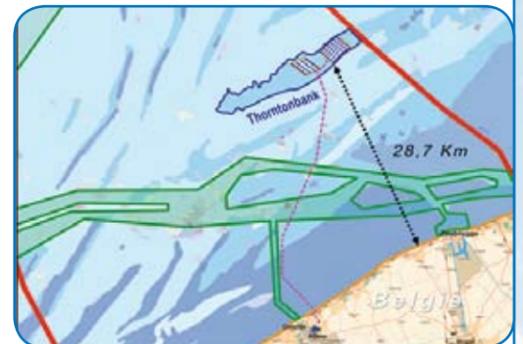
Client : Geosea (DEME group)

Location : Thornton Bank – Ostend - Zeebrugge - Belgium

Equipment used : SPMT's; LR 1750; LG 1550; CC 2800; TC 1100; AC 200; SMLT

This summer Sarens installed the first 6 turbines (5 MW each) on the Thornton sandbank in the North Sea. Kamags (self propelled modular trailers) transported the 6 concrete foundation blocks (3.000t each - 42m high) from the yard to the quay. The concrete blocks were transported by the "Rambiz" (floating crane) and placed on the prepared seabed.

The next phase was the assembly of the steel towers and turbine parts on the foundations. To execute this operation, Sarens put a 750t crane (LR 1750) on top of the SMLT (Sarens Multi Lift Tower – height: 40m). The SMLT stands on the "Buzzard" (Jack up barge). The nacelle height of the Repower turbines is 120m measured from the seabed and the heaviest lift is the nacelle weighing 325t.



The Thornton sandbank is situated 28 km off the Belgian coast in water depth of 12 to 27,5m.

When completed the wind farm will deliver 300MW (enough energy for the annual consumption of 600.000 inhabitants).

All lifts are in-house engineered using Autocad 3D software.

3 cranes lifted the LR 1750 on top of the pre-installed 40m high SMLT tower.



## Sarens to the rescue



Client : The Brussels Airport Company  
Location : Zaventem – Brussels National Airport - Belgium  
Equipment used : LTM 1400; AC 700

A Boeing 747 crashed on a Sunday in May and Sarens-tele took part in the recovery operation.

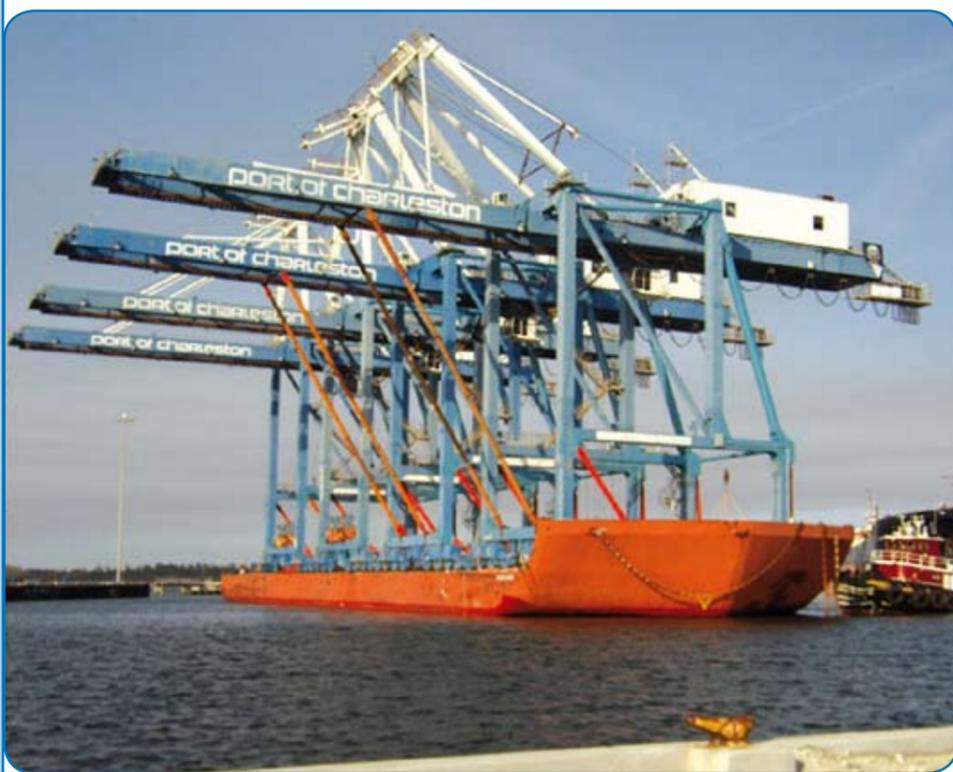
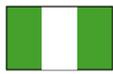
First the aircraft had to be stabilised to prevent it from moving further as it lay across the local railway. This was achieved by placing a 120t weight at both sides of the body. Cables were also attached to secure the aircraft. After this 100t of sand was put against each side of the body so that the cargo (total weight of 80t) could be safely removed. The body was then lifted by a LTM 1400 and an AC 700 and placed at a location 20m further away, where it was demolished.



## 4 old Girls all dressed up and going to a dance



Client : APMT - Apapa  
Location : Charleston – South Carolina - USA to Apapa - Nigeria  
Equipment used : Skid system; rod lifters



Norsar transported 4 Canon cranes from Charleston to Apapa and designed and executed the gauge change to suit their new home. Loading was done by 1200t SWL skidding system, Apex rotation to get under low bridge with rod lift system. Norsar handled sea fastenings and bracing design, fabrication and installation, as well as all aspects of the transport - this is turnkey project!

## More wind turbines in Poland



Client : Rolpol - DWIND  
Location : Gniewkówek - Poland  
Equipment used : LTM 1500; AC 205

Sarens Polska assembled several wind turbines this year (from 0.5 to 1 MW). In this project we organized the transport of tower elements, nacelles and wind turbine blades from Austria to the site located in the center of Poland (including all necessary permits).



## Biggest refinery in Poland

Client : PKN ORLEN  
Location : Plock – Poland  
Equipment used : CC 2500-1; LTM 1500; AC 250-1; AC 200

Sarens Polska assists with the assembly of a new installation for paraksylen PX in the biggest refinery in Poland. A CC 2500-1 will be used to lift several columns (from 90t to 120t). An LTM 1500 does the tailing operation and will also lift a few reactors and small columns together with an AC 250-1 and AC 200.

Sarens Polska performed the engineering for this project. Scheduled project time is 10 months.



## The sky is the limit in Australia



Client : Incitec Pivot  
Location : Brisbane - Australia  
Equipment used : LG 1550; LTM 1300

Sarens Australia's LG 1550 and LTM 1300 were called in for the exchange of a 25t roof structure forming the top of a conveyor belt building in the centre of a fertilizer storage complex. Due to the height of the building and the distance to the nearest suitable crane location, Universal Cranes (Sarens official agent in Australia) decided to use the LG 1550.

Incitec Pivot expressed their gratitude for a well prepared and professionally executed job.



## It takes a Liebherr to make a Liebherr



Client : Liebherr Nenzing GmbH / A.S.R.Y.  
Location : Hidd - Bahrain  
Equipment used : LR 1300.

Sarens Nass Middle East was commissioned to assist Liebherr Frontline (port division) in assembling a Liebherr port crane.

The port crane is the first of its kind in the Middle East having a total weight of 400t, lift outreach of 65m, a lift height of 100m and a maximum lifting capacity of 15t.

A brand new LR 1300 was first assembled and commissioned on site and then used for the port crane assembly from start to finish.



## A Crane that likes skiing

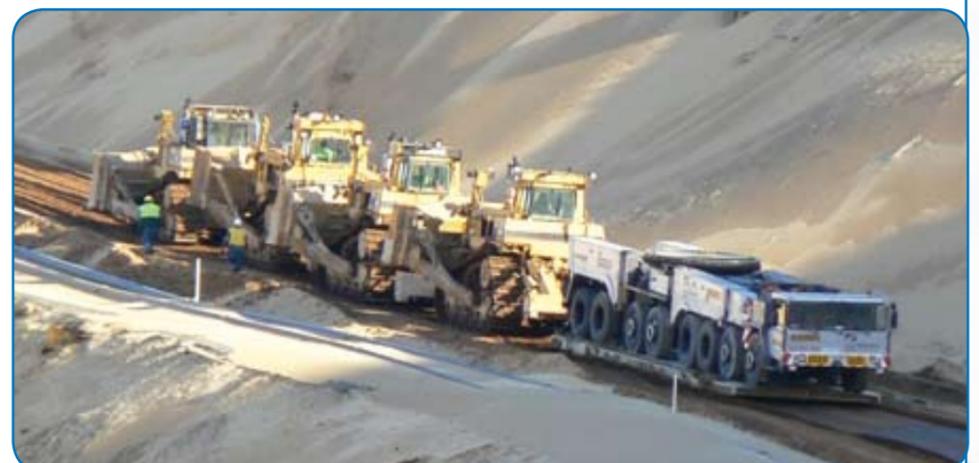
Client : RCR Tomlinson  
Location : North Stradbroke Island - Australia  
Equipment used : LG 1550

In a sand mine on North Stradbroke Island, Sarens Australia was called upon to change an old tromell. This task proved to be very challenging, as the mine does not have any paved roads for access.

For the assembly of the LG 1550, Universal Cranes provided one of their new 100t Manitowoc crawler cranes which had to travel 2,5 km on

its own power through the soft sand dunes. In spite of these difficulties the mobilisation and assembly of the main crane took only 2 days and the old tromell was lifted from its bearings the next day as planned.

Two days later, after some careful preparations by our client, we could install the 48t new tromell on its support frame.



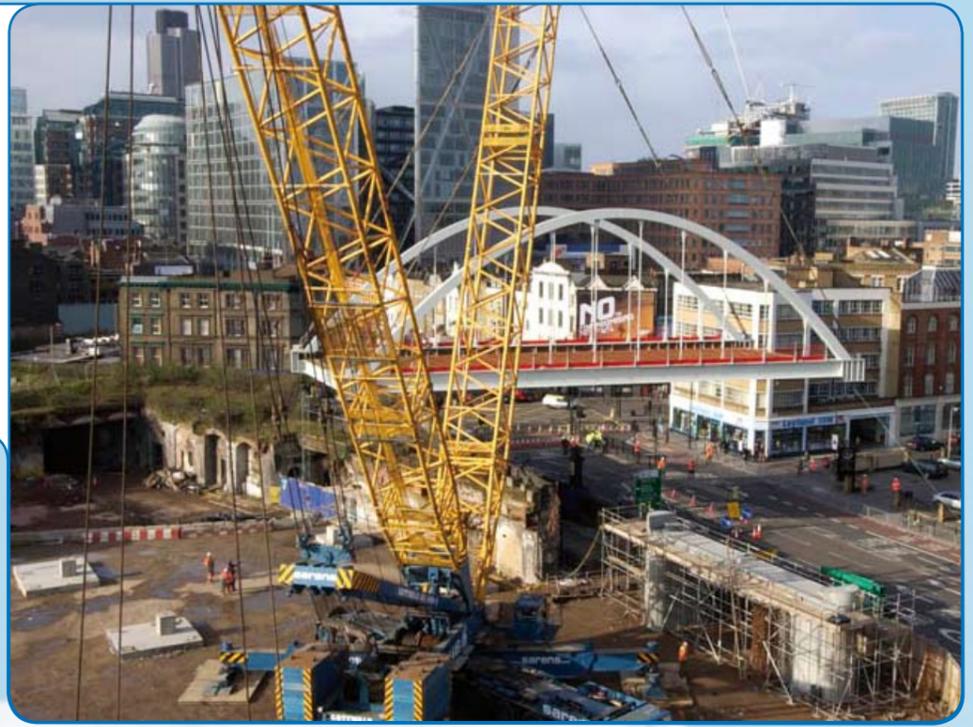
*The body of our crane was stripped from its upper works and both parts were transported to site on steel skids pulled by four "D9" bulldozers. Obviously de-rigging and demobilisation (this time uphill) was as difficult as getting there in the first place.*

# The place to be for the 2012 London Olympics



Client : Fairfield Mabey of Chepstow  
Location : Shoreditch London - UK  
Equipment used : AK 680

Sarens UK positioned a bridge for a new railway line for the 2012 Olympics.



# Yemen LNG Project



Client : Punj Lloyd Ltd  
Location : Bal Haf - Yemen  
Equipment used : CC 6800



The 130m high flare, consisting of 7 modular elements, was successfully assembled by one of our CC 6800 cranes. The military security level for our personnel and equipment was high in Yemen. Sarens' personnel travelled with a charter flight from Sana'a to an airport inside the guarded area of the construction site. The ship that carried the crane berthed on the construction site's private quay.

All risks were reduced to the minimum!

# XXL Bridge beam relocation



Client : Viaduct Erection (Bombela)  
Location : Midrand JHB (Gautrain) - South Africa  
Equipment used : LTM 1400; AC 300



*In order to move the 130m long trusses, they had to be split into 8 sections (6 of 40t - 20m and 2 of 113t - 65m).*

Sarens assisted with the arduous task of planning and executing the relocation of 2 bridge beam trusses (230t - 130m long).

The planning stages of the project were completed over a period of a month and included the logistical tasks of removing certain trees and traffic lights, in order to move

the cargo along the safest route between the sites.

The task was completed following the highest standards of safety and performance and resulted in Bombela awarding us with 17 subsequent projects of the same capacity.

# SSA goes shopping!

Client : Platinum Air conditioners  
Location : Village walk shopping centre - Sandton - South Africa  
Equipment used : LTM1400; LTM1050

Sarens did the replacement of air conditioners in the Village Walk Shopping Centre in Sandton.

The project required a 400t crane, which moved units weighing 4t each within a maximum radius of 70m.

Planning for the project was done over a three week period, in which permission was granted for road closure around Village Walk for a 24 hour period.

Due to the small time frame, the crane had to be moved on the site several times. The project was completed within the given timeframe by moving a fully erected crane around the building in one of the busiest suburbs in Sandton.



# SPECIAL REPORT ON POWER PLANTS

## Datteln



Client : ARGE Stahlbau KW Datteln  
Location : Datteln - Germany  
Equipment used : CC 8800-1; LR 1750; CC 2800-1

In May 2008 the first support of the new power station was built in Datteln. Sarens supplied a brand-new CC 8800-1, equipped with 108m main boom and 60m jib.  
This coal fired power station of 1.065 MW will be operational in 2011.



## Walsum

Client : Arge Stahlbau Kraftwerk Walsum  
Location : Walsum (Duisburg Block 10) - Germany  
Equipment used : 2 x LR 1400/2; LR 1750

The construction of a modern coal-fired 750MW power generating station started in November 2006 and should be finished in 2010.



## Neurath

### Also the biggest European construction site



Client : ARGE Stahlbau, Polimex, Djuro Djakovic, Plasticon, Kone Cranes  
Location : KW Neurath Block F & G (Grevenbroich) - Germany  
Equipment used : CC2800; 4 x CC2800/1; LR1350/1; SCX2800/2; SCX2500; SPMT's (36 axles)



This power station is one of the biggest investment projects at this time in Germany. At its peak 4.000 people work daily on this site, thus making it the biggest (52 ha) construction site in Europe.

## New division for Sarens Polska



Client : Alstom - Rafako  
Location : Belchatów - Poland  
Equipment used : CC 8800-1; 2x CC 2800-1; CC 2500-1; SCX 2800-2; LTM 1225; LTM 1160-2; ATF 100-5; AC 100



Sarens Polska opened a new branch in the busiest construction centre in Poland: Belchatow. As well as general plant installations, Sarens is building a cooling tower

and a new block for 833 MW.

You can follow the construction works in real time on :

<http://oldwww.elb.pl/webcam>



## A New Car

Client : ArcelorMittal  
Location : Fos sur Mer – France  
Equipment used : CC 2800-1

Sarens installed a new charging car, weighing almost 250t at the Arcelor-site. The charging car ensures the provision of coal to the coke batteries of a coke plant.

It was finished and tested outside the plant, which required it to be lifted fully assembled on top of the coke batteries. Due to the narrow space, the crane had to travel approximately 45m inside the plant, changing its superlift radius 4 times in order to avoid interference during slewing.

Furthermore, the operation had to be finished in due time, as the charging car had to be operational as soon as it was installed on its 20m high level rails.



## New partner for Sarens in Ukraine

Last June the Sarens Group started a partnership with a new partner in Kiev, the company SITINVEST. We wish them success with the common business.



From left to right :  
Victor Klementenko CEO,  
Philippe Delhez coordinator and  
Dirk Verwimp.

## First bridge installation by SPMT's in Norway!



Client : Skanska ASA  
Location : Thurmannskog - Norway  
Equipment used : SPMT's

During 2 short nights in April 2008, Sarens Transrig successfully installed a new pedestrian bridge across highway Rv-159. Each bridge section had a calculated weight of 125t and was installed using 12 axle lines of Kamag with 3,5m high steel supports on top.



### Colophon

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## The 3-car-garage

Client : Total  
Location : Gonfreville - France  
Equipment used : CC 8800; CC 6800; LR 1350; SPMT's

For the EB/SM Modernisation Project on the TOTAL Petrochemicals Plant in Gonfreville (Le Havre), Sarens performed the transport and lifting of about 30 pieces of heavy equipment.

Our activities have been split up into 2 phases: the new construction phase (January '08 – April '08) with our CC6800 as heaviest crane and the shutdown phase (August '08 – September '08) with our CC8800/1.

The major lift was the exchanger better known on site as the "3-CAR-GARAGE".

