



# Heavyweight News from Sarens

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Dear Reader,

We are very pleased to present the first edition of our newsletter, "Heavyweight News from Sarens". Whether you have been involved with Sarens for decades or whether you have only recently discovered the Sarens experience, we hope you will find it interesting.

In this first edition, we present some of the projects Sarens NV and its subsidiaries have carried out in different parts of the world in the past months. As you probably know, our subsidiaries have a considerable degree of autonomy. This is because we believe direct contact with customers is vital to the success of our business.

The most befitting description of the Sarens Group is 'specialists in the extraordinary'. We are not only experts in exceptional heavy transport, but first and foremost in manipulating heavy goods. We don't just provide and operate specialized lifting equipment: we deliver total lifting solutions. People play a key role in this. That is why in this newsletter we include an organizational chart with all branches. In future editions, we will focus on the different departments and their role within the Sarens Group.

The prime key to Sarens' success is our sense of entrepreneurship. Because we firmly believe in the future, we employ highly skilled personnel and invest in state-of-the-art equipment and safety precautions. This enables us to offer our customers the most advanced solutions to their often extra-ordinary needs. The opening of the European market brought about an explosive growth for our company - even far beyond Europe.

Enjoy reading Heavyweight News Issue 1!

Ludo Sarens  
CEO Sarens Group

## Grane Offshore Project at Aker-Kvaerner Yards, Norway

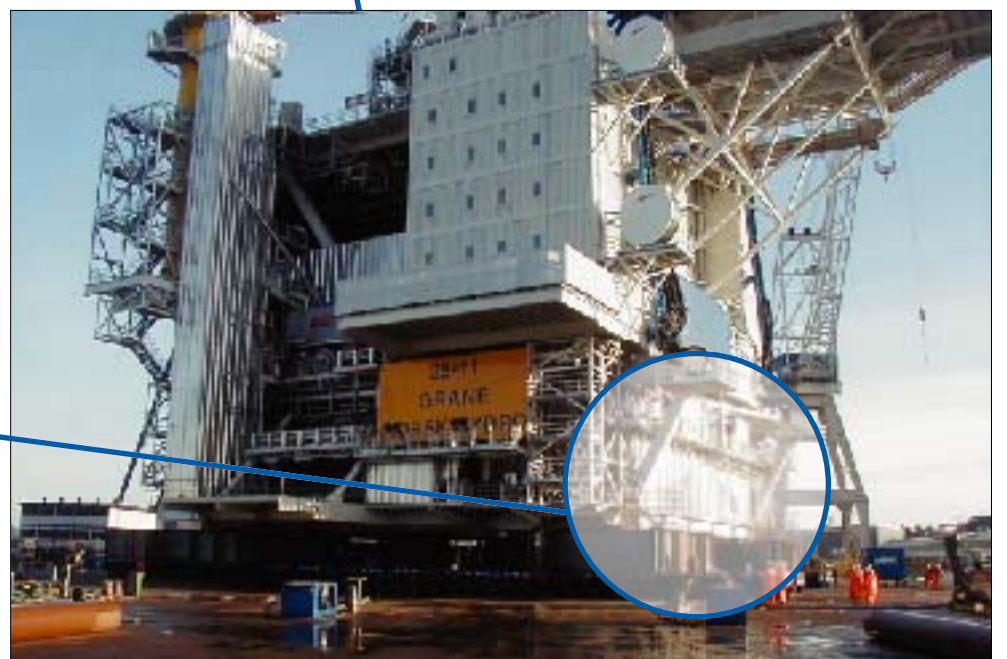


Customer: Norsk Hydro  
Location: Aker-Kvaerner Yards / Norway  
Materials Used: SPMT's

For the Grane Offshore Project, Sarens moved three modules at three different yards in Norway within a two-week period. These impressive trailer load-outs involved modules with a weight varying between 7,500 tonnes and 12,200 tonnes.

On the last Friday of March 2003, the Grane Process Module — which was the largest module weighing 12,200 tonnes — was being moved by means of self-propelled multi-wheel platform trailers (SPMT's) with a total of 444 axle lines, at

the Kvaerner Egersund yard in Norway. Transrig, Sarens' Norwegian subsidiary, supported the Sarens Group Special Projects Department locally. This Grane Offshore Project represents the biggest load-out Sarens has carried out so far. The photographs give some impressions of our record.



## LNG Plus Project on Bonny Island, Nigeria



Customer: Chicago Bridge & Iron Company  
 Location: Bonny Island / Nigeria  
 Materials Used: Demag CC2800 / Terex hydraulic rough terrain cranes

Sarens Projects department has secured a contract to supply 26 cranes to the Nigeria LNG Plus Project in Finima on Bonny Island in Nigeria. The 8 crawler units and 18 rough-terrain hydraulic cranes will be supplied over a period of more than two years. The largest crawler unit will be the Demag CC2800, which will be deployed for twelve months. The largest hydraulic crane unit involved is a Terex RT 1100 series.

Nigeria has an estimated 2800 billion cubic

meters of proven natural gas re-serves but due to a lack of infrastructure, the country is forced to flare 75% of the natural gas it produces. The annual output of the current three LNG production trains is limited to 11 billion cubic meters. Our client has been awarded a contract to provide civil and mechanical erection services for the Fourth Train of the Nigeria LNG Plus Project, which aims at doubling the natural gas processing capacity.



## SCANWIND Wind Turbines in Hundhammerfjellet, Norway



Customer : Scanwind  
 Location : Hundhammerfjellet / Norway  
 Materials Used : Sarens Push-Up Tower Lifting System / TC 1100 auxiliary crane / SPMT's + tailing device

Transrig, Sarens' Norwegian subsidiary, and ScanWind joined a partnership with Siemens and NTE to build and install the first ScanWind 3000 DL wind turbine at Hundhammerfjellet in Nord-Trøndelag, Norway in Winter 2002-2003.

Sarens carried out the transport of the turbine and the lifting activities successfully, according to plan and without damage or accidents. Tower lifting was preferred over crane lifting for this installation because of space limitations.

In the meanwhile, the ScanWind turbine is operating successfully and new projects have been planned. NTE, which now owns ScanWind for 85%, has committed itself to build thirteen more ScanWind turbines at the same site. Seven of these turbines are planned for Fall 2004 and six for Spring 2005. Siemens is heavily involved in the project and is investing in equipment. Further NTE plans include a new 83 ScanWind turbine park near the current site.



## High-Speed Rail Track Bridge over the Hollands Diep



Customer: Mercon Steel Structures  
 Location: Hollands Diep / The Netherlands  
 Materials Used: SPMT's / Strandjacks / Sarens Twin Barge

Sarens was commissioned by Mercon Steel Structures to transport and erect the high-speed rail track bridge over the Hollands Diep in The Netherlands.

One aspect of the project involved the roll-on roll-off loading at different locations (Mercon Steel Structures in Gorinchem, Hollandia in Krimpen a/d IJssel, HBG in Schiedam) of:

- \* Two bridgeheads, each measuring 50 m long, 7 m wide and 5 m high and weighing 320 tonnes.
- \* Eleven hammerhead sections, each measuring 46 m long, 7 m wide and 11 m high and weighing 530 tonnes.
- \* Ten bridge sections, each measuring 60 m long, 7 m wide and 5 m high and weighing 530 tonnes.

Upon arrival at the Hollands Diep, the

bridge elements were transported to the construction site using the Karel-Viktor twin barge of the Sarens Group and lifted in, using eight 450 tonnes strand jacks.



## Allison Sarens Project in Louisiana, USA



Customer : Tetra Technologies  
 Location : Louisiana / USA  
 Material used : SPMT's

In July 2003, a 1440 tonnes deck, measuring approximately 24 m by 61 m, was salvaged from a Gulf of Mexico oil and gas property after hydrocarbon production ceased. Allison Sarens used eight tunnel load spreaders and 64 SPMT axle lines to offload the deck in one day. Components of commercial value will be removed, repaired and re-certified for re-use.



## Erecting a NEG-MICON Wind Turbine in Middelkerke, Belgium



Customer : cvba Middelwind  
Location : Middelkerke / Belgium  
Material used : Liebherr LTM 1400

On Wednesday 26 June 2003, Sarens-De Kil erected and mounted a 55 m high NEG-MICON wind turbine. The project had been commissioned by cvba Middelwind, a partnership of the local electricity provider and investors. The wind turbine is the second in the region. Combined, the two turbines can produce 1,500 kW, enough to provide electricity to approximately 1,200

families. The wind turbine can operate in winds of 3.5 m/sec to 25 m/sec. In case of stronger winds, the turbine will be disconnected.

Assembling the wings, erecting the tower and assembling the turbine was completed in half a day with a LTM 1400 hydraulic crane with fixed fly jib. Because of strong winds, setting up the wings was carried out

in the evening. This was yet another successful 400 tonnes crane project of the Sarens.tele department ([www.sarens-tele.be](http://www.sarens-tele.be))!



## Positioning 306 Concrete Blocks in Port of Llanes, Spain



Customer : SATO  
Location : Port of Llanes / Spain  
Materials used : LR 1750 / Sarens Skidding system

Sarens Projects Department was asked to position 306 concrete blocks of 60 tonnes each in the harbour of Llanes to protect it against the forces of the Atlantic Ocean.

The traditional solution for this assignment would have been to use a barge with a crawler crane on it and a second barge to transport the concrete blocks. The size of the harbour and the tides, however, made this approach impractical and risky.

We therefore chose to position a crane on the quay and transport the blocks over land. This was challenging because we needed to position a 10,300 mm wide crane on a 8,107 mm wide quay. In addition, the crane had to operate from four different positions.

To overcome the problem of the narrow

quay, we co-operated with the steel structure department of our client to develop a structure which would support the crane.

To ensure stability and balance during operation — even under the worst conditions — 320 tonnes supplementary counterweights were added in the structure.

To bring the crane into the four lifting positions, the crane, the steel structure and the counterweights had to be moved over a distance of 200 m. Our SARSKID system of the Sarens Special Projects Department provided the optimum solution.

The entire project had to be finished before the start of the tourist season.

## Lifting of a 180 Tonnes Stripper in Bahia Blanca, Argentina



Customer : Profertil Corp.  
Location : Bahia Blanca / Argentina  
Materials used : AMK 500-93 / AC 615

Despite the fact that Argentina has experienced one of the worst economical crises in its history, large companies such as Profertil Corp. continue to invest in the country. The most important project in 2003 was the assembly of a new PFT-731 stripper. The main crane in this project was a Gottwald AMK 500-93 with a 70 tonnes maxilift counterweight. It was used to lift 180 tonnes to 10 m operation radius. The secondary crane, a Demag AC 615 was used for tailing.



## Cranes and Lifting Services for Pemex Refinery in Madero, Mexico



Customer : Pemex  
Location : Madero / Mexico  
Materials used : CC2400 / HC170 / PC 9600

This project was the first time the Sarens Group operated in Mexico. We were asked by SES (Sarens' Thailand subsidiary) — who had won a contract from SK Engineering of Korea — to supply a multitude of cranes and lifting services for the refurbishment of the Madero refinery for a 12 month period. The photograph shows a CC2400 and an 80 Ton telescopic crane (in the fore-

ground) in action at the Pemex refinery in Madero and illustrates that space was very limited. The project was carried out successfully, which has led to further investments with our local partner Gruas Ojeda thus expanding full-time operations into Mexico.



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[newsletter@sarens.com](mailto:newsletter@sarens.com)

# Self-Erecting Container Cranes Project in Rouen, France



Customer : Kalmar Industries  
Location : Rouen / France  
Materials : SPMT's / Strandjack



For this project in Rouen, Sarens SPMT's and ballasting equipment were used to unload two container cranes, with a total weight of 850 tonnes, from a sea-going barge. After careful preparation, the cranes were then self-erected using a combination of twelve strand jacks. By positioning the strand jacks on top of the crane legs, the superstructure — which

weighed 520 tonnes — was lifted 50 m. This project was carried out successfully by the staff of the Special Projects Department.



## Coming up soon : projects 2003

Customer	Location	Project
HOLLANDIA	Düsseldorf (Germany)	Multifunktionsarena
COBRA GHESA	Bilbao - Santurce UTE Power Plant (Spain)	Heavy Transport + Installation of boiler modules & Chimney
BASF	Antwerp - Basf (Belgium)	Relocation of gas sphere
PARAGON LITWIN	Dunkerque (France)	Lifting of reactor Total Fina Elf Refinery "des Flandres"
FLUOR + FABRICOM	Immingham - Conoco (UK)	Load out + on site transport + heavy lifting on site
SNCF	Pantin (France)	Exchange "5 tabliers métalliques"
AMEC	Walsend (UK)	Lifting on the Bonga project
T.C.O.	Kazakhstan	Sour Gas Plant
LUKOIL REFINERY	Bourgas (Bulgaria)	FCC Revamp
DSD	Novi Sad (Serbia)	Bridge over Danube : dismantling and reassembly assistance

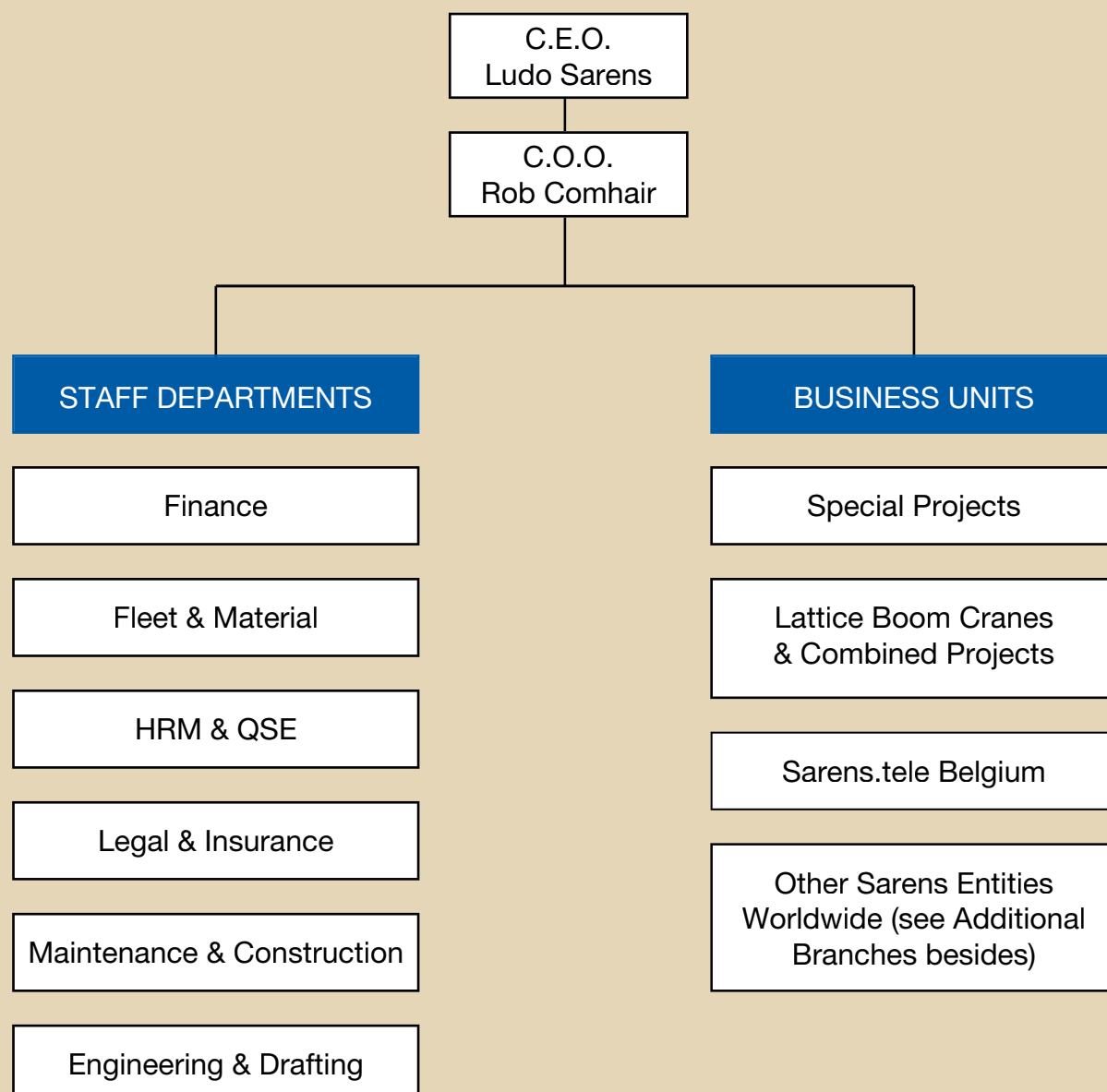
## Safety leads to greater customer satisfaction

The Sarens Group believes that safety awareness and adherence to the highest quality standards contribute to improved performance and efficiency — and thus lead to greater customer satisfaction. Since July 1995 the company has the VCA\*\* certificate (Contractors Safety Checklist, CSC) as awarded by Lloyd's Register Quality Assurance Limited.

In Belgium, industrial accident statistics for registration purposes are calculated according to the formula: (number of industrial accidents x 1,000,000) / number of hours worked. The industrial accident average in the construction sector is 70. In the last three years, Sarens has succeeded in keeping its number of accidents below 10. The record number of accident-free days to date is **318**.



## Organisation Chart



## Additional Branches

Belgium	Samoco
UK	Sarens UK LTD
Norway	Transrig AS
Germany	Sarens Deutschland GmbH
Spain	CEIT S.A.
Italy	Sarens Italia S.R.L.
Poland	Sarens Polska
Poland	Sarens Polska Engineering
Thailand	SES CO LTD
USA	Norsar Services INC
USA	Allison Sarens LLC
Mexico	Sarens-Ojeda
Argentina	Tecmaco Integral S.A.
Brasil	BSM Enghenharia
Bahrain	Sarens Middle East LTD
South Africa	BD Sarens PTY LTD
China	Sarens China
Algeria	Sarens Algerie Eurl.
Netherlands	De Kil & Euromontage
France	Sarens France
Kazakhstan	Sarens Kazakhstan

## Colophon

**Headoffice**  
Sarens NV  
Autoweg 10 • B-1861 Wolvertem  
T: +32 52 319 319 • F: +32 52 319 329  
info@sarens.com • www.sarens.com

## Editors

Didier Martens, Jan Van Rossum, Hans Sarens, Hendrik Sarens, An Jacobs, Carl Sarens, Jaap Mouthaan, Bart Wauters, Stefaan Vandierendonck, Fred Hulshof, Gudmond Olsen, Hank Robards, Dirk Besters, Dirk Verwimp, Miguel Alejandro Gil, Aad Noordijk, Gert Hendrickx, Steven Sarens, John Derrick.

**Co-ordination**  
Veerie De Cuyper

**Graphic design**  
www.lemento.com