

Heavyweight News from Sarens

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Dear Reader.

Turnkey heavy lifting & transport projects, safety, recruitment of qualified personnel, all in the lift at the Sarens Group:

- Benny Sarens, his sons Carl & Steven and our "Special Projects Department" team are extremely proud to announce some of their recent major achievements in bridge positioning activities. In the first quarter of 2004, we installed bridges all over Europe at an average of one a week. The most impressive of these are described in the enclosed "Special Edition Bridges" flyer.
- Due to improvements in our global project management organisation, we have built even further on the confidence and trust of both existing & new clients. This has resulted in an increased demand for our services. This demand has not only been in terms of bridge activities but also with regard to wind turbines, power plants and petrochemical activities.
- At Sarens, we recognise that client confidence only comes when safety is guaranteed. Therefore, Sarens NV Wolvertem chose to apply for the highest-ranking SCC (VCA) certification and was the first company in Belgium to obtain the 2-star (**) class. This is an exceptional achievement and the certification will be valid until 2007. We are also proud to announce that the Sarens France entity obtained her first ISO 9002 (version 2000) last April
- In line with our global strategy, we have made considerable efforts to invest in recruiting high qualified personnel. In addition, we have commenced exciting new Joint Ventures including "Sarens-Trans-lift" in Australia, "Sarens de Venezuela" and decided to focus even further on the newly named entity "Sarens Asia" (see further).

We hope your confidence in us will continue to grow. We shall be happy to be of assistance and remain focused on providing the greatest customer service and quality for all of our clients.



Ludo Sarens CEO Sarens Group



Carl, Ludo and Benny Sarens

Heavy lifting project on the PTT site in Thailand



Customer: Samsung Korea Location: Thailand Equipment used: AK680/2. CC2400, KH1000

Our Sarens Asia organisation is proud to announce one of their first major orders from Samsung in Korea for the AK680/2. This crane has now been assigned to their region.

This challenging project lasted between January and February 2004 on the PTT site in Thailand. It involved our cranes lifting different vessels on the GSP5 Project Gas Separation Plant. We had to lift 4 heavy items in just one month on this particular assignment. This execution time included full disassembly and then re-assembly of the crane on site for each lift.



Heavy Lifting Work for the Kårstø Gas Plant in Norway



Customer: Aker Kvaerner, Aker Stord AS / Statoil Location: Kårstø Gas Plant, Norway Equipment Used: Demag CC8800, Liebherr LR1400/2, Faun ATF100, 250-ton Climbing System, SPMT's

We can report that Transrig, the Norwe-

tion were the 340-ton / 66m high CO₂ stripper gian subsidiary of the Sarens Group, was and the 440-ton aftercooler. This was a awarded the Heavy Lifting Contract for the particularly complex project as the space KEP2005 extension project at Kårstø Gas available for rigging the cranes was very Plant by its Main Contractor, Aker Kvaerner. limited. Our expert attention had to be given to the HSEW part of the works as many of the



The contract included internal transportayard (Aker Stord AS), as well as loading the Kårstø Gas Plant.

vessels and modules were litted within close tion and unloading at Aker Kvaerner's proximity of the operating process equipment.

in, transportation and lifting / installation at Our Demag CC8800 crawler crane (1250T class) was equipped with 500 tonnes of super-lift ballast.

The heaviest and highest lifts in the opera-



Recovery of a diesel engine on an island of the Azores



Customer: UTC-Bachmann Inc. Location: Ilha de São Miguel, Portugal Equipment used: SPMT's, Strand Jacks, Towers

Our Special Projects Department received an interesting order for the "recovery of a 300-T diesel engine" that had been dropped by others on an island of the Azores.

The order was placed by UTC-Bachmann Inc., an International Freight Forwarder and Logistics Services Provider. We were awarded this project as they considered our processes and planning to be the most effective and convincing, not only to UTC but also to the end client, Wärtsilä.

We are proud to announce that this project was successfully completed in March 2004 and executed within the agreed timescales. As a result, UTC expressed

their desire to work with the Sarens Group both more frequently and on a global basis.

> Steven Sarens Project Manager





Offshore erection of meteomast in Egmond aan Zee, The Netherlands



Hydro Soil Services to install a crawler crane (LR1400/2) on their Zeebouwer jack-up barge in order to erect the 104-meter high meteomast. This was 16 km offshore in the North Sea and was required as part of the reparation works project of the Near-Shore Wind Park .

During the first phase, the crane was pre-assembled mast sections of the 104assembled on the guay in IJmuiden in The meter-high meteomast. Netherlands and comprised a 63-meter main

Sarens NV Belgium was commissioned by boom and derrick. Then she sailes on the Jack up barge Zeebouwer fully secured to the lifting location . After installation of the foundation piles and transition pieces, the crane sailed back to the harbour, in turn extending the boom to 119 meters.

> In the second phase, the crane, now with an extended boom, successfully erected 3

This logistically complex project required considerable cooperation between the Sarens' and the contractors' engineers. Together, the two parties undertook detailed lifting studies and security-atsea calculations and pleasingly this resulted in safe and controlled actions, even in spite of the difficult weather conditions.

Labin Upgrading Project in Croatia



Customer: TL-Tome Lučić Location: Island of Ugljan - Zadar, Croatia Equipment used: LR1750

INA, the Croatian National Oil Company, decided to upgrade the oilrig "Labin" with a view to intensified oil explorations in the Adriatic Sea. This was arranged through their subsidiary, Crosco.

The oilrig was transported to the former shipyard of Nauta Lamjana on the island of Uglian, located just off the coast of the city of Zadar.

Our Liebherr LR1750 crawler lattice boom crane was brought to the site and was used to lift new major oil-rig components including cantilever and drilling tower.

The most critical aspect of this project involved lifting the three-leg extension construction parts into position on top of the existing legs. Each leg weighed 106 tons and was 15m in length. The lift was successfully achieved with a boom length of 140m and full superlift ballast





Replacing three heavy convertors in Duisburg, Germany

Customer: ThyssenKrupp Anlagenservice Oberhausen. Location: Duisburg, Germany Equipment used: SPMT's, Climbing Systems

In 2004, our Sarens Germany office We used a combination of 2 x 10-axle lines received an order from ThyssenKrupp Kamag and a four tower hydraulic climbing Anlagenservice Oberhausen to change system assembled on the Kamags. In three 300-T heavy convertors at their addition, one of Sarens' swing mecha-Duisburg operation.

This was another complex project and used. Each individual input took 10 days, involved a change over of the convertors running at 24 hours a day. We think this has during regular production in extremely to be some kind of a record! limited space conditions.

nisms specifically manufactured to turn the convertor 90° on the climbing system was



Sarens Tele plants a 140-year-old tree



Customer: Louis De Waele Location: Brussels, Belgium Fauipment used: ITM1250

One of our Sarens Tele's most intriguing projects was planting a 140-year-old tree coming from Florida. The construction works at the Assubel building in Brussels had entered the final stage and Sarens' expertise was called up on.

With the help of an LTM 1250 crane with 72m boom, Laroy, our Sarens tele Antwerp entity, first dismantled the tower crane in the central hall of the building. We were commissioned to do this work

as we are specialised in dismantling, moving and assembling tower cranes.

The most interesting phase was lowering the tree through the narrow opening in the roof.

At the point where the tower crane contractor's lifting supervisor. stood, the same mobile hydraulic crane installed the 12m high and 6000kg weighing tree package. Special attention had to be given to ensure that there was

not the slightest damage to either the tree nor the accompanying supports.

We confirm that this job has been completed successfully. This was due to the professional cooperation between both the crane operator and the



World War II Submarine relocation in Chicago, USA



Customer: Museum of Science and Technology Location: Chicago, USA Equipment used: SPMT's, Jacks, Sarskid

The Museum of Science and Technology in the city of Chicago selected Norsar LLC in the US, to move the World War II German Submarine U-505 which they have on display. This exercise required us to move the submarine from an outside viewing area to a new, underground exhibition hall.

Following a two-year search, Norsar was selected as the most technically competent company, capable of meeting the unique needs of the museum. The needs were unique because the client intended

to make the move when part of its current exhibits was open!

Norsar Project Manager, Ralph DiCaprio, used self-propelled dollies, climbing iacks, a slide system and super shoring. as well as a step-jack guided lift system to move this huge, 750-ton submarine from the old location in the museum to the new location. From there, he had to ensure that it slid out over the freshly dua pit of the new exhibition hall before being lowered and then moved a further eleven meters down into its final exhibition position.

Transporting historic ship structure in The Netherlands

Customer: Sea Cargo A.S. Location: Veluwe. The Netherlands Equipment used: LTM1300

"De Kil Amsterdam B.V.", one of our on to a low loader by a 300-ton hydraulic Dutch Sarens entities and the Norwegian Sea-Cargo AS completed a unique transport cycle. Built in 1912 and broken up in 1960, the passenger accomodation unit of the Norwegian SS "Finmarken", set off on the return journey to the Hurtigrute Museum in Stokmarknes.

It was the task of De Kil Amsterdam B.V. to transport the ship section from Veluwe to a port in Harderwijk.

After jacking up this colossus was installed

crane. Measuring a five meters wide and five meters high and weighing no less than 130 tons, it was transported through the Veluwe woods via the A1 to Harderwijk.

Upon arrival, the same 300-ton crane placed the section on a river-craft and from there, the passenger accommodation unit was further transported by water direction Norway! We are proud of this historical move!





New Desalination Unit in Arzew, Algeria



Customer: Itochu Corporation/IHI-JEL Japan Location : Arzew Desalination and Power Project - Algeria Equipment used: Demag CC 2000 SH , Sumitomo SCX 2500, Kobelco 7150, 35 – 80 T hydraulic cranes.

In 2004, Sarens NV won the heavy lifting but also quicker than initially anticipated. and installation contract for the new desaliseveral blocks of up to 120 tons. Initially was foreseen to use a tandem lift. Our engineering department has studied a single-lift solution.

Local crane servicing has and will continue nation unit in Arzew. We will be lifting to be carried out by Sarens Algeria, providing all hydraulic cranes from the local fleet.

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newsletter@sarens.com

This innovative solution meant that the heavy lifting will not only be more efficient

Revamping works at Atomium in Brussels



Customer: Jacques Delens-Besix Location: Brussels, Belgium Equipment used: AC700 SSL

monument, is being thoroughly renovated. waste container of 2.5 tonnes to a height Sarens.tele was chosen to facilitate the of 100 metres. There, the container was clearing out of the top sphere, which loaded with 4.5 tonnes of waste. This houses the kitchen and the restaurant. As scenario was repeated 4 times. Due to it was not possible to get the waste mate- the Atomium's specific shape, this was rial down by elevator, the highest hydrau- truly a spectacular masterpiece. lic crane of the country was brought into

The Atomium, Belgium's most famous action: our Terex-Demag AC700 lifted a



Erection works for the installation of wind turbines



Customer: Wind Turbine Contractors Location: Portugal Equipment used: LR1400/2, LTM1090 hydraulic cranes

The Sarens Group has recently signed a sites in Portugal, where we have installed brid and GE-Wind.

This picture was taken at one of our job

number of contracts for crane works over 30 turbines in recent months using and / or erection works for the installation our state of the art LR1400 crane. For of wind turbines in various European wind turbine installations, we specifically countries. Windturbine contractors use a long main boom with the Sw involved are Gamesa Eolica, Vestas, NEG configuration available upto 98 m. This Micon, Enercon, Repower, Bonus, Multi- crane currently remains assigned to the Southern European region.

Coming up soon : projects 2004

Multibrid: Prototype windturbine 5MW - Germany

Siemens: Mymensingh Combined Cycle - Bangladesh

Enercon: 5 MW Windturbines erection on-& offshore in Emden - Germany

Technip: DHC Unit Gonfreville - TotalFinaElf site - reactor lift of 1350 T - France

Hellenic Petroleum: FCC Revamp - Greece

Scanwind: installation of a wind turbine with tower lift concept - Norway

Pemosa: Transport & Lifting of a reactor - Mexico

Kugelberg: first windpark Gamesa Eolica in Germany

Lifting of a LCU offshore bridge section module in Lowestoft (UK)



Customer: AKD Engineering Ltd Location: Lowesoft (UK) Equipment used: AK680

Sarens UK undertook a project for AKD This was the first time that AKD Engineercomprised a 1200 T crane being rigged them from start to finish. with 53m main boom plus 250 T maxilift counterweight.

Engineering Ltd of Lowestoft, UK, which ing Ltd had used our Sarens UK entity involved lifting a bridge section module and they were delighted with the profesweighing 300 tonnes. The exercise sionalism and expertise we displayed to

The bridge module was picked up at a 14m radius with OT maxilift counterweight and the maxilift tray was then connected.

The crane boomed out until the maxilift counterweight came to float before slewing. The bridge module was then successfully lowered in to position.



Sarens Asia



The Sarens Asia management team. From left to right: Mr. Jungmu Suh, Antony Banfield, Eric Van Mulders

We had the unexpected opportunity



to expand Sarens involvement at our Asian headquarters located in Thailand. At the same time, the company name changed into Sarens Asia and additional investments in both machinery and personnel were made.

This change has put the Sarens Group in a considerably stronger position to meet the local demands generated from what is an ever expanding Asian market.

Our Sarens Asia management team (shown above) will be pleased to assist you in Dutch, French, English, Korean, Thai and German. They can be reached on tel +66 38 300 315, fax +66 38 300 314 and by e-mail at sarensasia@sarensasia.com

Colophon

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