

world of rope

published by CASAR

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WIRECO SUPPORTS THE WCTS

New CASAR Ropes for "Goliath"

Since 2001, the Danish Odense Steel Shipyard has operated the colossal "Goliath" portal crane. It replaced the shipyard crane blown over by gale-force winds in December 1999.

Now, after 16 years, it is time to replace the ropes in order to ensure continued operation. We are delighted that the German crane manufacturer Takraf Tenova (previously MAN Takraf) continues to have confidence in CASAR ropes and has placed an order with us for re-roping the crane. In November 2017, the new ropes were delivered on schedule at Takraf GmbH. The scope of delivery is nearly 14 km of CASAR Turboplast Ø36 mm, half in right hand and left hand ordinary lay respectively. Compared to the original roping from 2001, a higher nominal wire strength and, as a result, a higher minimum breaking force was selected. Otherwise, trust has been placed in the proven CASAR Turboplast Ø36 mm construction in the galvanised version. The specifications and dimensions of the entire crane system are impressive and it is easy to see why the crane

was christened "Goliath": A carrying capacity of 1000 t, a span width of 148 m and lifting height of 114 m speak volumes. The crane has 4 trolleys with 6 lifting gears and allows movement of entire ship sections on the spot to the millimetre. Additionally, multiple objects can also be lifted at the same time or objects that are freely suspended can be rotated. In doing so, each of the individual lifting gears can lift up 300 t. The unique method of operation of the crane with multi-layer spooled lifting gears, some of which work with spreaders, imposes high demands on the production tolerances of our ropes. Especially with multi-layer wound drums, even slight deviations with regard to the tolerance constancy of the ropes can lead to tilting of the spreader and gaps in the spooling. Of course, this must also be taken into consideration with single-layer spooling of ropes, but with multi-layer spooling, faults and minor deviations add up with each additional position and as a result, cause a greater negative impact.

**Andreas Schmeiss**

WireCo WorldGroup
VP Global Cranes

Dear readers of our newsletter,

welcome to the first edition of world of rope of the new year. We wish you all the best for 2018.

Many companies in the crane industry are looking ahead to the new year with confidence and optimism. The economic forecasts for 2018, together with growing activity in construction as well as rising production numbers in many other areas provide hope for a good year in which, together with you,

we can and will achieve a great deal. The CASAR rope specialists, as a competent partner, are at your service for your projects.

Yours sincerely,

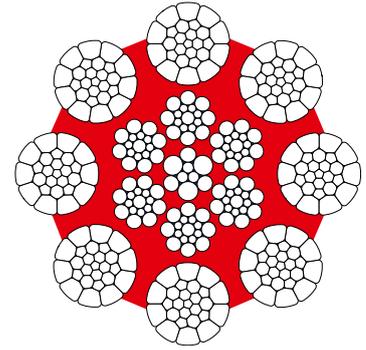
Andreas Schmeiss

SVP Global Cranes



The length of the ropes must also be precisely coordinated to prevent tilting. The supplied ropes have a Flemish eye with a solid thimble while the other end is seized. For those who are not familiar with the term "Flemish eye": In this context, it is a spliced rope loop, which is also secured with a steel ferrule. Such an end connection attains a high level of effectiveness and can withstand high temperatures up to 400°C.

The length of the rope is defined from the end of the rope to the centre of the thimble bore. Here the assembly of CASAR can show all its class and experience and bring qualities like dimensional tolerance and expertise to bear in terms of end connections. We wish Odense Steel Shipyard safe and accident-free operations with their "Goliath".



Oliveira HD 8 K PPI on the New Unparalleled Sarens Crane



T rue to its company motto "NOTHING TOO HEAVY, NOTHING TOO HIGH", the Belgian company Sarens presented the brand new Sarens SGC-140 (Sarens Giant Crane – 140) in mid-October. Of course, as the manufacturer of the special wire ropes used in the new crane we simply had to be there and our salesman in charge Peter van der Voorde attended the ceremonies. The SGC-140 is not only the group's largest crane but also one of the largest transportable cranes in the world –

a so-called ring crane, which rotates on a slewing ring with a 44 m diameter.

The other technical specifications are also extremely impressive. The SGC-140 has a lifting capacity of 3200 t and is capable of hoisting 2820 t up to 50 m away from the crane. The crane has 3 different boom configurations of 89 m, 118 m and 130 m and has 4 jib configurations: 40.5 m, 64.1 m, 87.7 m and 99.5 m. 40 containers filled with sand and weighing up to 4000 t

in total provide the counterweight. The assembly of this giant takes 6 weeks and it takes 150 lorries to transport the components. The core component of the new crane is the so-called machinery deck, which can hold four hoisting winches and the two luffing jib winches made by Zollern. There is also space for two additional spare winches. For a crane like this, no risk whatsoever has been taken in the selection of the individual components and a reliable partner has also been selected for the ropes. The 4

hoisting winches are each equipped with 1300 m Oliveira HD8K PPI Ø50 mm and this rope is also used for the jib adjustment – even with lengths of 2100 m each. In this case, the maximum tensile rope strength is 600 kN.

So although these are two very different rope applications – hoist ropes and boom hoisting ropes – the exact same rope type is used. Once again, this demonstrates the versatility of Oliveira HD 8 K PPI, a compacted, 8-strand rope construction with a polymer-coated steel core.

Incidentally, this giant is used for the installation of massive structures such as gas-fired power stations or in the petroleum industry. As soon as the tests in the port of Gent are successfully concluded, the crane will be used for a period of around 3 years in Kazakhstan. Once there, the crane will move modules with a weight of up to 2500 t in a radius of 50 m for a project on the Caspian Sea – an application that can showcase all the strengths of this crane.



Successful Trade Fair Presence at China Coal in Beijing

The biennial trade fair in Beijing is the leading event in China when it comes to coal mining. WireCo has already been active in China for many years and was recently able to significantly increase its rope deliveries for open-cast and underground mining. The

opportunity to meet sales and cooperation partners at the trade fair was particularly important in order to discuss current projects and to launch new activities. In a country as large as China, with contacts spread over such a large geographic area, a trade fair such as this is the perfect chance

to speak with customers, project partners, institutes and employees of the mining authority. Frank Gäb, Sales Director Mining, was very satisfied with the results and we will be back in 2019.



Intensive Training for our Sales Partners from South and Central America

From 13 to 16 November, a 16-member delegation from South and Central America visited our wire rope factory in Kirkel Limbach. The goal of the visit was to better integrate our distributors in this region into the sales process and to provide them with intensive training on rope and application technologies. The group was joined by WireCo employees from this region.

The group was very open and ready to learn, and refused to be put off by typical German November weather. They actively contributed during challenging seminar sessions and were also enthusiastic about the evening events, where the visitors and the CASAR team were able to get to know one another better. The varied programme was certainly entertaining and the trainers Dr. Oliver Fries, Günter Knerr, Alexander Fäh, Markus Klinck, Christian Schorr-Gol-

song and Pascal Ignor found themselves confronted by decidedly challenging questions and discussions. Naturally, it would have been impossible to leave out the

obligatory factory tour. All things considered, it was a completely successful event, enjoyed by everyone who participated.



From left to right: Fernando Lara, David Zavala, Carlos Oliva, Joaquín Barrios, Günter Knerr, Rodrigo Aguayo, Marcelo Silva, Pascal Ignor, Jose Guilherme, Liliana Barbosa, Jose de las Casas, Hector Garcia, Jimmy Barbosa, Guillermo Serra, Marcelo Gutierrez, Gosseling de Vries, Luis Levano and Gonzalo Anwandter

On a Training Tour of the Middle East

At the end of 2017, Markus Klinck, Global Business Development Manager for Harbours, and Pascal Ignor from Product Management went on a 12-day journey through the Middle East. The goal of the tour was to support and train our local distributors and to visit key customers together with our national WireCo colleagues.

The first destinations were the Egyptian port cities of Port Said and Alexandria, where special events were held for harbour customers over two days in each city. Around 40 participants attended our seminar each day. The group of participants included purchasers, technicians and managing directors from the local harbours. Raafat Hammad, District Manager for WireCo in North Africa, and our long-time

partner Mohammed Elkhamisy of the company Future Co. ensured that both days went smoothly.

From Egypt, the journey continued to Saudi Arabia. There too, key customers in Jeddah and Dammam received visits and training events were held for technicians. In Dammam, we received support from our distributor, Saudi Dutest. Naturally, here as well we jumped at the opportunity to call on our distributor and train their technical sales team.

After Dammam, they went on to the United Arab Emirates; to Dubai to be precise. Here, the main focus was again on visiting terminals as well as developing and building trust. The local WireCo colleagues, Danny Naoum and Mark-Pieter Fröhlich,

arranged these interesting meetings in advance so that the time could be put to optimal use. With our partner Carl Stahl, we have a strong, reliable partner in both Dubai and Abu Dhabi. At our location in Dubai, we also held a technical training event for the staff of both sites.





WireCo Supports Word Crane and Transport Summit Amsterdam

In November 2017, this biennial industry highlight organised by the journal "International Cranes" once again attracted more than 300 participants to Amsterdam in order to learn more about the latest trends and technical developments in the area of heavy transport and construction crane technology.

The majority of participants came from the field of crane rental and heavy transport, but all of the major manufacturers of mobile cranes, such as Liebherr, Terex Cranes, Manitowoc and Tadano, were also represented by important decision-makers. Aside from pre-

sentations and discussion forums there were also many opportunities for intensive conversations with the participants; opportunities which were thoroughly taken advantage of by the WireCo participants Peter van der Voorde (Sales Manager Benelux & France) and Christian Schorr-Golsong (Director of Product Marketing). Aside from questions about the type of steel rope used, the possible use of our synthetic hoist rope LankoLift S was also discussed in depth.

For more information visit:
<http://www.khl-wcts.com/>

NEXT ISSUE WILL BE PUBLISHED IN

APRIL 2018

PLANNED TOPICS:

- FIRST MINING ROPE DELIVERY TO CHINA
- NEW CASAR SALES OFFICE IN AUSTRALIA

RESPONSIBLE:

CHRISTIAN SCHORR-GOLSONG

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