

WIRECO SYNTHETICS LANKHORST EURONETE NEWS



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LANKHORST EURONETE BRASIL

Lankhorst Euronete Brasil supports FPSO Pioneiro de Libra mooring

Lankhorst Euronete Brasil (LEB) has supplied engineering services to OOGTK Libra GmbH & Co KG during mooring line installation of FPSO Pioneiro de Libra. The FPSO will be used for Long-Duration Tests in the Libra field, a large ultra-deepwater oil prospect located in the Santos Basin, 143 miles (230 km) off the coast of Rio de Janeiro, Brazil.

The FPSO Pioneiro de Libra is under contract for 12 years to conduct tests in several different locations in the Libra field. In this first location, the FPSO was moored at 2,040 m water

depth by means of an external cantilever turret comprising nine mooring lines, arranged in 3 groups of 3 mooring lines each (3 x 3 clusters). To ensure efficient mooring at subsequent test

locations, Lankhorst has provided two mooring line arrangements of Cabral 512 Deep Water Polyester Mooring Rope with a minimum breaking strength of 12,300 kN.

LEB's offshore engineering services ensure proper mooring rope handling and compliance with installation procedures. It includes attendance during mooring line assembly, installation cycling's and subsequent seabed pre-deployment or direct connection with FPSO during hook-up. LEB Project and Technical department employees, Alexandre Tomazi and Eric Duarte, acting also as OOGTK Representatives, attended the first mooring

onboard two different Anchor Handling Tug Supply (AHTS) vessels over a number of days.

"We are immensely proud to be part of this project. The FPSO Pioneiro de Libra is an important element in the development of one of the most promising fields of the Brazilian pre-salt. By providing a good service to our clients from the beginning of the project to the installation, we strengthen our technical capacity and market leading position in ultra-deepwater mooring," says Alexandre Tomazi, Lankhorst Euronete Brasil Technical and Project Manager. For more information on Lankhorst Euronete Brasil, visit www.lankhorstropes.com.



Polyester deep water mooring rope 'Cabral 512' onboard of the Anchor Handling Tug Supply (AHTS) vessel



WireCo[®]
WorldGroup

LANKHORST ROPES



Inland Shipping Distributors visit Lankhorst Ropes

Leading inland shipping distributors from the Netherlands recently visited the Lankhorst Ropes facilities in Portugal. Covering everything from yarn production to manufacture of large diameter, deepwater mooring ropes for the Gulf of Mexico, everyone agreed that the tour was a great success.

Lankhorst Ropes is a technology leader in maritime, shipping and offshore ropes. *"The tour was a good opportunity to show our inland shipping distributors the scale and capability of our fibre and steel wire manufacturing and development resources within Lankhorst and the wider WireCo WorldGroup. All distributors were very pleased to have been invited and were impressed with everything they saw,"* notes Rudolf Jongma, Area

Sales Manager, Lankhorst Ropes.

The distributors visited a number of Lankhorst production and research facilities including Lankhorst Yarns in Maia, Portugal, to observe the production of high performance yarns and the manufacture of fishing nets and maritime ropes. Everyone was fascinated by the ease and speed of production of jacketed rope. At Viana de Castelo, the full



Inland Shipping distributors pose next to a 6m diameter, 140 tonne, reel of deepwater mooring lines ready to be shipped to the Gulf of Mexico

scope of Lankhorst's fibre rope engineering know-how was demonstrated in the production and splicing of large diameter, deepwater mooring lines used to moor floating oil and gas platforms in water depths up to 2,200m. In addition to Lankhorst Ropes, the distributors also visited the steel wire rope factory of Oliveira, part of WireCo WorldGroup, and one of the oldest rope manufacturers in Portugal.

"As the demands on inland shipping companies grow in terms of rope performance and service life, we are able to show our distributors that Lankhorst is leading the way in terms of manufacturing resource, rope performance and commitment to drive down the cost-of-ownership," says Hans-Pieter Baaij, Commercial Director, Lankhorst Ropes.

Safe use of high performance fibre ropes in crane applications

The European Materials Handling Federation (FEM) has published the world's first guideline describing the Safe Use of High Performance Fibre Ropes in (Mobile) Cranes (PG CLE MC Fiber Ropes_FEM 5.024 Publication). *"The guidelines mark a significant advance in the use of ropes made from synthetic fibres in land based crane applications, and will form the basis future European (EN) and/or International Safety Standards (e.g. ISO)"*, reports Rui Pedro Faria, Senior Engineer, Lankhorst Euronete Portugal.



Lanko®Lift S, a synthetic hoisting rope and a highly efficient and lighter alternative to the standard steel wire rope

Unlike steel wire which has been used on cranes for many decades, and is covered by international standards (e.g. ISO 4309), there is no standard regarding design and discard criteria for the use of high performance fibre ropes on mobile cranes. Therefore, the Technical Committee of FEM Mobile Cranes has developed a FEM guideline about the use of high performance fibre ropes as ropes (running and stationary) on mobile cranes.

The FEM guideline was developed as a joint project of FEM and members of the fibre

rope industry: Lankhorst Ropes, CASAR, Teufelberger, Samson Rope and DSM Dyneema involving the IFT of the University of Stuttgart. Experts from FEM product groups for Tower and Harbour Cranes as well as Lifting and Hoisting Equipment (i.e. Serial Hoists) participated to the discussions. Following a recent ISO meeting, FEM has recommended that the guidelines be incorporated into future European (EN) and/or International Safety Standards (e.g. ISO). As a result, the scope of the guidelines has been expanded to include all cranes.

The objective of this guideline is to provide guidance for the design and safe use of high performance fibre ropes on cranes, especially for running rope on multilayer drums for hoisting purposes. To meet this market, Lankhorst Ropes has developed the Lanko®Lift S, a synthetic hoisting rope, and a highly efficient and lighter alternative to the standard steel wire rope.

"The work developed within FEM sets the basis for any rope manufacturer to be able to provide a safe and reliable product for this mission critical application," says Rui Pedro Faria.

"The FEM guideline reflects Lankhorst's vision and commitment to providing new products for the market, which have been properly developed, tested and validated according to industry benchmarks, and going even further when standards do not exist, by aiding in their creation." In accordance with the FEM guidelines, Lanko®Lift S is in the process of being qualified to fulfil the requirements of the intended application.

The FEM guideline does not deal with so called 'hybrid ropes' which are a combination of steel wire and high-performance fibres, where the load bearing capability is shared between steel wires and the high-performance fibre.

LANKHORST EURONETE PORTUGAL



Successful ICEFISH 2017

From September 13th to 15th, the three-yearly ICEFISH exhibition took place in Reykjavik, Iceland. WireCo was present in two booths; Oliveira® promoted its wire and fiber ropes in one booth, while Euronete® presented its line of netting and twines together with Tor-Net, its Icelandic distributor and important and well-known pelagic trawl manufacturer, in another booth.



Kenneth Jacobsen from Vónin and Miguel Sá from Oliveira

The show was well attended by the Icelandic fishing industry and our team had many interesting talks with net makers, captains and trawl masters. Iceland, albeit a relatively small and isolated country, is a dominant player in the global fishing industry and depends for about 35% of its GDP on fishing. The waters surrounding the island stock vast amounts of different species, including cod, mackerel, langoustines and halibut. Despite all of this, Icelandic fishing companies and crew members are found fishing across the globe, from Greenland to Namibia. When one visits the Las Palmas (Canary Islands, off the West African Coast) fishing industry, the chance is 100% you will speak to several Icelandic nationals calling the shots in various fishing vessels they operate out of there.

With healthy fish stocks, low fuel prices and favorable fish prices, fishermen make a fairly good living these days, after a number of years of difficulties. This translates back into a high level of investment in new vessels, many of which are to be found in Iceland.

At present, over 30 fishing vessels (both large and small) are under construction or planned at shipyards across Europe and our team has made some good new contacts to become the supplier of choice for these ships in the years to come.



Victor Strange from Tor Net and Bondie Sciarone from Euronete



Jeroen Dorenbusch and Bondie Sciarone from Euronete (in the middle and on the right)

LANKHORST YARNS



Lankhorst Yarns have launched their new website

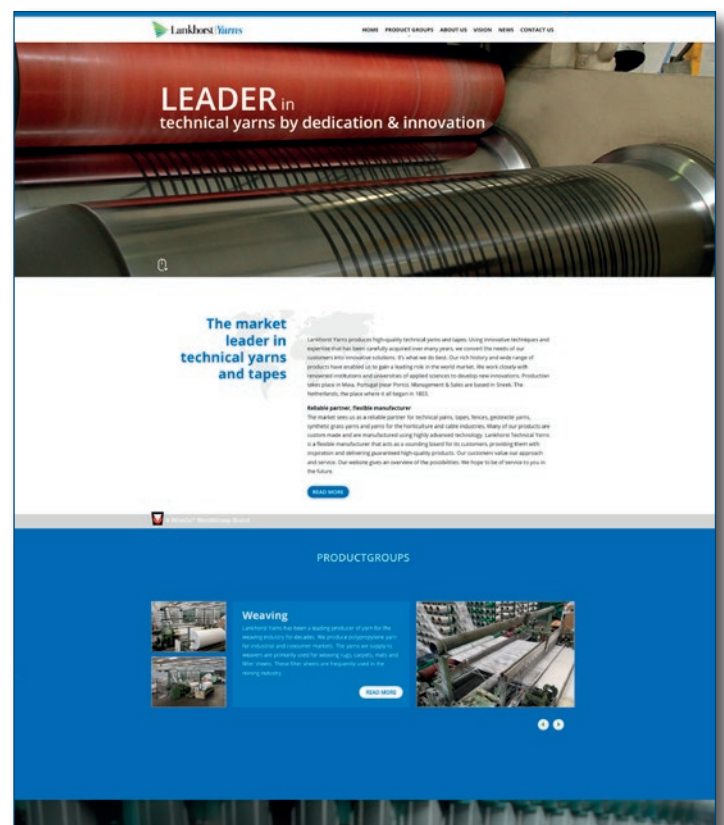
Just before the summer holidays, Lankhorst Yarns launched their completely renewed website. The previous website no longer reflected the actual situation as to what the company is currently doing and what it stands for.

Besides that the old website couldn't be found on mobile devices which of course limits search and browsing options on the internet. The average visitor does not continue scrolling for a long time, and must therefore be triggered to stay on the site, become curious and look further. We have chosen to particularly show our products in the area

which they are used in without focusing too much on the product's technology.

A website is in fact a never ending process illustrating the actual situation – we will therefore continue optimizing it.

For more information please visit: www.lankhorstyarns.com



LANKHORST ENGINEERED PRODUCTS



EBA approves KLP® Hybrid Polymer Bridge Sleepers of Lankhorst

September 2017 - Following the certification of KLP® Hybrid Polymer Sleepers for application in main track, turnouts and crossings, the German Federal Railway Authority (Eisenbahn-Bundesamt, EBA) now has also approved the certification of the KLP® Hybrid Polymer Bridge Sleeper HS Type 204 and KLP® Hybrid Polymer Machinable Bridge Sleeper Type 401.

The sustainable KLP® Hybrid Polymer Bridge Sleepers offer good damping properties as well as optimum stiffness and they will keep these properties during their long expected lifespan of over 50 years. The polymer bridge sleepers furthermore contribute to substantial reduction of vibration and sound. The KLP® Hybrid Polymer Bridge Sleeper HS Type 204 and the KLP® Hybrid Polymer Machinable Bridge Sleeper HS 401 are both ideal for girder based bridges

in an offset situation. Type 204 allows for height differences to be compensated with packings. When using Type 401, height differences can be compensated by milling in advance or at the location.

The KLP® Hybrid Polymer Bridge Sleepers are manufactured from a high quality, ductile, reinforced plastic with reinforced steel bars encased, which provides both high strength properties as well as excellent damping characteristics. The expected lifespan of the polymer bridge sleepers is more than 50 years, thus representing a good investment with low Life Cycle Costs.

Due to the selected types of polymer, vibrations are absorbed and therefore noise is reduced. 3-5 dB noise reduction has been measured by Movares after timber sleepers were replaced by KLP® Hybrid Polymer Bridge Sleepers on a steel girder based bridge. Lankhorst has supplied hybrid polymer sleepers to several projects in the Netherlands, France, Austria, Germany, Switzerland, Malaysia and Sweden.



KLP® Hybrid Polymer Bridge Sleepers of Lankhorst

EXHIBITIONS 2017

LANKHORST ROPES

- 13 – 16 November ADIPEC, Abu Dhabi (UAE)
- 29 Nov. – 1 Dec. International Workboat Show, New Orleans (USA)

LANKHORST ENGINEERED PRODUCTS

- 6 – 9 November Metalform/Fabtech, Chicago (USA)
- 7 – 10 November BlechExpo, Stuttgart (Germany)
- 9 November Water in de Openbare Ruimte, Houten (NL)
- 13 – 16 November ADIPEC, Abu Dhabi (UAE)
- 21 – 23 November AusRail, Brisbane (Australia)



FROM THE EDITORS

The next edition of Lankhorst Euronete News will be published in February 2018.

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