

LANKHORST ENGINEERED PRODUCTS



Lankhorst and W&H Sports reduce amount of artificial grass waste

With the initiative GreenMatter W&H Sports and Lankhorst have joined hands to tackle the amount of waste from artificial grass fields. Every fiber of a worn-out artificial grass field is recycled and can be used again at or around a sports facility. For instance for side boards, picnic sets or deck boards. The cities of Utrecht and Amsterdam have already shown their interest in this 100% circular solution.



The recycled material comes from Re-Match, specialist in artificial grass recycling. In order to assure customers that all of the artificial grass agglomerate

used for GreenMatter products is 100% made from recycled artificial grass, and that no waste production is used, Re-Match issues a warranty statement. William van Diemen, W&H Sports: "Since 2015 we have been developing products from recycled artificial grass and as we speak now, the first products are being delivered. We are proud to be able to offer an



entirely circular concept with our partners, thus challenging the market to think green."

Stefan Hofman, Lankhorst **Engineered Products:** "Sustainability is in the genes of our company; we have been working with recycled plastics for a long time. Since many years we have been offering innovative products that fit with a green environment, such as shore protection, jetties, bridges, sheet pilings, platforms, street furniture, and a large range of products for industrial purposes - all of which can be recycled again after a long life. Lankhorst also offers in-house



space to social shelter Empatec that offers jobs to people who normally cannot easily get a job in the regular labour market. They do the post-processing and assembly of many products. For us as a plastics pioneer our cooperation with W&H Sports was a logical step. Besides raw material sources like bottle caps, crates and agricultural plastic, we are now together discovering possibilities for processing artificial grass."

LANKHORST EURONETE BRASIL



LEB Onboard with Tow Line Training

The specification and proper handling of synthetic ropes is important in maximizing the efficiency of tug towing operations. Training is vital, which is why Lankhorst Euronete Brasil (LEB), as the Brazilian market leader for towing ropes, is pro-active in periodically conducting crew training on "synthetic devices for towing - configurations and care". The training is carried out onboard the tugs for crew that daily handle the ropes.

Alexandre Tomazi, Lankhorst Euronete Brasil Technical and Project Manager: "We develop the rope set specifically for each tug, considering bollard pull capacity, harbour conditions, rules, guides and the best market practices. Our main objective

in the training is to explain the design of the tow lines, key working practices for safety, rope handling, care and maintenance. In this way we have been able to deliver to our customers the optimum training need for rope safety and maximum rope W W W . L A N K H O R S T Y A R N S . C O M

service life." Between January and December 2018, Alexandre Tomazi and his colleagues provided training to the crew of 19 tugs in different harbours and plans to increase this number to help other tug operators using LEB ropes in maximizing the performance and efficiency of their towing operations.



Onboard crew training especially for crew that daily handle the ropes



LANKHORST EURONETE PORTUGAL



Eurocross® Knotless netting worldwide, a great success

Customers all around the world react very positively about Eurocross® Knotless netting

Eurocross[®] Knotless netting is a special netting produced from HTPE (High Tenacity PolyEthylene), composed of high strength 4-strands – each one passing through the other, generating a braided effect. This production method offers several advantages: weight and bulk reduction, less water resistance and reduced drag, consistent mesh size, no damage to the fish.

The extremely positive feedback from customers all over the world regarding our Eurocross[®] Knotless netting not only makes us very proud, but it also proves that we have accomplished our mission to develop a product that offers fantastic advantages to the fishing industry.

Some comments from Stig Arnesson, NC315 Victoria Denmark, regarding the performance of our products and, in particular, our Eurocross® knotless netting: "The "stone trawl" with rock hopper gear is made with Lanko®force, Premium and PE netting, and this fantastic Eurocross® for the cod end! The picture is from last summer catching saithe. This haul was around 15 tons saithe/



Thank you Stig Arnesson, NC315 Victoria, for sharing the experience with us! Eurocross® knotless netting. Picture from Stig Arnesson, NC315 Victoria

LANKHORST OFFSHORE



LankoDeep - successful test at MacGregor FibreTrac Demo Day

Ahead of the introduction of MacGregor's first fibre-rope offshore crane, known as FibreTrac, to the market, the crane was put through its paces at a recent Fibre Trac demo day in Norway. Sérgio Leite, Commercial Director, Lankhorst Offshore, was on hand to present the LankoDeep rope technology underpinning the development of the offshore crane. The crane was successfully tested with a 88mm diameter LankoDeep rope and witnessed by several customers.

MacGregor launched its fibrerope crane range in 2016, developed through a cooperation agreement combining MacGregor's proven offshore crane technology, fibre-rope tensioning technology perfected by UK company, Parkburn Precision Handling Systems and Lankhorst Offshore's LankoDeep fibre rope. The FibreTrac crane has a MacGregor storage winch, capable of accommodating 4,000m of 88mm rope. It is designed and being built to DNV GL regulations. It has a 150-tonne safe working load (SWL) capacity and features an advanced rope monitoring and management system to maximise rope lifespan and provide clear lift line status information for the operator at all times. LankoDeep fibre rope weighs virtually nothing in water, in contrast to wire rope, where the ever-increasing weight of wire paid out limits the load permissible in relation to depth. Effectively, a fibre-rope crane with a 150-tonne SWL capacity is able to replace a 250-tonne SWL capacity wire-rope crane when lifting loads at depths of 3,000m and it can continue to lift loads at even greater depths.

Sérgio Leite: "Using LankoDeep fibre-rope technology enables the Fibre Trac crane to take advantage of its full lifting capacity at practically any depth. Furthermore, it gives companies a significant competitive edge when they are able to use a smaller crane and vessel for a wider range of lifting projects."



LankoDeep, succesfully tested at MacGregor's first fibre-rope offshore crane "FibreTrac"

LANKHORST ROPES



How does your business prepare for MEG4?

Leading maritime ropes supplier, Lankhorst Ropes, announces its new Mooring Rope Manual, reflecting the recommendations of the new OCIMF (Oil Companies International Marine Forum) Mooring Equipment Guidelines (MEG4). The Manual provides vessel operators in general, and wet cargo ship operators in particular, with an in-depth review of fibre mooring ropes and assistance with the Mooring System Management Plan and Line Management Plan introduced in the MEG4 guidelines.

ARE YOU READY FOR MEG4?

The OCIMF's MEG4 marks a significant change in mooring equipment guidelines with the focus more than ever on the safety of the vessel's crew and terminal staff. The Lankhorst Ropes' Mooring Rope Manual provides wet cargo operators with a comprehensive resource for effective mooring rope management. In addition to assisting in rope selection and maximising rope service life, the Manual covers the key mooring line recommendations in the MEG4 Guidelines.

"MEG4 is a step-change in mooring equipment guidelines for the safe mooring of tankers and gas carriers at terminals. Our Mooring Manual is designed to help operators to make sense of the MEG4 guidelines and successfully implement them with minimum disruption to their businesses," says Wilco Stroet, managing director, Lankhorst Ropes.

Maximising Rope Service Life

The Lankhorst Ropes approach is both comprehensive and practical. An in-depth introduction to mooring ropes – their construction, characteristics and certification, is followed by tips on rope selection to suit the vessel and mooring conditions. Understanding the factors affecting how mooring ropes perform in service such as the importance of handling and their application is vital to crew safety and rope service life.

One of the key strengths of fibre mooring ropes is their ease of maintenance - the Lankhorst Mooring Rope Manual provides detailed information on how to inspect, and where necessary repair, mooring lines. Inevitably all ropes need to be retired at some point, normally based on mooring hours. Lankhorst Ropes provides a continuous residual strength testing program to assist in determining the best moment to change the rope end-to-end or replace it, in order to ensure the best economical service life and to optimise safety on board.

OCIMF MEG4

For the development and implementation of the ship's Line Management Plan (LMP), the Lankhorst Mooring Rope Manual reviews the OCIMF's recommendations for mooring line management and tail maintenance, inspection and retirement during the operational phase of the mooring line lifecycle. Paaring in mind the Line

Bearing in mind the Line Management Plan is specific to an operator, ship type and trade route.

THE VITAL CONNECTION

The Mooring System Management Plan (MSMP) helps ship owners and operators to keep consistent information about a ship's mooring equipment. It is used to effectively manage all assessed risks through the design and operation of the mooring system. The MSMP along with the required Mooring System Management Plan Register (MSMPR) will accompany the vessel throughout its operational life.

As an aid to assessing the completeness of the LMP and MSMP, the Lankhorst Manual takes a FAQ approach to the OCIMF Ship Inspection Report (SIRE) Vessel Inspection Questionnaire (VIQ7). In addition to addressing the most common MEG4 questions raised by operators, the FAQ is followed by examples of Mooring Line Acquisition forms, and examples of a Rope Inspection Report, Line Management and Mooring System Management Plans.

For more information on Lankhorst Ropes and a copy of the Lankhorst Ropes Mooring Rope Manual, visit www.lankhorstropes.com/ information/meg4



Lankhorst Ropes

LANKHORST ROPES



Lankhorst Ropes Set to Develop North American Maritime and Heavy Lifting Market

Lankhorst Ropes is focussing on developing the North American market for maritime and offshore ropes and heavy lift projects with the appointment of Mark Pieter Frölich as Commercial Director, North America, based in Philadelphia, PA. The North American market offers substantial opportunities for sales growth, building on Lankhorst Ropes' excellent track record for delivering fleet wide, fibre rope solutions with major global shipping operators.

Previously regional manager for Lankhorst Ropes in the Middle East, Mark Pieter Frölich spent the past seven years successfully founding and growing the WireCo WorldGroup office in Dubai. Mr Frölich is a mechanical engineer by profession with over 12 years' of maritime rope experience with European and Middle Eastern shipping and oil and gas markets.

In the United States and Canada, Mark Pieter will be responsible for establishing the local commercial and technical support office for Lankhorst Ropes' customers.

Lankhorst Ropes is working in parallel with Phillystran, a leader in custom engineered fiber ropes. Both brands fall under the newly formed entity: WireCo Synthetics LLC. Phillystran has its primary focus on supporting the Coast Guard, the Navy, the mining industry and various other niches, where Lankhorst Ropes focuses on the maritime (shipping) and heavy lifting markets. Phillystran was established in 1972 and has always been groundbreaking with the latest rope technology.

Our strategic partner supporting various markets in the USA is Precision Tension Solutions (PTS) based in Houston. PTS manufactures high performance synthetic ropes with complementary rigging components to clients in the industrial, mining, utility, oil and gas, and marine industries.

Mark Pieter Frölich: "Lankhorst Ropes is a global company where our leadership and experience in many maritime and offshore markets, and heavy lift, translates directly into new opportunities in the North American market. Over the coming months, we are reaching out to the domestic maritime community to introduce Lankhorst Ropes and the benefits we can bring to their businesses."



LANKHORST ROPES

2 – 5 April	Expo Shipping Istanbul (Turkey)
8 – 11 April	Seatrade Cruise Global, Miami (USA)
7 – 9 May	Maritime Industry, Gorinchem
	(The Netherlands)

LANKHORST OFFSHORE

6 – 9 May OTC, Houston (USA)

LANKHORST ENGINEERED PRODUCTS

10 – 12 April	Rail Solutions Asia, Kuala Lumpur (Malaysia)
6 – 9 May	OTC, Houston (USA)
17 – 18 May	EU Light Rail, Brussels (Belgium)
9 – 14 June	OMAE, Glasgow (Great Britain)
18 – 20 June	OGA 2019, Kuala Lumpur (Malaysia)
25 – 29 June	METEC, Düsseldorf (Germany)

LANKHORST EURONETE PORTUGAL

20 – 23 May IATTC Congr	ress, San Diego (USA)
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LANKHORST YARNS

14 – 17 May	Techtextil, Frankfurt (Germany)
11 – 13 June	Greentech, Amsterdam (The Netherlands)





Mark Pieter Frölich, responsible for local commercial and technical support office for Lankhorst Ropes' customers in USA and Canada

FROM THE EDITORS

The next edition of Lankhorst Euronete News will be published in July 2019.

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