

## The Royal Lankhorst Euronete Group starts a new factory in Brazil

On August 19, 2010 the Royal Lankhorst Euronete Group announced the acquisition of a new industrial unit in Rio de Janeiro – Brazil.

This new industrial unit will be used for production of deep water mooring ropes for the oil & gas platforms, production of maritime ropes for the local market and - at a later stage - also for production of buoyancy materials for the oil & gas industry.

José Luis Gramaxo – President/CEO of the Royal Lankhorst Euronete Group: *“It is a new development within our Group to produce there where the market need is. The Royal Lankhorst Euronete Group has*

*been following the developments of the Brazilian economy in the last few years and we are therefore delighted with this new investment in a production facility in Brazil. We expect the factory to start operating by January 2011.*

*This development is also in line with the recent investment that was made in Goa – India for the production of twines and ropes for the local fishing market.”* The Dutch/Portuguese Royal Lankhorst Euronete group employs approximately 1100 people. The company has six



View of the new production site of the Royal Lankhorst Euronete Group in Rio de Janeiro-Brazil

worldwide operating divisions – Maritime & Offshore Ropes Division, Fishing Division, Engineered Products Division, Yachting Division, Pure Composites Division and Yarn Division – and several subsidiaries and agents around the world.

The new production facility in Brazil covers around 5,000 m<sup>2</sup> and is located in the Industrial area of Queimados in Rio de Janeiro in a property of 18,000 m<sup>2</sup> with easy access to the ports of Rio de Janeiro and Sepetiba.

## FISHING DIVISION

### Lankhorst Euronete Ropes fishing wire rope production moving ahead

Annual sales volume of steel wire rope in the Fishing Division amounts to more than 4,500 tons. This tonnage was always sourced outside the group, mostly from European manufacturers. In 2007 it was decided to start up wire rope production at the Lankhorst Euronete Ropes factory in Póvoa de Varzim, Portugal.

The goal of this move was to have better control over the quality that we offer to our customers. At the same time the

Fishing Division, with its own factory, can respond with higher flexibility to the fast changing market demands.

Machinery was bought from Scanrope Norway, which discontinued fishing wire production in 2006. Lankhorst Euronete Ropes started production in 2008



(compacted - flattened outer wires) construction. Production lengths vary from a few hundred up to 4,000 meters, all upon customer requirement. A fair stock of single wires is held in Póvoa de Varzim

which today reaches 2,100 tons on annual basis. Maximum production capacity with the present machinery is around 4,000 tons.

Using the highest quality single wires from Bekaert, Lankhorst Euronete Ropes' present focus is on the top range of fishing ropes, in diameter range 24 mm to 44 mm. Most used constructions in fishing are 6x26 WS and 6x19Seale, both in Eurowire (round wire) and in Europact

to enable quick response to market demand.

Besides this high range of products, smaller diameter wires (below 24 mm) and other constructions can be produced upon request. For example, a product in regular demand worldwide is combination wire, made of steel wire cores with synthetic cover. In-house produced polysteel (PE/PP) fibres are used to cover the steel wire strands. Combination wire is

used in various applications to build a fishing net, and also for ground cable applications. Lankhorst Euronete Ropes produce this product in 4 and 6 strand and in a range of 12 up to 60 mm. Since 2008 wire rope sales have been made through Euronete in Maia, Portugal as well as through the worldwide branches of the Fishing Division. At Ymuiden Stores Holland, we have the Fishing Division's central stock with permanently more than 1,500 tons of fishing wire ropes. Focus is on the European market, where big market potential

is found in countries like Holland, Norway, Scotland and Russia. In addition, successful sales have so far been made in China, Far East Russia, South-Africa, North and South America and Australia. The Fishing Division is satisfied with present developments. We received positive feedback and repeat orders from various markets. The photo shows the Norwegian deep sea shrimp and whitefish trawler 'Arctic Swan'. This vessel uses a four wire system. Each rope is 2,100 meters long and weighs more than 11 tons. The construction used is Europact



Arctic Swan

(compacted) 6x26 steel core construction with a 34 mm diameter. Lankhorst Euronete Ropes wire ropes were taken on board of this vessel in June 2009 and are reported to fish very

well. Meanwhile, an extensive reference list of well over one hundred fishing vessels using Lankhorst Euronete Ropes wire ropes can be presented.

## PURE COMPOSITES DIVISION

### Simulation possibilities PURE® moulding processes

PURE® material - recyclable, light in weight, impact resistant and price competitive - can create interesting application solutions for defence, automotive, sports and luggage markets.

Products can be based on compacted flat sheets or panels made by relatively simple compaction processes. The PURE® technology further offers an extra feature with regard to mouldability. Customers can use PURE® fabric in moulding processes and combine the mentioned interesting performance characteristics into 3D-moulded parts. In the past years several compa-

nies already proved this concept by designing and making such products from PURE®.

PURE® however, behaves differently from many other thermoplastic materials. Therefore in the past year time and effort were invested in order to better predict the behaviour of PURE® in moulding processes (simulation capabilities). This was done together with Aniform, a spin-



Pressed PURE® demo moulded part

off company from the Technical University Twente in the Netherlands ([www.aniform.com](http://www.aniform.com)).

These simulation possibilities can bring benefit for existing and new customers. Design optimizations can already be done during the initial phase of a new product and after the design phase proper mould designs can be calculated. All of this helps to avoid expensive and time consu-

ming modification steps on moulds at a later stage. Aniform can do the simulation work; the software they developed is expected to be commercially available by the end of this year.

- For those who are interested in the defence area: Lankhorst Pure Composites will be exhibiting at the NIDV exhibition on the 18th of November in Rotterdam, the Netherlands.

## EXHIBITIONS 2010



### Maritime & Offshore Rope Division

7 – 10 September	Shipbuilding, Machinery & Marine Technology (SMM)	Hamburg/DE
30 November - 2 December	Deep Offshore Technology (DOT)	Amsterdam/NL

### Fishing Division

7 – 9 October	Maritime and North Sea Fish Expo	Urk/NL
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### Engineered Products Division

29 – 30 September	Kunststoffenbeurs	Veldhoven/NL
26 – 30 October	EuroBlech	Hannover/DE
16 – 18 November	Infra Relatiedagen	Gorinchem/NL

### Yarn Division

12 – 15 October	Hortifair	Amsterdam/NL
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### Pure Composites Division

18 November	Exhibition for Defence, security and the business community (NIDV)	Rotterdam/NL
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### Yachting Division

31 August – 5 September	HISWA Amsterdam in-water Boat Show	IJmuiden/NL
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## YACHTING DIVISION



### Lankhorst Taselaar at the 'Amsterdam in-water Boat Show

The 'Hiswa te Water' show - also known as the 'Wet Hiswa' - will be held again from 31st August through 5th September in Marina Seaport IJmuiden, the Netherlands.



Hiswa te Water

solutions and MMC engine control systems.

Lankhorst Taselaar aim to strengthen their leading position in the marine industry. At the 'Hiswa te Water' they will especially present their broad range of high quality technical products to both consumers and the many yards present at this show.

The 'Hiswa te Water' in IJmuiden is unique in showing numerous boat brands from around the world in the water. Visitors can expect over 400 new sailing yachts, motor yachts, catamarans, sloops, sport boats, console boats and RIB's (Rigid inflatable boats). Many suppliers will be presenting various nautical products, accessories and services on the quay as well.

Being THE wholesaler in the marine industry, Lankhorst Taselaar will be present at the show with a booth on quay "A" showing and demonstrating a number of innovative technical solutions. Focus will be on Lewmar thrusters, the revolutionary Facnor Flatdeck furling system, Lewmar anchor winches, Jabsco sanitary

In the next few years Lankhorst Taselaar will transform from a normal standard wholesaler to a real business partner for their customers. The product portfolio will be enhanced with a wide range of technically advanced products offering optimal solutions for shops, yards and maintenance & service companies.

Furthermore, a new consumer brochure, a new shop-in-shop concept, a new retailer catalogue and a completely new website are planned.

## ENGINEERED PRODUCTS DIVISION



### PU and Buoyancy activities in Sneek

Since many years Lankhorst Mouldings have been active in the offshore industry. Being very successful with our Riser Protection system Risertect, our VIV system Triviv Suppression System and many other products, we recently added polyurethane production and also (distributed) buoyancy activities to our production capabilities.

This new production facility is on steam now and the first PU projects have already been delivered. We started with a big 'Piggy Back Block' project with products weighing up to 47 kgs each, followed by a steel reinforced T-beam and U-beam project. Here we even had to handle weights up to 300 kgs, which was done successfully and without major hiccups. In the meantime many other Uranguard projects for cable and flow line protection have come into progress.

We recently started with our first buoyancy projects for which also a complete new production line - using the newest syntactic foam technologies - has been installed in our Sneek facilities. This line is operated by an experienced production team. Standard Buoyancy and Buoyancy Systems with flexible riser clamps, based on custom-design buoyancy for rigid and flexible



Buoyancy products

pipelines will be part of our total program.

By expanding our production possibilities, our offshore sales team - supported by an experienced R&D team - is more and more heading to become a complete supplier for our customers in the offshore oil & gas industry.

## MARITIME & OFFSHORE ROPE DIVISION



### Meet the new rope families

Lankhorst Ropes have announced three new rope families: Tipto, Euro and Lanko - designed to make rope selection easier for ship operators, design engineers and ship crews.

Over the years Lankhorst Ropes have developed nine types of high performance synthetic ropes and three kinds of abrasion-reducing, protective sleeves

for mooring and towing vessels applications. Each rope is now being allocated to a specific family based on each rope's unique combination of perfor-

mance characteristics such as high strength, durability, stretch and light weight.

The mottos for the Lankhorst rope families reflect the strengths of each family:

TIPTO – 'Strong and durable'  
EURO – 'Strong and stretch'  
LANKO – 'Strong and light'

The rope families will enable customers, many of whom use several Lankhorst ropes for different types of vessel, to select the most suitable rope for their

specific applications, resulting in a reliable and more cost-effective installation.

Lankhorst Ropes constantly develop new yarns to improve the performance of their range of maritime ropes, ensuring to meet the changing needs of today's maritime operators and crews. As soon as new products are developed and extensively tested, they are allocated to those rope families that best reflect the performance characteristics of each rope.

# Royal Lankhorst Euronete Group and DSM Dyneema - going from strength to strength



Royal Lankhorst Euronete Group and DSM Dyneema, a business group of Royal DSM N.V. have established a strong strategic partnership that has led to a number of important technical innovations in the development of maritime and fishing ropes made with Dyneema® fibres.

Being a light weight, high performance polyethylene fibre, Dyneema® is the strongest yarn in the world on a strength / weight ratio. Dyneema® yarn is used in the Lankoforce® range of ropes. The strength of Lankoforce® is comparable to that of conventional steel wire rope, yet the corresponding weight is 7 times lower! Indeed the rope's ability

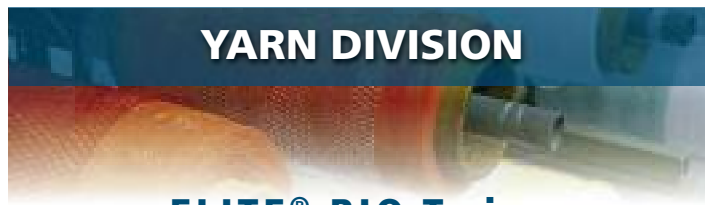
to float and its light weight give it important manual handling advantages over heavy and cumbersome steel wire ropes. With the maritime industry moving to lighter, easier to handle ropes, Lankoforce® with Dyneema® offers unique possibilities whenever frequent manual handling is involved. As rope requirements reach extreme brea-

king strengths or very long ropes are needed and storage capacity could be a problem, Lankoforce® provides the optimum rope solution.

Lankoforce® can be used to replace traditional fibre ropes in mooring, towing and lifting applications. The smaller Lankoforce® rope diameter allows substantial savings in weight and size of the mooring ropes. When incorporated in the design of a new built vessel it can lead to substantial cost savings.

Royal Lankhorst Euronete Group and DSM Dyneema are commit-

ted to working closely on the continuous development of high performance synthetic ropes with Dyneema®. Technical staffs from both companies regularly visit customers together to explore new applications and to conduct test programs to ensure that new ropes are fully optimized to deliver practical and business benefits to maritime operators.



## YARN DIVISION

### ELITE® BIO Twine

**horti twine - the next generation made from PLA, a polymer from renewable resources**

Does the ideal twine for horticulture, in particular the tomato and pepper cultivation, exist?

The polypropylene that has been used since decades has many advantages; such as:

- light (in weight)
  - white (taking away less light)
  - clean
  - soft
- and
- it does not rot
  - it is strong
  - it has good knot-properties

However, as it is sensitive to UV its breaking strength diminishes during cultivation and it does not degrade when composting it after the crop.

Alternatives for PP are natural fibres that degrade (rot) after cultivation, for example: jute and combinations of jute/viscose and cotton/viscose. Disadvantages of these are that they:

- are relatively thicker
- are darker in colour (taking away much more light)
- absorb humidity (and can therefore shrink and also cause germs)
- start to rot already during cultivation.

For a long time we have been looking for possible improve-

ments in order to combine the good properties of both materials and interest grew when the 'Bio-clip', also made from PLA, was introduced into the market. Lankhorst started to perform laboratory trials with this PLA polymer - made from vegetable sugars - to produce a twine for horticulture purposes. After a number of years of trials and errors this resulted in a yarn: ELITE® BIO Twine, which can very well be compared with polypropylene: it is white, clean, soft, it does not rot, has good knot-properties and... it is not sensitive to UV and it degrades in the compost with all other plant waste within a reasonable period of time.

An extra property of ELITE® BIO Twine is that it has less 'creep'. Creep is a phenomenon common to plastics: under load the material becomes permanently longer. This causes the plant to sag which can slow down growth.

ELITE® BIO Twine has also proven to disappear entirely in



home compost after 5 - 6 months; what is left over are water and CO<sup>2</sup>, so no toxic substances. Further lower rates for growers to remove the green waste to composting companies will lead to substantial savings. And as the twine does not have to be separated anymore the labour involved also decreases and the ever-growing mountain of severely polluted plastic waste after every crop belongs to the past.

ELITE® BIO Twine: from nature for nature... an appealing thought!

## FROM THE EDITORS

The next edition of Lankhorst Euronete News will be published in December 2010.

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