

# DSM Dyneema Press Release

DSM Dyneema, Communication Department  
Mauritslaan 49, Urmond  
P.O. Box 1163, 6160 BD Geleen  
The Netherlands  
Tel. +31 46 476 79 31  
info.dyneema@dsm.com  
www.dyneema.com

DYNPR065E0706

## FIRST USE OF DYNEEMA® FIBER IN OFF-SHORE WINDMILL LIFTING

For the installation of offshore wind farms in the Irish Sea, Mammoet Van Oord, an international marine contractor, selected heavy lifting slings made with super-strong Dyneema® polyethylene fiber from DSM Dyneema. The special round slings, manufactured by the Unitex Group, are designed to lift heavy loads weighing up to several hundreds of tons.

Mammoet Van Oord is using the Unitex lifting slings with its new jack-up installation barge, the “Jumping Jack,” to place 240 ton monopiles as part of the foundations required for the installation of wind turbines in the Burbo offshore wind farm project located off the coast of Liverpool, United Kingdom.

“This new type of lightweight lifting sling performs similarly to steel wire and allows for precise lifting jobs,” said Jan Kranenburg of Mammoet Van Oord. “At the same time, these slings increase the safety of workers on board our vessel. We are happy that DSM Dyneema and Unitex have teamed up to offer this improved type of sling to the market.”

Jorn Boesten, market segment manager Lifting for DSM Dyneema adds: “The use of Dyneema® fiber provides many important advantages to the new lifting slings. This lightweight fiber enables the manufacturing of slings that are lower in weight by a factor of eight compared to similar steel wire-based equipment. Lighter weight makes handling the slings easier, especially in rough seas, and helps prevent back injuries that are caused most frequently by maneuvering the heavier steel-wire slings. Further, wire carries a high risk of worker injury because loose threads can act like fishhooks and inflict serious cuts to the hand or arms – a situation that is avoided with slings made from smooth Dyneema® fiber. In addition these slings provide reliable, long life for cost-efficient use.”

Similarly, while abrasive steel wire can scratch coatings that provide important corrosion resistance to the monopiles, slings made from Dyneema® help prevent damage to these valuable components. Finally, the new slings deliver lifting performance that is equivalent to that of steel-wire equipment. Unlike synthetics such as nylon or polyester, Dyneema® fiber exhibits minimal stretch. This leads to improved load handling which is a major benefit to crane operators.

# DSM Dyneema Press Release

The Unitex slings with Dyneema® are particularly effective in lifting heavy objects under challenging conditions or when great precision is required. In addition to wind farms, such scenarios include bridge construction, installing offshore equipment such as at gas and oil terminals, moving large prefabricated parts for buildings under construction, and supporting logistical centers such as railway depots and ports.

## About DSM Dyneema

DSM Dyneema is the inventor and manufacturer of Dyneema®, the world's strongest fiber™. Dyneema® is a superstrong polyethylene fiber that offers maximum strength combined with minimum weight. It is up to 15 times stronger than quality steel and up to 40% stronger than aramid fibers, both on weight for weight basis. Dyneema® floats on water and is extremely durable and resistant to moisture, UV light and chemicals. The applications are therefore more or less unlimited. Dyneema® is an important component in ropes, cables and nets in the fishing, shipping and offshore industries. Dyneema® is also used in safety gloves for the metalworking industry and in fine yarns for applications in sporting goods and the medical sector. In addition, Dyneema® is also used in bullet resistant armor and clothing for police and military personnel. Dyneema® is produced in Heerlen (The Netherlands) and in Greenville, North Carolina (U.S.A.). DSM Dyneema is also a partner in a high modulus polyethylene (HMPE) manufacturing joint venture in Japan. Further information on DSM Dyneema is available at [www.dyneema.com](http://www.dyneema.com).

## About DSM

DSM is active worldwide in nutritional and pharma ingredients, performance materials and industrial chemicals. The company creates innovative products and services that help improve the quality of life. DSM's products are used in a wide range of end markets and applications such as human and animal nutrition and health, cosmetics, pharmaceuticals, automotive and transport, coatings, housing and electrics & electronics (E&E). DSM's strategy, named Vision 2010 - Building on Strengths, focuses on accelerating profitable and innovative growth of the company's specialties portfolio. Market-driven growth, innovation and increased presence in emerging economies are key drivers of this strategy. The group has annual sales of over EUR 8 billion and employs some 22,000 people worldwide. DSM ranks among the global leaders in many of its fields. The company is headquartered in the Netherlands, with locations in Europe, Asia, Africa and the Americas.

Dyneema® is a registered trademark of Royal DSM N.V.

## About Mammoet Van Oord

"Specialist in marine heavy lifting and offshore installation"

Mammoet Van Oord is an internationally operating marine contractor, specialized in marine heavy lift and installation activities, with a focus on the installation of offshore windfarms, and with capabilities suited to oil and gas installation and decommissioning activities and civil heavy lifting.

For more information about Mammoet Van Oord, please visit: [www.mammoetvanoord.com](http://www.mammoetvanoord.com)

# DSM Dyneema Press Release

If you have any questions or requests, please contact:

Anouk Luykx

EMG

Tel.: +31 164 317 017

Fax: +31 164 317 039

E-mail: [aluykx@emg.nl](mailto:aluykx@emg.nl)

Nathali Donatz

DSM Dyneema

Tel.: +31 46 476 7931

Fax: +31 46 476 7913

E-mail: [nathali.donatz@dsm.com](mailto:nathali.donatz@dsm.com)

This press release and relevant photography can be downloaded from

[www.PressReleaseFinder.com](http://www.PressReleaseFinder.com)

Alternatively for very high resolution pictures please contact Anouk Luykx

([aluykx@emg.nl](mailto:aluykx@emg.nl), +31 164 317 017)



The "Jumping Jack" of Mammoet Van Oord (Photo DSM Dyneema, DYNPR065)