

NEWSFLASH

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Milligerplas Zwolle

VAN HECK'S PUMPS STILL GOING STRONG AT SAND EXTRACTION SITES



OFFSHORE DEMANDS BIOLOGICAL OIL

In the offshore industry, there is an increasing demand for hydraulically driven pumps that use biological oil. Van Heck is responding by adapting its current fleet to make it suitable for the biological

alternative. Under the motto: 'you ask, we innovate', Van Heck is also able to meet the rising demand for electrically powered pumps in the offshore industry.

PERFECT FOR POST-TRENCHING

NEW HK800 EVEN NEWER

Last year Van Heck developed the world's most powerful mobile pump: the diesel-powered HK800. This year, a new improved version will be launched. The exhaust gases are cleaner and the service interval has been doubled from 250 to an incredible 500 hours. Its huge power means the HK800 is perfect for post-trenching.

To bury a pipeline, you used to need two pumps. That requires a lot of space and a large construction vessel. Thanks to the Van Heck HK800, this is no longer the case: a single pump in a standard 20 ft container size does all the work. The

brand new HK800 not only saves space and money, it also saves the environment. Contractors planning to construct offshore wind farms have also shown an interest in these pump units.

INTERNATIONAL BUSINESS



As an international business, Van Heck operates all over the world, also visiting or exhibiting at various international trade fairs. In the past six months, Van Heck has participated at: Acqua Alta/InfraTech Essen, Interspill London, Salon des Maires in Paris, Seebbe and 5th Renexpo in Belgrade and IFAT Munich. Later this year, Offshore Energy in Amsterdam and Hochwassertage are also on the agenda.

That's how it all started: return water pumping at sand extraction sites. And Van Heck is still at it, both at home and abroad. Jeroen van Heck: "You never get tired of it. Every job is different, so we have to come up with a unique solution each and every time."

Royal Smals was extracting sand for construction work in Stadshagen near Zwolle. Van Heck installed an HK500, which pumps at a rate of 4000 m³/hour. Van Oord Germany asked Van Heck to

carry out a similar job on the extension of a marina and the construction of barracks in Wilhelmshaven. Here too, it was a diesel-powered HK500 that did the work. With the pump running 24/7,

there was a second one on stand-by, just in case. However, it was never needed. And that's how Van Heck has been working at sand extraction sites around the world for over 50 years.



BE PREPARED WITH A CONTINGENCY PLAN

Looking back, the stories are heroic and Jeroen van Heck is in its element when improvising somewhere on a dike with waves crashing against it amid a raging storm in the midst of the night. In practice, however, you need to put your mind to prevention and come up with a ready-to-implement contingency plan. Moreover, Van Heck has been emphasising the need for such plans for years. And its argument has hit home, as one tailor-made disaster plan after another has been drawn up in collaboration with clients in the Netherlands and Germany.

In Bitterfeld, Germany, Kubens called Van Heck for the construction of a new pumping station to help identify a suitable place to install an emergency pump in the event of a calamity. The NKWKN-Lünenburg water board felt safe repairing a pump in a pumping station because of the contingency plan that would allow Van Heck to be operational within 72 hours. No fewer than 50 contingency plans have been drawn up for Waternet, the Noorderzijlvest, Hunze & Aa's water boards in the Netherlands and WSV Magdeburg in Germany.



PREVENT FINANCIAL AND OTHER LOSSES

Factories, water boards, public authorities and nuclear power stations: in fact anywhere where there is the risk of flooding or a shortage of water, a

'In a contingency plan, you define all possible scenarios down to the very last detail.'

contingency plan will prevent escalation. The sooner the red pumps can be on site, the better. With a contingency plan on hand, immediate action can be taken to reduce any financial or material losses.

LOTS OF BENEFITS

A contingency plan has numerous benefits. The time savings are crucial. The local situation is known to all the organisations and companies so they can act quickly. Everyone involved knows exactly what they have to do. What's more, the costs are substantially lower and the damage limited. In other words, a contingency plan enables situations to be managed professionally and effectively.

A leaflet is available with further information. Call: 0031 (0)561 - 431 739.

VAN HECK

MOVING WATER
any way you want it

ELECTRICALLY AND HYDRAULICALLY POWERED PUMPS:

VAN HECK DISPLAYS INNOVATIVE BRAINPOWER

Van Heck's impressive, diesel-powered pumps really stand out. They fit in standard container sizes and sit in the landscape like red Lego bricks. Less well known but certainly as effective are the electrically and hydraulically powered pumps. Demand for them is increasing as are the developments surrounding them. Van Heck innovates in close collaboration with clients and research institutes.

SP300-E ELECTRIC SCREW PUMP

Van Heck jointly develops customised pumps with its clients. A good example is the SP300-E, an electrically powered screw pump for the department of the environment and energy (BUE) in Hamburg. This pump operates in protected nesting grounds, so needs to be as quiet as possible. To minimise disruption to wildlife, it was necessary to

avoid laying overly thick electric cables. Van Heck worked with the client to develop a pump that gets maximum yield from minimum power.

TU BERLIN SHARES FINDINGS

Van Heck is always trying to improve the efficiency of what is basically a straight forward screw pump, this together working closely with the Technical

University of Berlin. Experiments have been performed on a new innovative impeller design in conjunction with a diffusor, developing a screw pump that is capable of moving even more water with even less energy. This success shows the value of Van Heck's continuous innovation: efficiency.

OPTIMUM FOR WATER INJECTION DREDGING

Electric pumps are commonly found on water injection dredgers (WID). All over the world, Van Heck engineers and clients such as De Boer and Meyer & van der Kamp dredging companies are working flat out to design the optimum pump. The flow rate in such pumps is high: around 7000 m³/hour. The challenge lies in wasting as little energy as possible.

Picture left: hydraulically powered pumps
Picture below: electrically powered pump units



'Our ambition to be the best inspires us to innovate continuously.'

DECISIVE ACTION SAVES POTATO HARVEST



The first autumn storm of 2017 struck on 13 September. At 6.00 p.m. on the evening before, Wetterskip Fryslân put out a Mayday call. At 7.45 p.m. the project manager arrived at the incident site: the Nieuwe Zeedijk in Holwerd. At 1.00 a.m., the pump and around one hundred metres of pipeline were installed there. At 6.45 a.m. the system was operating as it should and everyone was able to go home, tired but satisfied.

The problem was that not all of the ditches had been cleared and this was obstructing the flow of water to the pumping station. The storm meant that there was a risk of flooding. Van Heck pumped the water away over the dike, protecting the adjacent land and

making sure that the potato harvest was not jeopardised.

TEAMWORK

Van Heck was not the only high performing company. Our haulage partner, De Nekker, delivered the equipment in no time. Jelle

Bijlsma BV arranged excavators and ramps and BKF organised the cranes. The crew of Wetterskip Fryslân lent a helping hand and not unimportantly, arranged food and drinks for the whole team. Even the fire brigade came to our aid with lighting! Great teamwork!



LUCAS BOELEN IS AMBITIOUS TECHNICAL MANAGER

With Lucas Boelen in a key position at Van Heck, the company is set to take the next step into the future. A future with even more well structured business processes that raise the quality of its services to an even higher level.

Lucas is modest about his role:

"Far-reaching ambition is already deeply rooted in the culture of this company. Jeroen and I both identify with the motto 'you must always want to improve everything'. Jeroen particularly focuses on technical innovations and employee skills, which has enabled him to make his company the market leader. I focus on the organisation and management processes and thereby contribute to maintaining our hard fought main head position. Because whilst becoming the best is a significant

achievement, remaining the best is an even greater one."

In Lucas Boelen, Jeroen van Heck has brought in someone from outside the world of water management. Nevertheless, his attitude to work is a perfect match. Lucas: "Each step forward is just the start of the next step forward. As a Technical Manager at Van Heck, I never sit back. The trick is to keep thinking and acting a few steps ahead. I want to work with my colleagues to get the very best out of this great company."

VAN HECK'S OWN PLAN PROVES TO BE THE BEST ONE

Van Heck frequently uses the siphon technique based on the laws of physics because it is sustainable, reliable, self-regulating and inexpensive. Mainly though, it's because siphoning is usually the most obvious solution.

In the Dortmund-Eems Canal near Greven, where the canal crosses the Elbe over an impressively high aqueduct, WSV is having an emergency spillway repaired. A design was made to temporarily take over its function and this was put out to tender. Van Heck and the principal contractor put in a joint bid and cheekily submitted their own design. It proved to be both better and cheaper. Van Heck installed the siphon system and instructed WSV's staff on how to operate it in the event of an emergency.

LEAPFROG IN BRABANT

The Peel Canal between Griendtsveen and Mill has eleven weirs dating back to 1939. Visser Ploegmakers civil engineering was assigned the job of renovating and automating the weirs for the Aa & Maas Water Board. For this job, which started in the first quarter of 2018, Van Heck is using two on-site siphon systems. While one is operating at the weir currently being renovated, the other is being installed at the next weir. They will leapfrog one another until the job is complete. On this project, Van Heck is also responsible for the layout drawings.

JAPANESE DEMO SEA TROPHY FOR NIPPON SALVAGE SERVICE

Mr Norihisa Wakita, Salvage Master at Nippon Salvage Service (NSS), came to Noordwolde to see the impressive performance of the Sea Trophy for himself. After seeing the demo, he was very enthusiastic and confirmed that he would like to use the pump from Noordwolde on any future international salvage jobs in which the Japanese company NSS is involved.

The mobile pump system is suitable for quickly emptying bunker fuel tanks that have been filled with the wrong fuel oil, thus preventing costly delays. A cargo of oil or fuel can also be safely pumped out of vessels in the event of emergencies at sea. The award winning explosion-proof pumps can be deployed worldwide and 24/7 and lease kits are available for use in Singapore, the USA and the

Netherlands. The CMA CGM shipping company has already signed a deal with Van Heck.

