

Summary

Voorbij Funderingstechniek (Amsterdam - the Netherlands) specializes in foundation work of all kinds and is leading in the supply of bearing capacity for infrastructure, residential, and nonresidential applications. We offer our clients solutions for the challenges they face.

Our earth and water retaining steel structures are frequently used in construction pits, underground car parks, quay walls and cofferdams. Our approach is to identify the best technical and commercial solutions in consultation with our customers. This partnership is the basis for creative and innovative solutions with a no-nonsense approach.

Figure 1 E-ON MPP3 Rotterdam (NL).

Voorbij piles drive into Europe

Innovative solutions – No-nonsense approach

We have many decades of experience in soil mechanics and foundation engineering. Together with you, our qualified staff can provide a comprehensive solution including design, project management and execution. For this we can utilize our extensive and modern equipment fleet. We have our own vessels for water-based works.

Voorbij Funderingstechniek is part of TBI Infra, a collection of companies belonging to TBI Holdings in Rotterdam (the Netherlands). The company has over 100 employees and a turnover of approximately € 40 million.

Using our domestic market as a starting point, we carry out projects all over the world on a project basis, first and foremost when special skills are required.

Our products

- precast prestressed pile
- vibro pile
- combi pile
- High Speed Pile
- fluidization pile
- Displacement Screw Pile
- Displacement Vibration Pile
- anchor pile

- mv pile
- steel sheet pile
- combi wall

Our services

- engineering
- cofferdam
- construction pit
- quay wall

For more information on our company, products and services:

www.voorbijfunderingstechniek.com



Figure 2 Quay wall Scaldia harbour Flushing (NL).



Figure 3 MV piles quay wall Antwerp (B).



Figure 4
MV piles quay wall Antwerp (B).



Figure 5
Cofferdam Balearic Gas pipeline, Denia (Esp).



Figure 6
Cofferdam Nord Stream pipeline, Greifswald (Deu).

Below a selection of two projects which are representative for our company.

Voorbij MV piles for Antwerp quay wall

Voorbij Funderingstechniek was awarded a contract by Van Laere N.V. to install 262 MV piles for the 'Kaaimuur kanaaldok B2' project, for approximately 850 metres of quay wall in Antwerp. The project started July 2009. We have used our own vessels for installation of the MV piles.

H-section beams with grout injection were used for the MV piles. They have been tested with an ultimate load of 505 ton whereas the service load is 350 ton.

We have finished this project before end of 2009. This project was the third quay wall in a row in which we installed MV piles. In 2008 – 2009 we installed MV piles using tubular elements in the first two projects in Flushing and Moerdijk industrial area (both in the Netherlands).

Location	Antwerpen
Principal	Gemeentelijk Havenbedrijf Antwerpen
Main contractor	Van Laere N.V.
Execution period	2009
Activities	MV-piles

Cofferdam construction in Denia, Spain

The Spanish government approved the Balearic Gas pipeline project in 2003. The objective was to construct a pipeline linking the Mediterranean Balearic islands, which include Ibiza and Mallorca, with the Spanish mainland. This will provide a connection with the Spanish, and therefore with the European, gas distribution

networks. The pipeline leaves the mainland at Denia and makes landfall in Ibiza, from where a link to Mallorca is made.

Location	Denia
Principal	Enegas
Contracting consortium	Saipem – FCC Construction
Subcontractor for dredging and pipeline	Boskalis b.v. - Tideway
Execution period	January - March 2009
Activities	Building and dismantling cofferdam construction

Voorbij Funderingstechniek was engaged by Boskalis for the temporary cofferdam construction for the pipeline landfall at Denia. Voorbij was awarded the contract on 20 December 2008, and started work on 12 January 2009 after an extremely brief mobilization. The cofferdam construction was 140 metres long. No auxiliary construction was used, as the machine 'proceeded over its own work' – working from the cofferdam

that had already been completed.

The sheet piles with approximately 10 metre elements were of Spanish origin and supplied by the client. Boskalis Offshore contacted Voorbij following a previous partnership in a similar cofferdam construction from Callantsoog beach in 2006 (Balgzand Bacton pipeline (BBL)).

The cofferdam was completed in February and Voorbij then worked with the client on the strutting frame. 25 February 2009 saw the 'pipe pull', when the pipeline was drawn ashore. The pipe-line was then covered with sand and Voorbij dismantled the cofferdam construction in March 2009. This project was yet another fine example of teamwork between dredging companies and a foundation partner that they can rely on.

Currently we are working on a cofferdam construction for the Nord Straem pipeline landfall at Greifswald (Germany). We have been awarded this project by Boskalis Rhode Nilsson J.V. (Figure 6) ■