



Profile

Dredging

Our signature talent



Contributing to Dubai's vision by constructing the island Bluewaters, United Arab Emirates



Artist impression of the dredging and civil engineering work in the Bahamas

Activities

Dredging is our signature talent, one that we have perfected continuously since our business was founded. Our dredging talent translates into expertise, experience and ingenuity. It is carried out on complex marine engineering projects worldwide, such as Palm Jumeirah in Dubai. These kind of projects contribute to the reputation as a Dutch centre of expertise in water management.

We have global ambitions in the fields of dredging and marine engineering, ambitions that we are achieving by continually shifting the boundaries of technology. Examples of our innovative approach include water injection dredging and the Building with Nature programme. We work with international experts on solving environmental problems out in the field. Collectively, we refer to these innovations as the Van Oord Guards.

Ports and waterways

Countries continue to expand their ports. They need to because the volume of trade is growing and because ships are getting bigger. Longer quay walls and wider, deeper access channels are therefore crucial. Sometimes an entirely new port is needed.

Land reclamation

Trend-watchers have predicted a mass migration worldwide from interior regions to coastal areas. Cities and ports are therefore expanding in the direction of the water. We make this expansion possible by dredging sand at sea and depositing it closer to shore. The land that we reclaim can be used for a variety of purposes: as ports, industrial estates, nature reserves or housing developments.



Grab dredger Titan demonstrating its power in the Caspian Sea



Installation of vertical drains on an artificial polder island for the Kapuk Naga Indah project, off the coast of Jakarta, Indonesia

Artificial islands

Attractive coastal areas offer an ever-greater variety of holiday options. Such areas are investing in beach and shoreline expansion, sites for new cruise ship terminals, and modern airports.

Coastal defences

Wind and water are a constant threat to coastal areas and can damage their natural defences. With our headquarters in a country that is largely below sea level, we know all about this. Our sand suppletion operations are meant to defend the coast against erosion, and we call on nature itself to assist us.

Dike construction

Delta regions are at risk being flooded, not only by the sea but also by rivers. Dikes and embankments were invented in the Netherlands to protect the land against the water. That is why we have ample experience in constructing and maintaining dikes,

breakwaters, quay walls and various types of shore and bank protection.

Underwater drilling and blasting

In cases where the sea bottom is exceptionally hard, we offer the option of fragmenting underwater rock layers with explosives. This method is known as drilling and blasting. We remove hard rock for infrastructure projects, for example when dredging port access channels, digging trenches for pipelines and cables, or constructing quays.

Vertical and horizontal drainage

Our activities are not limited to depositing sand. We also use various consolidation techniques to rapidly prepare reclaimed land or deposited sand for infrastructure construction. Our Wicks business unit specialises in these techniques.



Latest technology

Trailing suction hopper dredgers Rotterdam and Vox Máxima during Darwin harbour dredging works, Australia

The visionary engineering projects of our clients can only be realised by the best people working with the latest technology. That is why we operate the world's most advanced equipment, which encompasses state-of-the-art vessels. Our equipment is designed in accordance with the highest quality and safety standards. A continuous investment programme is part of our strategy.

Dredging equipment

- backhoe dredgers
- cutter suction dredgers
- hopper barges and pushbusters
- land-based equipment
- side stone dumping vessels
- split hopper barges
- trailing suction hopper dredgers
- water injection dredgers

Please contact our representative at your nearest local Van Oord office.
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