



### Marine drilling & blasting

Marine drilling & blasting is used to remove hard rock in infrastructure projects such as port access channels, trenches for pipes and cables, ship berth construction, and removal of underwater obstructions.

Wicks has drilling towers that can lower themselves close to the seabed to accurately control our drilling operations. By applying top hammer as well as ODEX and DTH techniques we can use both cartridge and bulk explosives. Delayed blast initiation allows us to manage vibrations and shockwaves as well as rock fragmentation.

Wicks brings top-notch drilling expertise to its marine operations. Our containerised drilling rigs can be mobilised around the globe and mounted on any suitable local barge or drilling platform.

We have an excellent safety track record and environmental and vibration aspects are integrated into our working methods.



#### Wicks

Jan Blankenweg 2  
4207 HN Gorinchem  
PO Box 3110  
4200 EC Gorinchem  
The Netherlands  
T +31 183 642500  
F +31 183 642502  
E [info@wicks.nl](mailto:info@wicks.nl)  
I [www.wicks.nl](http://www.wicks.nl)

contact

profile



## Solutions for ground treatment projects

## Introduction



## Solutions



The capacity of our PVD-installation rigs varies in installation depth and penetration force, with our largest rig capable of installing PVD up to 60 m depth. Our rigs are equipped with data-logging facilities and some of our masts are fully automated, allowing high production rates and underwater drain installation.

### Soil compaction

Wicks offers complementary soil compaction techniques that combine to economically compact soil to depths in excess of 30 m. For deeper soil compaction water jets are used to insert vibrating rods (vibroflots) into the soil to depth. The vibroflots are then retracted in stages, with the resulting horizontal vibrations causing the soil to compact. Shallow soil layers are compacted effectively using tractor-towed Broons rollers. Wicks has applied both techniques extensively in land reclamation projects.

Wicks is an international contractor in ground treatment. We offer solutions for ground treatment projects of any size or complexity, anywhere in the world.

**Subsoil consolidation** is a time-consuming and expensive factor when reclaiming land or constructing embankments on compressible soils. Our vertical and horizontal drainage solutions can cut down considerably on construction time and costs.

Our economical **soil compaction** techniques (surface and deep vibrocompaction) improve the load-bearing capacity of soils.

When material is too hard to be dredged, our **marine drilling and blasting** solutions will fragment it prior to dredging.



Wicks also offers **design and engineering** assistance for all your ground treatment projects.

Wicks is based in the Netherlands and has regional offices in Singapore, Brisbane and Dubai. Our equipment, operators and staff can be mobilized to any project worldwide. We are continuously improving our equipment and working methods and deliver quality, reliability, innovation and expertise to your ground treatment projects.

### Vertical and horizontal drainage

Wicks has a broad range of drain installation equipment that is continuously being adapted to improve performance.

Prefabricated vertical drains (PVD) offer a very cost-effective way of consolidating water-saturated soil and increasing soil stability. Pre-loading can be shortened and reduced, resulting in lower project costs and a shorter consolidation time before construction work can start. Future maintenance costs are also lower due to reduced residual settlement.

Horizontal drainage has many useful applications in civil construction, geotechnical improvements, recreational facilities, agriculture and environmental projects. Wicks has many years of experience in each and utilizes both regular and trenchless installation machinery. Our installation capacity goes up to 8 m depth.

