



Image by courtesy of Jan de Nul Group

Dredging

There is more to the dredging industry than only maintaining waterways. Support tools such as suction or cutter dredgers, lateral offloading boats, barges and crane-equipped pontoons are needed to complete projects such as dike construction, breakwater construction, land reclamation, beach nourishment, harbour maintenance and artificial island construction.

The need for coupling high productivity with efficiency has led the industry to adopt the most sophisticated positioning methods available. OmniSTAR's real-time differential DGNSS correction services provide the right level of accuracy, reliability and efficiency for the required positioning systems.

OmniSTAR offers a range of professional DGNSS solutions ideal for dredging applications. OmniSTAR VBS and HP+ services can be used on OmniSTAR compatible equipment, as available from all major DGNSS manufacturers. This provides flexibility in picking the type and brand of DGNSS receiver most suitable for your job. The DGNSS receiver you own might already be OmniSTAR capable. Just select OmniSTAR as your Differential correction source and the receiver locks on to one of 10 available geostationary beams. Then call us for a free demonstration signal to test it.

OmniSTAR VBS provides an accuracy of 60 cm 95% 2D and is a very cost efficient reliable service on cost efficient single frequency GPS receivers. It is suitable for dredging applications requiring not so accurate but reliable stable position information.

OmniSTAR HP+ will deliver 6 cm 95% 2D with a vertical accuracy of 15 cm and is available on dual frequency OmniSTAR compatible GNSS equipment. HP+ contains HP GPS reference station data, XP GPS and G2 GPS/Glonass Orbit and Clock data. This provides a very accurate, robust and reliable set of corrections for your GNSS receiver turning it into a receiver capable of delivering a sub-decimeter position for your projects around the world.



Image by courtesy of Royal Boskalis Westminster nv



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OmniSTAR Application Note - Dredging

Advantages of using OmniSTAR:

- Worldwide Coverage
- No Radio Licenses Needed
- No Local base stations needed
- Available on GNSS receivers from Trimble, NovAtel, Hemisphere, Topcon and others...
- GPS and Glonass Corrections
- Fast Mobilisation and easy to use
- Remote over-the-air receiver activation
- Coordinates Delivered in ITRF WGS84
- Correction data broadcast via 10 geostationary beams
- Correction data broadcast via NTRIP GPRS cellular networks
- Multiple independent correction sources

OmniSTAR DGNSS positioning services are available 24/7, world-wide. They are delivered by satellite and terrestrial telecom systems, without the need for radio license or local base stations.



Image by courtesy of Van Oord



Image by courtesy of Team GmbH

Some Dredging partners of OmniSTAR:

Team GmbH
DredgerNaut www.dredgernaut.de

 **Jan De Nul**
 GROUP www.jandenul.com

Van Oord  www.vanoord.com

 **Royal Boskalis Westminster nv**
 International Dredging & Marine Contractors www.boskalis.nl

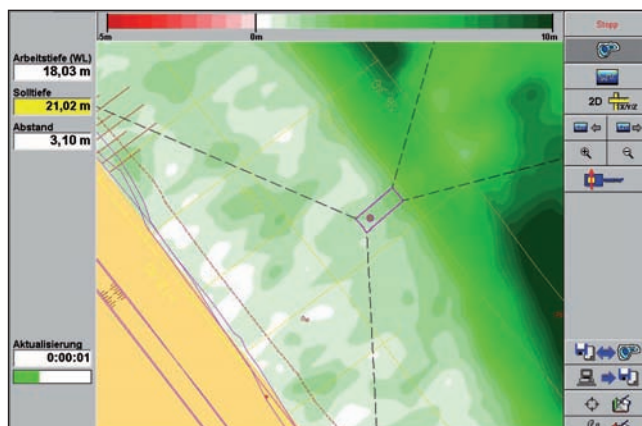


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For further information regarding OmniSTAR, please refer to our website or contact us by phone or by email.

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