



RESON's complete dredging / construction solution

- **RESON's products give you accurate, efficient dredging**
- **RESON is the only supplier of integrated dredge and survey solutions to the dredge and construction market**
- **RESON provides all the sensors for optimum dredge guidance**
- **Products are designed for the dredge and construction environment**
- **Create high quality and fast results**
- **Innovative products**

With over 25 years dredge market experience, RESON produces precision tools for any user, this application note give you a brief overview of our capabilities.

Our client base includes large and small dredging companies, hydraulic engineering, construction, offshore and survey firms. With those in mind, all RESON products are designed to withstand the harsh environment in which the equipment is used.

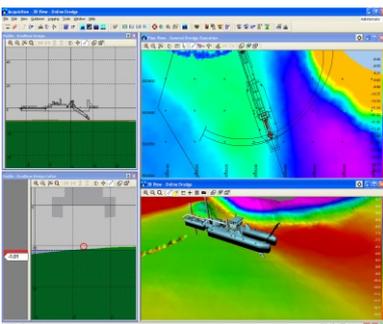
Whether it's for revetment surveys, rock dumping, excavating, dredging, maintenance surveys, building breakwaters, windmill parks, barge management or any other construction projects, RESON will supply you with a suitable solution.

RESON's PDS2000 dredge guidance systems are used on hydraulic excavators, wirecranes, bucket dredgers, underwater ploughs, trailing suction hopper and cutter suction dredgers.

The strength of the PDS2000 software is that different applications can be combined into a multipurpose application.

For example a project whereby a wirecrane installation is integrated with a USBL position system to position an underwater frame. This frame is used to lay pipe segments on the seabed. Sensors from the crane, barge and underwater frame are fed into PDS2000 which uses the information to visualize and calculate the absolute position of all objects such as crane boom, barge and underwater frame.

Another example of a multipurpose application is a Multibeam sensor integrated with dredge solutions as Hopper, Cutter dredgers or Excavator systems.





RESON

Dredge and Construction applications

PDS2000 Dredge Guidance Systems

A typical PDS2000 Dredge solution may consist of:

- PDS2000 Dredge software
- Cabinet with RESON interface and PC
- Sensors for the dredgers:
 - Horizontal and vertical angle
 - Draft sensors
 - Cable length counters
 - Spudpole positioning
 - Vacuum/pressure sensors
 - Hopperlevel sensors
 - Open/close switches
 - Positioning system and gyro
 - Roll/Pitch sensor
 - Other necessary sensors

Dredge Guidance Systems are available for:

- Hydraulic excavators
- Grab cranes
- Underwater ploughs, graders and bar-levelers
- Trailing suction hopper dredger
- Cutter suction dredgers
- Bucket dredgers
- Special applications on request

In each case, the software and hardware is supplied by RESON

APPLICATIONS

Typical PDS2000 applications :

- Port dredging
 - Environmental dredging
 - Port / breakwater construction
 - Land reclamation projects
 - Offshore Windmill park placements
 - Cable trenching
 - Pipelay
 - Pipe positioning monitoring
 - Bar sweep
 - Anchorhandling
- PDS2000 can also be tuned to suit special projects and applications

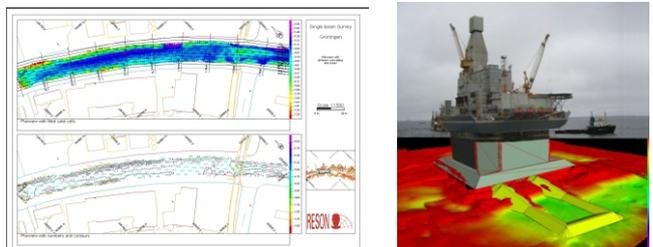
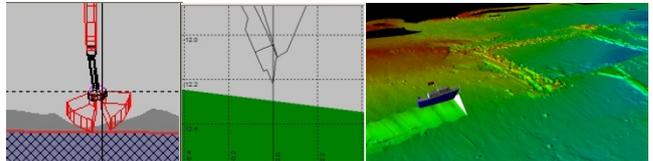
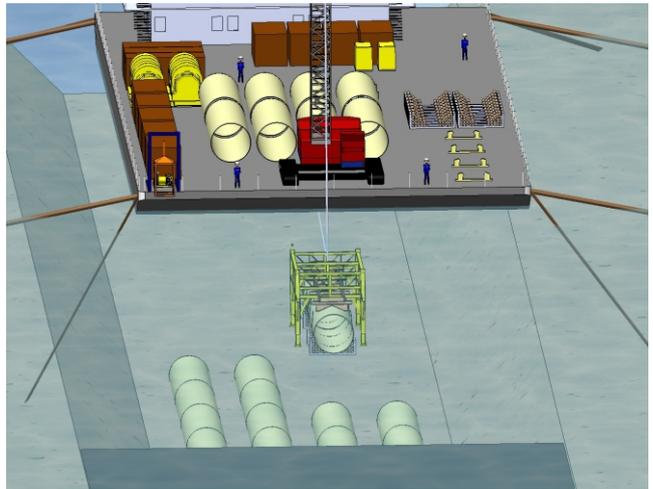


SPECIAL APPLICATIONS

Benefit to the client are the extensive possibilities to tune and combine the standard PDS2000 applications to your project specifications.

In fact there are no limits in the combination of the applications.

Please contact you nearest RESON agent for more information.



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