



Bucket Dredge

TRIMBLE MARINE CONSTRUCTION SOFTWARE

Trimble Marine Construction software improves productivity and efficiency in underwater construction applications. It provides accurate 3D visualization to assist the operator with underwater construction tasks.

Efficient dredging

Trimble Marine Construction software for bucket dredging applications is a powerful tool to help dredge operators improve productivity and efficiency. The operator has a real time view of the dredge chain and barge in plan and profile views. Displays include the bottom bucket chain wheel, buckets, under and over dredge limits against the surveyed and design surfaces.

Real time visualization and monitoring

Real time view of the dredger in plan and profile views displaying the buckets, design depths and color-coded DTM. The DTM highlights the high and low spots relative to design and is updated in realtime tracking the progress of the dredging work. The views are updated in real time using the defined bucket tip position and width. A built-in calibration function allows for easy calibration of the chain wheel, ladder and buckets.

Real time seafloor and design

Up/down indicators show the operator the exact distance to the seafloor and design depth continuously. Even complex designs can be imported and supported using the software.

Workflows

Operators are able to focus on staying within dredge tolerances without needing to configure designs. Office team can monitor progress during the project with as-building data, both locally and remotely.

Customizable interface

Multiple monitors with independent layouts can be tailored to the needs of the dredge operator. A color-coded plan view and 3D view highlights high and low spots. The surface DTM is updated in real time registering the progress of the dredging work showing depth, differential and production models all updated according to progress of the cutter head.

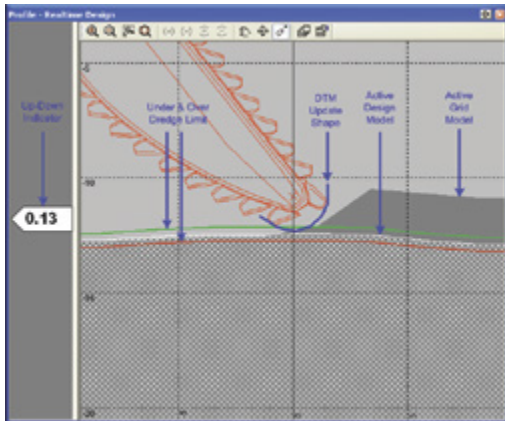
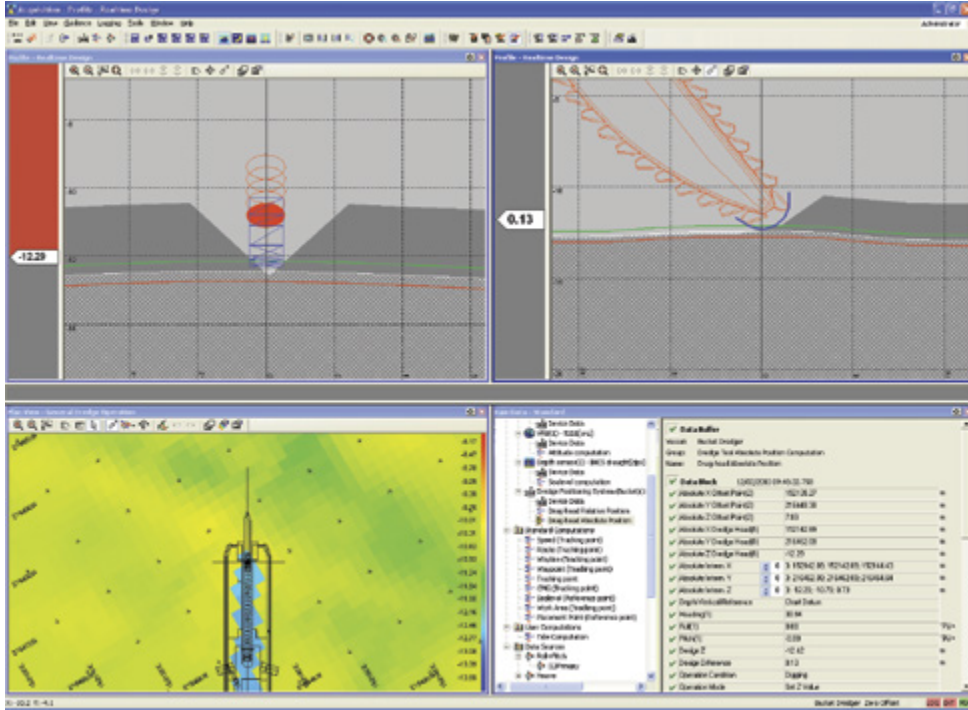
Features

- ▶ Robust and reliable solutions maximize uptime
- ▶ Dredge tolerance visualization provides guidance for accurate, efficient dredging productivity
- ▶ Administrator can configure the screens for a specific workflow/user and lock it down for the operator
- ▶ Integrated dredge and surveying functions in one package
- ▶ Import or build project design and survey models in the office or field for operations
- ▶ Continuous data logging for as-building and volume reports
- ▶ Precise RTK for tide and heave



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Trimble Marine Construction software for bucket dredge application - acquisition view



Trimble Marine Construction Software for bucket dredge application - profile view

About Trimble Marine

Trimble offers flexible, high-performance positioning systems to meet the unique needs of marine construction on both simple and complex projects. Solutions include both hardware and software, and can be easily integrated into third-party systems. The portfolio includes marine information systems (e.g. Trimble Marine Construction software), GNSS receivers, antennas, radios, encoders, depth gauges and inertial positioning systems.



Trimble Marine Construction software is transforming the way marine operations work by helping build and maintain the world's port, river, canal and other critical infrastructure. Trimble continues to transform this industry's work across the project lifecycle through sophisticated planning and design, advanced automation solutions, site positioning, and real time connectivity.

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