Excavator (Backhoe) 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 excavator dredger applications is a powerful tool to help dredge operators improve productivity and efficiency. The operator and tug captain have a real time overview of the excavator and barge in plan and profile views. Displays include the outline of the excavator body, boom, stick and bucket as well as the barge in real time against the surveyed and design surfaces.

Real time visualization and monitoring

Using the software, the position of the bucket relative to design is constantly tracked and displayed. A color-coded Digital Terrain Model (DTM) highlights the high and low spots relative to design. The DTM is updated in real time from the position of the bucket teeth and the bucket width to track the progress of the dredging work. The update is immediately visible in the plan and profile views. 3D design capabilities and functionalities support the use of complex designs.

Customizable interface

Multiple monitors with independent layouts can be tailored to the needs of the dredge operator. The surface Digital Terrain Model (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 bucket.

Cumulative production calculation

This calculation and reporting feature helps monitor progress so your operators can focus on the task at hand and allow the software to report progress by runline, operator or job. This also makes it easy for project managers who are remote to see accurate progress.

Tool support

The software supports a range of excavator tools, including standard bucket configurations, clamshell, multi-tine and articulated buckets.

Features

- Robust and reliable solutions maximize uptime
- Supports real time sonar inputs providing as-building capability
- Continuous data logging for as-building and volume reports
- Bucket 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
- Diking mode facilitates material placement operations
- RTK can be used for precise tide and heave measurement
- Create machine or vessel shapes or import models from CAD software including SketchUp® 3D modeling tool

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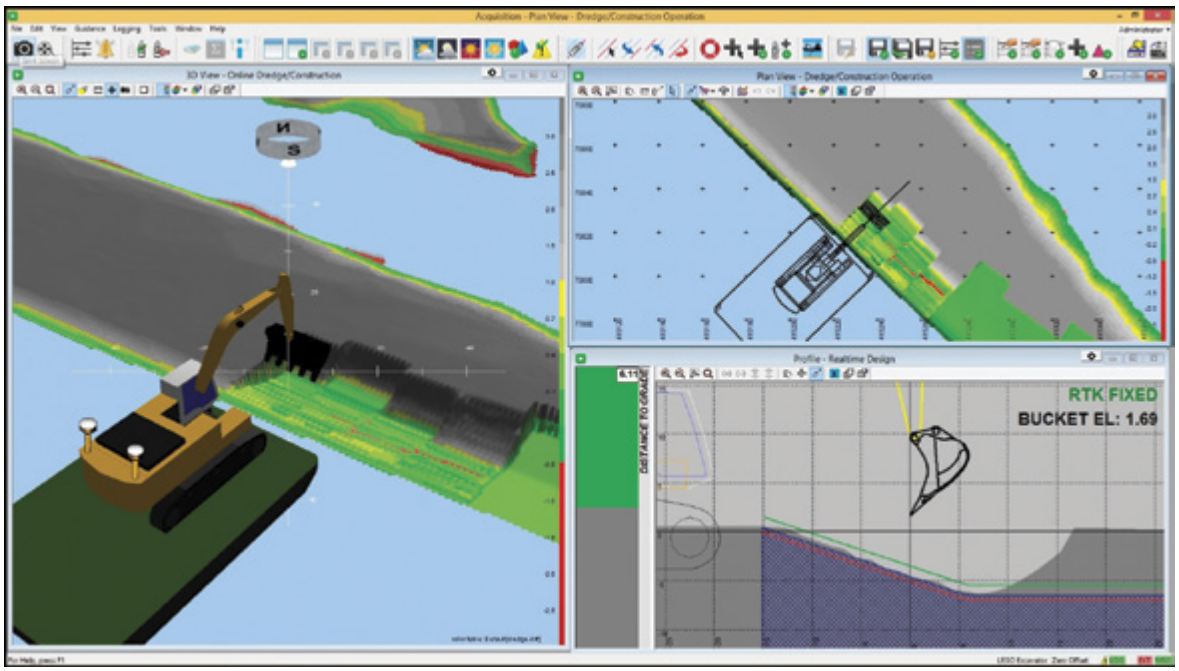
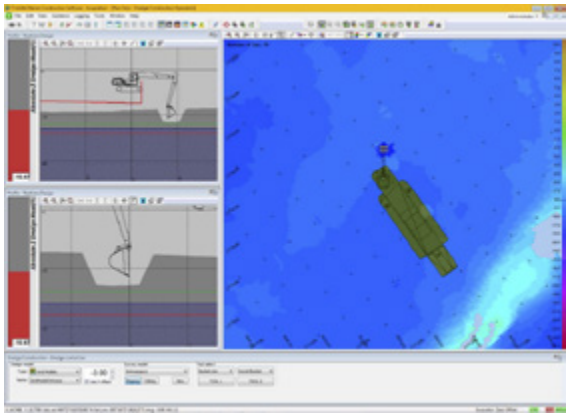


Trimble Marine Construction software for backhoe excavator dredge application - acquisition view



Trimble Marine Construction software for backhoe excavator dredge application - alternative 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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