Cutter Suction 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 cutter suction dredger applications is a powerful tool to help dredge operators improve productivity and efficiency. The operator and tug captain have a real time view of the dredger with the plan and profile views displaying the vessel outline and the dredge head along with the surveyed surface, design and dredged depth.

Real time visualization and monitoring

The software supports visualization and monitoring of the angle and position of the ladder and cutterhead. It also shows the absolute position of the dredge head in relation to the surveyed and any number of design surfaces. The working surface is updated with the dredged depths in real time and displayed in plan, profile and 3D views. Over-dredge and under-dredge tolerances can be set and are visible on the profile view of the dredge head.

Customizable interface

Multiple monitors, with independent layouts can be tailored to the needs of the dredge operator. A color-coded plan view and 3D rendering highlights high and low spots. 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 cutter head.

Cumulative production calculation (via 3rd party sensor)

The cumulative production calculation and reporting feature helps monitor efficiency and progress. When the water density and product density are known, the sensor can calculate total production. This allows operators to focus on the task at hand and allow the software to report progress by runline, block or job. It also makes it easy for off-site project managers to track progress.

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
- 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
- Import or build project design and survey models in the office or field
- Supports RTK for precise tide and heave calculation
- Create machine or vessel shapes or import models from CAD software including SketchUp® 3D modeling tool

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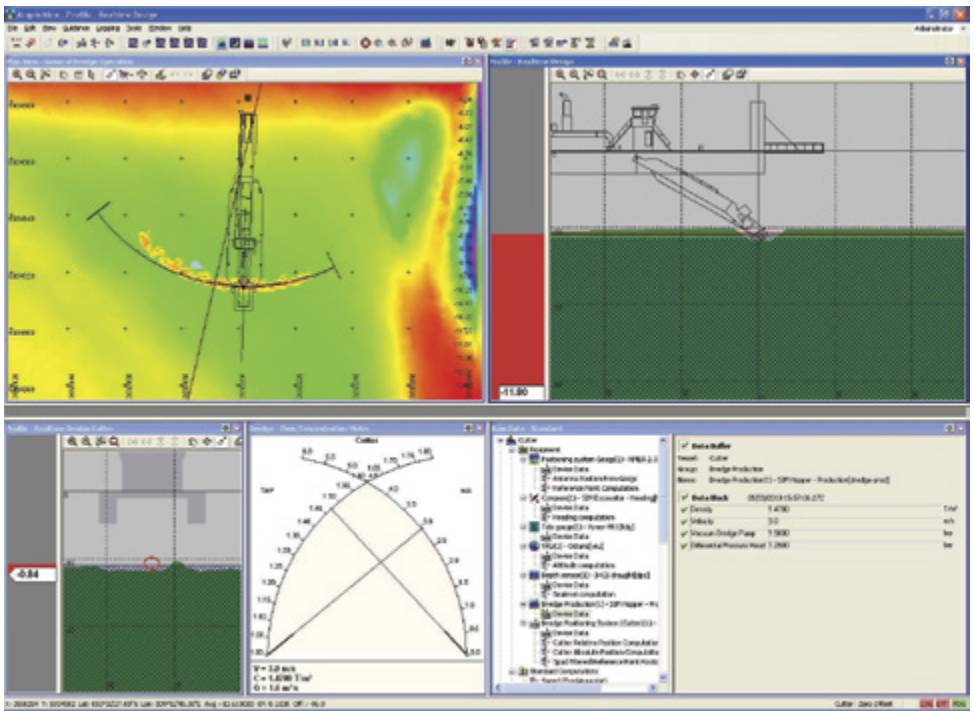
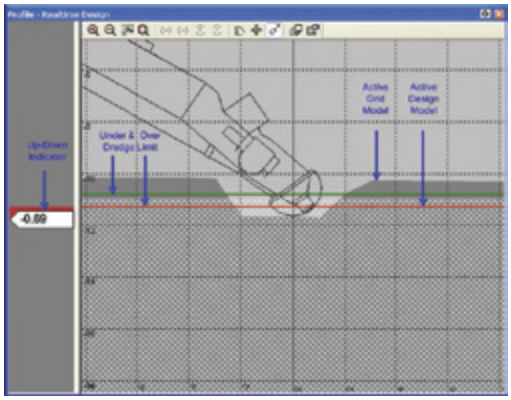


Trimble Marine Construction software for cutter suction dredge application - acquisition view



Trimble Marine Construction software for cutter suction 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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