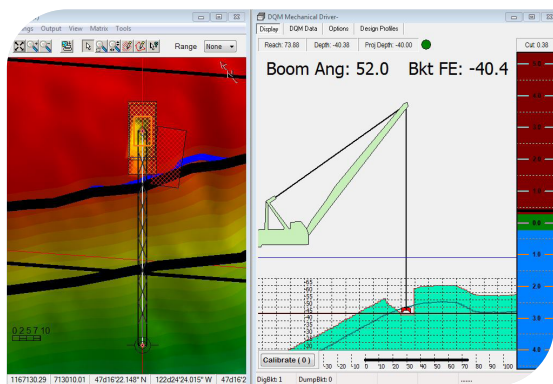




CRANE SYSTEM

INCREASING PRODUCTIVITY & MAINTAINING COMPLIANCE



The HYPACK® Crane System and DREDGEPACK® Software create a powerful synergy that maximizes your digging efficiency and work production while minimizing operator error and over-dredging. This system enhances the crane operator's effectiveness by improving the accuracy of bucket placement and providing immediate surface updates while dredging.

Easy to Operate and Maintain

The HYPACK® Crane System features a turn-key dredging system which provides the operator a more comprehensive overview of the dredge operations. Maintenance of this system is minimal due to its simplified hardware design. Calibration can be accomplished, at the operator's discretion, with a simple one-touch routine. Go from planning to dredging with ease as all HYPACK software packages share the same file formats, making importing your survey data and background charts seamless. By maintaining a placement record of every bucket, the operator will be able to reduce dredging redundancy. This system also saves time by decreasing the dredge's cycle time, and simplifying the post-dredge analysis and reporting.

FEATURES & BENEFITS

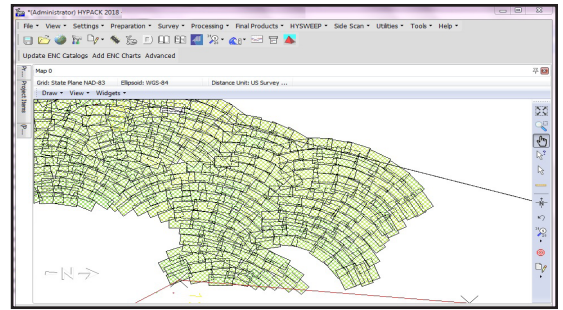
- Precise dredge positioning with RTK
- Dredge and capping operations
- Advanced 3D channel designs
- Quick surface to cutting tool reference with cut/fill bar

Offering a cost-effective way to track the depth and position of the bucket on a clamshell dredge. After installation, the system can be calibrated by the operator with a single push of a button.



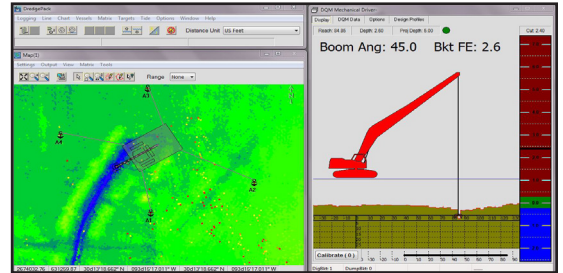
Dredging Efficiency

The HYPACK® Crane System improves dredge efficiency by showing the operator the exact location of the previous bucket and the location of the actual bucket. This allows the operator to accurately remove the next bucket of material. Utilizing the HYPACK® Crane System, the operator will be able to reduce cycle time and prevent costly over digging. The dredge template is visible on the screen for the operator to view the relationship of the bucket to the design.



DTM Color Modeling & Real-Time Updates

The HYPACK® Crane System can display a pre-dredge Digital Terrain Model (DTM), which is colored by depth or amount of material to be removed. Real-time updates of the DTM after each bucket show where the operator must still remove material, reducing the time required to clear an area to grade, and the cost to complete the dredge project.



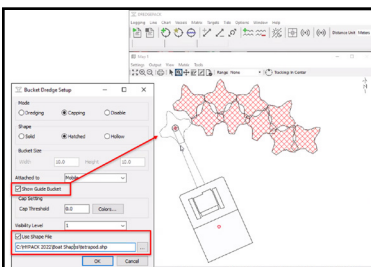
PUMP AS A TOOL

The crane system can be used to calculate the angle of the A frame or boom, and the position and depth of the pump.



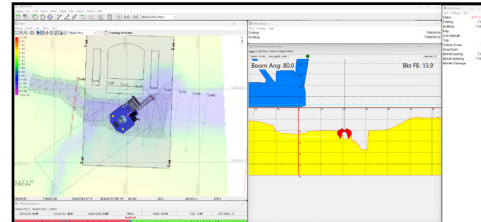
BARGE MONITORING

The solution can monitor the position and heading of the barge by using a second GNSS receiver and a wireless link.



PLACING OBJECTS

The system can be used for positioning objects accurately, and the operator can mark and store the positions into a file.



WHAT'S INCLUDED IN THE CRANE SYSTEM?

HYPACK will provide:

- A complete package with a DREDGEPACK® license and sensors
- Fast and reliable customer support
- A single platform to streamline surveying and dredging operations
- Support for over 400 marine sensors
- Software that readily interfaces with the USACE dredge quality management system