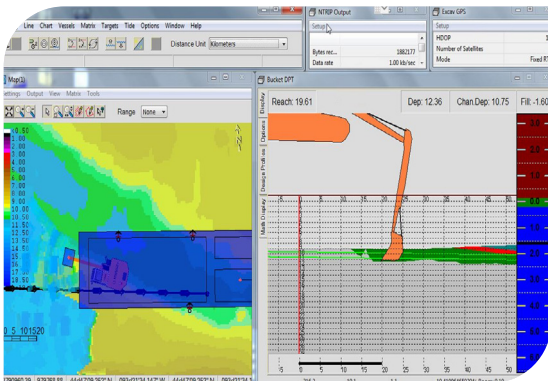




# EXCAVATOR SYSTEM

INCREASING PRODUCTIVITY & MAINTAINING COMPLIANCE



## 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

The Excavator 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 excavator operator's effectiveness by improving the accuracy of bucket placement and providing immediate surface updates while dredging.

## Easy to Operate and Maintain

The Excavator System features a turn-key dredging system which provides the operator with a more comprehensive overview of the dredging operations. Maintenance of this system is minimal due to its simplified hardware design. The system can be calibrated with a simple routine. Go from planning to dredging and capping with ease as all HYPACK® software packages share the same file formats, making importing your survey data and background charts seamless. By maintaining a record of the area dredged, the operator will reduce over-dredging and ensure that accurate dredging depths, sensors, and software work together to help reduce fuel consumption and overall operational costs. This is achieved by optimizing the use of the excavator and minimizing the need for rework.

A cost-effective way to track the depth and position of the bucket on an excavator. After installation, the system can be calibrated with a simple routine.



## Dredging Performance

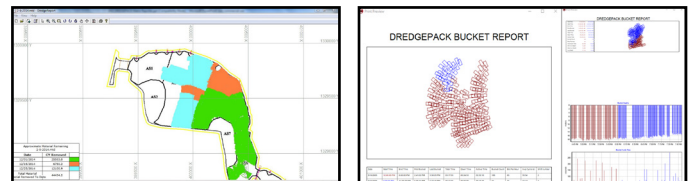
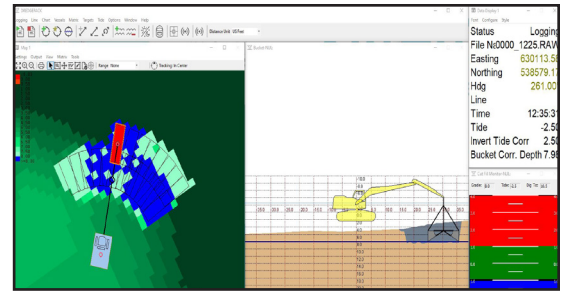
The HYPACK® Excavator System utilizes a combination of sensors and software which allow it to perform in the most challenging conditions, providing high accuracy when the excavator experiences pitch and roll dynamics, or vertical variations due to draft or tide. This enhanced performance is vital on certain projects where the depth of the bucket or tool needs to be calculated precisely with excavators working on environmental projects.

## DTM Color Modeling & Real-Time Updates

The HYPACK® Excavator System reduces delays by improving the efficiency of both planning and executing stages of dredging operations. The dredge template shows the operator the exact location and depth of the bucket, as well as its relationship to the design. DREDGEPACK® also supports several file formats, such as DXF, DWG, SHP, KMZ, and GeoTIFF, which allows planning from the office. The operator can perform an organized dredging operation using reference lines or areas as their guide.

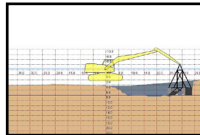
## Reports and Analysis

DREDGEPACK® incorporates a set of tools for generating reports to determine the area covered, estimated material removed, and the number of buckets for each of the shifts. After a post-dredging survey, it is possible to create a volume calculation report and obtain additional useful statistics.



## Environmental Excavator

Additional sensors provided for enhanced precision for environmental projects.



## Amphibious Excavator

The system performs properly on excavators experiencing high dynamics.



## Long Reach Excavators

A solution ready for long reach excavators using two sticks.



## Different Tools/Attachments

Additional options when using different tools and attachments.



## WHAT'S INCLUDED IN THE HYPACK EXCAVATOR SYSTEM?

### HYPACK will provide:

- A complete package containing 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