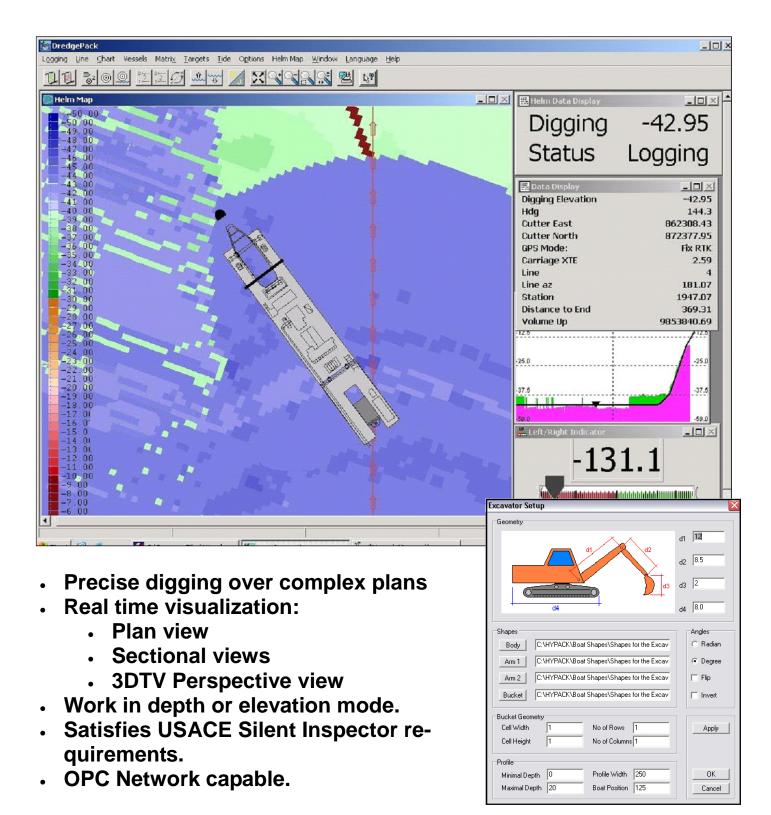# DREDGEPACK®

Real Time Dredging Information
for Excavators and Cutter Suction, Hopper and Bucket Dredges

- **Precise digging over complex plans**
- **Real time visualization:**
  - **Plan view**
  - **Sectional views**
  - **3DTV Perspective view**
- **Work in depth or elevation mode.**
- **Satisfies USACE Silent Inspector requirements.**
- **OPC Network capable.**

DREDGEPACK® provides operators with precise digging information, showing the exact position of your dredge and digging tool in your channel. Using any XYZ file of survey data, the program creates the 'As Surveyed' surface that represents your starting point. An 'As Dredged' surface is then modified based on the position and depth of the cutting tool.

DREDGEPACK® provides real time cross section information, showing the 'As Surveyed' and 'As Dredged' sections against the Channel Plan section. This allows for precise digging on side slopes and in complex channel areas.

Real time sections in **DREDGEPACK®** can be:
- Perpendicular to Vessel
- Perpendicular to Centerline
- Parallel to Vessel
- Parallel to Centerline
- Arc Profile (Using Spud to Tool distance as arc radius.)

DREDGEPACK® also provides real time output to satisfy reporting requirements. The USACE Silent Inspector requirements are a standard part of the software. It can output selected parameters to a radio modem or across a network, making the operational parameters available to other systems.

DREDGEPACK® is a special adaptation of HYPACK®, one of the most widely-used hydrographic surveying packages in the world. It contains all of the modules necessary to:
- Define your project geodesy
- Configure the hardware on the dredge
- Create the 'As Surveyed' surface
- Create your channel design plan
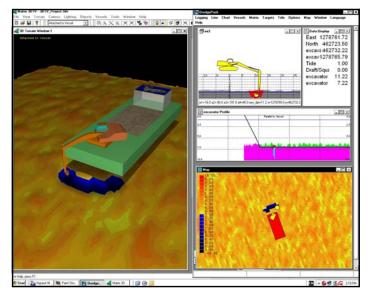- Perform real time monitoring and visualization

DREDGEPACK® has been successfully installed on:
- Hopper dredges
- Cutter suction dredges
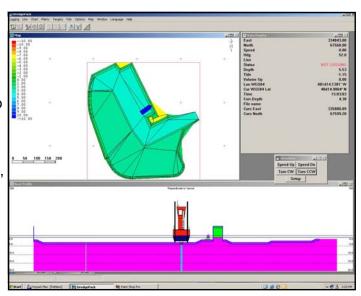- Vacuum dredges
- Clamshell and bucket dredges
- Excavators

HYPACK, Inc.
56 Bradley St.
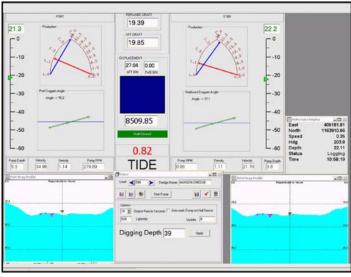Middletown, CT 06457 USA
Web: www.hypack.com
Sales: sales@hypack.com
Phone: 860-635-1500
Fax: 860-635-1522

3D Visualization with an excavator integrated in DREDGEPACK®.

A real time cross section through the complex dredging plan.

Customized display for hopper dredge using OPC Network.