



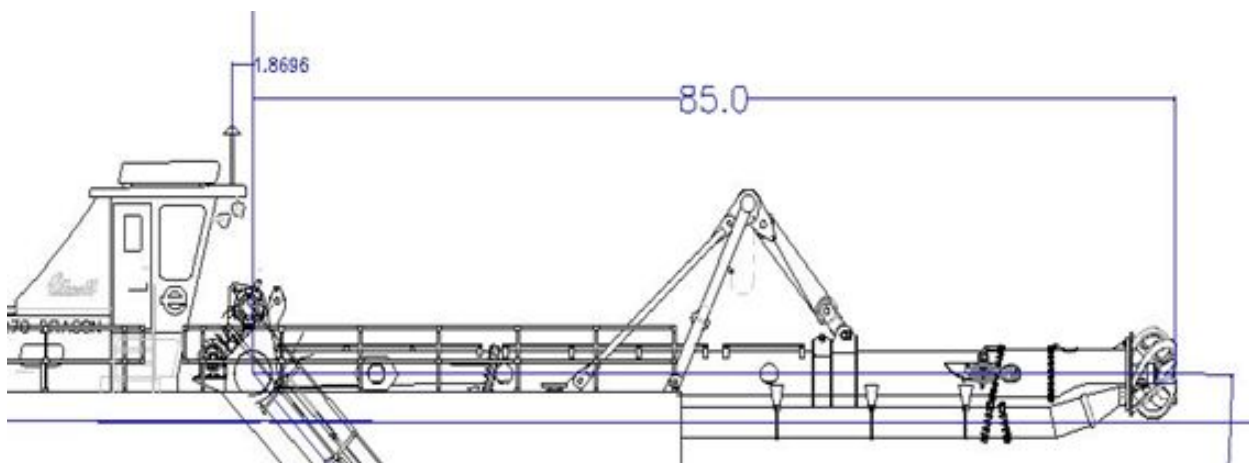
Cutter Suction Dredge Depth Calibration Work Sheet

By Christian Shaw

The Inclinator.dll is used to compute depth of the cutter tool. This article describes the verification method used on a standard setup and how to calibrate the system.

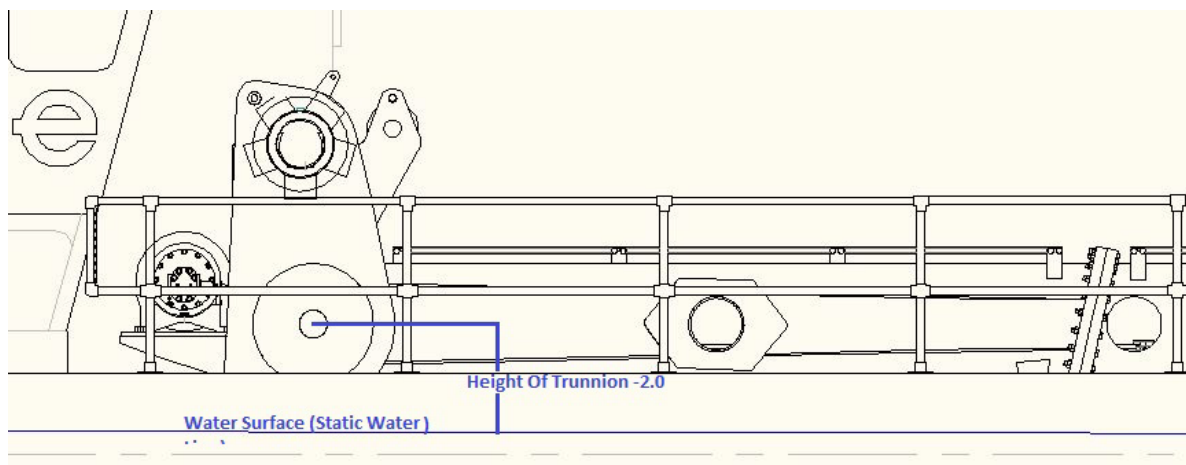
1. **Measure from the center of the trunnion pin to the end and center of the cutter tool.** This is the ladder length that will go into the Inclinator.dll.

FIGURE 1. Measuring from Trunnion Pin to Cutter Tool



2. **Measure the center trunnion pin height above or below the water.** If the trunnion pin is above water, the offset for the inclinator.dll vertical must be a negative value. (Below the water line is a positive value.)

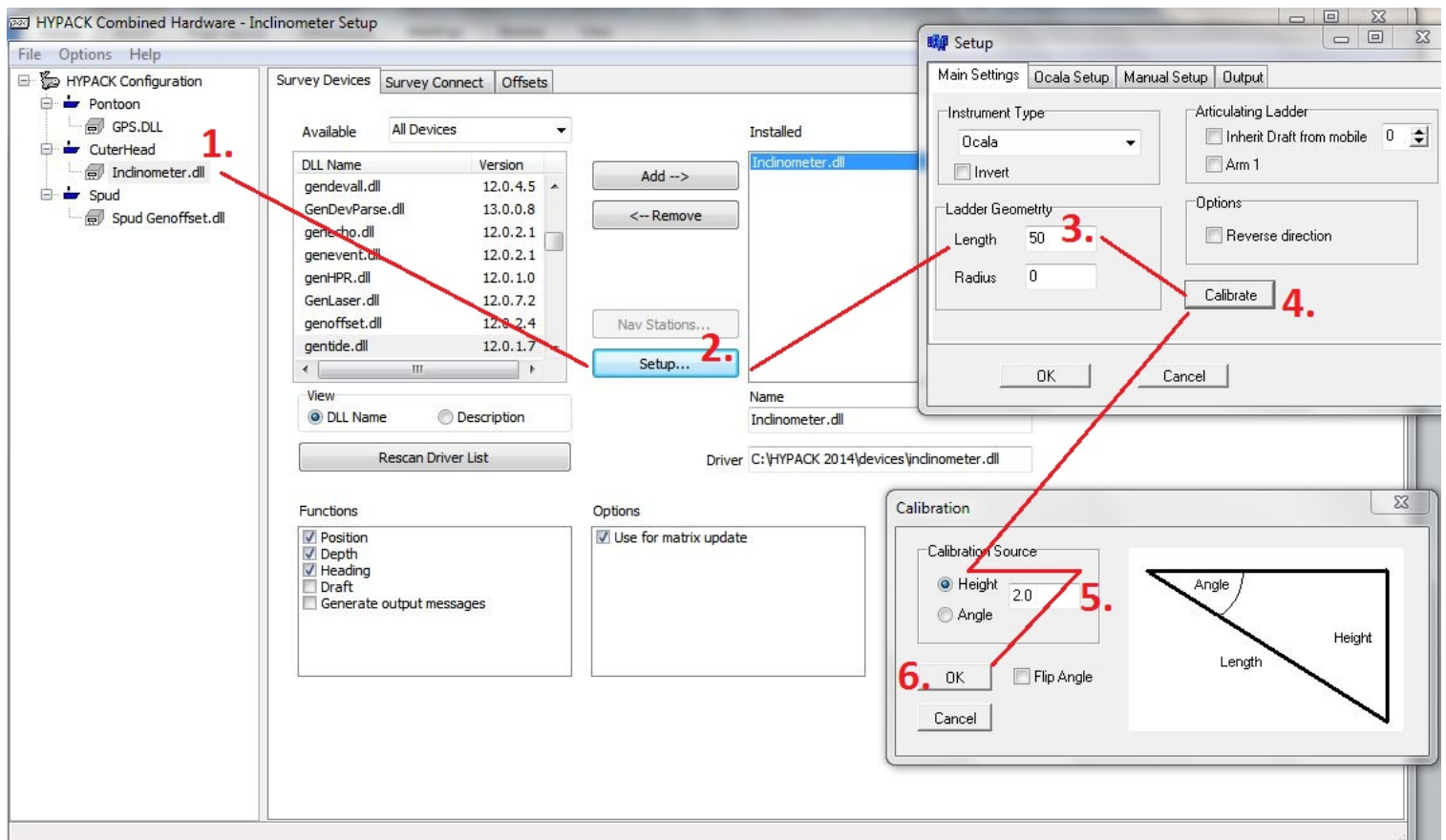
FIGURE 2. Measuring from the Trunnion to the Water Line



3. **Calibrate the ladder** (Inclinator.dll). In HARDWAREdo the following:
 - a. Select the Inclinator.dll (assigned to the ladder mobile).
 - b. Click [Setup].
 - c. Enter the ladder length.

- d. Click [Calibrate].
- e. Enter the trunnion height offset from static water line. (HYPACK® requires negative heights above the water line.)
- f. Click [OK].

FIGURE 3. *Calibrating the Inclinator Driver*



MATH CHECK ON CUTTER DEPTH

- Formula:
Cutter Depth = Sin of the angle * Ladder Length

