

Direct Push Analytical Corp.

GH42 Handcart Prototype (2nd Generation)



Figure 1: GH42 Handcart

This probe (Figure 1) started its life as a standard, truck mounted Geoprobe. The unit was removed from the vehicle and modified in order to be able to conduct work in areas where access is severely limited. With an overall footprint of approximately 33" by 36", this probe takes on challenging areas with ease. The probe anchors to concrete surfaces for stable and deep probing. The concrete anchors provide the necessary resistance required to advance the tooling to your projects' required depth. Four concrete anchors are utilized at each of the sampling locations to anchor the brackets that wrap over the "foot" of the hand cart. Depending upon the soil types encountered and the quality of the concrete floor, the hand cart has been able to collect soil samples to depths of 30 feet below the concrete surface.

The probe is mounted on two rubber, inflatable tires and can easily pass through any opening measuring at least 33" wide and 60" high. The probe height fully extended is a minimal 97", leaving plenty of room in even the most confined spaces. Maneuvering this probe around the interiors of buildings takes just one person (two persons required to load and unload). The probe pushes 36" rods and utilizes the technologically advanced Dual Tube sampling system for continuous, discrete sampling to depth with no slough or cave-in.

A remote power supply (Figure 2) is used to power this unit for reduced noise, emissions, and space requirement. The hand cart is connected to this hydraulic pump via two sets of 65-foot hoses. These hoses can be interconnected in order to give our probes a total of 130-feet of hose length inside buildings.

Direct Push Analytical can install up to 1" monitoring wells through the Dual Tube sample rods upon completion of the boring. Depending upon available overhead clearance when inside buildings, 5- or 10-foot lengths of PVC well materials can be used.



Figure 2: Handcart Hydraulic Pump



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