



PRODUCT INFO:

Dry soil core sample comparisons

There are 4 main types for cores in dry soil; the Push-Tube, the Split-Tube, the modified Gouge and the Core-Tube. See info following and attached.

1. Push-Tubes is a thin walled tube (steel or stainless steel) with one end sharpened and the other end has holes drilled into sides to attach it to a drive adaptor that attaches to our extension rods and slidehammer. These come in 50mm or 62mm or 75mm nominal diameters and in lengths to suit sampling (normally 50mm – 300mm sample length). Pros: cheaper, easier to drive in, can cap ends to transport sample. Cons: More susceptible to cutter damage, sample can be difficult to remove from tube.
2. Split-Tubes is a heavier stainless steel tube that is cut in half lengthwise by a laser cutter to minimise loss of diameter and has threaded ends for the core cutter one end and drive adaptor on the other end. They come in one size only, 40mm diam x 350mm sample size. Pros: can do multiple samples using one sampler tube, stronger, replaceable cutter, easy removal of sample. Cons: more difficult to drive in (thicker cross-section), only one size, more expensive, hard to repair if damaged.
3. Modified Gouge is a stainless steel tube with the side cut away and is shaped into a taper. The original Gouge was made for wet sediment or mud sampling and a shorter version is now used for some dry soils. Only one size, sample is 33mm diam. at bottom and 40mm diam. at top and 350mm long. Pros: simple to use, easier to pull out due to taper, can see full sideview of sample. Cons: can twist (bend) tube in hard soils, only one size, hard to repair if damaged.
4. Core-Tube is a stainless steel tube similar to the split-tube but not split and has a removable sample liner inside which can be stainless steel or hard clear plastic. Two sizes: 40mm x 300mm sample or 48mm x 300mm sample. Pros: can do multiple samples, can transport samples inside the tubes, has replaceable cutter. Cons: Is the most difficult to drive in (biggest cross-section), plastic tubing can be slow to get (imported), end caps for small samples are hard to get in small quantities.