

Adjustable Rod Holder For 1.25- and 1.50-inch Probe Rods P/N: 27216

Background

Dual tube sampling involves tripping a tool string in-and-out of a larger-diameter outer casing. The adjustable rod holder provides a means of supporting the inner tool string within the outer casing. This enables the operator to let go of the tool string to add or remove rods without dropping the tools downhole.

Applications

The adjustable rod holder is designed to secure 1.25- or 1.50-inch outside diameter (OD) probe rods within an outer casing of 2.25-, 3.25-, 3.5- or 4.5-inch OD probe rods (Figs. 1 and 2).

Installation

The rod holder may be used to lower the inner rod string downhole as well as to retrieve the rods from the outer casing.

When lowering the inner rods downhole, first place the rod holder on the outer casing. Lightly step down on the rod holder handle to pivot the jaws open (Fig. 3). Insert a probe rod into the holder and lower it 2 to 3 feet (0.6 to 0.9 m) downhole. Release the handle to grip the rod with the holder jaws. Adjust the handle angle as described in the following section to maximize grip on the inner rods.

The side of the rod holder is slotted to enable the operator to slip the holder over the inner rod string (Fig. 4). Install the rod holder by first holding the handle down to open the jaws. Now place the holder over the inner rods and onto the outer casing. Adjust the handle angle as described in the following section to maximize grip on the inner rods.



Figure 1: Adjustable rod holder installed on a 2.25-inch outer casing.

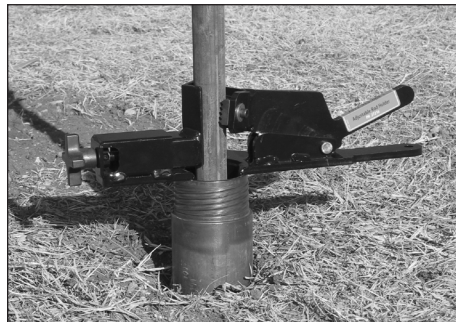


Figure 2: Adjustable rod holder installed on a 3.25-inch outer casing.



Figure 3: Lightly step on the holder handle to open the rod holder jaws.

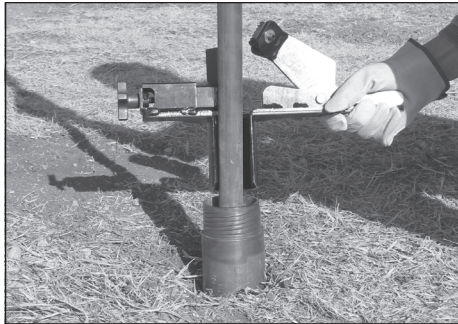


Figure 4: The side of the rod holder is slotted to provide easy installation over the inner rod string.

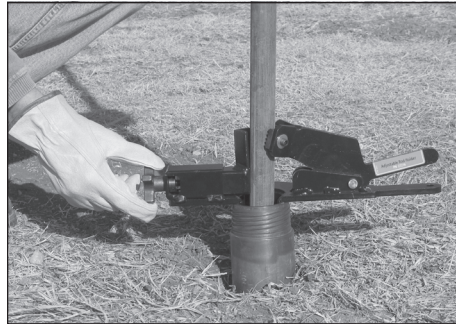


Figure 5: Turn the adjustment knob to vary the jaw angle for new or used rods.

Adjustment

Differences in the surface of new and used probe rods have an effect on the amount of grip provided by the rod holder. The angle at which the jaws of the rod holder contact the probe rod is adjustable to compensate for these differences. Simply rotate the adjustment knob (Fig. 5) to vary the jaw angle to match the condition of your rods (Fig. 6).

Figure 6 illustrates the recommended positions of the rod holder handle for new and used probe rods. Setting the rod holder in these configurations will maximize grip on the inner rods while maintaining an easy release when it is time to disengage the rod holder.

Note that the handle is approximately vertical for new probe rods. Used probe rods require a greater angle between the jaws and rod. This is provided by moving the angle bracket inward with the adjustment knob.

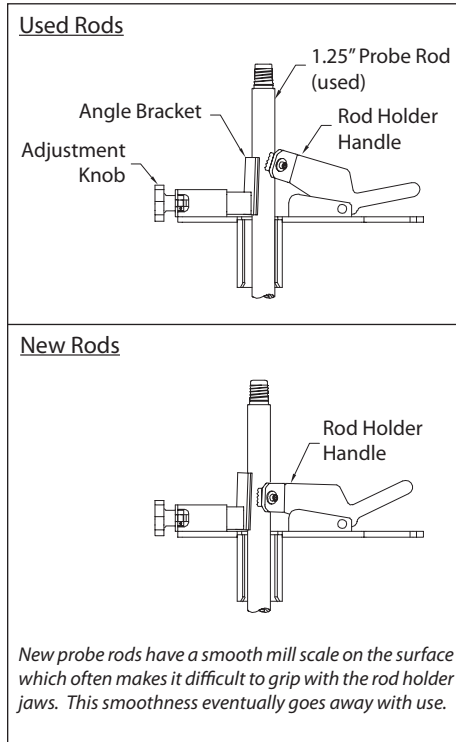


Figure 6: Adjust the handle angle to provide maximum grip at the holder jaws.

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