



MHL Specifications and Installation

Simplified Mine Instruments



MHL Specifications

- Made in America
- Single-point rock movement monitor with a 12" reflectorized drop flag, visible from great distances.
- .Thousandths of an inch measurements retrievable at the instrument with the use of a dial gauge.
- Non corrosive materials
- Designed to install quickly and is easy to use by all.
- 1-1/2" diameter hole minimum.
- Unlimited monitoring depth.
- User set trips, Resettable and adjustable



MHL INSTALLATION

1. Determine the required depth from the mine roof to your anchor point.
2. Layout the MHL collar device and the rods on a flat surface and cut the fiberglass rod to achieve the depth if different from the ordered length.
3. Make sure the length of the Flat anchor is $\frac{1}{4}$ " longer than the drill hole diameter.
(For example...a 1- 5/8" diameter hole should have a 1-7/8" long flat anchor. Etc.)
4. Crimp the rods together and attach to the collar device.
5. Insert into the borehole anchor first.
(Continue to push the unit up the hole until the trust pins are inside the borehole.)
6. Use a $\frac{1}{4}$ " Allen wrench to extend the thrust pins by putting in the middle hole and turning clockwise.
7. **Remove the Silver stop collar on the red slotted rod.**
8. Adjust the red slotted rod to set drop flag trip distance (see figure 1)
9. Take an initial base reading with the dial gauge (sold separately) and keep in your records.

Best Practices:

1. Drill 1 to 2 feet past your desired monitoring distance. This prevents clay packing or other possible issues from interfering with the monitoring rod insertion
2. Make sure you are anchoring in solid Rock. If anchoring in a clay seam or loose shale, contact SMI for possible solutions
3. If the monitoring rod becomes difficult to push up the borehole, lightly tap the end of the rod with a dead blow hammer or similar device.

Figure 1

