

Alison's DIY Draw Pull

Materials needed

[Bolted down bench vise](#)

[Vice Grips, pointed locking vice grips](#)

[Eye bolt](#) that fits into the end of the vice grips, replacing the screw that tightens the jaws.

Note: the size of the eye bolt will vary with the size of the vice grips. I recommend taking your vice grips to a local hardware store and find one that screws in, Grainger has them too.

Here's an example: <https://www.amazon.com/Stainless-Steel-Plain-Eye-Bolt/dp/B01AYI5WBE>
Winch- The winch can be purchased online or at a hardware store, it doesn't need to be ultra heavy duty. \$25 to \$50 range for a manual hand winch. McMaster-Carr has a good selection. <https://www.mcmaster.com/hand-winches/hand-winches-for-wire-rope-for-lifting-7/>
Extra bolts for winch

Optional:

Scrap piece of wood to secure winch to. This allows you to clamp it down and move it once you're done. Note: make sure handle has free movement.

[C clamps](#) You'll need to measure the item you're bolting down and your table top.

To make:

1. Bolt the winch to either your benchtop or scrap piece of wood.
 1. If using the wood, then use a couple C clamps to attach firmly to the bench for use.
2. Make sure that there is end a 4 to 5 foot distance between the bench vise and the winch.
 1. The longer distance gives you options to draw a longer piece.
3. Unscrew the screw on the vice grips and screw in your eyebolt.
4. Clip the winch hook end of the winch into the eye bolt.

To use:

1. Secure your tubing drawplate into your bench vise.
2. Use burlife, beeswax or another lubricant that you use for your saw, on the metal that you are drawing.
3. Grab the tapered part of your tube in the vice grips.
4. Turn the winch handle to pull the vice grips back toward the winch, pulling your tubing through the drawplate! Voila!!
NOTE: make sure your winch and your bench vise are firmly secured before using.