

How to build the Smartpuller in pictures

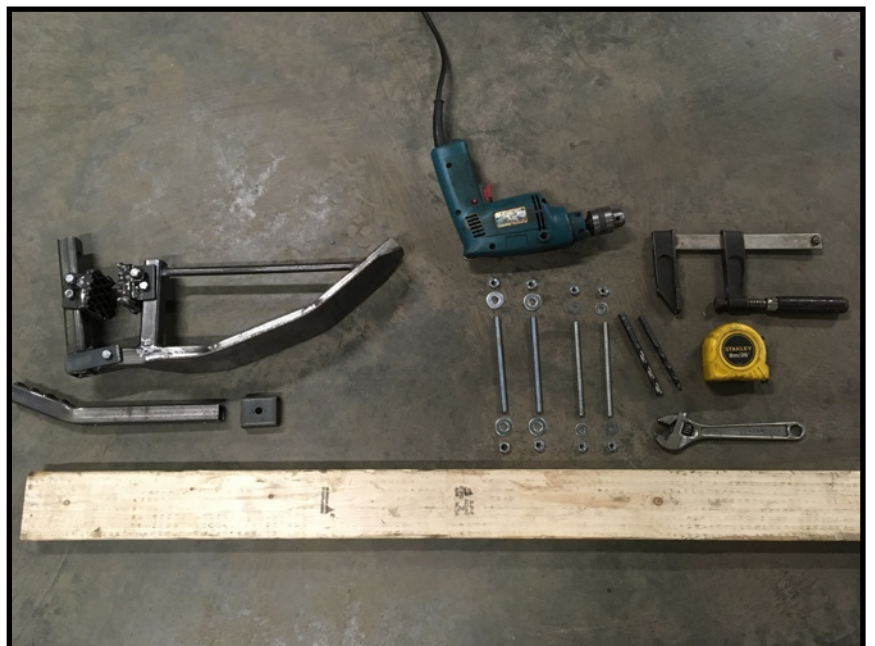
The Smartpuller is shipped this way, it has three pieces: The handle, the protecting plate and the base.

The tools you will need to build it are:

- A 3/8" drill and drill bits 5/16" and 3/8".

- A piece of standard construction 2 by 4 the length that the operator wants (Usually chess height), bolts (5 1/2" long) nuts and washers 5/16" (2) et 3/8" (2). All threads do a very good job for this.

- A 6 in. "C" clamp ,measuring tape, wrenches 5/16" et 3/8".



A 2 by 4 is used for many reasons: Cost of shipping is minimal, the operator choses the length he wants, it's light, strong and standard throughout North America.

Before beginning, make sure the 2 by 4 is square. Make a mark at 8 inches from the end of the 2 by 4 on the 1 1/2 in. side on all four sides from the end.



Install the handle by the mark previously made and centered on the 2 by 4 being held with the "C" clamp.

Use the handle as a jig to drill through the 2 by 4 only up to half of it using the 5/16" drill bit. Then transfer the handle on the other side of the 2 by 4 and do the same operation.



Now drill these holes all the way through with the 5/16" drill bit.

Repeat these operations at the other end of the 2 by 4.

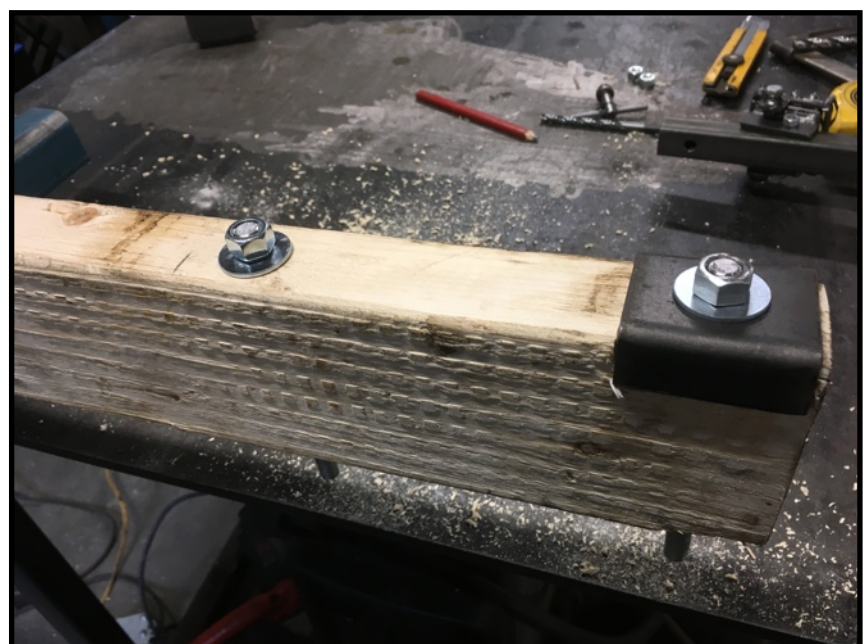
Choose the better end of the 2 by 4 and enlarge the holes with the 3/8" drill bit.



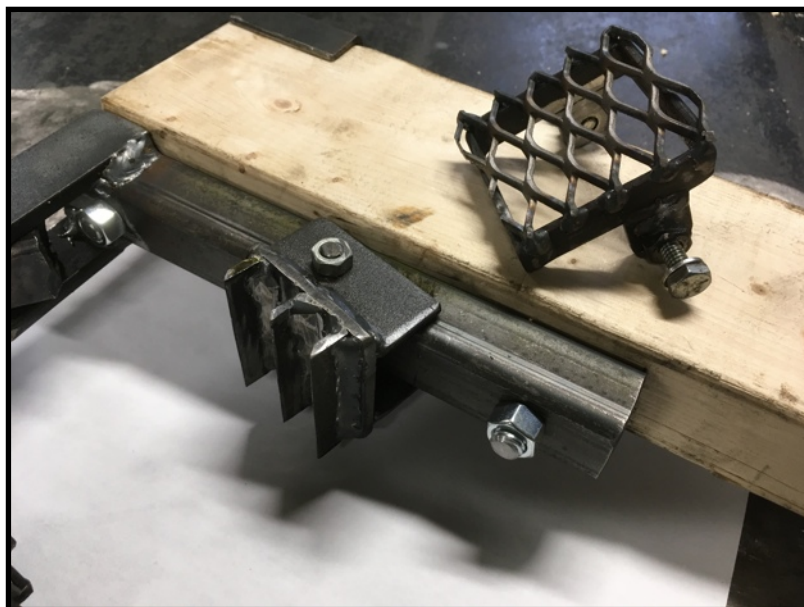
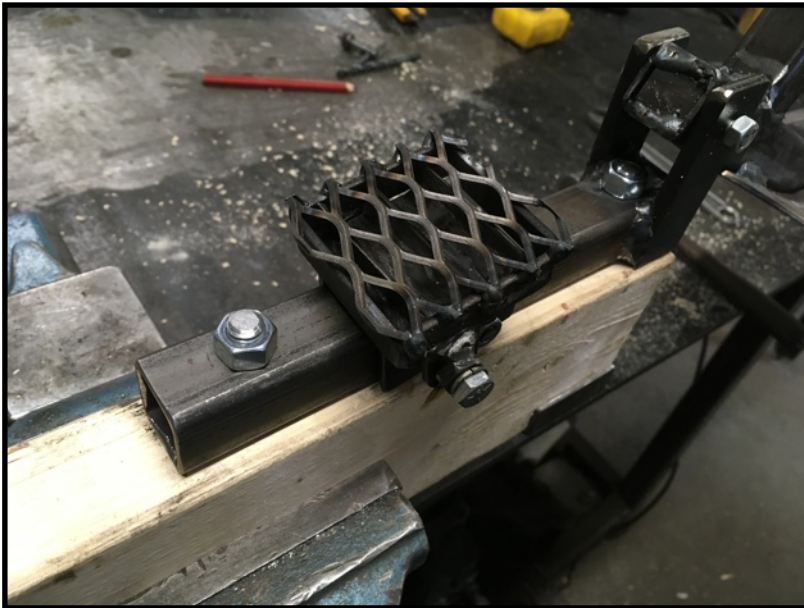
The kit contains a protective plate, it is used to keep the 2 by 4 from splitting under excessive force exerted on the handle.

Install this plate at the end with the 3/8" holes along with the bolts and washers and nuts.

Install the base and tighten the bolts.



Install the handle at the other end with the 5/16" bolts, washers and nuts.



The Smartpuller has two sets of jaws, one of them is removable. The ones that are removable are to pull out small saplings, the one underneath are for bigger trees. Most of the time you will probably end up using only the saplings jaws, they will become clugged after a while, just take them off for cleaning.



This tool seems laughable made out of a construction 2 by 4 but don't get fooled, it is extremely efficient with buckthorn!

For more information, contact Pierre Ménard at vispieux@gmail.com.

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