



Ergonomic Adjustable Handle for ANY Tool



Cameron

[VIEW IN BROWSER](#)

updated 2. 4. 2024 | published 2. 4. 2024

Summary

This adjustable handle can be added onto any workshop tool. For those with dexterity issues, or to add grip/precision.



17.20 hrs



2 pcs



0.15 mm



0.40 mm



PLA
PET



124 g



Prusa
MK3/S/S+

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Tags: [opener](#) [tool](#) [open](#) [handle](#) [hand](#) [shovel](#) [drill](#)
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This versatile and adjustable handle can be attached to almost any workshop tool, to add extra grip or improve dexterity.

Simply place the loop around the object of your choice, and turn the screw to tighten the loop around the object.

This handle is extremely adaptable and versatile. Possible uses include:

- For those with mobility or dexterity troubles
- Attach it to a soldering iron for improved precision and dexterity
- Attach it to drills or other tools for better control
- Can be placed on a snow shovel to give better power and grip
- Stabilizing handles for tools
- Attach it to a door to turn a circular door handle into a lever-action door handle
- Can even be used to open jars and lids!

Printing Instructions:

All pieces are designed to be printed easily with no supports, in any material. PETG and PLA both work well for all pieces. For more grip, print the LoopTPU file in TPU to place between the loop and the object.

All pieces work well at 15mm layer height and 15% infill.

1. Handle Body: Print as shown in the Prusaslicer screenshot, with the handle horizontal (for best strength) and the finger grooves facing outwards (facing the X or Y direction). Can also be printed vertically for better aesthetics.
2. Handle Screw: Print horizontal on the bed, with the flat part of the screw facing down on the bed.
3. Handle Loops: Print flat on the bed as shown in the Prusaslicer screenshot. Though many sizes of loops are provided (extra small to extra large), each loop can be tightened down to approximately half it's original size, giving lots of flexibility in sizing. Most objects would need small or medium size.
4. If you have TPU filament, you can add extra grip to the loop by printing the LoopTPU file.

Assembly Instructions:

- Place the loop around the object that you want to attach the handle to. (Note: Loop is designed to open up to accommodate different shapes)
- Insert the base of the loop into the handle
- Optional: Add the LoopTPU piece to the loop for extra grip
- Insert the screw and turn to tighten the loop against the object

Other Notes:

The loop can split at the bottom if you want to put it on an object with an hourglass shape that has a wider top and bottom than the loop.

Loop sizes:

- Extra small: ~ 30mm diameter (good for small screwdrivers, soldering irons, etc.)
- Small: ~ 50mm diameter (good for medium screwdrivers, shovel handles, etc.)
- Medium: ~ 70mm diameter (good for drills)
- Larger: ~ 90mm diameter (for larger objects and tools)
- Extra large: ~ 100mm diameter (for larger objects and tools)

In general, a small and medium loop will suit the majority of your purposes.

Model files



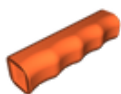
handle_looplarge.stl



handle_loopextralarge.stl



handle_loopmedium.stl



handle_base.stl



handle_loopsmall.stl



handle_loopextrasmall.stl



handle_screw.stl



handle_looptpu_short.stl



handle_looptpu_long.stl

Print files



allpieces_015mm_petg_mk3s_8h35m.gcode

⚙ PET ⚙ 0.40 mm ⚙ 0.15 mm ⌚ 8.58 hrs ⚖ 63 g 🖨 Prusa MK3/S/S+



allpieces_015mm_pla_mk3s_8h37m.gcode

⚙ PLA ⚙ 0.40 mm ⚙ 0.15 mm ⌚ 8.62 hrs ⚖ 61 g 🖨 Prusa MK3/S/S+

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