KLIPPT - Locking Cable Clip

bequ3

VIEW IN BROWSER

updated 27. 11. 2023 | published 27. 11. 2023

Summary

Universal cable fixture for under desk mounting

Household > Office

Tags: cable desk cablemanagement cableholder cableclip cableguide cableorganizer

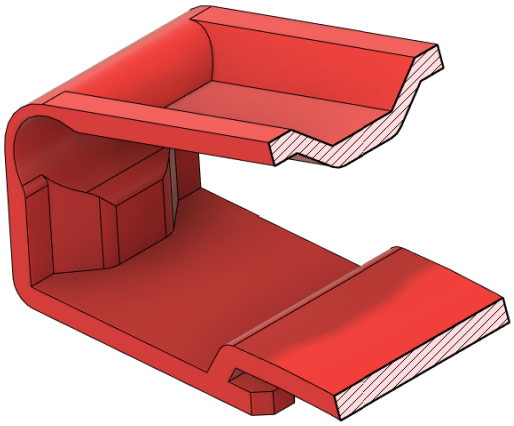
We are thrilled to announce the release of our successor to KLAMMA, the culmination of countless hours of design work and dedication. This new version represents a significant milestone in our journey, building on the strong foundation established by our previous iteration on our path to excellence. Our team of experts has meticulously designed and prototyped every aspect of this latest version to bring you an unparalleled user experience. With cutting-edge features and improved functionality, we are confident that you will love this new version and enjoy its enhanced capabilities. Thank you for considering KLIPPT.

Key Features

The previous version marks a milestone in the development process where roughly 30% of the design was done. The main shortcoming was, that there is no clean and easy way to affix the clips using screws. The upgraded version overcomes this issue while keeping all beloved features from the original.

Sturdy Design

An embossed middle section stiffens up the lever part and makes the thinner hinge section the definite bending point.



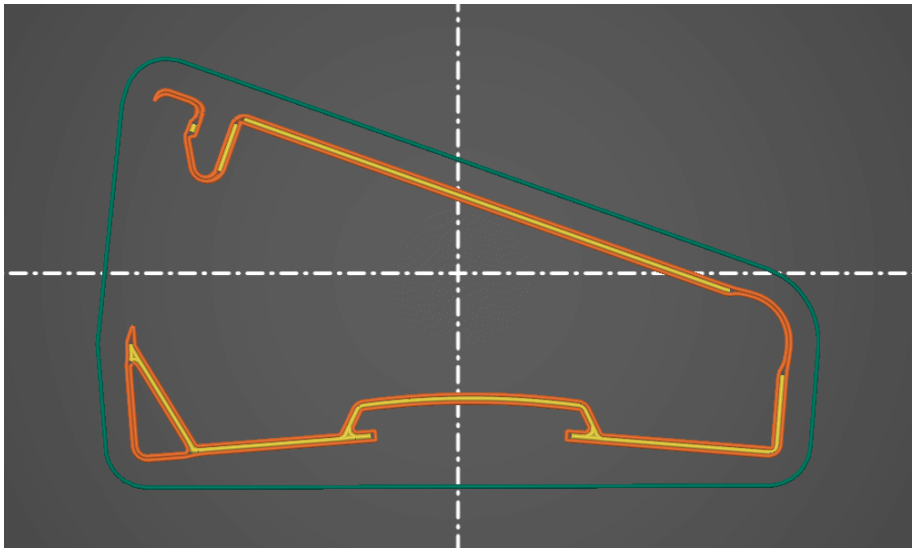
Strong Locking Mechanism

In comparison to most other designs this one has a compliant latching lug. The thickened grip section makes the latch easy to unlock, but even heavier cables won't force it open. In tests the lock of a klippt-cable-clip-large handled **3 kg** easily.

Fast and Easy to Print

A consistent perimeter thickness over the prints z-span assures a smooth overall finish. All layers consist of long print paths that reduce retraction moves to a minimum. All overhangs are 50 degrees and print fine even for greater layer heights (around 75% of nozzle width). Small gaps only occur

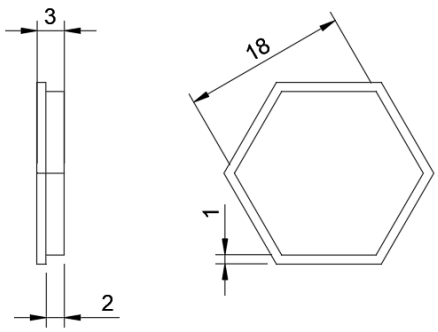
at the base clamp feature and could theoretically be addressed - sacrificing some stiffness - by setting the perimeter count to two.



Various Mounting Options

The separate base plate allows for a multitude of mounting options. When I started working on this model, I did due to the lack of available adhesive options. The experience on KLAMMA made me soon realize, that many users do prefer a screw version. I came up with the separate base plate and over many iterations finally achieved a reliable design. Choose between my original versions **klippt-screw-base** and **klippt-base-for-tesa-powerstrips** or klippt-base-for-3m-vhb by trudslev. The latter two are named so specifically because the thickness of the adhesive tape has to be compensated with an inset bottom face (e.g. 0.65 mm for tesa powerstrips).

Find below the relevant dimensions to design your own custom base plates. It is advisable to add a small fillet to all vertical edges to prevent high spots.

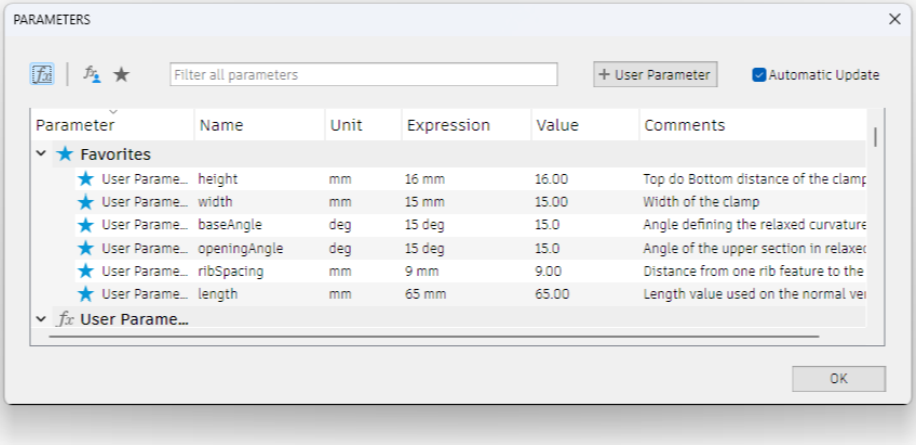


Scale on Demand

With the separate mounting plates you can **exchange** one KLIPPT for another. This comes in handy when you add or remove cables.

Parametric Source File

Find the attached Fusion 360 file with neatly organized user parameters to customize e.g. **width** and **length**. Be aware that the geometric constraints used in this model are a challenge for Fusion to solve. Especially the hinge sketches tend to get stuck when changing length. When you get an error, close the Parameters dialog, undo and try again in smaller increments.



Print Instructions

The compliant hinge will work best with **PETG**, but ABS, ASA or even PLA will work as well but may break if open/close-cycled too often.

This model is optimized to be printed with a **0.4 mm nozzle** using the **Arachne** slicing Engine.

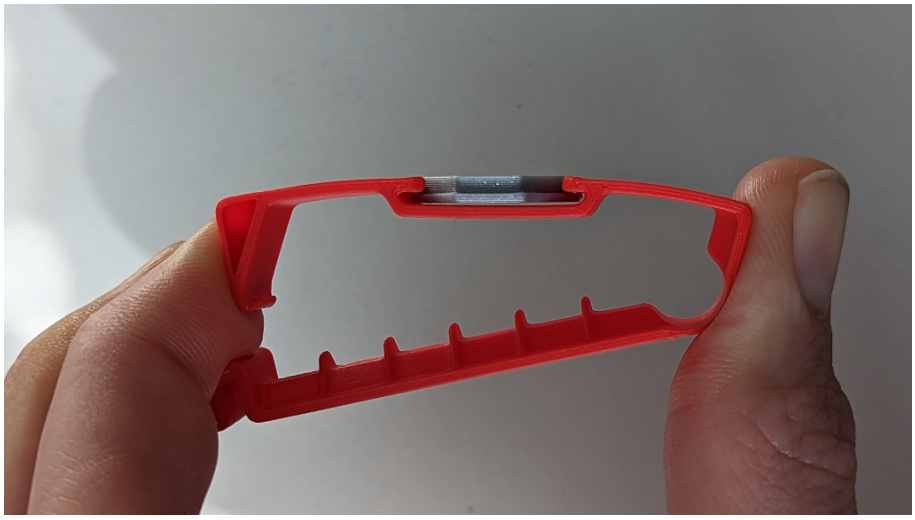
Additionally Required Hardware

The screw base requires a 4 mm or less 90 degree **counter-sunk screw**. The Powerstrip version is meant to be affixed using a 10 x 10 mm section of a **Tesa Power Strip.**

Installation

The base locking mechanism has end-stops on one side, identify the side with the smaller nibs. To slide a clip on it's base, open the latch and

compress the bottom part by applying force, so that the middle section is straight. Then slide the clip onto the base plate.



Troubleshooting

This model is for sure no easy print! On a well calibrated printer it will most likely work out of the box, but elephant foot, skew, over- or under-extrusion may interfere with the design features.

The clip won't stay closed

The closing mechanism requires the base to be installed to the clip. The large size will most likely keep closed even without it, but the medium and small sizes for sure will not and are not intended to do so. If your prints still won't stay closed this may due to the geometry of the design. A small deviation in the base width makes a big offset at the latch. The easiest fix for this is so increase the X/Y scale factor by 1% when printing the base.

The clip won't slide onto it's base

The mounting feature of the clips are an arc section at rest. When completely straight, the locking nibs provide a tight fit with the base. Be careful that you apply the right amount of force. The opening will get shorter again when overbend.

Related Models

- Parametric Cable Grommet by Blizzard
- FÄSTA - Parametric Mounting Bracket

Similar Solutions

- Cable Organizer / Routing Hook - Various Sizes by Lucky Resistor

- Locking cable mounts by MTZD

This remix is based on

KLAMMA - Locking Cable Clip
by bequ3

Model files

klippt-cable-clip-small.stl

klippt-cable-clip-medium.stl

klippt-cable-clip-large.stl

klippt-screw-base.stl

klippt-base-for-tesa-powerstip.stl

klippt-cable-clip-small-smooth.stl

klippt-cable-clip-medium-smooth.stl

klippt-cable-clip-large-smooth.stl

klippt-cable-clip-20230405.f3d

License