Printables by JOSEF PRUSA



VICEGRIPTOR | Doesn't want to let go

Svengineer

VIEW IN BROWSER

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Summary

The VICEGRIPTOR is a clever print-in-place gadget with a self-locking over-center mechanism.

Hobby & Makers > Organizers

Tags: organizer tool functional hook print hanger clip dinosaur dino fidget mechanism printinplace gadget easy peg click snapfit clamp quick printable utility clips edc locking vicegrip

Meet the VICEGRIPTOR!

The strongest 3D printable clip at it's size. Zero assembly, zero supports, just functional design.

You never would have thought you needed this, but now you do. The VICEGRIPTOR is a clever, print-in-place gadget with a self-locking mechanism that grips like a vise and releases with a simple flick.

Whether you need to hang clothing, secure cables, or clip something to your bag, the VICEGRIPTOR offers a very strong grip and a satisfying mechanical snap when closing. Try for yourself!

How to Print/Use

1. **Download & Slice**
   Import the STL or 3MF file directly into your slicer. No supports are needed. Recommended settings:
   - 0.16 mm layer height
   - 3 Walls → Inner-outer-inner
   - Arachne
2. **Print**
   Works well in **PLA** and **PETG**.
   Orientation is optimized for strength and smooth movement.
3. **Lock & Load**
   Once printed, pinch the handles slightly to test the locking action. The jaws should close and hold firmly. The snapping effect and clamping force become stronger when thicker materials are being clamped

- If your VICEGRIPTOR prints with sections fused together, little clamping force on the handle will sometimes snap it loose.
- In case it breaks when forcing the handle, use one of the provided models with wider clearance on the hinges.
- **Hinge clearance is embossed inside the lower handle of each model, for easy reference after printing.**

Unique Features

- **Print-in-Place Design**
  Single piece print with built-in hinges and latch mechanism. No assembly required.
- **Locking Vice-Grip Mechanism**
  Self-locking clip design for quick, one-handed use.
- **Versatile Use Cases**
  Ideal for hanging tools, bags, cables, keychains, or EDC gear.
- **Optimized for 3D Printing**
  Requires no supports, no cleanup, and works great on a wide range of FDM printers.
- **Parametric Feel, Compact Form**
  Precision-modeled with tight clearances to create smooth motion. Versions with larger clearances are also included.

Changelog

v1.0

- This is the initial release of the VICEGRIPTOR 3D model.
- Print-in-place hinges and over-center locking mechanism design.

- Design optimized for FDM printing, without support.
- Dual color and and single color models are included.
- Models with 0.10mm, 0.12mm, 0.14mm and 0.16mm clearance are provided.
- Tested on Prusa XL & MK4 with PLA
- Tested on X1C with PLA, PETG and ABS
- Tested on H2D with ABS and ASA

Model files



vicegriptor10.stl

0.10 mm hinge clearance



vicegriptor12.stl

0.12 mm hinge clearance



vicegriptor14.stl

0.14 mm hinge clearance



vicegriptor16.stl

0.16 mm hinge clearance

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