



## Pencil



MMM

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## Summary

Revolutionize DIY with my Mechanical Carpenter Pencil - ergonomic, precise, and portable.

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## Mechanical Deep Hole Carpenter Pencil

Introducing the Mechanical Deep Hole Carpenter Pencil, meticulously crafted with precision and functionality in mind for the DIY community. Engineered for comfort during prolonged use, its triangular shape effortlessly nestles between your fingers, ensuring a secure grip. Enhanced with knurling along its surface, this pencil delivers optimal control for precise markings on various surfaces.

This thoughtfully designed model comprises five distinct components, each tailored for ease of assembly and enduring durability. The main body forms the sturdy foundation of the pencil, while the slim tip facilitates

marking even in narrow, deep holes. A conveniently positioned button enables seamless lead adjustment, akin to the mechanism found in utility knives.

A durable carry case with a robust clip is included, facilitating effortless transportation and accessibility when secured to your working trousers.

Experience the seamless fusion of ergonomics and practicality with the Mechanical Deep Hole Carpenter Pencil 3D Model, revolutionizing your DIY endeavors with unmatched precision and convenience.

### **Prerequisites:**

- 2.8mm lead refill
- Sanding paper

### **Print Instructions:**

- All components, except for the case, should be printed with a layer height of 0.12.
- The case can be printed with a layer height of 0.2.
- Print the models standing and utilize a brim to prevent them from toppling during printing.

### **Assembly Instructions:**

1. Insert the tip into the body through the top opening and push it entirely through the body until it emerges from the bottom. Then, twist the tip counterclockwise to secure it with the integrated thread.
2. Take the button and sand down the layer lines on the backside of the button. Apply some graphite from the pencil lead onto the sanded surface to ensure smooth gliding of the button within the pencil.
3. Secure the end of the lead in the hole of the button and assemble it into the body until the lead protrudes from the tip of the pencil.
4. Screw on the cap at the top, and your assembly is complete.

### **Please also check out my other designs**

<https://www.printables.com/model/847996-flower-shaped-floating-can-cooler>



<https://www.printables.com/model/828068-cable-mount-in-various-sizes>



# Model files



**alternative\_buttons**

2 files



**button\_2\_8.stl**



**button\_2\_9.stl**



**body.stl**



**tip.stl**



**cap\_slim.stl**



**button.stl**



**case.stl**



**cap\_big\_for\_case.stl**



case\_no\_text.stl

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