

# Felting Needle Holder

## MAKER GUIDE

## Overview

This document contains the necessary information to build a Felting Needle Holder.

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### Maker Checklist

This list provides an overview of the steps required to build and deliver the device.

### Maker To Do List

- ☐ Read through the Maker Guide to become familiar with required components, tools, supplies, and safety gear and overall assembly steps.
- ☐ Talk to User about customization options (e.g., color, any special requests, etc.)
- ☐ Gather tools, supplies, and safety equipment.
- ☐ Assemble the device
- ☐ Test device
- ☐ Print “User Quick Guide”

### Items to Give to User

- ☐ Assembled, tested device
- ☐ “User Quick Guide”

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### Tool List

No tools are required.

### Customization Guide

Different portions of the Felting Needle Holder can be printed in the user's desired colors.

The Top and Bottom can be printed with a fuzzy setting on the outside to make them more grippy.



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### 3D Printing Guide

#### 3D Printing Summary

Metrics	V1.0
Total Print Time (hr:min)	4:00
Total Number of Components	4
Typical Total Mass (g)	35
Typical Number of Print Setups	1

#### 3D Printing Settings

Print File Name	Qty	Total Print Time (hr:min)	Mass (g)	Infill (%)	Support (Y/N)	Layer Height/ Nozzle Diameter (mm)	Notes
FNHB50_Top.stl	1	0:30	13	15	N	0.2/0.4	-
FNHB50_Bottom.stl	1	0:30	14	15	N	0.2/0.4	
FNH_Connector.stl	1	0:11	4	15	N	0.2/0.4	
FNH_Cover.stl	1	0:20	7	15	N	0.2/0.4	

The Top and Bottom can be printed with a fuzzy setting on the outside to make them more grippy – check the settings for your slicer.

#### Post-processing






- ☐ Check for any bits of loose filament or sharp edges.
- ☐ Check to make sure the Cover threads into the Bottom cleanly.
- ☐ Check that the Connector threads into the Bottom.
- ☐ Check that the Connector threads into the Top.

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### Assembly Guide

#### Part A: Components

<b>A1</b>	FNHB50 Bottom	QTY 1	<b>A2</b>	Felting Needle	QTY 1	<b>A3</b>	FNH Connector	QTY 1
								
<b>A4</b>	FNH Top	QTY 1	<b>A5</b>	FNH Connector	QTY 1			
								

#### Part A: Tools

- None

#### Part A: Personal Protective Equipment (PPE)

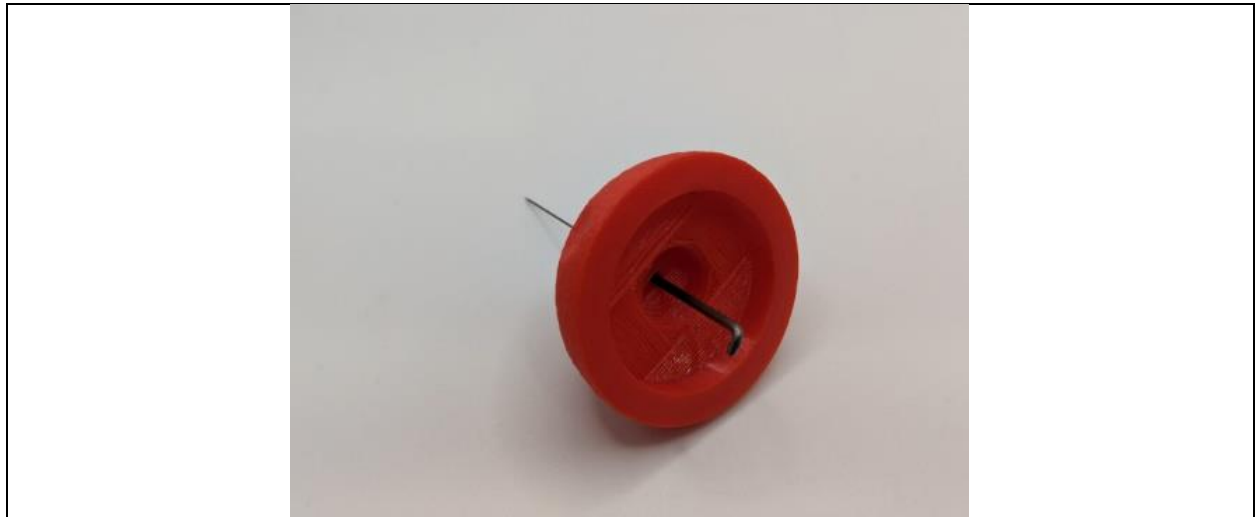
- None

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## Part A: Assembly Instructions

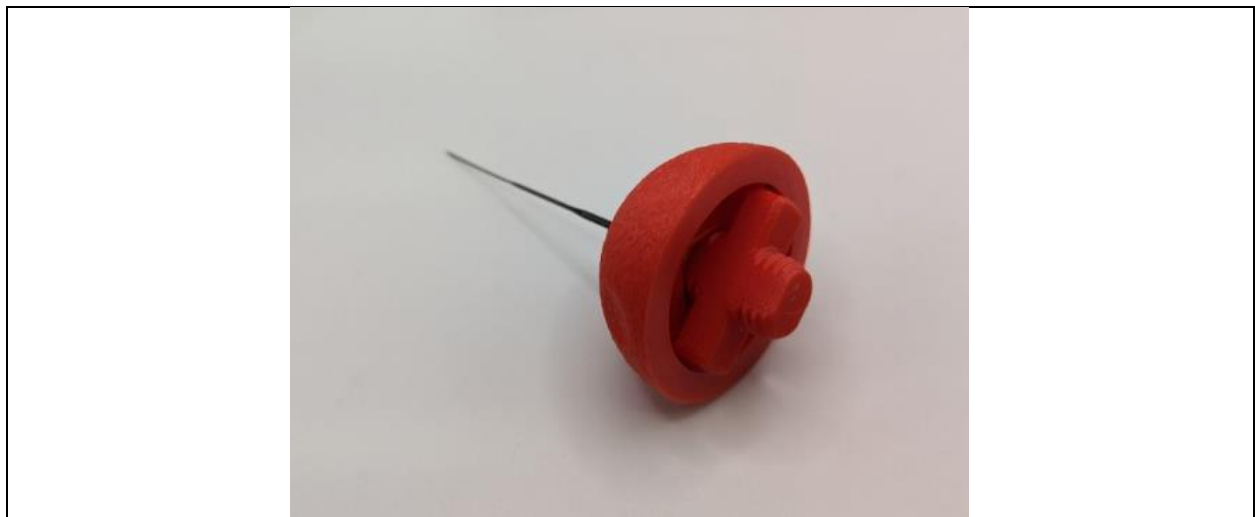
### *Step 1: Insert Needle into Bottom*

Insert the felting needle into the Bottom. Align the bent tip with the depression in the Bottom.



### *Step 2: Thread Connector into Bottom*

Thread the Connector into the Bottom. Rotate it clockwise until snug.



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### *Step 3: Attach Top to Connector*

Attach the Top to the Connector. Hold the Bottom stationary and rotate the Top clockwise with the needle facing away. You can also refer to the lock labels.



### *Step 3: Attach Cover to Bottom*

Insert the needle into the Cover. Tighten the threads into the Bottom.

