Markforged Mark Two: Changing the Fiber Reinforcement Filament

Learn how to change the fiber reinforcement filament on the Markforged Mark Two.

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Introduction

This guide will explain how to change the fiber reinforcement filament for the Markforged Mark 2 printers.

Sources:

- [Markforged Guide: Unload Fiber Desktop](#)
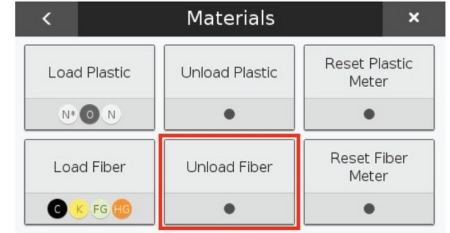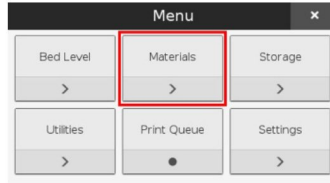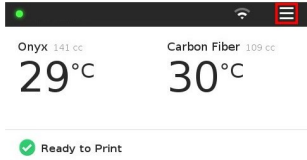- [Markforged Guide: Load Fiber Desktop](#)

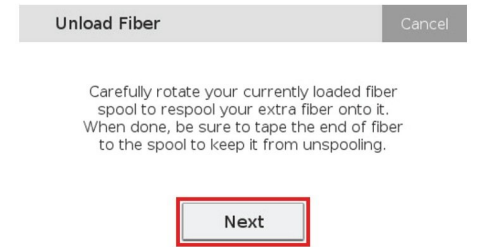Pictures by: Ashley Recklein, Nico Lagendyk

🔧 TOOLS:

- Side Cutter (1)
- Tweezers (1)
- Scale (1)
- Tape (1)

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Step 1 — Unloading Fiber

- Select the **Menu** from the dashboard of the printer

- Select **Materials**

- Select **Unload Fiber**

- Click **Next** to continue

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Step 2 — Unloading Fiber II

- Carefully wind the remaining **fiber** back onto the **spool**

- Tape the end of the **fiber filament** to keep it from unspooling

- Place the spool in the small bronze colored bag with the same fiber name

- Click **Next**

⚠️ Be cautious with spools of reinforcement as careless handling can result in fiber splinters

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Step 3 — Set up Fiber for Loading

- Remove the **spool** from the bag

- If it is a *partial* **spool** weigh it in grams and make a note of it for later

- Carefully unwind two and a half feet of material from the **spool**

- Re-apply the tape to keep the rest of the material from unspooling

- Feed the cut end of the material through the fiber feed tube until it reaches the fiber extruder
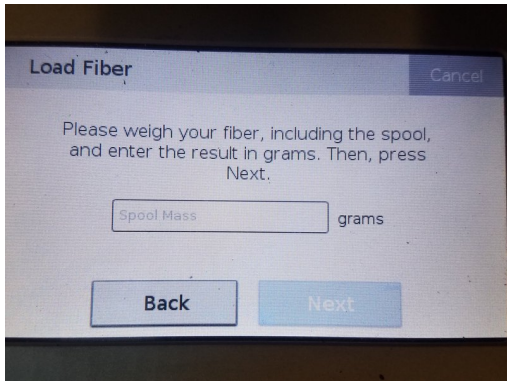
Step 4 — Load Fiber
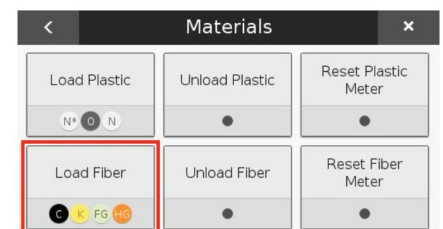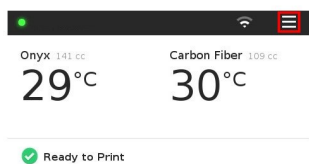
- Select the **menu** icon from the dashboard

- Select **Materials**

- Select **Load Fiber**

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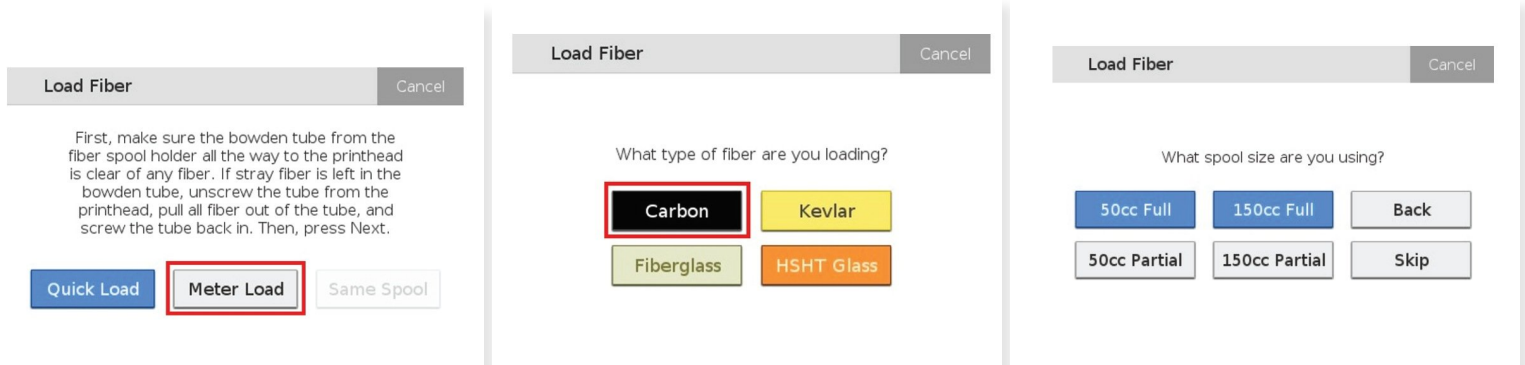
Step 5 — Load Fiber II

- Select **Meter Load** on the printer's touchscreen

- Select the fiber you are loading into your printer

- Select the type of spool you are loading
  - ⓘ This information is on the spool's label as well as its bag label

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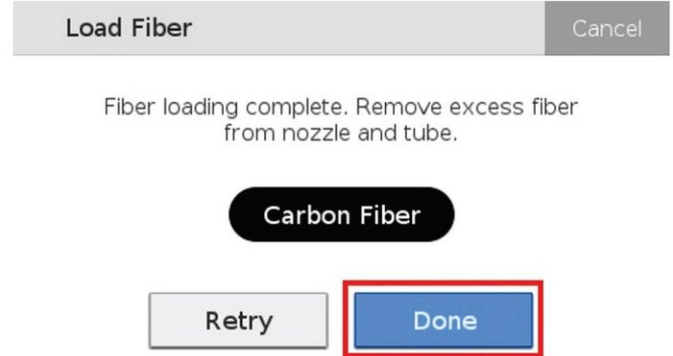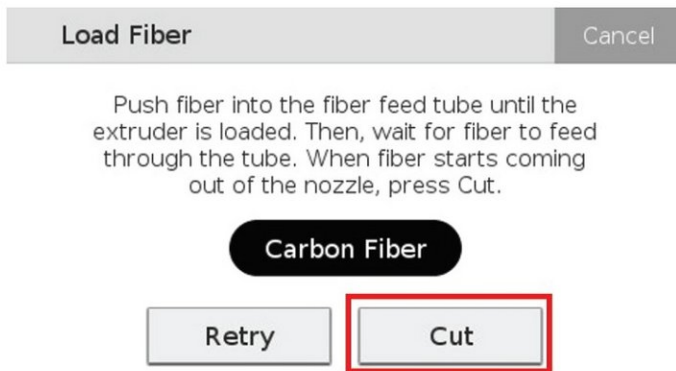
Step 6 — Load Fiber III

- For partial spool's enter in the weight measured before

- Feed the **Fiber** into the feed tube until the extruder catches it

- Place the **fiber** on the **spindle** and attach the magnetic **cap**

- Once under *tension*, remove the **tape**

  ⚠ Releasing the tape before the fiber is in tension will unspool the fiber and could waste material or hurt you

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Step 7 — Load Fiber IV

- Once the fiber is extruding, press **Cut**

  ⚠️ Pressing Cut too soon will likely result in a fiber jam

- Use tweezers to remove the extruded material from the nozzle

- If the routine times out, restart the fiber loading procedure by pressing **Retry**

- Press **Done** on the touchscreen to finish the utility

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