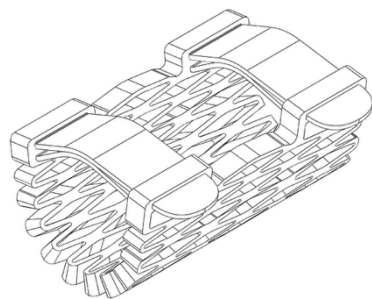


Struxa, Inc. MediMesh Finger Splint

Breathable. Waterproof. Advanced fit from additive manufacturing.

Functional Prototype – V3



Use Instructions

Introduction

The Struxa MediMesh Finger Splint is a lightweight, additive manufactured support designed to stabilize and protect an injured finger while allowing airflow and water exposure. Its open lattice is breathable and waterproof, so it does not need to be removed to dry after washing hands, bathing, or light activity in wet conditions.

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Important warnings

- Do not use on open fractures or visibly deformed injuries unless a clinician has evaluated the injury
- Stop using and contact your doctor if you feel numbness, tingling, increasing pain, unusual coldness, or if the fingertip turns pale or blue
- Do not overtighten straps. The splint should feel snug and supportive without pinching or throbbing
- Children should use the splint only with adult supervision
- If you have poor circulation, diabetes, or fragile skin, check your finger often and follow your clinician's guidance

Precautions

- Confirm the size and model recommended by your clinician
- Check the skin under the splint daily for redness, irritation, or pressure points
- Remove the splint to inspect the skin only if your doctor allows removal for skin checks

Material Info

- This product is made from 100 percent thermoplastic polyurethane TPU produced with additive manufacturing 3D printing

Troubleshooting

- **Straps keep loosening:** Re-route through the second attachment point and retighten. Leave a small tail beyond the channel
- **Pressure spot or rubbing:** Slightly reposition the finger inside the cradle and retighten evenly. If irritation continues, contact your doctor
- **Moisture under the splint:** Rinse and shake dry. Pat strap ends if needed. The lattice allows rapid drying without removal
- **Difficult to insert finger:** Loosen the straps fully, slightly bend the finger, and slide it in from the side before tightening

Quick visual cues

- Base makes even contact along the finger
- No strap twisting or gaps at the channels
- Short strap tails remain for re adjustment
- Fingertip looks warm with normal color

Benefits

- Breathable lattice keeps skin cooler and reduces moisture buildup
- Waterproof materials allow normal hand washing and rinsing
- Slim, ergonomic profile fits comfortably under gloves and sleeves
- Adjustable strap system for a secure, personalized fit

Intended use

- General support for sprains, strains, jammed fingers, stable injuries, or post-procedure protection as directed by a clinician
- Everyday wear during recovery, work, and daily activities as allowed by your clinician
- Always use as directed by your doctor

Fit check after application

- The splint feels snug and comfortable
- The fingertip remains warm and normal in color
- No tingling, numbness, or throbbing
- You can perform approved daily activities without the finger shifting inside the splint

Cleaning

- Rinse with clean water after activity
- Wash with mild soap and water. Use a soft brush or cloth to remove residue from the lattice
- Rinse thoroughly and shake off excess water. The splint air dries quickly and does not need to be removed from the finger to dry
- Do not use harsh solvents or alcohol
- Keep the strap ends free of lint and debris

Storage and handling

- Store at room temperature away from direct heat sources
- Keep out of direct sunlight for long periods
- Do not bend the plastic base sharply or apply excessive force
- Keep out of reach of small children and pets

Maintenance Checklist

- Rinse after exercise or outdoor activity
- Wash with mild soap at least once daily during recovery
- Inspect straps and tabs for wear and replace the product if damaged
- Recheck fit each morning or if swelling changes

Service and Support

For product questions, fit guidance, or warranty requests, contact us at betatesting@atlasproductgroup.com or (720) 459-4087. Please include your name, order number, purchase date, and product SKU. Photos or a short video can help us assist you quickly. We aim to reply within one business day. If you experience severe pain, numbness, or changes in fingertip color, stop using the splint and contact your clinician immediately.

Address:

Struxa, Inc.
8457 East Arapahoe Road
Ste J 531
Greenwood Village, CO 80112

Phone: (720) 647-2561

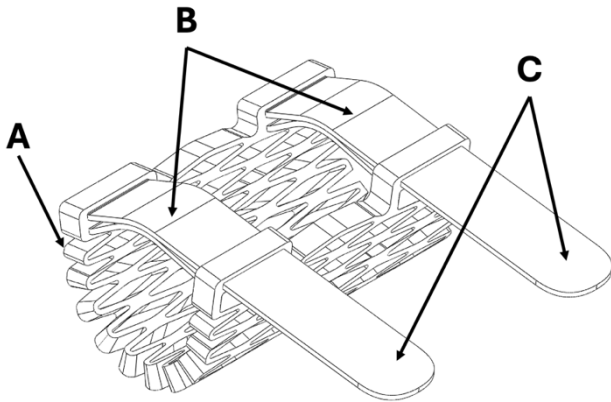
Email: hello@struxasplints.com

Website: struxasplints.com



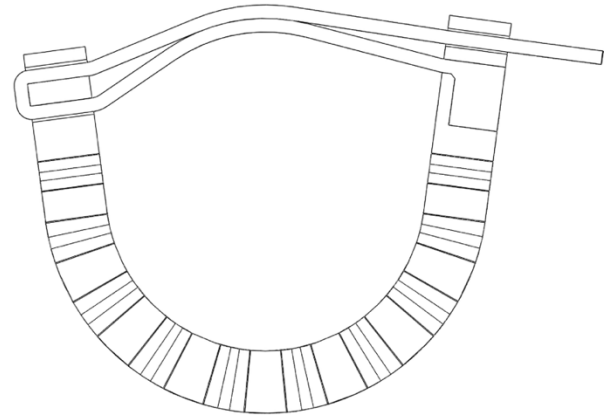
Parts Overview

- **A. 3D printed base:** the rigid support that cradles the finger
- **B. Adjustable straps:** flexible bands that hold the finger against the base
- **C. Tabs:** pull points for tightening



Strap Routing Reference

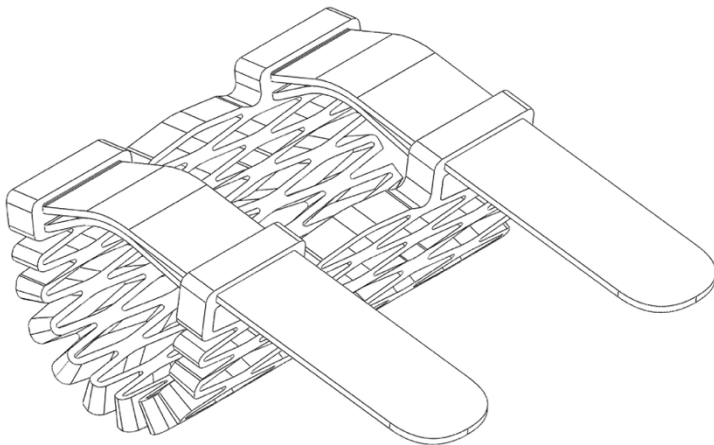
If a strap becomes tangled or undone, use the diagram below as a reference. It shows a cross-section of how the strap should be routed through the connection points and secured. The strap should lie flat, pass cleanly through the channel, and exit with a short tail for adjustment.



Step-by-Step Guide

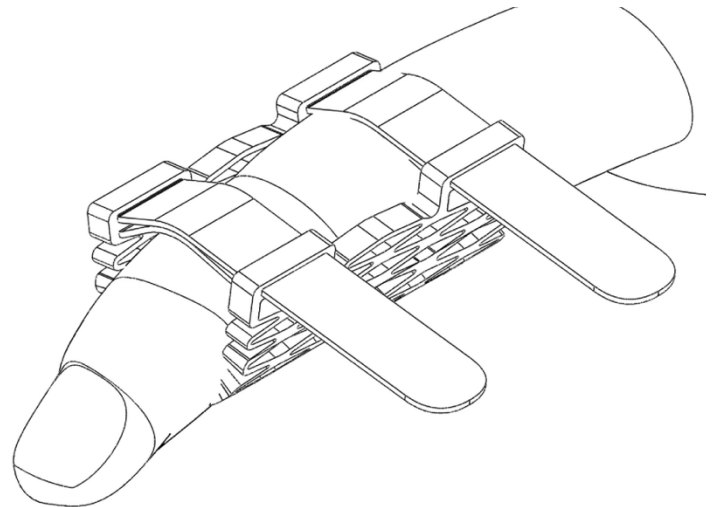
1. Remove from packaging

Take the splint out of the bag and ensure the straps are untangled.



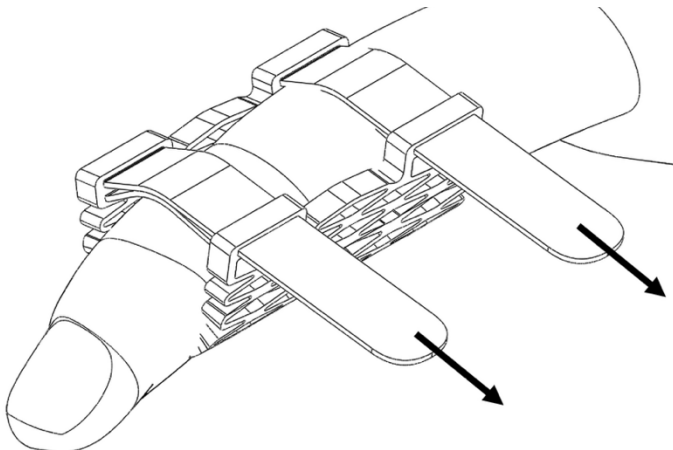
2. Insert your finger

Slightly bend the injured finger. Slide it between the straps and the plastic base so the finger rests comfortably in the cradle. Align the splint as advised by your clinician.



3. Secure with tabs

Pull the plastic tabs on the straps to tighten until the splint feels snug. The finger should not move excessively, and circulation should feel normal.
Tip: Check that you can still feel light touch at the fingertip and that the nail stays its normal color.



5. Trim excess straps

Using scissors, cut off the remaining strap material, leaving a small tail so you can re-adjust later if needed. Use the splint as normal or as directed by your doctor.

