FIXPERTS 2022

HENDLE – Instruction

About

Ofir rides on a Hand-bike and needs support for his left hand while riding.
This brace has been fit specifically to the dimensions of his left hand.
The brace can be adjusted to fit any shape or size hand.
All of the measurements in the manual are in millimeters.

The strap, clip, and thread are all standard materials that can be found universally.

B.O.M

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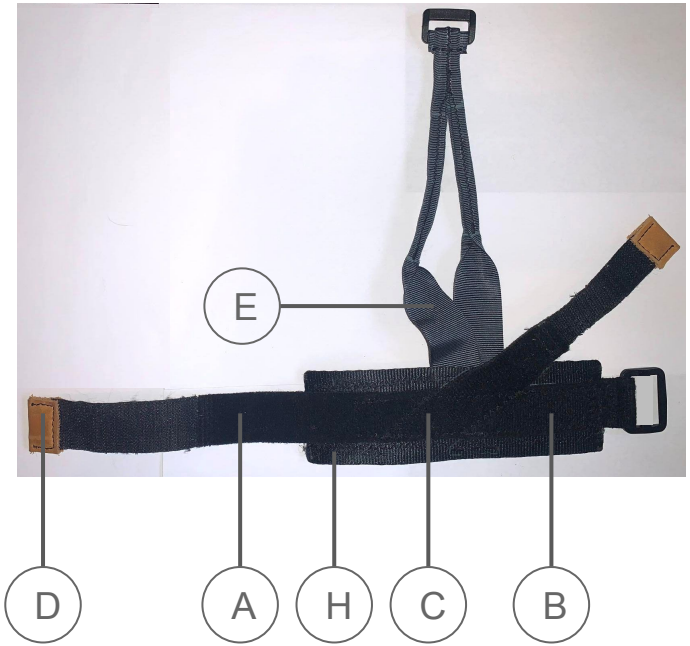
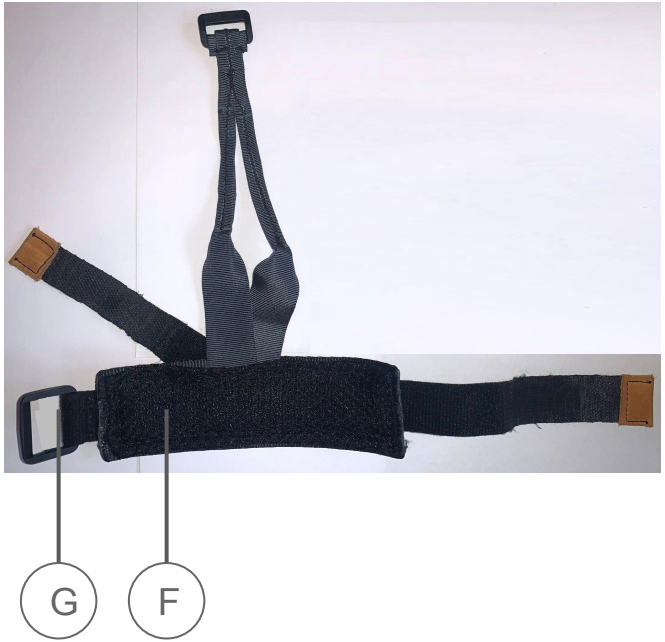
Description	**Size**	**QTY**
Seat belt	50*160 mm	1
Polyester strap	540*20 mm	1
Velcro Female	20*260 mm	1
Velcro Male	20*180 mm	1
leather	25*40 mm	2
3D polyester mesh fabric	50*160 mm	1
Polyester sewing thread	Roll	1
Plastic clips	20*25 mm	2

Overview

Outside



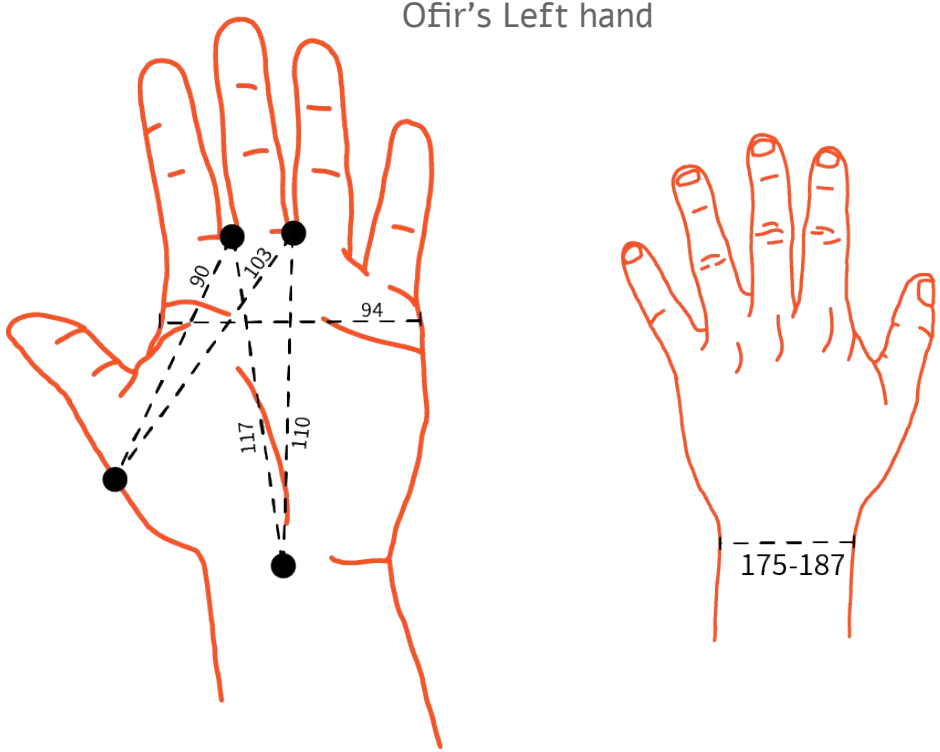
Inside



Velcro	**A,B,C**
Leather	**D**
Polyester strap	**E**
3D polyester mesh fabric	**F**
Plastic clips	**G**
Seat belt	**H**

Dimension

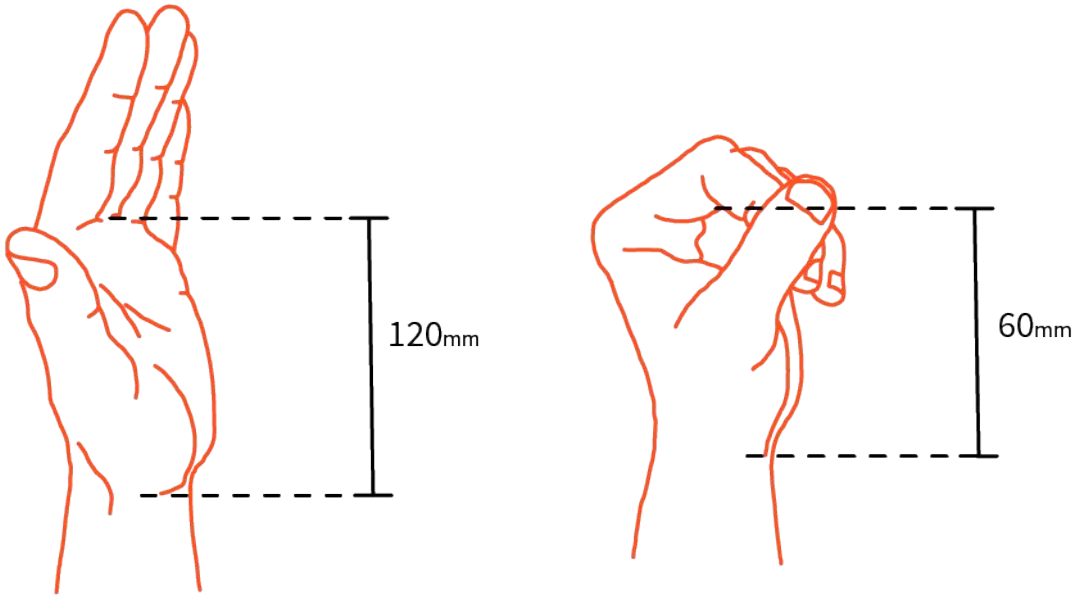
Ofir’s Left hand



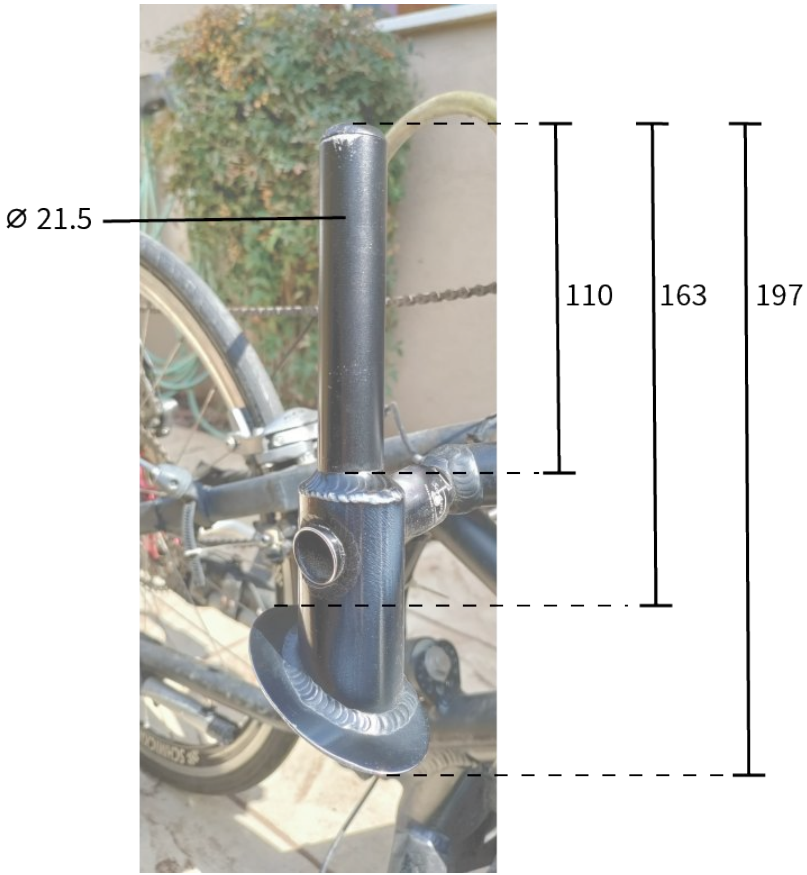
Dimension

Ofir's Left hand

Palm range of motion - 120mm TO 60mm

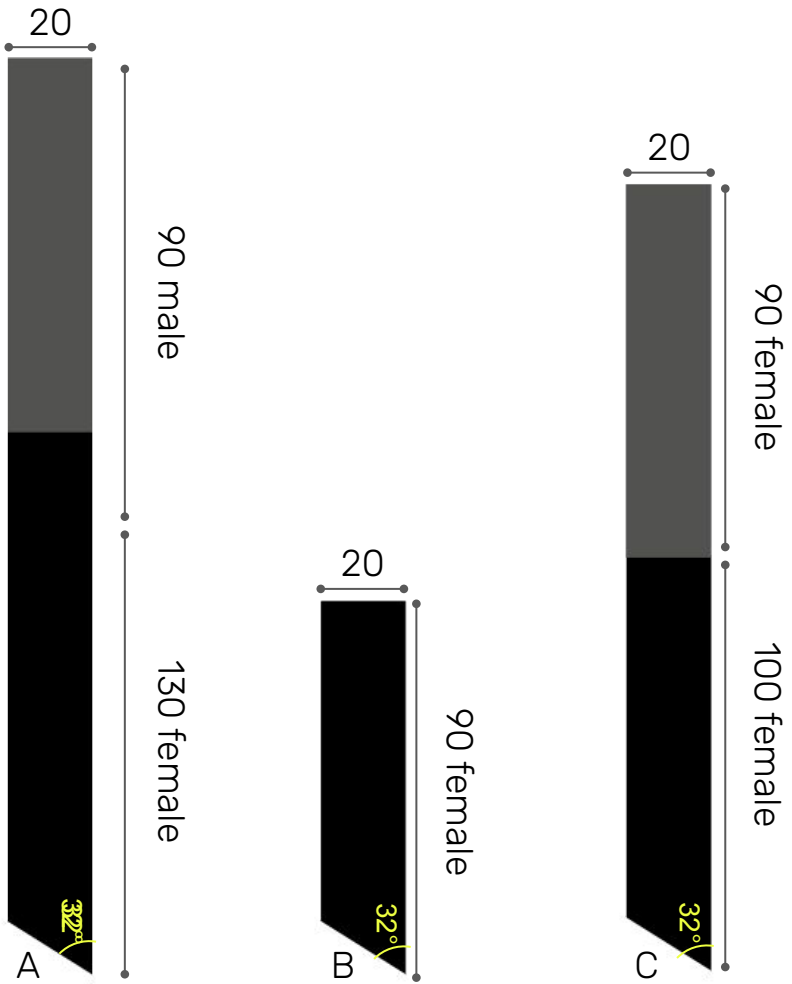


Handlebar dimensions

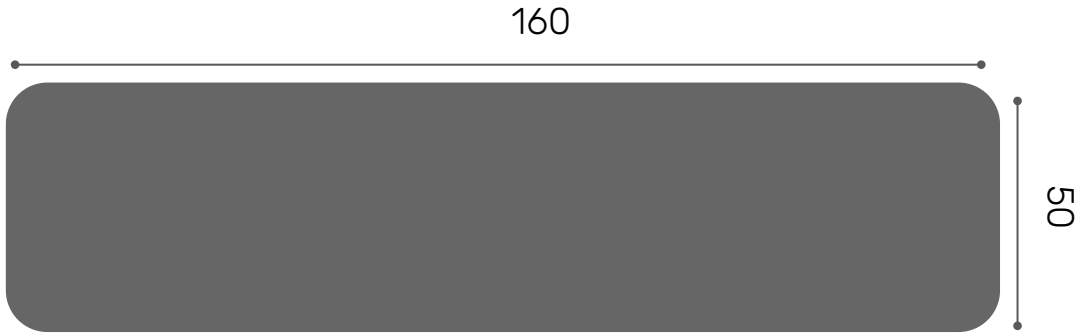


Cutting and preparation for sewing

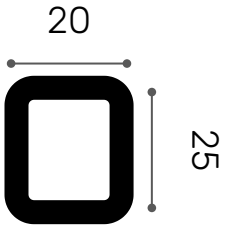
Velcro Female + Male



Seat belt
+
Plastic buckle
+
3D polyester
mesh fabric



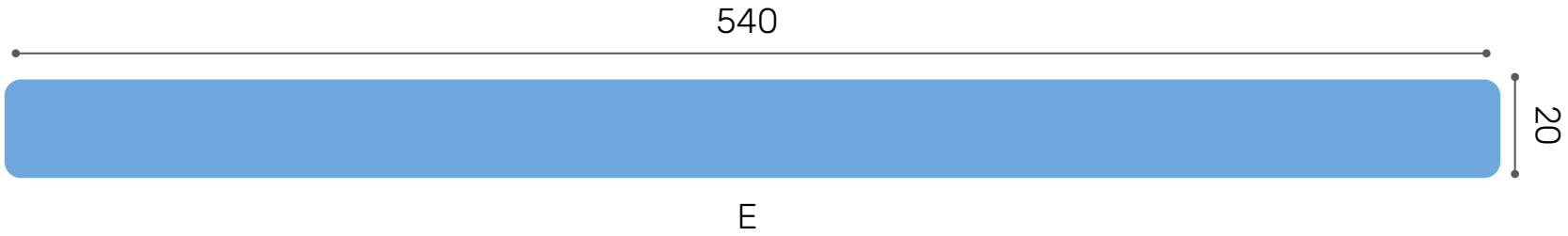
H



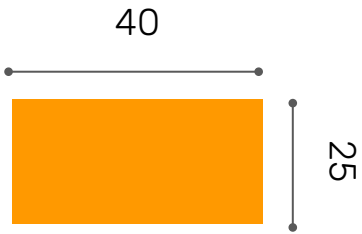
G*2

F

Polyester strap
+ Leather



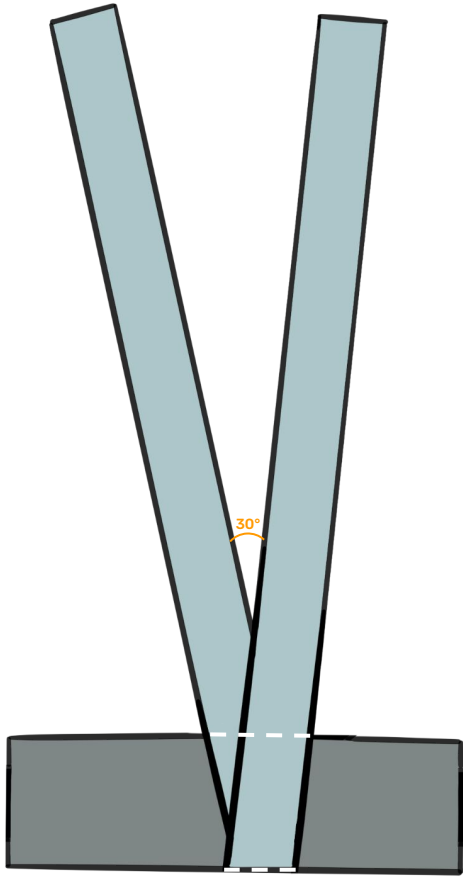
E



D*2

Step 1

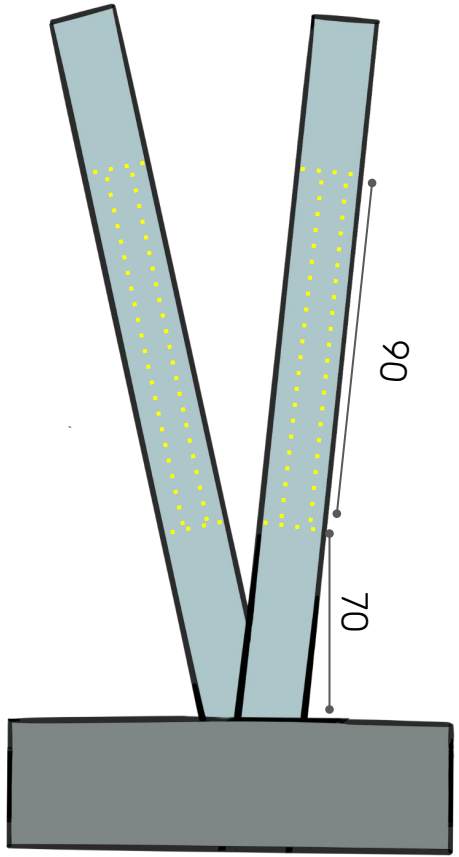
Sew the strips on top of each other
In the center of the strip at an angle
of 30 degrees.



Fold · · · · · · · · · · Sew – – – – – –

Step 2

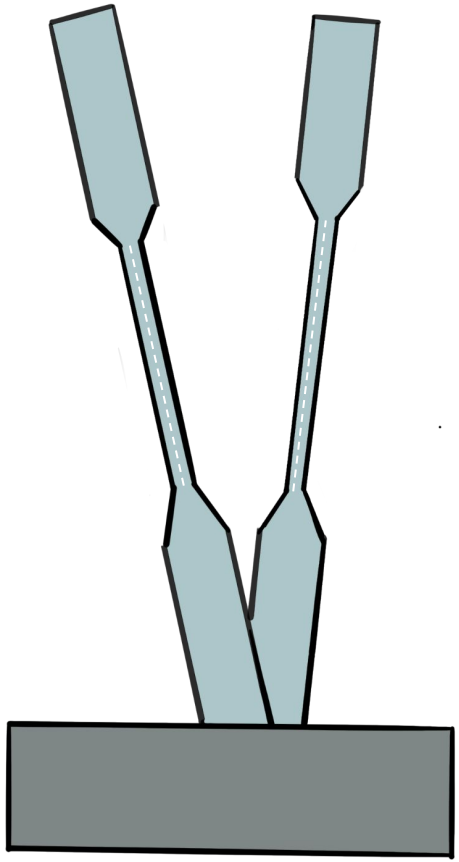
Turn the strap back on.
Fold the strip to the center according to
The yellow markings.
Hold with pins in the marked places.



Fold · · · · · · · · · · Sew – – – – – –

Step 3

After folding sew the strips
In the center.



Fold · · · · · · · · · · Sew – – – – – –

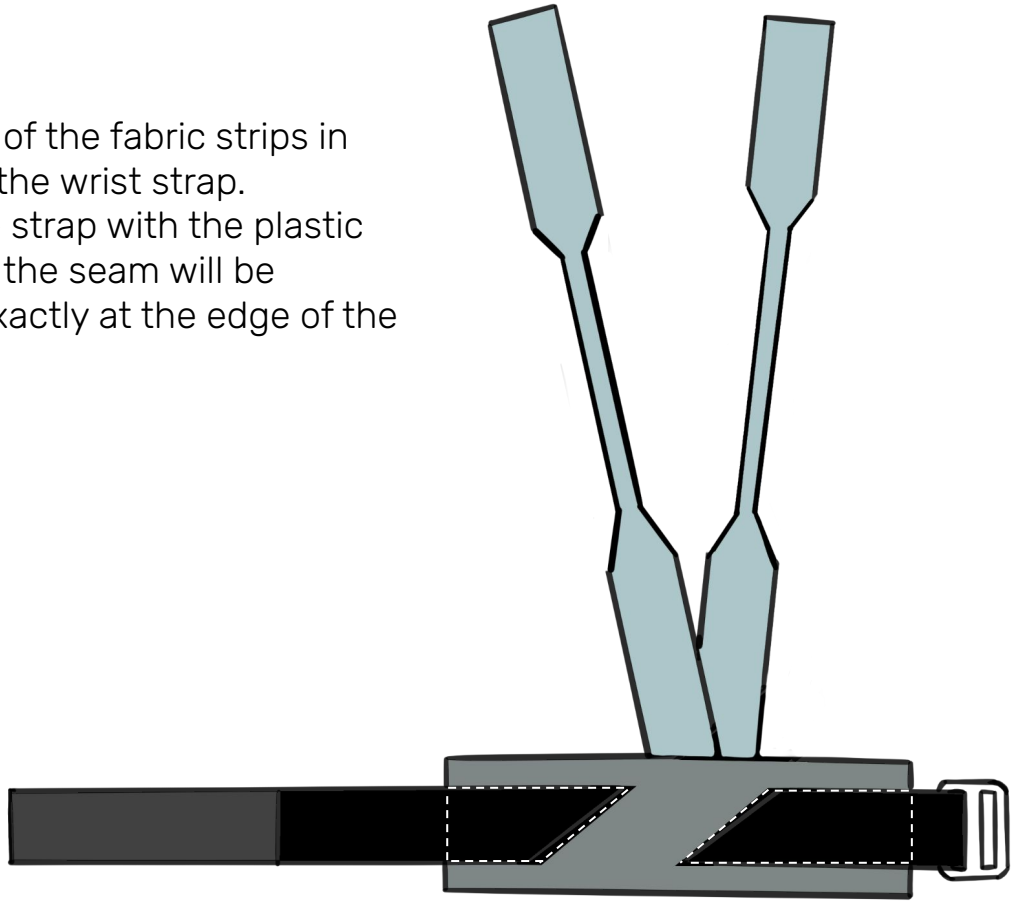
Step 4

Sew the velcro strap through the plastic clips.

Fold · · · · · · · · · · · Sew – – – – – –

Step 5

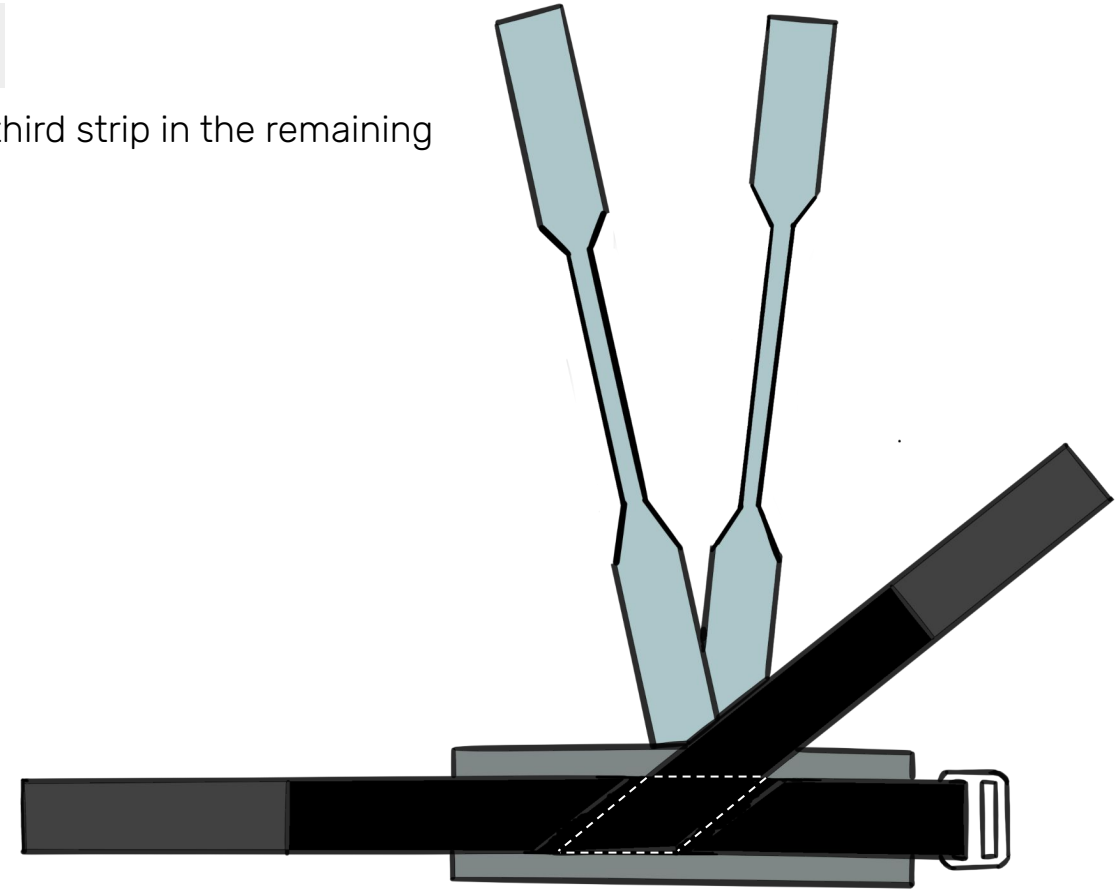
Sew both of the fabric strips in center of the wrist strap.
Place the strap with the plastic buckle so the seam will be located exactly at the edge of the strap.



Fold · · · · · · · · · · Sew – – – – – –

Step 7

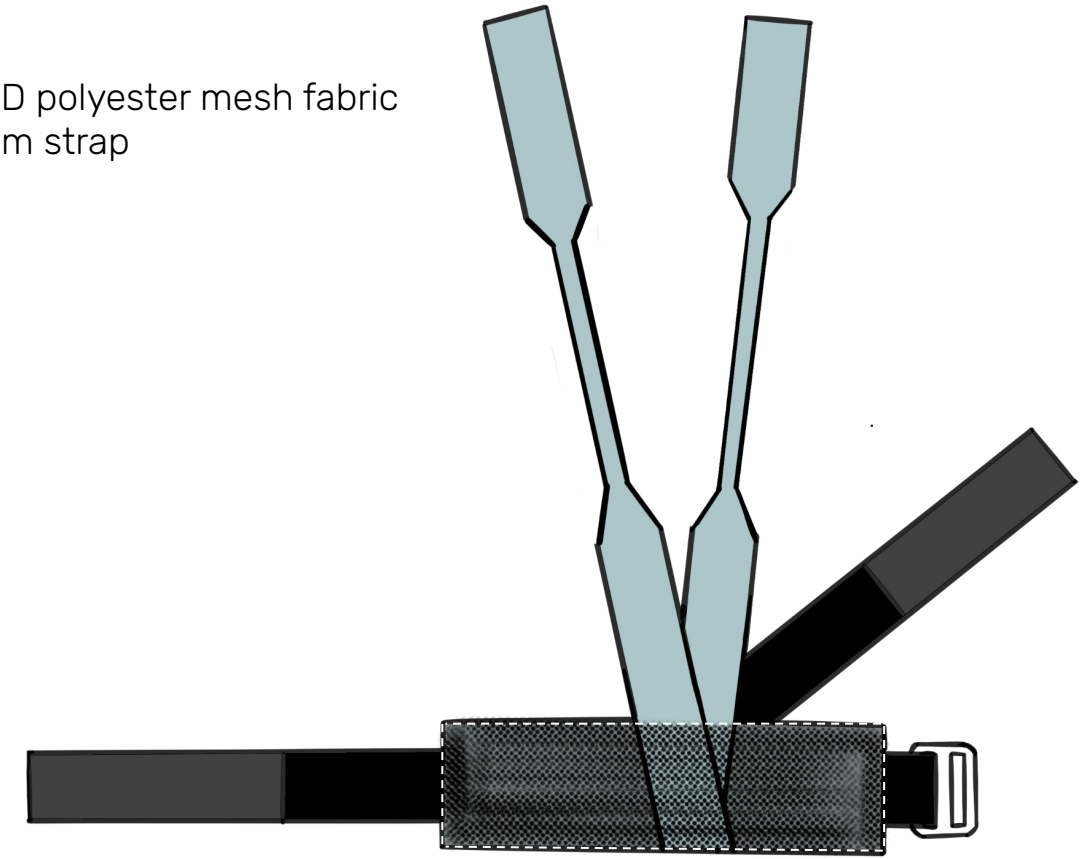
Sew the third strip in the remaining space



Fold · · · · · · · · · · Sew – – – – – –

Step 8

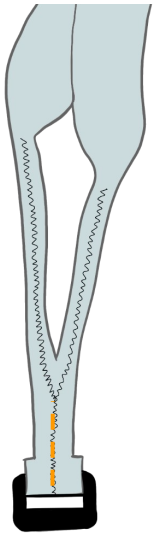
Sew the 3D polyester mesh fabric on the palm strap



Fold · · · · · · · · · · · Sew – – – – – –

Step 9

Sew the 2 strips into one strip through the plastic buckle and then sew a vertical seam.



Fold · · · · · · · · · · Sew – – – – – –

Step 9

sew the edges of the strap by using leather in order to form "block" shape around the strap edges – meant to prevent the strap from getting out of the buckle. Before sewing, make sure that the strap is threaded inside the buckle.

Fold · · · · · · · · · · Sew – – – – – –

How its look