

Fabric Face Mask

Materials Needed:

- 1 - 12" Pipe Cleaner Thread, twisted 12-15 times
- 1 - Top Elastic 13" strip
- 1 - Bottom Elastic 10" strip



All Sewing Done on Single Needle Juki LU-2810-7 or Equivalent

- Draw tape folding fixture needed for Operation 6 – to be clamped to table
- All stitching to be run at a minimum of 7 stitches per inch

Curved Wire Hook to be inserted into drill for Operation 1A

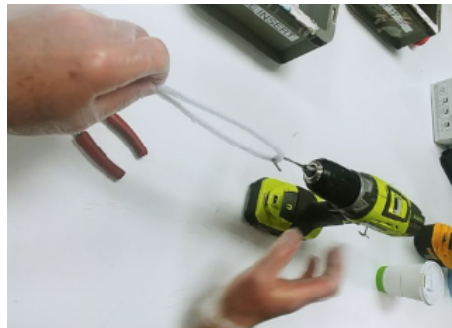
BOM Details are available for specified materials

Masks to be laundered prior to end user to clean contents and trash

1. Twist pipe cleaner wire



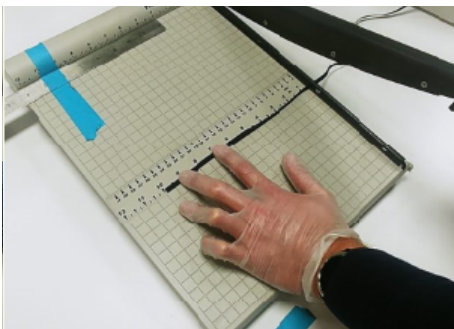
1A. Fold 12" pipe cleaner around drill end.



1B. Hold end and run drill 12-15 revolutions until wire end twists.



1C. Fold wire end over and crimp tight.



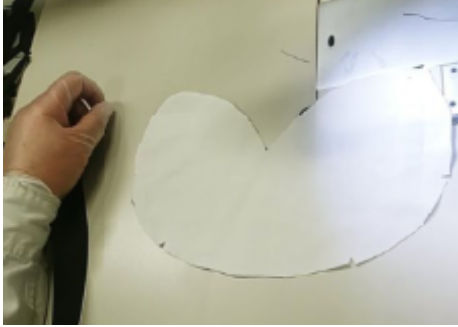
1D. Cut 2 elastic strips for head bands.



1E. Measure elastic to 10" and cut. 2 pieces per mask.

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2. First fold stitch – single needle



Flat cut fabric.



2A. Fold curved mirrored edge together (the edges without notches)



2B. Begin stitch along curved nose section with 4mm seam salvage.



2C. First stitch complete

3. Second fold stitch – single needle



3A. Fold mask inside out and fold at sewn seam.



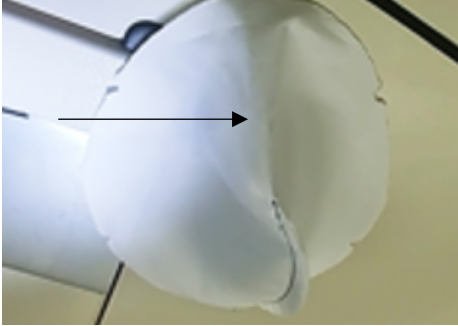
3B. Sew over existing seam as inside out, entire curved seam at 3/8" seam.



3C. Complete.

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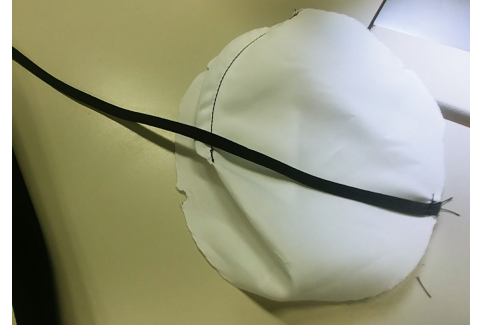
4. Sew elastic strips on mask at notches



Top of mask.



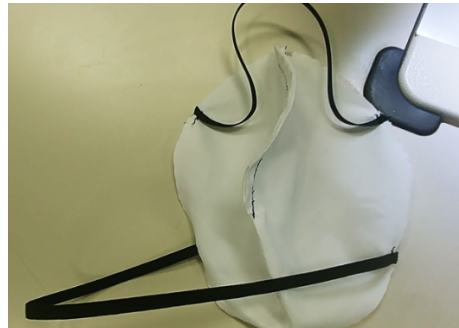
4A. Align upper strap to upper notch.



4B. Sew and backtack strap to upper notch edge. 2X.



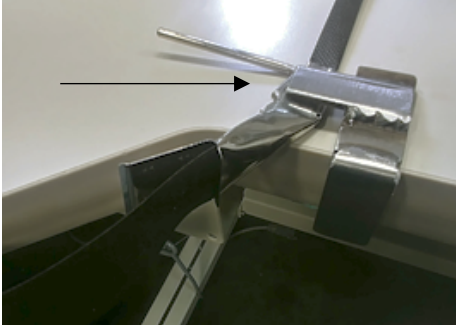
4C. Align and sew strap to opposite upper side notch.



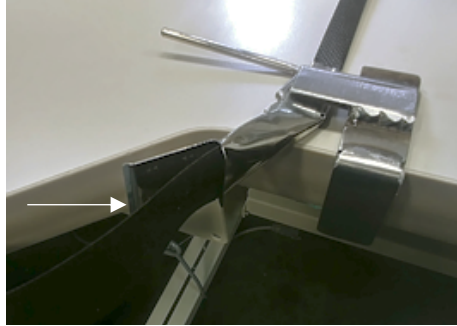
4D. Sew and backtack strap to lower notch edges on both sides. 2 tacks per location.

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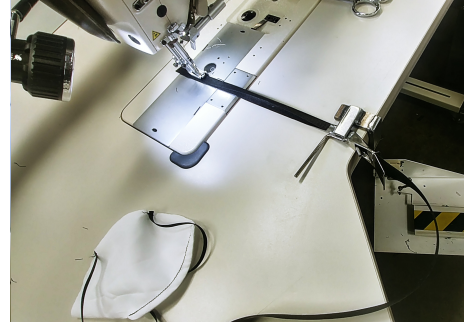
5. Align drawtape and sew around perimeter



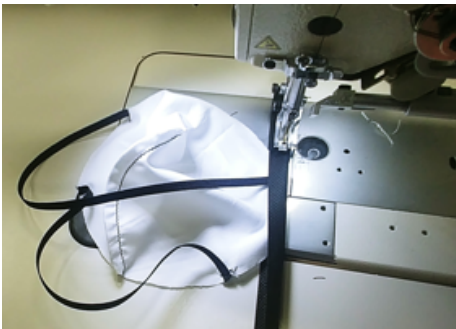
5A. Drawtape fold.



5A. Drawtape feed.



5A. Drawtape fold and drawtape feed.



5B. Align fabric edge at strap, fully inserted into drawtape fold.



5C. Sew perimeter around entire circumference.



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5D. Sew 1" extended strip off end (at startpoint) and trim.



Final.

Fabric Face Mask

6. Insert wire and sew ends



6A. Insert rounded wire end into tunnel.



6A. Insert rounded wire end into tunnel.



6B. Feed wire through tunnel until end is fully into tunnel – between top strap connection points.



6C. Sew across wire lead end (over the wire) to capture wire.



6D. Fold and sew open end.



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* It is recommended to use social distancing, face masks and gloves during assembly.

The materials provided include engineering drawings, descriptions, photos and videos of production techniques for fabric masks and plastic shields Steelcase is making at the request of local hospitals. We invite you to use these materials in designing and making similar products. However, be advised that these devices have not been reviewed by or listed with FDA. The masks are not N95 rated nor are they intended to replace surgical masks and shields, and they have not been evaluated for safety or effectiveness for any medical condition. We are making these materials available as emergency responses to the shortage of personal protective equipment. Steelcase disclaims any liability for any products made by others using these designs and production techniques. Each user must make their own assessment about the suitability of the design for their particular use.

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Fabric Face Mask Pattern

