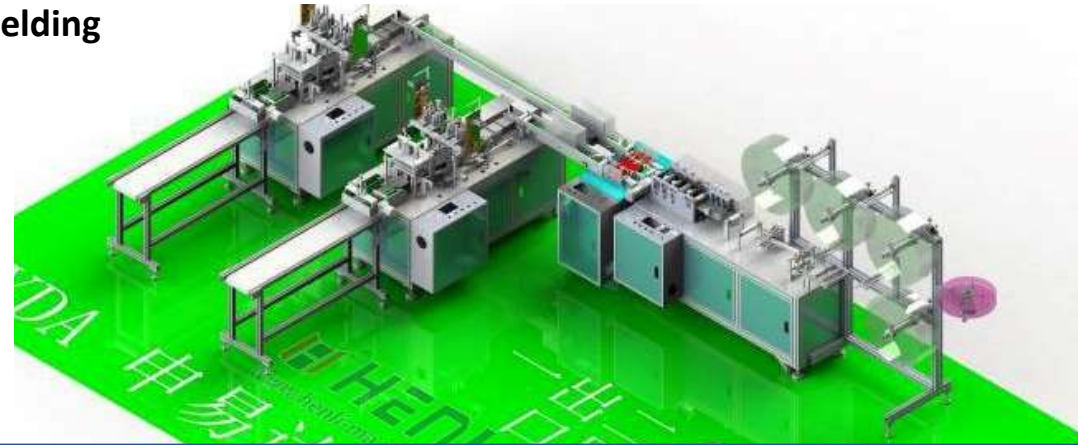


## Masks produced by ultrasonic welding



Ultrasonic welding



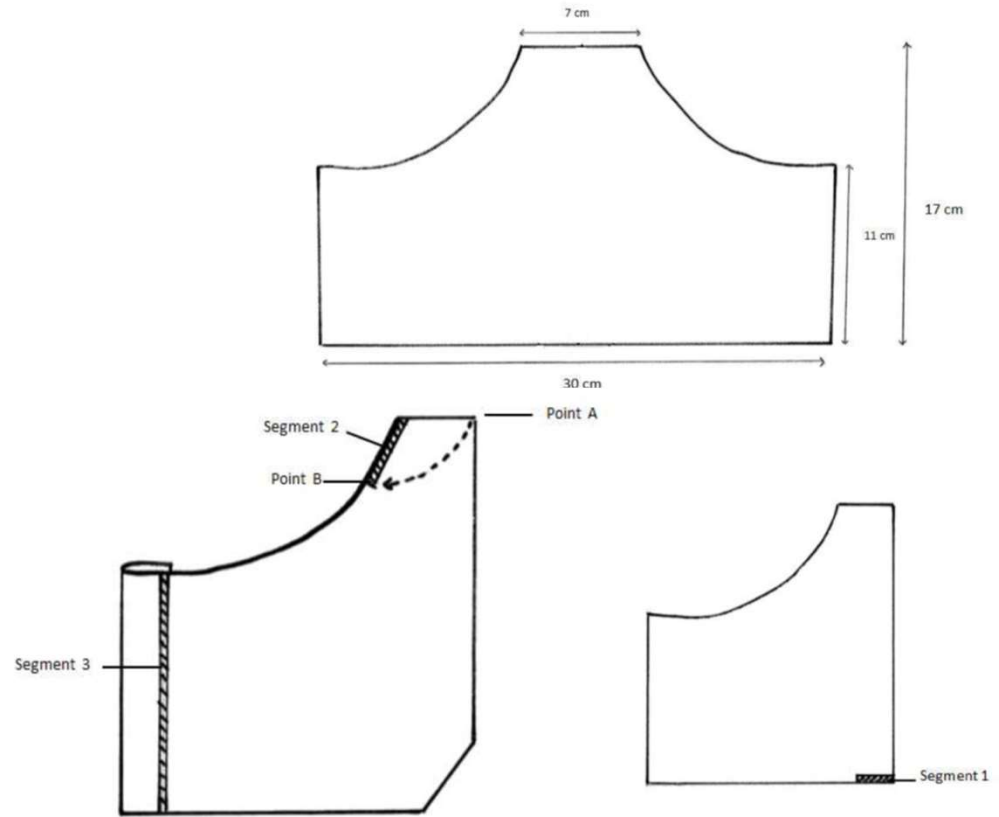
1. Meltspun or spunlace polypropylene nonwoven fabric
2. Ultrasonic welding (no needle holes, no thread)
3. Automatic line 50 - 100,000 \$, 100 pcs/min, or
4. Ultrasonic sewing machines 2,000 \$/piece
5. Factories producing hygiene products, lingerie and special sportswear may have ultrasonic sewing machines

Automatic line video:

<https://www.youtube.com/watch?v=a9m5qM54vCk>



Mask produced by conventional sewing machines



Source: Ahlstrom Munksjo