



**EPIC Online Technology Meeting  
on Impact of Photonics on  
Sustainable Textiles, Wearables,  
Fashion and Design**

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**selmark**  
LINGERIE

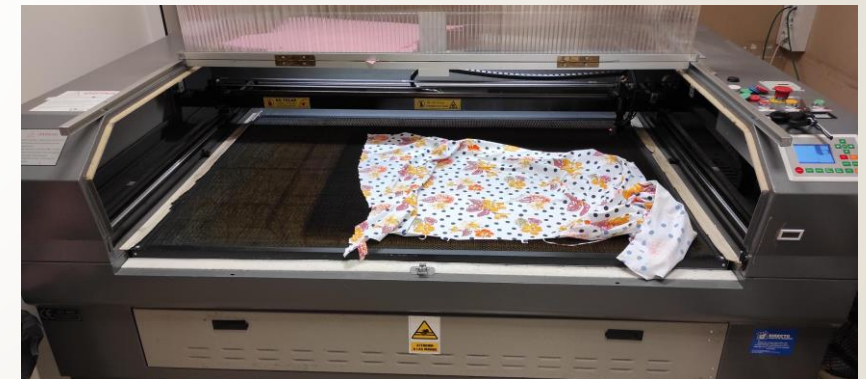
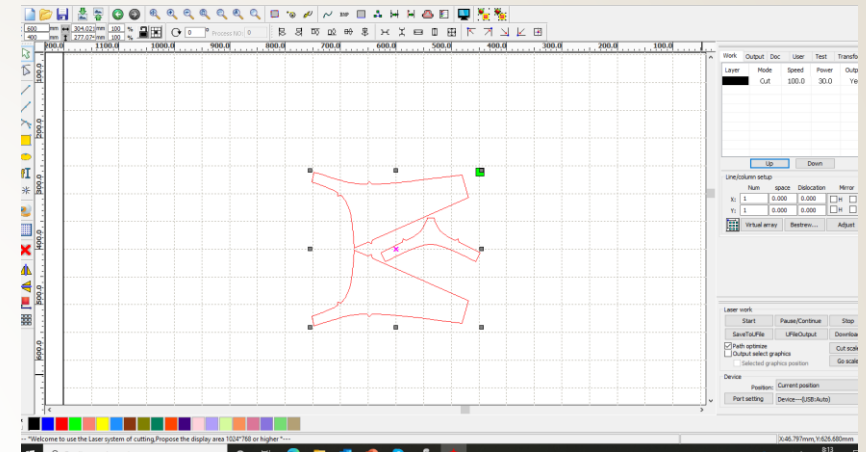
# Who we are?

- Since 1975
- Vigo (PTL Valladares)
- 1984 – Agreement with NINA RICCI
  - (line lingerie)
- 4 lines (Lingerie, Mare, Homewear, Tech)
- More than 250 articles (about 8.000 new references each year)
- Present in more than 30 countries
- About 100 direct employees
- R&D as a way to be competitive



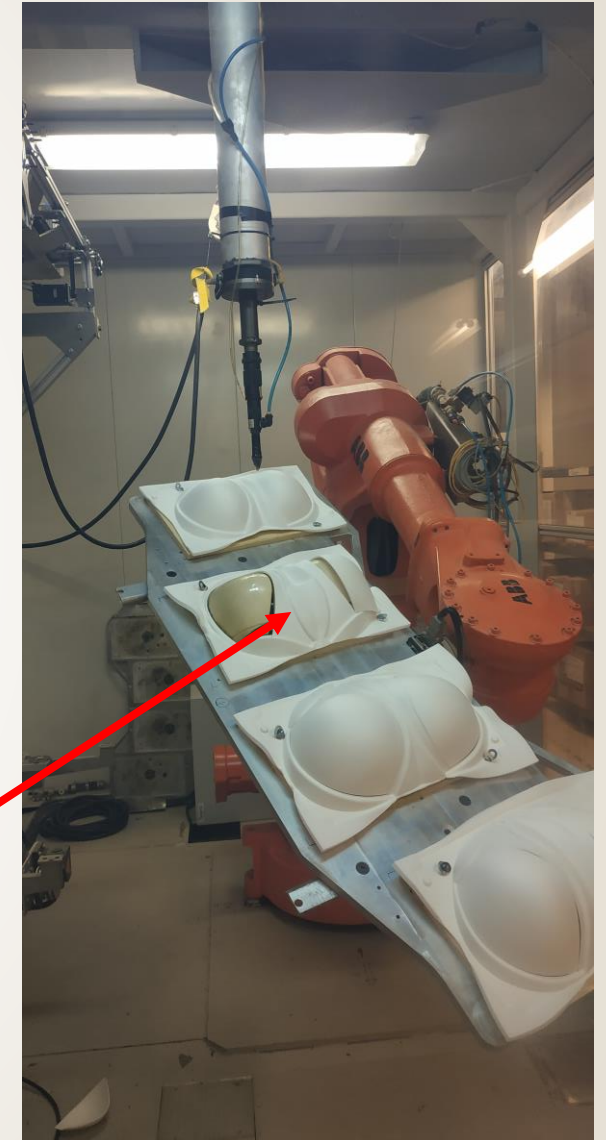
# Our LASER machines

- 2D laser cut
  - Previously
    - Print patterns.
    - holding them with tiepins
    - Cut them with scissors.
  - Nowadays
    - Upload CAD file
    - Put the tissue in the place we like
    - cut
  - Improvements
    - Time saving
    - Paper saving
    - precision



# Our LASER machines

- ▶ 3D cutting
  - ▶ Previously
    - ▶ Die-cutting
    - ▶ Need a visual reference
    - ▶ Complex forms: Mark in the material → cut
  - ▶ R&D project develop with AIMEN
    - ▶ First Textile cups
    - ▶ Second Foam cups
      - ▶ More complex edge
      - ▶ Difficult to obtain a significant improve in standard cuts
  - ▶ Focus on
    - ▶ Complex cuts
    - ▶ Cuts we didn't do previously
  - ▶ Improvements
    - ▶ Die-cutting develops (CAD)
    - ▶ Cutting time (new patterns)
    - ▶ New Design& pattern possibilities (Differentiation from competitors)



# Our Needs/challenges

- ▶ 2D cutting
  - ▶ To identify tissue position
  - ▶ To identify prints
- ▶ 3D cutting
  - ▶ Improve repeatability
  - ▶ Improve some cuts definition
- ▶ To produce very small batches
- ▶ Personalized products (logos, serigraphy)
  
- ▶ To detect textile defects
  - ▶ Stains
  - ▶ Prints out of place

