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REACH CAD is an innovative software tool that significantly reduces fabric waste and contributes to a more sustainable apparel manufacturing process.

Here are the key ways it helps create a greener economy:

1. Optimizing Fabric Usage

REACH CAD utilizes advanced marker planning and nesting algorithms to optimize fabric layout and cutting.

This allows manufacturers to:

- (i)** Create efficient pattern layouts that maximize fabric utilization.
- (ii)** Reduce end bits and scraps during the cutting process.

(iii) Achieve higher marker efficiency, minimizing overall fabric waste.

By improving fabric utilization, REACH CAD helps conserve raw materials and reduce the environmental impact of textile production.

2. Enhancing Precision and Reducing Errors

REACH CAD enables highly precise pattern engineering, grading, and marker planning.

This increased accuracy leads to:

(i) Fewer mistakes and defects during production.

(ii) Less fabric wasted on errors or poorly fitting garments.

(iii) Improved quality control and consistency.

(iv) Reducing errors and defects directly translates to less material waste throughout the manufacturing process.

3. Facilitating Digital Prototyping

REACH CAD allows for digital pattern creation and virtual sampling, which:

- (i)** Reduces the need for physical prototypes and samples
- (ii)** Decreases material usage during the design and development phase
- (iii)** Enables rapid iteration without wasting fabric on multiple physical samples

This digital-first approach significantly cuts down on pre-production fabric waste.

4. Promoting Sustainable Design Practices

REACH CAD provides tools that encourage sustainable design thinking:

- (i)** Allows designers to easily visualize and compare fabric usage for different designs.

- (ii)** Facilitates the creation of low-waste pattern layouts.
- (iii)** Enables quick experimentation with eco-friendly design modifications.

By making sustainability considerations more accessible, REACH CAD empowers designers to create greener garments from the start.

5. Supporting Efficient Production Planning

REACH CAD streamlines production planning and management, which indirectly reduces waste by:

- (i)** Improving inventory management and reducing excess stock.
- (ii)** Enabling more accurate demand forecasting.
- (iii)** Facilitating efficient use of available fabric rolls and widths.
- (iv)** Better production planning leads to less overproduction and unused materials.

Conclusion

By optimizing fabric usage, enhancing precision, enabling digital prototyping, promoting sustainable design, and supporting efficient production planning, REACH CAD plays a crucial role in reducing fabric waste in the apparel industry.

This not only helps manufacturers save costs but also significantly contributes to a greener, more sustainable fashion ecosystem. As the industry continues to prioritize environmental responsibility, REACH CAD will become increasingly valuable in creating a more sustainable and eco-friendly apparel manufacturing process.

For more information on how REACH CAD can add value to your business, please email info@reach-tech.com and visit www.reach-tech.com

enabling agile apparel enterprises for the digital economy

