



# Garment Digital Twin

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## The Fundamentals of the Garment Digital Twin

The Garment Digital Twin™ (GDT™) offers the smoothest design ideation to production process available in the fashion industry.

### How?

Because Our software offers not only the foundational elements of digital product creation but also an excess of easily understandable additional features and functionalities.

### Feature Highlight:

- ◆ [Total 3D Editing](#)
- ◆ [Accelerated DPC and Expert System](#)
- ◆ [Automated Pattern Editing](#)
- ◆ [User Defined Finish Manager](#)
- ◆ [Rapid Parametric Grading](#)
- ◆ [Digital Tech Pack Creation and Export](#)

Leading the way in **fashion design software**, Clothing Tech is innovating and creating truly seamless 3D software solutions for fashion design.

Our one-of-a-kind suite of features allows apparel designers to move from concept to production without the typical constraints of the fashion industry.

Our Software is designed to automate processes that save you time and money.

Clothing Tech works smarter to bring fashion designs to life.



**ClothingTech**  
a Hexagon joint venture

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## Garment Digital Twin

# Total 3D Editing

Our GDT™ 3D renderings look more realistic than ever! With every design edit your look will be ready to share and view with all your partners. Whether that is a sales team or design or manufacturer and sample making. Our software does patternmaking for you in real-time to match the edits you make to your garment design.

How it works:

- ❖ **From adjustments to the hemline or being able to point out the fit issues, the GDT™ realistic renderings allow you to make design decisions in minutes for what normally you have to wait months for a physical sample.**
- ❖ **Simple to use the tools seamlessly guide each step of the 3D process and each step has a component that you can monitor and edit.**
- ❖ **Plus, with every tweak you make, our system is working behind the scenes to update the pattern and tech pack, creating efficiency in your workflow.**



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## Garment Digital Twin

# Accelerated DPC and Expert System

The Garment Digital Twin allows you to assemble garments in a matter of minutes! No piece placement or stitching is required; (would say dig into what the competitors do and say- we don't do those steps because they are a waste of time).

Here's how it works:

- ❖ **Upload your Tech Pack DXF file.** The GDT automatically places the pattern pieces on the avatar in a 2D workspace.
- ❖ **Create your seams or finishes with our easy-to-use drag-and-drop tool.** Seams and finishes are saved in an easily accessible garment library.
- ❖ **The automated system highlights the work you've done, so you can be sure all your seams and finishes are present before moving to the next step**
- ❖ **Now, you're ready to work in 3D space.** The GDT™ will automatically create your garment and place it on a coordinated-sized avatar in a beautiful 3D rendering.



## Garment Digital Twin

# Automated Pattern Editing

With the Garment Digital Twin™, updating last year's design to showcase the latest trends is effortless. With just a few clicks, you can make real-time adjustments to your garment's length, circumference, neck opening, sleeves, armholes, and other features. What's more, our software seamlessly updates the pattern in the background while you focus on other tasks.

Here's how it works:

- ❖ **Upload your Tech Pack DXF file.** The GDT automatically places the pattern pieces on the avatar in a 2D workspace.
- ❖ **Use the Automatic Assembly module to digitally sew your garment and create a realistic 3D rendering of your design.**
- ❖ **As you make even the slightest changes to a garment's hemline or waistline, the GDT instantly updates the pattern for you.** This once time-consuming and intricate process no longer requires any technical expertise, thanks to our software.
- ❖ **Now, you can design and iterate hassle-free in 3D.** With our software, pattern-making is a seamlessly integrated process.



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## Garment Digital Twin

# User-Defined Finishes Manager

This simple-to-use tool allows you to easily add brand-specific signature finishes to your designs. From hemlines and zippers to pockets and buttons, the User-Defined Finish Manager helps you do it all. With a few clicks, tailor your garment with those final touches that are ready for the store or the runway.

How it works:

- ❖ **This module allows you to change or customize your garments' seams, pieces, and openings. Simply click the + button in the menu to add a finish to your garment.**
- ❖ **Select the finish you want by dragging and dropping it onto the garment and placing it at the appropriate spot.**
- ❖ **Click apply and our expert system will regenerate the finish on the 3D garment.**
- ❖ **Effortlessly customize your finish further in the 3D workspace. If you decide you don't want the finish anymore, simply delete it by clicking on the trashcan icon.**



## Garment Digital Twin

# Rapid Parametric Grading

This tool allows you to grade garments in 3D based on the differences in the body size of an avatar. By visualizing the fit of each size garment, you can alter and revise designs to your company's specifications. This ultimately cuts down potential production issues and design problems when producing garments in different sizes.

How it works:

- ❖ In the grading Module, choose the sizes you'll offer this garment in from the menu and click save.
- ❖ In a matter of minutes, the graded measurements and patterns will appear in your library and you'll be able to view your garment on various-sized avatars side-by-side in the 3D workspace.
- ❖ Our tool calculates the tech pack needs for each size garment based on the fit you designed for your original size avatar.



## Garment Digital Twin

# Digital Tech Pack Creation and Export

Each design change made in our software automatically updates the tech pack. This all-in-one system makes it effortless for you to progress from design to tech pack, including updated exporting cost features and facilitating sharing functionalities with vendors and collaborators.

How it works:

- ❖ **You can customize the information:** such as **Costing, Grading, and Fabrication details.** Our system allows the expected delivery date and any material specifications.
- ❖ **The Grading Spec tab** allows you to review the points of measure for a final check of your garment before a physical sample is made. It automatically calculates the points of measure for each size you want to offer your garment in.
- ❖ **When you have reviewed everything is correct** an easy export output will save a PDF to your computer. The tech pack is now available to send to vendors.