

Process Optimisation

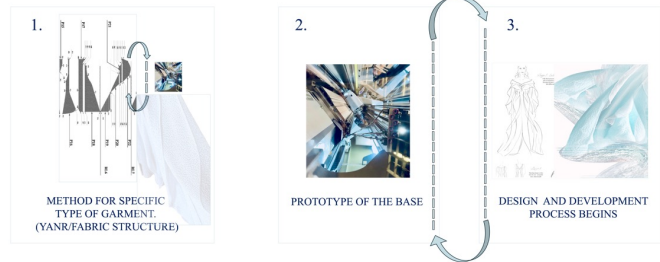
A seamless transition from craftsmanship to automation, combining elegance, efficiency and engineering clarity.

The Method introduces a modular, sequential structure that builds precision at every stage. By applying the **Pre-programmed Principle** as a foundation, the **digitally controlled development process** enables continuous production with minimal external input. Issues are resolved in real time, streamlining the path from concept to outcome—ensuring precision of fit for mass-market customers while significantly reducing resource consumption, external dependencies and guesswork.

SEQUENTIAL REFINEMENT

1. Immediate Fit Validation

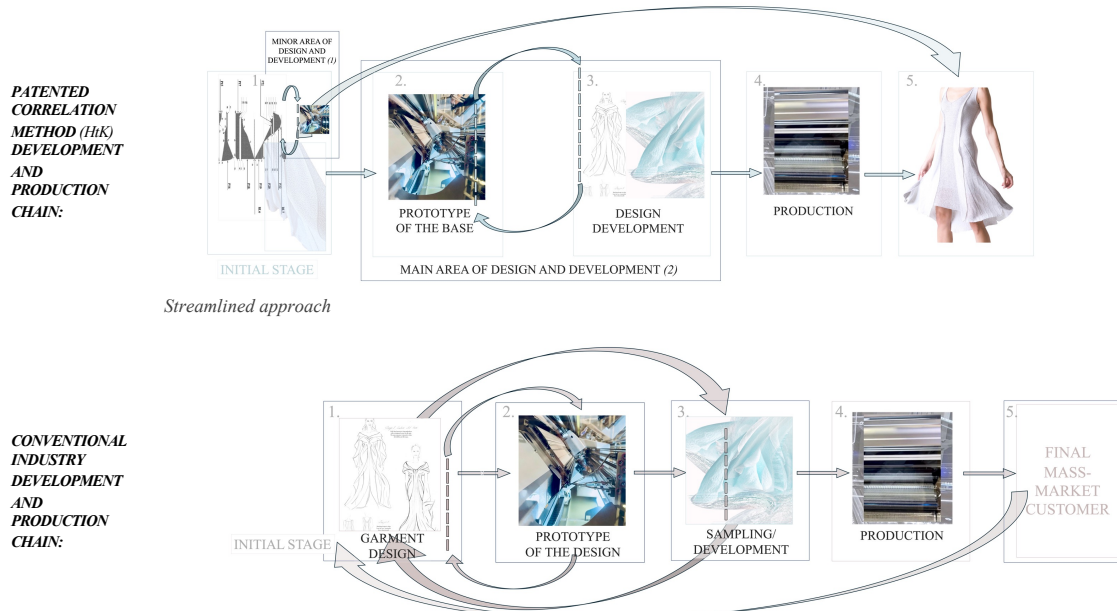
The invention is based on the correlation of the structures for both stability and flexibility. Once the overall garment type and shape are selected, the yarn and future fabric for the garment are tested on a pre-set structural base. This process provisionally ensures a self-adjusting fit for the end customer—**before** the design phase begins (1).



- High level of precision and foresight
- Guaranteed fit at an early stage
- Clear direction for designers
- Quality control built into the system
- Consistency of fit and appearance
- Efficient testing and development
- Final product remains accurate, even when scaled

2. Design Becomes Real from the Start

Designers and developers begin their creative process with a verified structural foundation already in place (2), enabling true design development on a “real canvas in motion” (3). This restructured approach ensures that the final product remains consistent in both form and fit (4–5), at **any scale**.



RESULTS: Multiple interactions between multiple stages

- **Production Efficiency:** Faster (84.0% reduction of manufacturing time), more precise development with fewer errors and less waste.
- **Manufacturing Flexibility:** Works on all programmable high-tech knitwear platforms (Seamless, 3D knit, WholeGarment).
- **Creative Control:** High-tech precision supports couture-level of fit and production accuracy.

- **Supply Chain Resilience:** 1,368 times less reliance on highly skilled labour compared to tailored cut-and-sew, rigid supply networks, or localised production facilities.
- **Customer-Centric Agility:** Enables on-demand or scaled production with full consistency.
- **Continuous Output:** Machines can run 24/7 with digital program files.
- **Traceable and Transparent:** Digitally documented at every stage for control and accountability.

