

Ultimate Sustainability: Waste Reduction through Perfect Fit

Waste Reduction Through Fit Intelligence

The chart illustrates the waste reduction potential made possible through the **Patented Method (HiK)** structural efficiency and built-in fit adaptability. These results are based on production-tested principles and real-world development logic, applied through scalable system modelling.

Prerequisite Parameters

METHOD/METRIC	Engineered with Patented Method:	Tailored with Cut-and-Sew:
Time Per Garment:	2.4h	15 h
Work Hours per Day:	24/7	8 hours (250 work days/year)
Specialists Required:	1 operator/50 machines	1 tailor per garment 90%
Machine Efficiency:	90% (24 hours/day × 90%) = 21.6 effective hours/day	(8 hours/day × 90%) = 7.2 effective hours/day
Production Output from 60,000 machines:	197,100,000 garments/year	197,100,000 garments/year
Fibre per Garment:	350g	420g
Production Waste:	10g per garment produced	70g (20% waste)
Unsold Stock Rate With/Without	→ non-luxury fibre (cast-off) 3.75%	→ 100% luxury fibre 17.5%
Self-Adjustment:	Dynamic fit 3-size model	Traditional 8-size model

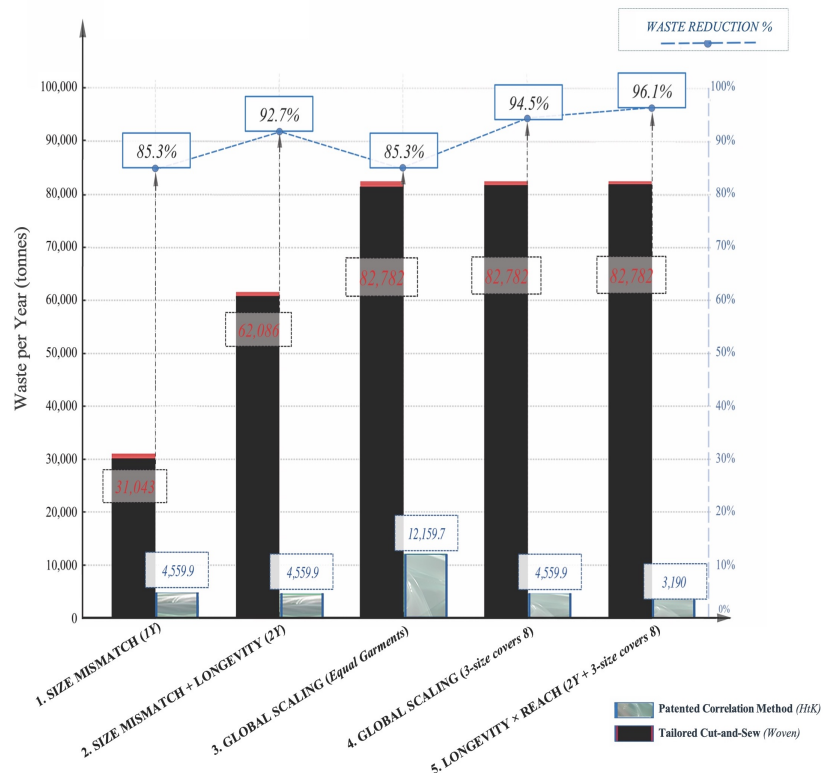
Waste Reduction Summary:

Patented Correlation Method vs. Tailored Cut-and-Sew

- Size Mismatch (1-Year)**
 - Tailored Cut-and-Sew Waste: 31,043 tonnes/year
 - Patented Method Waste: 4,559 tonnes/year
 - Reduction: 26,483 tonnes/year
 - Waste Reduction %: **85.3%**
- Size Mismatch + Longevity (2-Year)**
 - Tailored Cut-and-Sew Waste: 62,086 tonnes/2 years
 - Patented Method Waste: 4,559 tonnes/year
 - Reduction: 57,527 tonnes/2 years
 - Waste Reduction %: **92.7%**
- Global Scaling (Equal Number of Garments)**
 - Tailored Cut-and-Sew Waste: 82,782 tonnes/year
 - Patented Method Waste: 12,160 tonnes/year
 - Reduction: 70,622 tonnes/year
 - Waste Reduction %: **85.3%**
- Global Scaling (3-Size Dynamic Fit Covers 8)**
 - Tailored Cut-and-Sew Waste: 82,782 tonnes/year
 - Patented Method Waste: 4,559 tonnes/year
 - Reduction: 78,223 tonnes/year
 - Waste Reduction %: **94.5%**
- Longevity + Reach (2Year × 3-Size Covers 8)**
 - Tailored Cut-and-Sew Waste: 165,564 tonnes/2 years
 - Patented Method Waste: 4,559 tonnes/year
 - Reduction: 160,996 tonnes/2 years
 - Waste Reduction %: **96.1%**



WASTE REDUCTION ACROSS METHODS AND SCALING MODELS
PATENTED METHOD (HTK) VS. TAILORED CUT-AND-SEW (WOVEN)



For full methodology, calculations, and future scaling models, the complete Waste and Circularity White Paper will be made available online.

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