

4. Conclusion and recommendation

1. There are much professional knowledge which is yet ignored by contemporary CAD of virtual simulation. Combination of pattern block parameters and textile material mechanical properties could bring the unexpected results as synergetic effects which couldn't be predicted in 3D CAD. To get more difficult formalized knowledge, the 3D body scanner should be used to generate the 3D models of real body and dresses. After processing in 3DS MAX, we can measure and calculate the air gap indexes, which make it possible to find solid relation and equation between pattern blocks, textile fabric and dress shape.
2. Different approaches for design of dresses in H and X styles are established with the measurements of real samples and calculations of air volume. All main differences should be added in programming modules of 3D CAD for more realistic simulation results.
3. With 3D scanner, CAD of 3D design should be adjusted to real "body-clothes" with the same database of synergy effects with different clothes styles, textile fabrics, pattern blocks and air volume parameters.

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