

As long as the process data associated with chest height, distance between chest and waist, back across, nape to waist and armhole width are determined in 33.33% coverage ratio, we can provide users with more efficient customization through adjusting other data. And it is more likely to fit the different characteristics of user base compared to the prototype with 100% coverage ratio.

2.3. Conclusion

Taking as the research object the prototype built with the some advantage of EMKO prototype and with special body size measurements, we extracted data needed in the process of drawing the prototype. After data processing and ROC curve fitting, the fitting results show that efficiency is optimal when the coverage ratio is 33.33%, in the meanwhile, the corresponding user data are chest height, distance between chest and waist, back across, nape to waist and armhole width. Then we did verification about the coverage ratio under the optimal efficiency with the help of CLO3D, and we concluded that 33.33% is the optimal considering fitness degree and efficiency. That is to say, except the data corresponded to 33.33% coverage ratio, other data should be carried out manual adjustment according to figure. Therefore, body data put into production should be reduced to chest height, distance between chest and waist, back across, nape to waist and armhole width when selecting the prototype created in this article as the base prototype. By the way, collection of users' data varies from prototype to prototype, but the research methods in this paper are generally applicable.

References

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