An Ergonomic Criteria for the Design of Tailoring Cutting Table

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Abstract:
The design of the work environment has received increasing attention in Egypt during the past two decades in a number of articles published in the last few years to evaluate the design of work equipment to suit the tasks and workplaces, so this research aims to establish a criteria for use in the design of the workbench. No effort has been made to set standards for designing a tailoring table suitable for the Egyptians. All standards that can be traced are for European or American populations making it impossible to apply in the design process with tailors. The study ends with specific standards and specifications for a proposed cutting and tailoring that can provide convenience to users to perform their tasks efficiently, with satisfaction and with minimal effort, increasing production rates and improving quality. Research problem: The function of the Tailoring Cutting Table is to facilitate the tasks of the process of different and different detail, and therefore different tasks require different tables to meet those tasks and different activities, and the idea of having a table for each of the specific tasks is difficult to apply in practice, such as a shear and a table To take markers and patterns to draw a pattern, thus to better integrate the nature of the tasks and activities required with the features of the Tailoring Cutting Table, we need to determine the design needs based on an analysis of the physical activities of users while interacting with the table to perform the required tasks. To achieve this we must identify the conditions of movement and stability and various activities of the body during the performance of the required tasks and the impact of those tasks on the position of the body and its relationship with the comfort achieved by the user's table during the exercise of the required tasks, and therefore there is a close relationship between the design of the table and anatomical considerations of the human body and anthropometric aspects and the nature of activities Research Questions: Here, the problem of the research can be identified in the following question: What are the considerations that must be taken into account by the designer when designing the Tailoring Cutting Table that makes it more functional and convenient for the user? Research Objective: The research aims to provide some considerations and standard elements that must be taken into account by the designer when designing the Tailoring Cutting Table according to the standards of the Egyptian body and physical characteristics. The importance of research: Improve and develop the specifications of the workbench and contribute to increasing knowledge about the design considerations of the workbench and its compatibility with the anthropometric standards of the bodies of its users through the development of design standards based on scientific studies and what are the basic design considerations necessary for the design of the work table

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