

ABSTRACT

WORKBENCH DESIGN WITH ADDITIONAL FEATURES TO MEET DRAFTERS' NEEDS

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The most widely circulated work environment in Indonesia is manufacturing, the number of medium and large-scale manufacturing companies recorded in Indonesia reaches 29 thousand companies. In a series of manufacturing activities, many important things must be considered, one of which is the design of 3D product models by drafters. Drafters are responsible for making precise technical drawings by ensuring details are according to project specifications. As a crucial part of the job, the availability of comfortable work facilities that can increase productivity and effectiveness of working time is certainly needed by drafters. Maximizing the function of the work desk is often forgotten or has not received attention from companies or workers. Therefore, the design of a multifunctional work desk includes ergonomic design and utilization of the work area with adjustments to 6 functions including the core workplace, electronic device place, document storage, tool storage, and surface enlargement function to become an effective solution to time efficiency for drafter work. This research was conducted using a qualitative research method with a case study approach. Data was collected using observation techniques, questionnaires, documentation, and literature studies. As for the UCD (User-Centered Design) design method, ensuring that the solutions created are beneficial and easy to use by users also helps reduce the risk of making products that do not meet needs. Through this design research, maximizing the function of the workbench can be a supporting facility for drafter workers in the manufacturing area.

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