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Development and Design of a Multipurpose Operational Table for Carpentry Work

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Abstract: This research paper presents the design, fabrication, and performance analysis of a Multipurpose Operational Table equipped with three different machines: a drill, a cutter, and a grinder. These machines are powered by a single motor using a belt drive system, reducing power consumption and increasing efficiency. The project aims to provide an affordable and space-saving solution for carpentry work. The study discusses the mechanical design, material selection, power transmission system, safety measures, performance analysis, and cost evaluation.

Keywords: Multipurpose Operational Table

