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(57) Abstract :

Belt grinding is a coarse machining process commonly used on various materials including wood. Its primary application is typically as a finishing technique in industrial settings. The procedure involves running an abrasive belt over the material's surface to either remove material or achieve the desired finish. In this particular project, a belt grinder has been constructed using wood as the main material. The grinder utilizes a 775 motor to rotate a pulley, which drives the mini grinder, grinding paper, and abrasive belt grinder. A second pulley is attached vertically to the wooden base, with a tensioner spring, and grinding paper is fitted onto it. A base frame supports the mini grinder to facilitate the grinding of wooden material. The components used to create this belt grinder include a DC motor, spring, support frame, abrasive grinder belt, coupling, and pulley. The belt grinder simplifies material shaping by producing precise results with minimal effort.

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