

MODIFYING THE TABLE USING GRAZING *PNEUMATIC* SYSTEM FOR WORKSHOP DEPARTMENT WORK

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Abstract

Technological advances have been widely applied in everyday life and the world of work both in the real and *non-real* sectors. The application of this technology is expected to increase the effectiveness and efficiency of a work process and activity and can increase the expected results both in terms of quality and quantity. The existence of tools (ragum) in bench workshops and processing or manufacturing industries is very necessary because these tools are used as a gripping device for the final process of a workpiece. Pnumatics is a technology that uses compressed air to move mechanical components such as cylinders, valves, and air motors This research aims to produce a curve with a *Pneumatic* system that is operated without using hands, and shorten the time in use. By using *AutoCAD* and *Fluidsim* applications, the design and workings of ragam tools with a pnumatic system are obtained. From the results obtained from stress testing with various pressures, pointing to a safe limit of pressure so as not to damage the workpiece is 3 - 5 bar.

Keywords: Jaw , pnumatic, pressure, compressed air, component.