

DESIGN AND BUILD A SEMI-AUTOMATIC

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Many processes in industry that were originally done by humans, are now starting to be replaced by pressing machines that are driven automatically by only giving commands by the program on the Arduino uno and pressed by hydrolic and load cell sensors as pressure detection devices that are input from Arduino for pressure that will automatically stopped, a simple pressing machine drawn in prototype form. This is intended for human labor efficiency and effective turnaround time. Due to the rapid progress of human resources (human resources), it is no longer possible to do manual work with a large amount of energy. With what is written above, a solution or alternative must be sought to meet these needs, one of which is to make a machine that moves continuously and with great power. This final project aims to plan. Making and testing semi-automatic pressing machines for the purpose of automating the movement of pressing machines. The method in designing this machine is literature study and observation. From the design carried out, a semi-automatic pressing machine is produced, with the following specifications; hydraulic pressing capacity with a force of 2 tons. The electric motor used has a 2 hp power and 1420 rpm rotation.

Keywords: load cell sensor, motor, relay, dimmer, hydrolic, arduino uno.