ANALYSIS OF MACHINING PROCESS AND PRODUCTION COST OF HOT PRESS MACHINE BASED ON PLC

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ABSTRACT

Production industries that use hot press machine in Indonesia have lesser quality compare to abroad machines. This happens because there is not yet available a machine that can do mass-produce with good quality. It is required an effort to sustain the industry, one possible way to support the industries is by making a hot press machine that can be used for mass production with good quality.

In the analysis of machining processes and production costs on hot press machine, the first step taken is to determine the order of the process of making hot press machine and analyze the process manufacture of the machine to obtain the basic elements of the process, such as cutting speed, cutting time, speed of chips generated, cutting energy and cutting force for the manufacturing process of each component, that will be used for performing analysis of production costs that necessary to make a hot press machine. So that, the costs required in producing the hot press machine and the selling price of the machine can be determined.

The final result obtained is the result of analysis for the manufacture of cloth hot press machine based on PLC and production cost analysis of the machine. From these results can be made a hot press machine that can produce by ourselves that has good quality and competitive price in the market.

Keywords: hot press machinery, process engineering, cost analysis