MODIFIKASI MESIN ROLL PLAT SEMI OTOMATIS

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ABSTRACT

In today's modern era, there are still many supporting technologies that are run manually, one of which is a metal rolling machine. It takes innovation to existing tools in order to work optimally. The roll bending machine itself is a tool for bending or forming plates/profiles that were originally straight rod-shaped to become curved according to needs and desires. This study aims to make a roller machine that functions to form rectangular hollow steel into a circular profile. The machine that is made has dimensions of 700 mm x 600 mm x 400 mm using a 1 hp electric motor with a motor rotation of 1000 rpm. The transmission system used in this roll bending machine uses a pulley and belt from the electric motor to the reducer, while from the reducer to the drive shaft using a chain and sprocket. Research shows that the machine is able to form a full circle but the resulting diameter and forming time are still not optimal.

Keywords: mengroll plat, rolling machine.