SYSTEM DESIGN AS A DRIVER AND CONTROL ELECTROHYDRAULIC HOT EMBOSsing AND CUTTING SANDAL MACHINE

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Abstract

Hot embossing and cutting machine is a machine used to assist small industries in the production sandals, where hot embossing and cutting machine is the second production process into one machine. Hot embossing and cutting machine is very much needed in industry sandals, the writer decided to make the hot embossing and cutting machines as the final project.

This design aims to create hot embossing and cutting machine better in term of operation, comfort and safety. This machine uses an integrated control system electrohydraulic with termocouple and diffuse sensors, equipped with timer and jigs for operator safety.

From the analysis it is concluded that : cylinder used 40mm and 63mm diameter, pump capacity $\frac{6.16 cm^3}{rev}$ and the electric motor 2 HP/1,5KW with 1405 rpm spin.

Key word : hot embossing, cutting, electrohydraulic