

THE VULCANIZATION HYDRAULIC PRESS 250-600 2E MODERNIZATION

Students of g. 11301114 Milevsky P, Ivanov V.
Supervisors Krivitskiy P., Isaev A.
Belarusian national technical university

Practically every manufacturer has got technological equipment which doesn't conform to the current requirements in their feasibility. However some assembly units and devices hadn't reached their maximum and they can serve long years and decades. Having in mind the financial possibilities, the replacement of equipment is not possible, so the only way is the modernization.

For these reasons, repair plant had decided to modernize vulcanization hydraulic press 250-600 2E.

This model of press is intended for manufacturing of molded armor-clad and non-armor-clad mechanical-rubber articles and industrial asbestos goods with the possibility of constrained press moulds decatenation directly in the press.

The modernization of vulcanization hydraulic press was aimed at increasing of operational equipment parameters such as productivity, reliability, accuracy, safe and easy operation, and at life extension.

The modernization was to the replacement of allhydraulic drive and improvement of press control system. Let's look at control system.

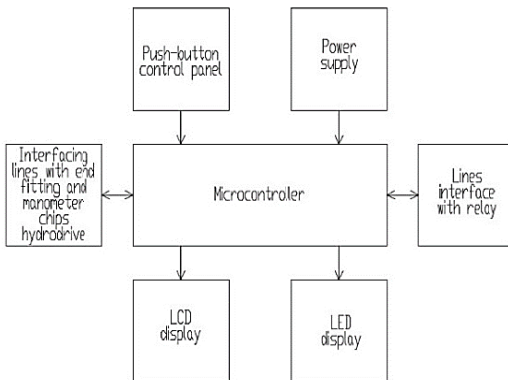


Fig. 1. Control system schematic structure

As a result, device for press control has been developed. Schematic structure of device is shown on the figure 1. Device works at 2 modes: manual and automatic. Manual mode is used for work with operating console involving manual operator. Automatic mode allows the manual operator not to participate in pressing process. So, operator can observe the press work using this mode. Mode selection is depends on the work control level.

It was realized the main functions as time delays matching, automatic lifting with upper point delay and pressure level monitoring, and sure gradual fall movement.