

## ABSTRACT

The degree project is 63 pages and contains 17 figures, 5 tables and 3 graphic sheets.

In the diploma project, a system for automatic control of the pressure of a plasticiser was developed. According to the calculations of the extruder power, an asynchronous 4AA56A4/2Y3 engine was selected. In the Matlab program, a model for automatic control of the plasticisers pressure was compiled using indirect vector control. The obtained results allow them to be used to automate the operation of the injection device.

EXTRUDER, VECTOR CONTROL, ASYNCHRONOUS MOTOR,  
PLASTICATOR, PRESSURE SENSOR, FREQUENCY CONVERTER

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