

## ***7.2.Summary***

### Determination of the Kinetics of Crushing of Mass-Produced Tablets

The degree paper aimed to determine the optimal parameters of the devices for the evaluation of the strength of tablets.

Rates of preloading from 0.01 to 0.1 mm/s, preloading from 1 to 4 N, and rates of the cycle from 5 to 20 N/s were tested. These parameters were evaluated on the basis of the records of the force–course. Deformation curves were employed to calculate the course of crushing in mm, crushing force in N, and energy of crushing in N.mm.

The reading of the curves was evaluated as well.

The obtained results were evaluated using the method of the analysis of diameters following Otto.

The results show that for the standard determination of mechanic resistance of tablets, the following adjustment of the device is suitable: rate of the cycle, 0.01 N/s, preloading, 4 N, rate of preloading, 5.mm/s.