

## **Summary**

In the standard manner, mechanical resistance is evaluated by tablet strength in Newtons or by radial strength in MPa. It expresses the force or pressure at which the tablet breaks or is deformed. A new method for expressing the mechanical properties of the tablet is the use of the record of the force–course, which is recorded directly during the process of destruction. This record makes it possible to characterize the crushing process by means of the course of crushing in mm, crushing force in Newtons, or energy of crushing in Nmm. The present paper is focused on the determination of the optimal adjustment of the devices for the measurement of tablet strength. They were tested at a rate of preloading within a range from 0.01 to 0.1 mm/s, preloading from 1 to 4 N, and a rate of the cycle from 5 to 20 N/s. It follows from the results of the paper that for standard measurements it is suitable to use the following adjustment of the device: rate of preloading, 0.01 mm/s, preloading, 4 N, and rate of the cycle 5 N/s.