

Annotation

The object of research in this work is a coordinate-measuring machine (CMM), and *the subject* is a hardware-software information system, which is issued as a platform for 3D measurement of parts with great accuracy. The algorithm for measuring and calculating the measured parameters is provided by special metrological software.

The purpose of this work is to measure parts with high accuracy, studying the principle of measuring parts on a given coordinate-measuring machine, followed by processing them in the software environment in the drawing. Also, carrying out work with a portable set of checking equipment, familiarization with its use, the principle of operation, testing in the software environment.

Structure and scope of work. This work consists of an annotation, an introduction, 4 main sections, a list of used literary sources. The work is placed on 30 pages of the main text and contains 7 figures and 4 tables. The number of information sources is 13 items.

Key words: coordinate-measuring machine (CMM), portable set of checking equipment (PSofCE), mobile measuring laboratory (MML), software environment, rotary head, contact measuring sensor.