

Machine for automated testing of materials and structures comprises a deformation mechanism with a drive of a movable loading carriage from an asynchronous three-phase motor, a force-measuring device, and displacement and deformation sensors. The force-measuring device is designed in the form of a strain gauge sensor installed on the movable carriage, and the power supply of the motor is provided from a program-controlled frequency converter. The force-measuring device, the frequency converter, and the deformation sensor are configured for interaction with a personal computer.