

Abstract:

***It's better not to touch – applications for optical extensometers***

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Optical extensometers are synonymous with non-contact deformation measurement. They have no influence on the material characteristics and are therefore frequently used in applications involving sensitive specimens. Because these extensometers are not exposed to damage by hard impacts they are also used with specimens displaying high fracture energy.

In some applications, however, they offer even more advantages for the user. By using the entire specimen surface, the pure software can provide much more information about the sample. One example is the automatic determination of specimens breaking position.

Relatively unfamiliar is measurement without specimen marking. The patented laserXtens 7-220 HP extensometer is based on the use of speckle patterns and offers unique technology which saves the operator time and allows the smallest possible changes to be measured.