

Optical inspection of a component

Abstract

5 The device is used for optical inspection of a component located on a fixture. The
fixture picks up the component at a delivery point, conveys it along a conveying path
to a deposit point, and deposits it there. A light source delivers light at a first acute
angle to the optical axis of an imaging sensor onto a first end face of the component
when the component located at the holder is oriented with its end face at least
normal to the optical axis of the imaging sensor. The latter inspects at least one side
10 surface of the component and/or an area inside the component near a second of the
end surfaces and near respective ones of the side surfaces. The imaging sensor
detects light emerging from the first end face to signal a distribution of the intensity
of the emerging light to an evaluation device. Depending on the signaled distribution
of the intensity of the emerging light, the evaluation device detects at least sectional
15 unevenness on a side surface of the component and/or sectional detachment of a
layer in the area of the second end surface.

Fig. 1