

Abstract

Method of checking components in pick-and-place robots

2.1. In pick-and-place robots (1), the checking of the components (3) to be fitted has previously been carried out manually, or carriers for the components (3) have been identified. Checking individual components (3) has previously not been provided.

2.2. By means of a camera (11) arranged on the pick-and-place head (4) and having an image evaluation unit connected downstream, an image of the surface (14) of the component (3) is recorded before it is fitted, and compared with a pattern of the component (3) previously stored in the image evaluation unit. Depending on the result of the comparison, a decision is made as to whether the correct component (3) is present and can be fitted or whether an error message is output. Suitable features for the pattern are lines of text (15,16), bar codes (17) or other markings (18).

2.3. Pick-and-place robots

3. FIG 1



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