

SCAN HEAD CALIBRATION SYSTEM AND METHOD

ABSTRACT

A method and system are provided for reducing a positioning error for positioning a light beam either onto or from a workpiece. A calibration mark is provided, and an image of the calibration mark is captured, to compare with a guide mark. The position of the guide mark corresponds to a set of design data or coordinates. The position of the image of the calibration mark is adjusted until the image matches with the guide mark. A set of vision compensating factors can therefore be determined. Thereafter, an image of a laser mark is captured, and adjusted to match the guide mark, to determine a set of scan head compensating factors. The set of design data can then be modified based on the vision compensating factors and the laser compensating factors, and used to position the laser beam onto the workpiece or capture light from a work piece to form an image.

(Fig. 3)