

ADDITIVE MANUFACTURING SYSTEMS AND METHODS OF CALIBRATING FOR ADDITIVELY PRINTING ON WORKPIECES

ABSTRACT

Additive manufacturing systems (100), methods, and computer readable media may be configured to perform a calibration. Calibrating an additive manufacturing system (100) may include comparing a digital representation of one or more calibration marks (1602) to a calibration-CAD model (1400) that includes one or more model calibration marks (1402), and applying a calibration adjustment to one or more CAD models (800, 850) based at least in part on the comparison. The digital representation of the one or more calibration marks (1602) may have been obtained using a vision system (102), and the one or more calibration marks (1602) may have been printed on a calibration surface (1500) according to the calibration-CAD model (1400) using an additive manufacturing machine (104). The calibration adjustment may be configured to align the one or more CAD models (800, 850) with one or more coordinates of the additive manufacturing system (100).

[Fig.16]