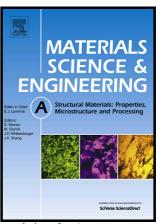
### Author's Accepted Manuscript

Experimental measurement of residual stress and distortion in additively manufactured stainless steel components with various dimensions

M. Ghasri-Khouzani, H. Peng, R. Rogge, R. Attardo, P. Ostiguy, J. Neidig, R. Billo, D. Hoelzle, M.R. Shankar



www.elsevier.com/locate/msea

PII: S0921-5093(17)31276-5

DOI: http://dx.doi.org/10.1016/j.msea.2017.09.108

Reference: MSA35575

To appear in: Materials Science & Engineering A

Received date: 23 July 2017

Revised date: 22 September 2017 Accepted date: 23 September 2017

Cite this article as: M. Ghasri-Khouzani, H. Peng, R. Rogge, R. Attardo, P. Ostiguy, J. Neidig, R. Billo, D. Hoelzle and M.R. Shankar, Experimental measurement of residual stress and distortion in additively manufactured stainless steel components with various dimensions, *Materials Science & Engineering A*, http://dx.doi.org/10.1016/j.msea.2017.09.108

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

### **ACCEPTED MANUSCRIPT**

# Experimental measurement of residual stress and distortion in additively manufactured stainless steel components with various dimensions

M. Ghasri-Khouzani<sup>1\*</sup>, H. Peng<sup>2</sup>, R. Rogge<sup>3</sup>, R. Attardo<sup>4</sup>, P. Ostiguy<sup>4</sup>, J. Neidig<sup>5</sup>, R. Billo<sup>6</sup>, D. Hoelzle<sup>7</sup>, M.R. Shankar<sup>1</sup>

<sup>1</sup> Department of Industrial Engineering, University of Pittsburgh, Pittsburgh, PA 15261, United
States

<sup>2</sup> Department of Aerospace and Mechanical Engineering, University of Notre Dame, Notre

Dame, IN 46556, United States

<sup>3</sup> Canadian Neutron Beam Centre, Chalk River Laboratories, Chalk River, ON K0J 1J0, Canada

<sup>4</sup> DePuy Synthes, Johnson & Johnson Company, Raynham, MA 02767, United States

<sup>5</sup> ITAMCO, Plymouth, IN 46563, United States

<sup>6</sup> Department of Computer Science and Engineering, University of Notre Dame, Notre Dame, IN 46556, United States

Department of Mechanical and Aerospace Engineering, The Ohio State University, Columbus, OH 43210, United States

\* Corresponding author email: mog20@pitt.edu

#### Download English Version:

## https://daneshyari.com/en/article/5455279

Download Persian Version:

https://daneshyari.com/article/5455279

<u>Daneshyari.com</u>