

Void evolution in sheet metal

Citation for published version (APA):

Tasan, C. C., Hoefnagels, J. P. M., & Geers, M. G. D. (2007). *Void evolution in sheet metal*. Poster session presented at Mate Poster Award 2007 : 12th Annual Poster Contest.

Document status and date:

Published: 01/01/2007

Document Version:

Publisher's PDF, also known as Version of Record (includes final page, issue and volume numbers)

Please check the document version of this publication:

- A submitted manuscript is the version of the article upon submission and before peer-review. There can be important differences between the submitted version and the official published version of record. People interested in the research are advised to contact the author for the final version of the publication, or visit the DOI to the publisher's website.
- The final author version and the galley proof are versions of the publication after peer review.
- The final published version features the final layout of the paper including the volume, issue and page numbers.

[Link to publication](#)

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal.

If the publication is distributed under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license above, please follow below link for the End User Agreement:

www.tue.nl/taverne

Take down policy

If you believe that this document breaches copyright please contact us at:

openaccess@tue.nl

providing details and we will investigate your claim.

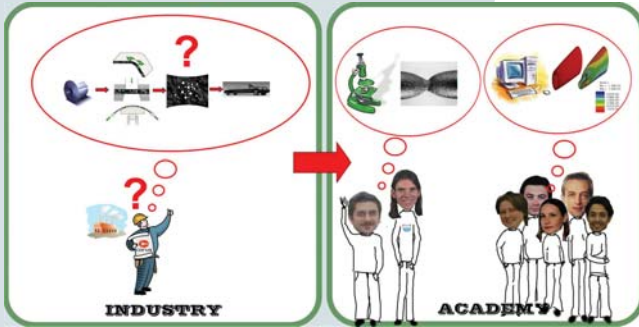
Void Evolution in Sheet Metal

C.C.Tasan, J.P.M.Hoefnagels, M.G.D.Geers

Eindhoven University of Technology, Department of Mechanical Engineering

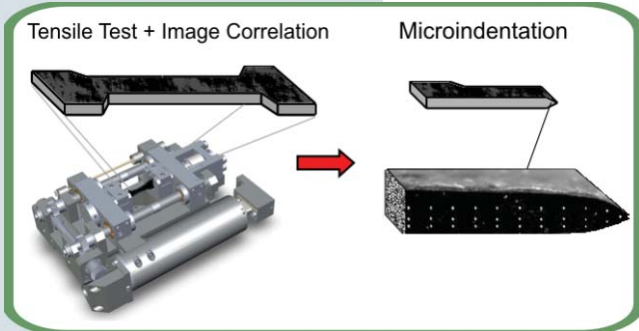
Goal

Damage in sheet metal is becoming increasingly significant for automotive industry. In this project, different experimental methodologies are being developed to study void evolution in sheet metal forming operations.

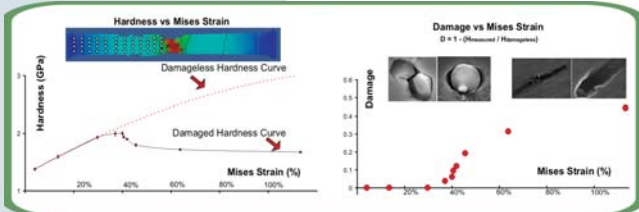


Method1- Microindentation Tests

Methodology

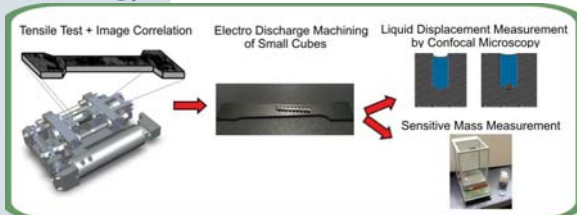


Results

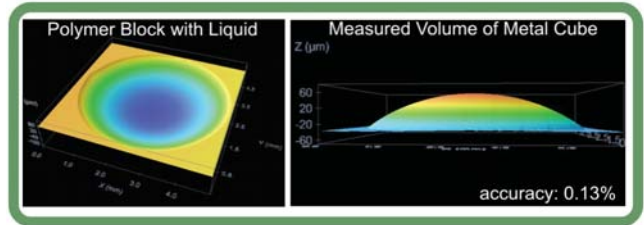


Method2- Density Measurements

Methodology

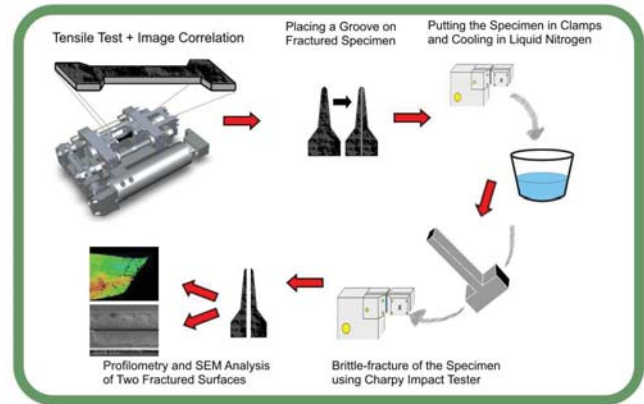


Preliminary Results

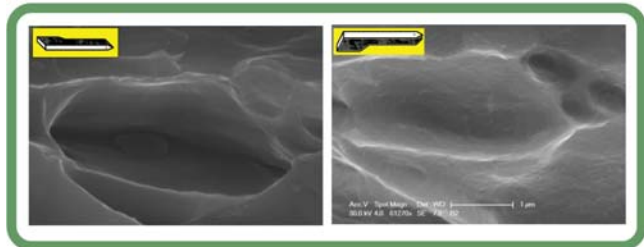


Method3- Exact Damage Metallography

Methodology



Preliminary Results



Future work

Method4- X-ray Tomography

