

Accepted Manuscript

Ductile damage and deformation mechanics in multistage single point incremental forming

Mohammad Javad Mirnia , Mostafa Vahdani , Mohsen Shamsari

PII: S0020-7403(17)32728-5
DOI: [10.1016/j.ijmecsci.2017.12.051](https://doi.org/10.1016/j.ijmecsci.2017.12.051)
Reference: MS 4115



To appear in: *International Journal of Mechanical Sciences*

Received date: 26 September 2017
Revised date: 18 December 2017
Accepted date: 31 December 2017

Please cite this article as: Mohammad Javad Mirnia , Mostafa Vahdani , Mohsen Shamsari , Ductile damage and deformation mechanics in multistage single point incremental forming, *International Journal of Mechanical Sciences* (2018), doi: [10.1016/j.ijmecsci.2017.12.051](https://doi.org/10.1016/j.ijmecsci.2017.12.051)

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Highlights

- Deformation mechanics and damage evolution in two-stage SPIF are investigated.
- MMC3 ductile fracture criterion with a nonlinear damage accumulation is utilized.
- Amount of ductile damage can be significantly affected by a multistage strategy.
- A sound part with less damage can be formed using the reverse strategy.

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