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Finite element analysis of the press forming process

Muhammad Awais, Joonas Sorvari, Panu Tanninen,
Teemu Leppänen

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Highlights

- Press forming of paperboard is studied with aid of finite element simulations.
- Especially the effect of creases on the formability is studied.
- The results show that high localized strains occur in paperboard tray corners during forming.
- The intensity and areal size of the localized strains can be decreased with aid of creases.
- Without creases the modeled tray edges are distorted and the required pressing force is high.

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