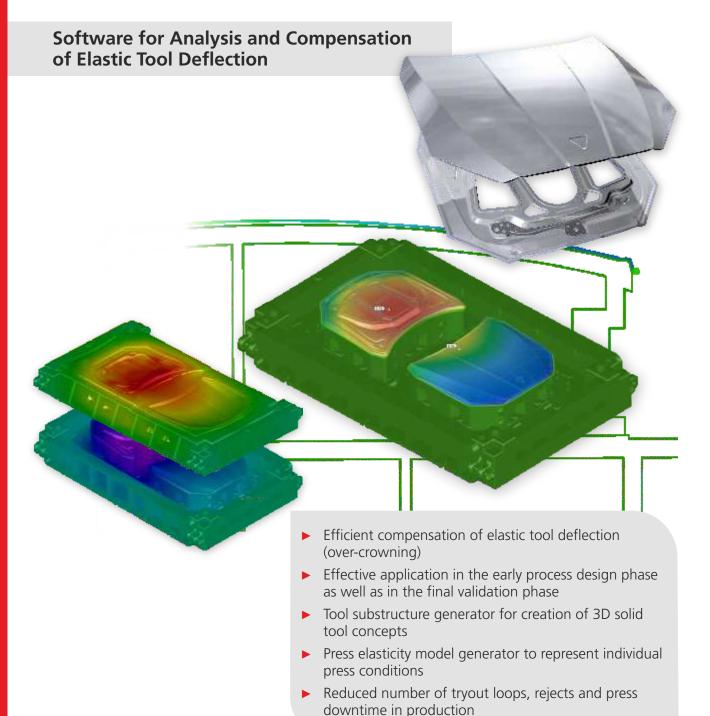
AutoForm-ToolDeflect







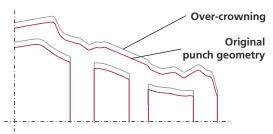
AutoForm-ToolDeflect

Efficient Elastic Tool Deflection Calculation and Compensation – Over-Crowning

AutoForm-ToolDeflect allows for efficient compensation of elastic tool deflection, a process known as over-crowning. The software can be easily applied in the early process design phase as well as in the final validation phase, enabling users to avoid unnecessary tryout loops and thereby improve production efficiency.

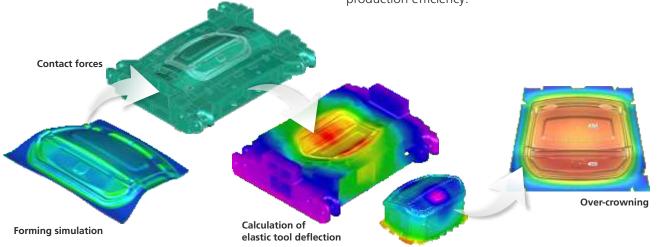
Tool deflection is an important issue in the manufacturing of parts as it leads to an increased number of tryout loops, rejects and press downtime in production. In order to ensure efficient production, deflection has to be compensated. AutoForm-ToolDeflect enables users to compensate elastic tool deflection by over-crowning tool surfaces automatically.

AutoForm-ToolDeflect can be applied in the early process design phase when the final tool geometry is not yet available in CAD. The newly developed substructure generator enables users to create a draft tool substructure, so that initial tool design concepts can be quickly created based on part geometry only. By analyzing various alternative concept designs, users can select the most effective design with minimal elastic tool deflection.



Efficient compensation of elastic tool deflection (over-crowning)

The software can also be applied in the final validation phase by using already existing final tool geometry data in CAD. When the tool deflection has been calculated, users can carry out an over-crowning. The software supports different over-crowning strategies, such as applying the compensation on both die surfaces or on one of them only. The over-crowning results can then be used for the milling preparation. In this way, AutoForm-ToolDeflect enables users to avoid unnecessary tryout loops and thus improve production efficiency.



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