AutoForm-Compensator

Software for Tool Geometry Compensation Based on Springback Results



- Direct use of springback results for tool surface and trim line compensation
- ► Full integration within process definition
- Quick and flexible evaluation of various compensation strategies
- Reduction of costly correction loops during tool tryout
- Complete tracking and documentation of strategy used in each iteration





AutoForm-Compensator

Automatic Adjustment of Tool Geometry

AutoForm-Compensator allows users to automatically modify tool surfaces based on springback results. In this way, the part can be produced within predefined dimensional tolerances. Process engineers can either accept the automatically detected compensation regions of the tool or edit selected regions according to their needs. Compensated tools are then used in the final validation process.

AutoForm-Compensator enables users to compensate tool gemetries based on springback results. The high flexibility of the software allows them to easily and quickly identify the most effective compensation strategy. As springback measurements of the simulated process can be carried out at any stage, the results can be used to compensate tools in any operation.

The software automatically detects the region of the tool which has to be compensated based on the springback results. The user can edit this region and/or define additional ones according to its needs. Regions with different characteristics can be defined as fixed (unchanged), transition (between direct and fixed ones),



Compensation strategy

fixed draft (rigidly translated) and direct (directly compensated). By defining these different regions, engineers are able to control compensation.

Once the tooling geometry is compensated, it is automatically used as input for the next simulation. With AutoForm-Compensator, users can create the final part geometry within the required tolerances and with a minimum of correction loops.



direct (yellow), transition (green), fixed draft (purple)

AutoForm Engineering – Company Offices

Switzerland	Pfäffikon SZ	+41 43 444 61 61
Germany	Dortmund	+49 231 9742 320
The Netherlands	Rotterdam	+31 180 668 255
France	Aix-en-Provence	+33 4 42 90 42 60
Spain	Barcelona	+34 93 320 84 22
Italy	Turin	+39 011 620 41 11
Czech Republic	Praha	+420 221 228 481
Sweden	Stockholm	+31 180 668 255
United States	Troy, MI	+1 888 428 8636
Mexico	Querétaro, Qro.	+52 442 208 8242
Brazil	São Bernardo do Campo	+55 11 4122 6777
India	Hyderabad	+91 40 4600 9598
China	Shanghai	+86 21 5386 1153
Japan	Tokyo	+81 3 6459 0881
Korea	Seoul	+82 2 6332 1150

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