

Design Optimization Of Springback In A Deepdrawing Process

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In the final design for H5110, the correction angle (f) is 1.673° and the die gap (d) is 0.868 mm at the optimum point, where springback is $1.432 \times 10^{-2}^\circ$. For AKDQ steel, the optimum values of f and die gap d are 0.912° and 0.909 mm, respectively, and the springback of final design is $4.77 \times 10^{-3}^\circ$.

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Both these strategies resort to optimization algorithms in order to achieve the main objective: springback compensation. Optimization algorithms search for the set of input variable that minimizes or maximizes a cost function. In case of inverse problems, the cost function is the mathematical formulation that measures the deviation between the ...

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The aim of this research is to optimize the die by entering a springback value in die design to improve product quality that is associated with accuracy the final size of the product. Simulation processes using AutoForm software are conducted to determine the optimal parameters to be used in the forming process.