

오토폼-시그마 프레스금형의 최적화 설계를 위한 박판 성형해석 솔루션

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AutoForm-Sigma : Software Solution for Sensitivity Analysis, Optimization and Robustness

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Abstract

The AutoForm-Sigma software module is specialized for analyzing and improving the robustness of sheet metal products and processes. It serves to improve and validate the forming process, and to reduce or eliminate part rejects. With AutoForm-Sigma, products and processes can be designed so that the resulting manufacturing process is most efficient and stable while meeting desired quality targets. The influence and sensitivity of design parameters are easily analyzed which leads to improved process know-how and shorter development times. In addition, statistical process control techniques can already be applied in the design phase, taking into account the noise and variability that are inherent in the forming process. Therefore, sheet metal formers can address and solve key manufacturing problems much before going into production, with obvious advantages.

Key Words : AutoForm Sigma, the robustness of sheet metal products and processes

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