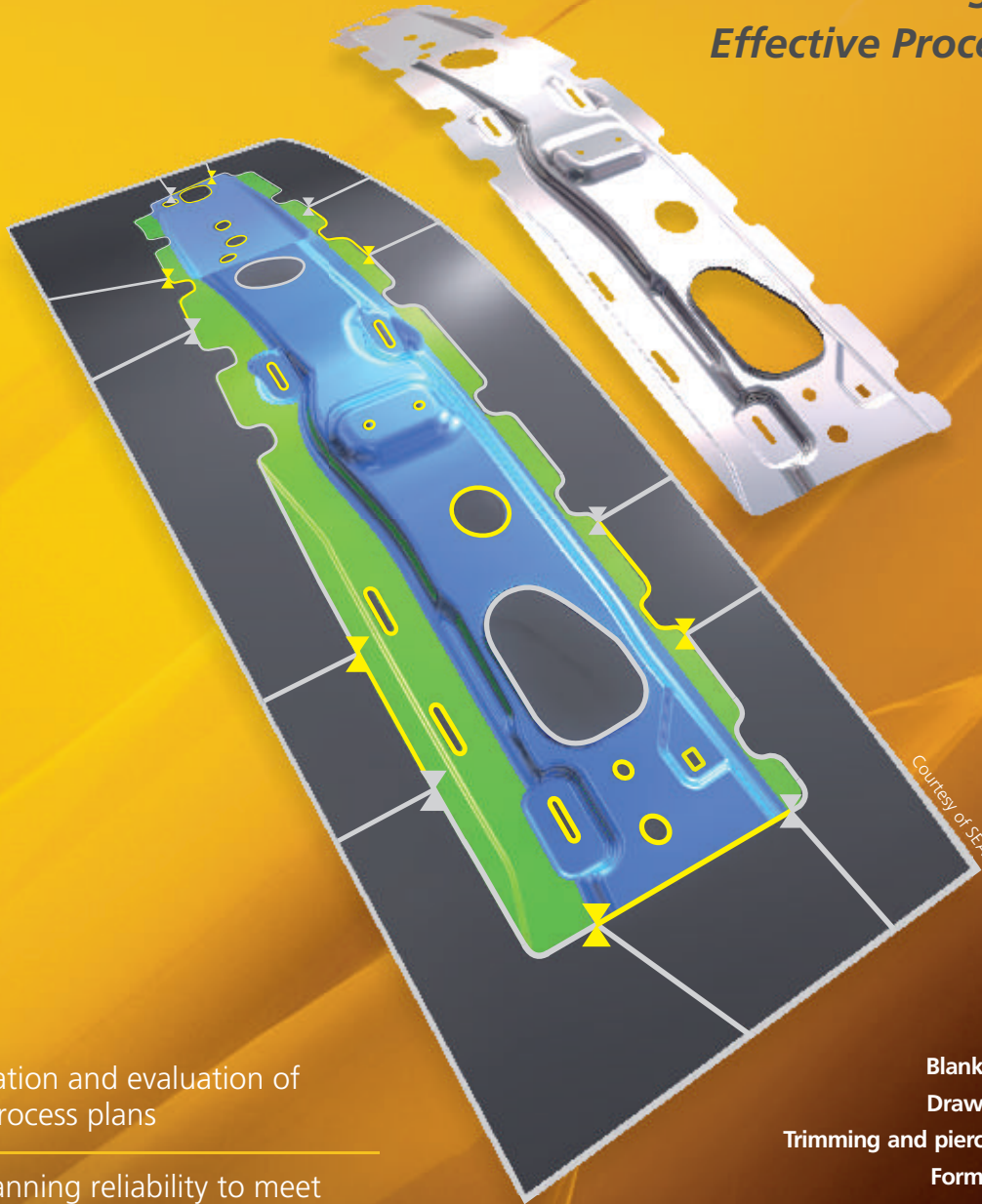


AutoForm ProcessPlanner

Software for
Effective Process Planning



Courtesy of SEAT

Rapid generation and evaluation of alternative process plans

Increased planning reliability to meet quality and cost targets

Direct transfer of process plan for process engineering and validation

Process plans based on part geometry features

3D definition and visualization of process engineering input

Blanking	OP10
Drawing	OP20
Trimming and piercing	OP30
Forming	OP40
Idle	OP50
Cam trimming and piercing	OP60

AutoForm-ProcessPlanner

Rapid Generation and Evaluation of Alternative Process Plans

AutoForm-ProcessPlanner software allows a wide range of AutoForm users to rapidly define alternative stamping processes and to evaluate their viability. The resulting process plans lead to the production of quality and cost effective parts within the guidelines and standards of their manufacturing operations.

Users of AutoForm-ProcessPlanner include planners and cost estimators early in the planning and bidding phases, as well as engineers later in the methods engineering and production planning phases.

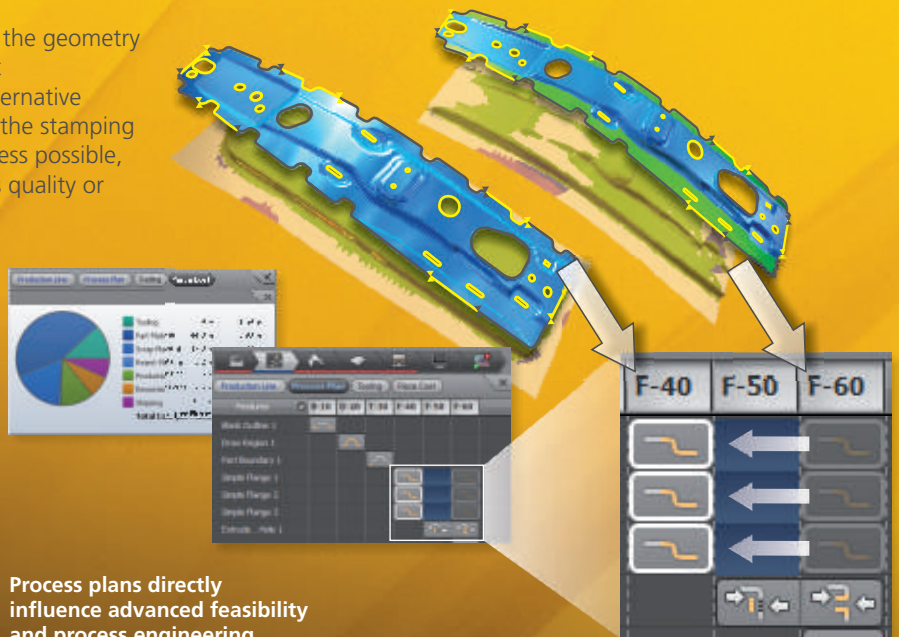
Planners and cost estimators use AutoForm-ProcessPlanner to generate basic process plans using 3D CAD part data, in order to estimate tooling and piece costs. Methods and stamping engineers use AutoForm-ProcessPlanner to generate more refined process plans that reflect additional product and process details. They use the software to evaluate, revise and document their process concepts. For these engineers, AutoForm-ProcessPlanner spans the gap between conventional static 2D standard process concepts and 3D die layout models.

AutoForm-ProcessPlanner automatically detects the geometry features (e.g. flanges, holes, edges) of the input CAD part data. Users can then rapidly create alternative process concepts. For example, they can define the stamping process steps that conform to the simplest process possible, or propose alternative processes to best address quality or cost goals.

The features of AutoForm-CostEstimator and AutoForm-StampingAdviser are now integrated in AutoForm-ProcessPlanner. As a result, users can estimate tooling and piece costs, optimize blank utilization and nesting, and assess manufacturability of parts.

AutoForm-ProcessPlanner also allows for the direct viewing and editing of proposed trim curves, press orientation and cam angles. The created process plan is immediately available as the basis for process engineering within AutoForm-Explorer, to guide the creation of required die face and simulation inputs. 3D representation of the process definition is available for export to CAD environments, for further die layout and die design activities.

Throughout the process engineering phase, as the die face and forming process are adjusted, AutoForm-ProcessPlanner enables the definition and editing of these alternative processes, ensuring that as the process matures so does the documented intent of the process plan.



Process plans directly influence advanced feasibility and process engineering.

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Publication PP-4-E

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