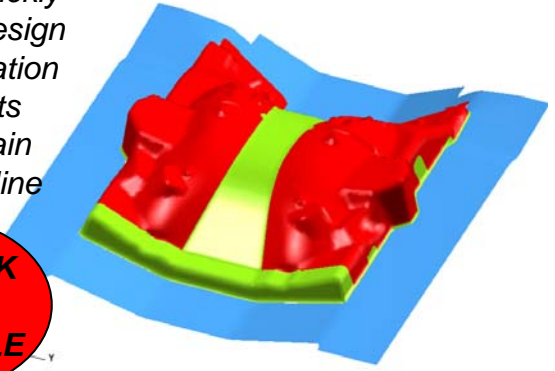


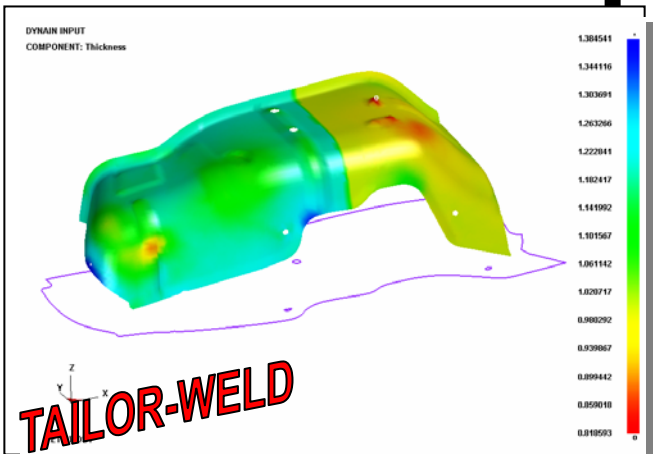
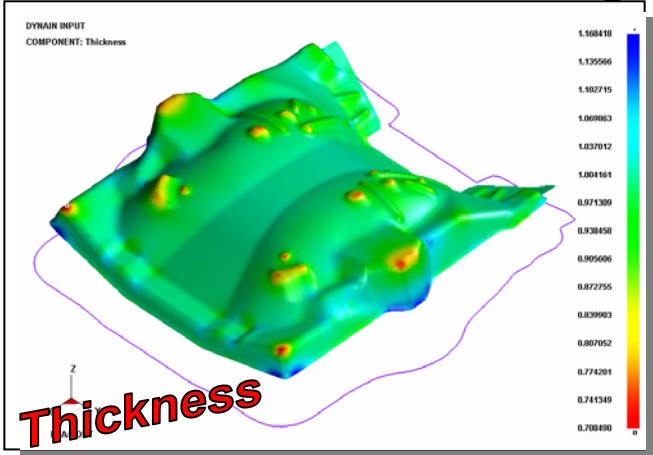
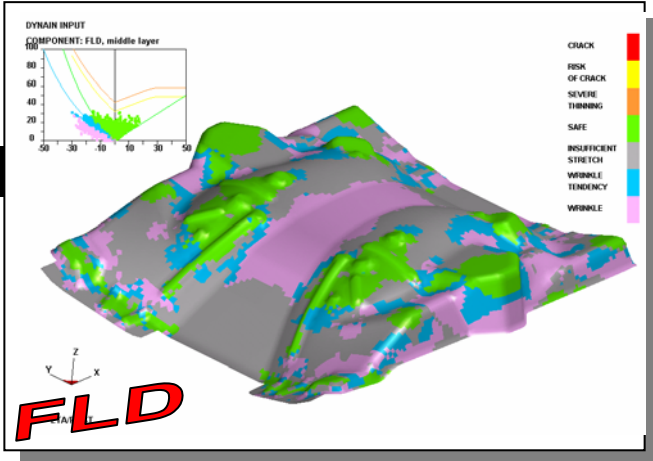
MSTEP (Modified-One-Step) Module

DYNAFORM

DYNAFORM's new MSTEP module is a complete solver for quickly gain the formability access at the very early stage of product design cycle. It is suited for simple feasibility analysis, for quick verification of a tool design and for the comparison of different tool concepts with the plot of thinning, Forming Limit Diagram, stress and strain and much more. Also allows for the estimation of the blank outline and thus the minimal material requirements.



NETWORK LICENSE AVAILABLE



QUICKLY FORMABILITY ACCESS

PART PREPARATION

Split the part top and bottom (inside & outside of material) generate mean (middle) surface automatically. Auto or Manual Tipping with Undercut or depth.

FLEXIBLE INPUT

The input of MSTEP is flexible permits user input model from only part to full tools. Part or Die is an essential input and holder, curve binder and pad are optional input. More input gains more accurate result.

Form Type	1	2	3	4	5	6	7	8
Holder	no	no	no	no	yes	yes	yes	yes
Curve Binder	no	yes	no	yes	no	yes	no	yes
Pad	no	no	yes	yes	no	no	yes	yes

BOUNDARY CONDITION

Accurate account for the Binder force, Friction, Pad force, Bead Force, curve binder surface.

FLANGE UNFOLD AND TRIMMING LINE DETERMING

Allows you to unfold flanges and calculate the position of the trimming line besides accurate developed blank.

TAILOR-WELD BLANK

Account for the tailor-weld blank, show the effect of the tailor-weld lines.

QUICKLY SOLVER

Friendly GUI, Intuitive of setup without FEA knowledge, Fast calculate in extremely short time with completely designed tools.

ABUNDANT VALUABLE RESULT FEEDBACK

Deformation, Forming Limit Diagram, Areas of splitting and excessive thinning, Potential for wrinkling, stress and strain.

FAST CALCULATE IN EXTREMELY SHORT TIME WITH COMPLETELY DESIGNED TOOLS



1133 E Maple Road
Troy, MI 48083

Telephone (248) 729-3010

www.eta.com