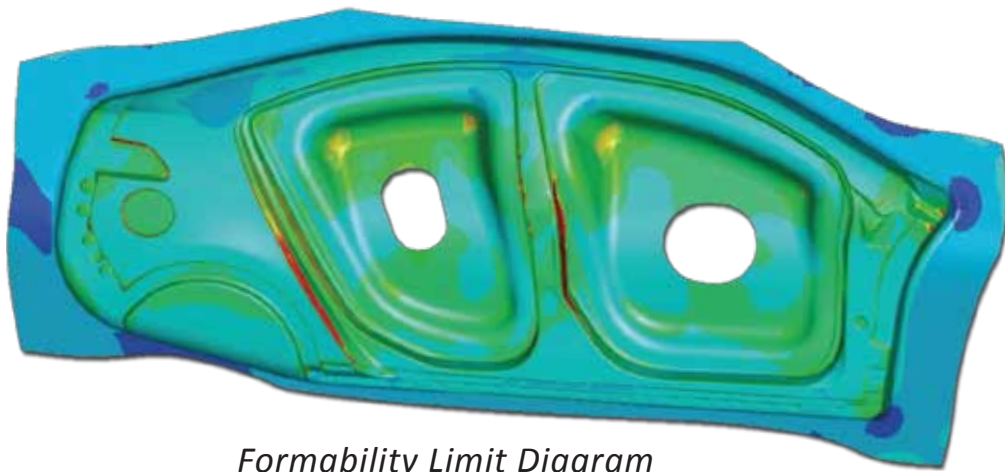


# *Uncover Design Flaws & Optimize Product Designs*

Accurate formability results prevent costly manufacturing issues.



*Formability Limit Diagram*

This powerful module facilitates the rapid development & validation of both single-station and progressive die designs. FS helps to uncover hidden problem areas and enables designers to optimize designs based on accurate LS-DYNA® based forming results.

FS is now enhanced with **optimization**. Engineers now can go beyond identifying problem areas by incorporating design optimization within simulation to improve performance & quality—reducing wrinkling, thinning & tearing. FS also now offers improved trim line development.

#### **Features**

- Quick & easy set-up
- Multiple tools & multi-station progressive die simulations
- User-friendly guided user interface

#### **Material Library**

- Standard material types
- Mild, high strength & stainless steel materials
- New dual phase steel, aluminum & metallic alloys

#### **Functions**

- Superplastic forming, Hot Forming, Hydroforming & Roller Hemming capabilities
- Springback Analysis & Springback Compensation
- Tube Bending for multi-stage rotary draw bending simulations

#### **Usable Feedback Results**

- Forming Limit Diagram (FLD) indicates problem areas
- Predict splitting, thinning & wrinkling
- Springback compensation