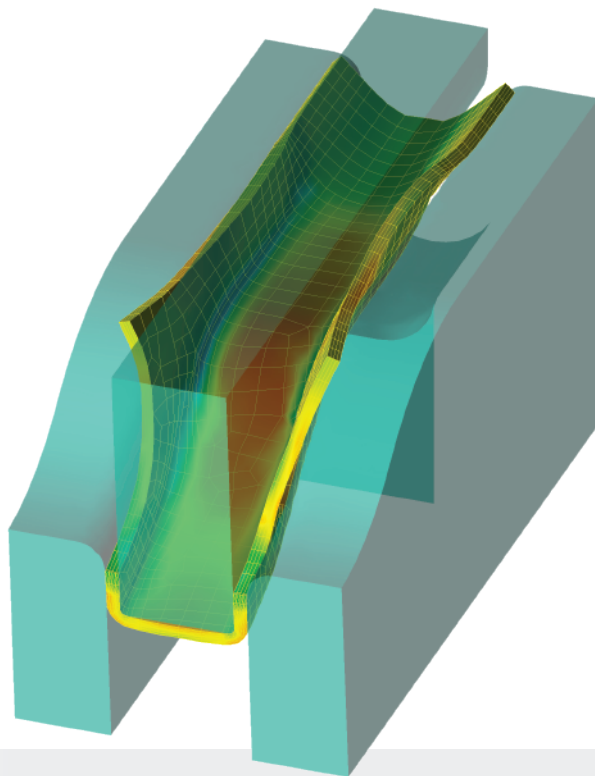


QFORM UK

SHEET METAL FORMING



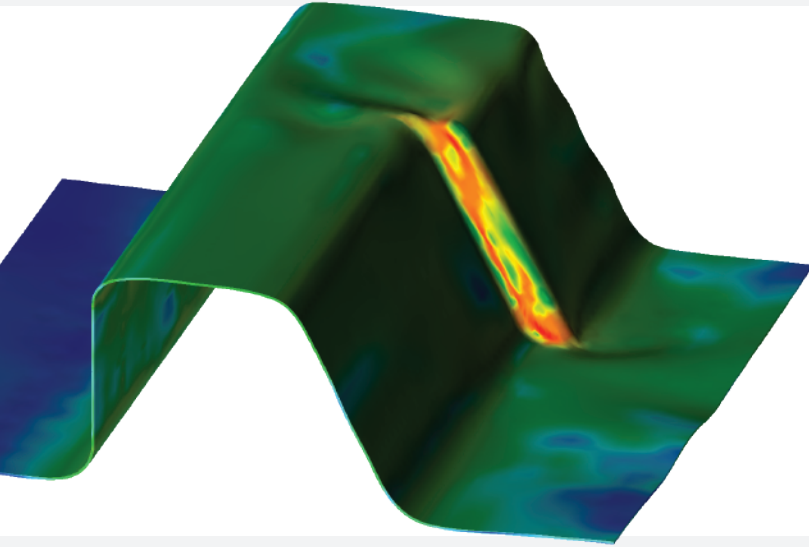
SOFTWARE FOR SIMULATION, ANALYSIS AND OPTIMIZATION OF METAL FORMING PROCESSES

Validated by industry worldwide
Integrated with CAD/CAM
Easy-to-use interface
24/7 online support
High performance

Reduce costs
Boost productivity
Increase profitability
Extend your product range
Get more from your equipment

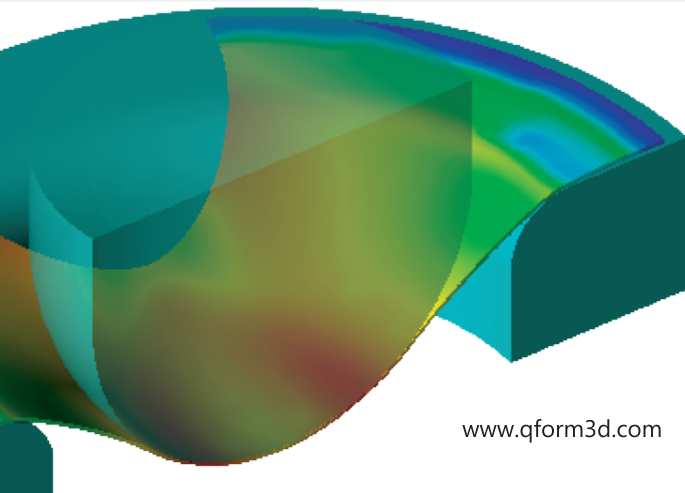
ORTHOTROPIC ANALYSIS

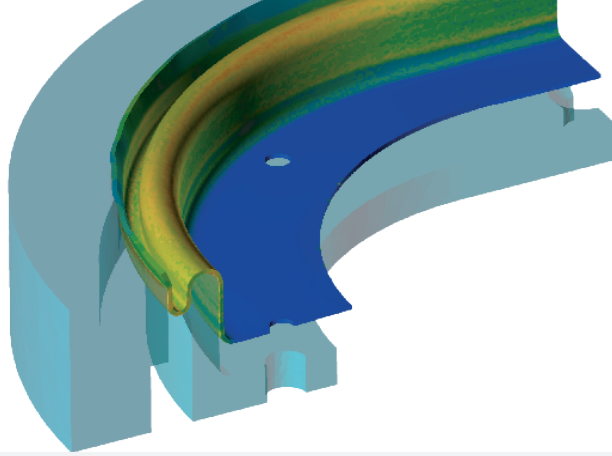
Accounting for orthotropic properties enables a more accurate prediction of material flow in anisotropic workpieces — for example, the earing formation during the deep drawing of a cylindrical cup.



ADVANCED DEFECT PREDICTION

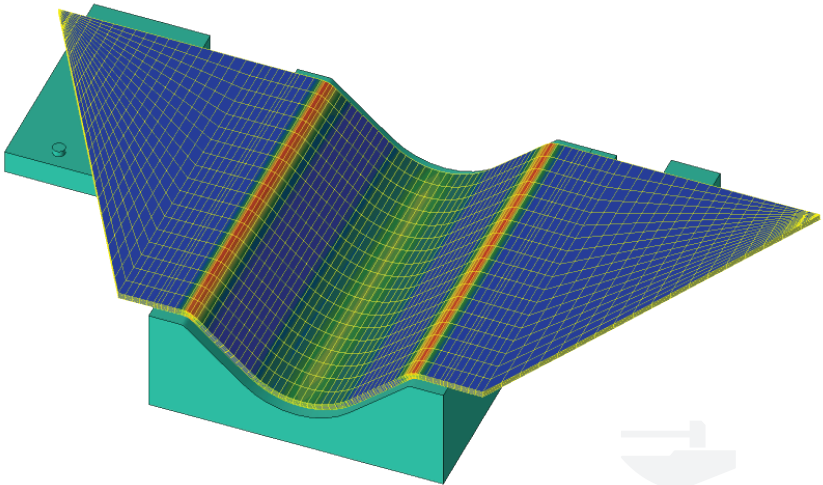
The use of Forming Limit Diagrams (FLD) within the calculation makes it possible to detect splits, excessive thinning, wrinkles and insufficient stretching.





FASTER SIMULATIONS, ACCURATE RESULTS

A hexahedral (brick) element mesh is used to simulate sheet metal forming operations. Such meshes contain significantly fewer nodes than tetrahedral meshes, which greatly reduces simulation time without compromising quality.



GEOMETRY CONTROL

Following simulation, you can evaluate workpiece springback and control both its thickness and final shape.

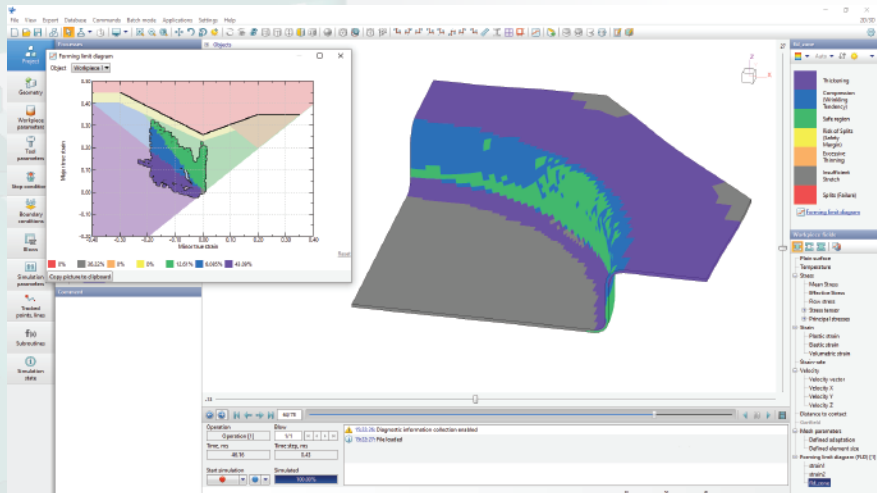
The elastic-plastic material model for accurate simulation of cold deformation and forecast of springback

Sheet thickness analysis

Forecasting process-related defects using the Forming Limit Diagram, as well as failure prediction based on known criteria such as Cockroft–Latham, Verzhbitskiy, and others.

Final workpiece geometry control

Use of compound and spring-loaded tools



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