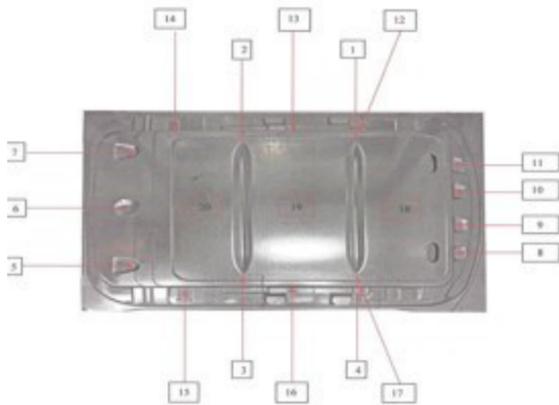


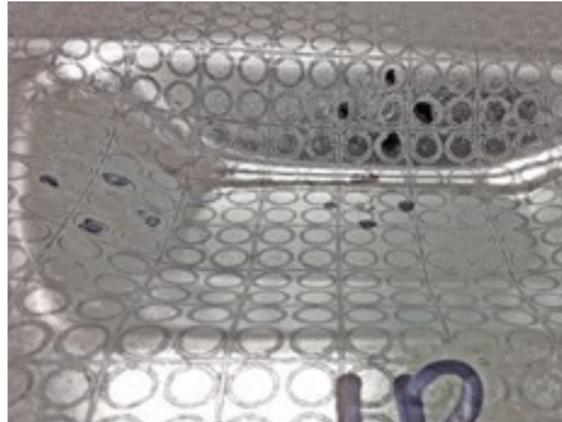
Forming Analysis

Learn how our Material Support & Solutions team solved this customer material issue.



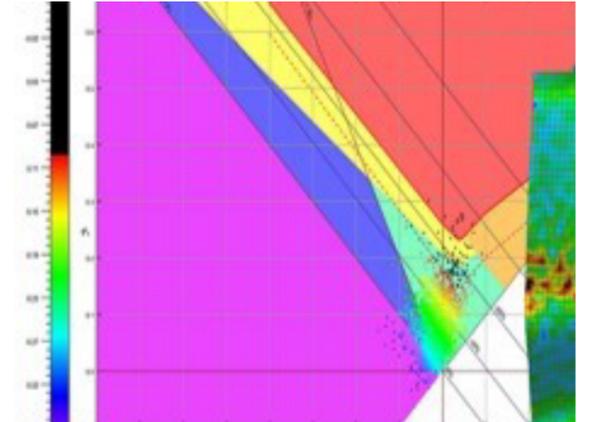
THE PROBLEM

The customer had to verify the structural safety of new parts and stampings. They engaged with Worthington Steel to perform a Circular Grid Analysis and Tensile Strength Analysis.



THE ANALYSIS

The Materials Support team at Worthington performed a circle grid analysis by electro-etching a circular pattern onto the steel, stamping it, and measuring the deformed circles to identify strains and thinning. A tensile strength test was also conducted to confirm the material met base specifications.



THE SOLUTION

Our metallurgists used the results of the Circular Grid Analysis to identify the areas of thinning that necessitated modification of the die and fine tuning of material properties, thus helping optimize the customer's process and saving development time to run the part successfully.

— THE ACTION

When thinning of a formed or bent part is a concern and you don't have the equipment or expertise to conduct the analysis, contact the Material Support & Solutions team at Worthington.