



# New Product Tooling Issue

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



## THE PROBLEM

A customer, who traditionally produced thin chain links, installed new presses to stamp thicker links. Shortly afterward the customer began experiencing worn tooling, breakage, and tool chipping.



## THE ANALYSIS

The Materials Support team found that the customer was ordering the same hardness specification for the steel to make the thicker links as the steel to make the thinner links. Because the steel to make the thicker links is thicker, it requires a lot more force to stamp out. To persevere the tooling in the customer's manufacturing process the incoming hardness of the steel needed to be reduced.

"It is well known that problem avoidance is an important part of problem solving."

## THE SOLUTION

Based on the customer's part specifications and manufacturing process the Worthington metallurgists determined the proper steel hardness to make the thicker links. They conducted trials to find the right % cold reduction to achieve that hardness. After making the adjustments the customer successfully stamped the thicker links without damaging their tooling.

## — THE ACTION

When you are experiencing worn tooling and chipping, contact the Material s Support & Solution t eam at Worthington.