



# Engineered Cost Savings Success Story

## **\$1,000,000 Program Savings Elimination of Requested Deburring Operation**

**Problem:** Recently, our customer asked us to add a deburring operation to a part which had been in production for years. The component, a shallow drawn shell, gets encapsulated in plastic by our customer. Due to an unanticipated safety concern a request was made to provide a burr-free edge around the part. Given the high volume the cost impact to perform a standard secondary deburring operation would exceed one-million dollars over the remaining life of the program. This was not an acceptable cost to our customer, or Perfection Spring & Stamping. This set the wheels in motion to come up with a unique solution, or a “Better mouse trap”.

**Method:** Perfection engineers brainstormed alternatives to reduce the anticipated cost delta to the customer. Our designers and engineers were tasked with eliminating the safety concern while minimizing the cost impact with a cap that could not exceed \$25,000. The obvious solution was to design and build a new progressive die with coining stations. As the cost of a new tool exceeded the budgeted allowance, our team continued to work the problem.

**Solution:** Through a unique design, Perfection added a method to automate a deburring operation into the primary manufacturing process. The final result was a clean part, free of burrs, and sharp edges which met the customer requirement. Even better, as this operation was concurrent with the rate of the primary operation, there was no additional cost to the customer’s part cost.

**Benefit:** The safety concern was not only eliminated, but we provided our customer with a solution to avoid a \$148,000 annual cost delta.

**Result:** We received praise from our customer for a job well done! When we can put our expertise to work for our customers’, ultimately we both win. We call it, “The Perfection Advantage”.

