



Engineered Cost Savings Success Story

\$420,000 Program Savings Torsion Spring Design Replaces Double Extension Spring

Problem: When Perfection receives a drawing to quote, our engineers always ask additional questions. These related to the application, the environment, and how it will be used in the final product. One such set of interrogatories yielded an opportunity to offer a “Better method” to our customer. We were provided with a design to manufacture a double-extension spring. Once we understood the application, and its requirements, our engineering team recommended a simplified design which we felt would work in their application.

Method: After the manufacture of prototypes, and testing by our customer, the design was approved to use a torsion spring to replace the original double extension spring.

Solution: The final result was a simple, effective, and surpassed the design requirements in our customer’s product specification.

Benefit: Cost, material usage, shipping weight, and cycle time were all reduced. Additional benefits included a lower stressed spring with increased life cycle expectancy. We provided the expertise and experience to “Simplify the design”, and when our working in cooperation with our customer’s engineers, the results were dramatic. Although this spring was relatively a low cost item, given the annual volume of 12,000,000 pieces, the cost savings equated to an annual savings of \$140,000! It’s not hard to see that over the life of the three year program we provided a savings of \$420,000.

Result: Once again, we were able to provide a better solution at a lower price. When our customers cost goes down, ultimately, we both win! We call it, “The Perfection Advantage”.

Original Design

Perfection Solution

