



## Industry Case Studies

Product Type: Extension Spring

Forming Method: Coiling Machine

Industry: Commercial / Consumer Appliances

Product Application: Refrigerator Freezer Drawer

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### **The Customer's Problem:**

The current spring was failing to perform as intended. There was failure to operate properly, which included the inability of the springs to fully close the drawer and an excessive force needed to open the drawer. Field fractures were also being documented frequently. Because of all of the recurring issues, the customer needed better springs as promptly as possible. Furthermore, all mating components were castings and plastics, which could not be modified due to high tooling costs involved.

### **The Advanex Solution:**

Advanex was able to offer engineering design assistance and despite the various constraints present in the mating components, a functional option was offered. Prototypes were quickly made by utilizing the in-house prototype area. The customer was invited to the Advanex plant to be present during the manufacture of the springs, which were then tested and approved on site.

Mass production of the springs followed in the next couple of days, at which time the customer was able to retrofit the refrigerator units and thus eliminate the operational and breakage issues seen on the field.

### **Customer Testimonial:**

**Customer Name:** Accuride

**Advanex Salesperson:** Don Bach / Antonio Aguilar

**Key Customer Contact:** Pablo Mares / Enrique Avalos

**VP or higher level contact (that can also be quoted):** \_\_\_\_\_