

CNC - Specialty Pitched Hose Guard Spring used in hospital X-ray machines.
When parts of the machine are moving for full scanning work, this spring keeps the wiring from getting tangled, allowing the machine to move freely.



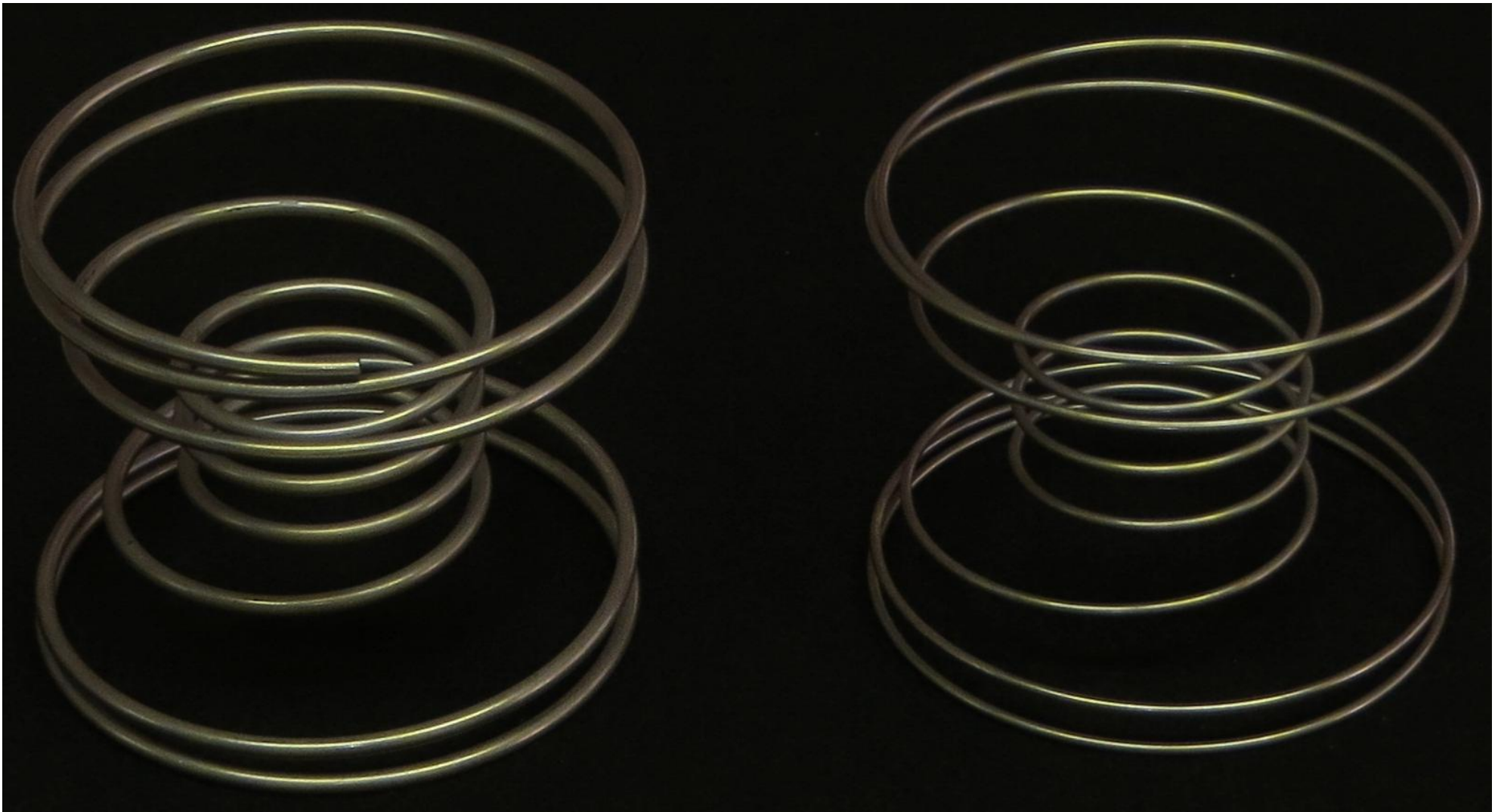
Stock Spring



Custom Spring



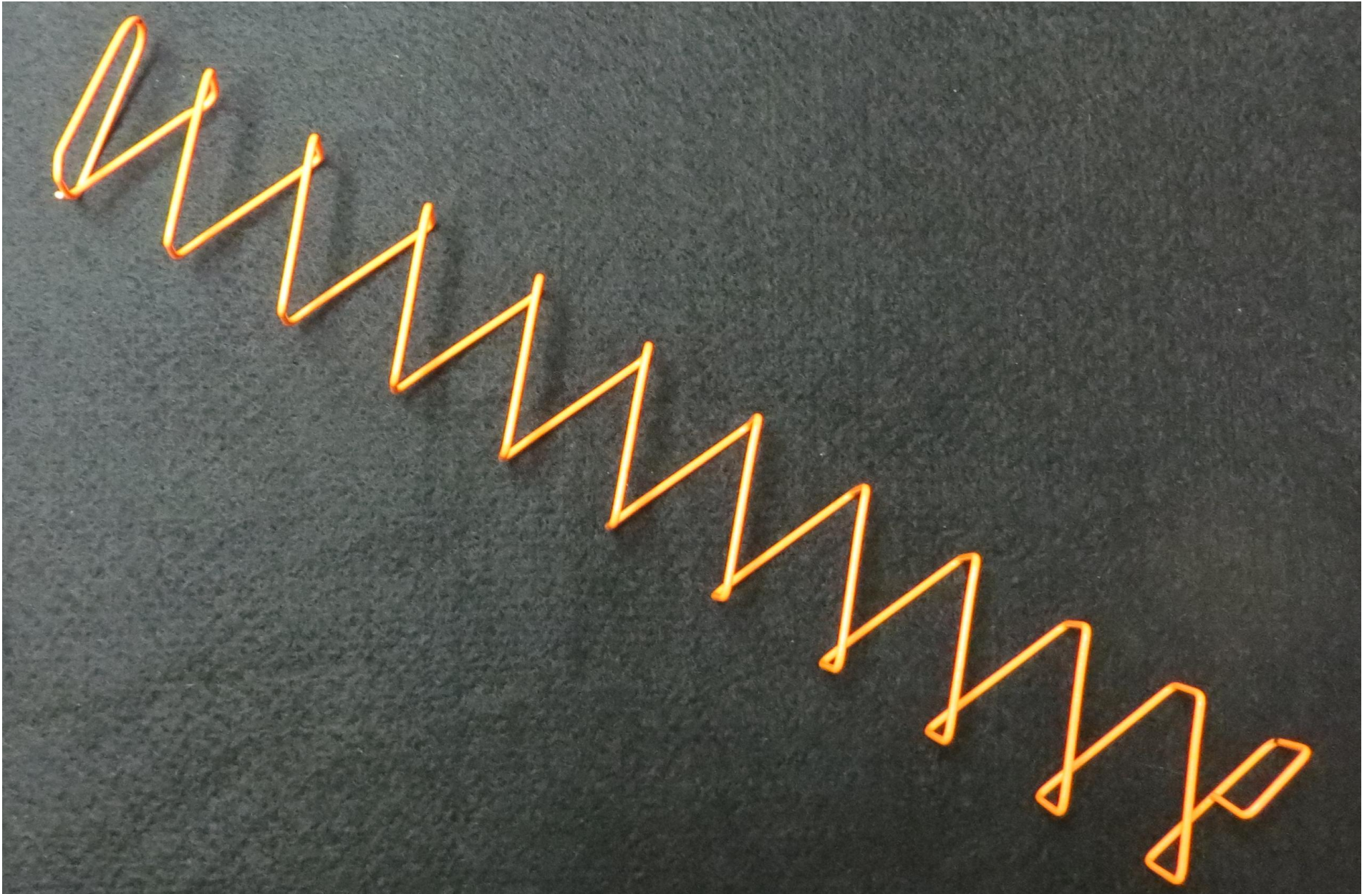
Stock Spring



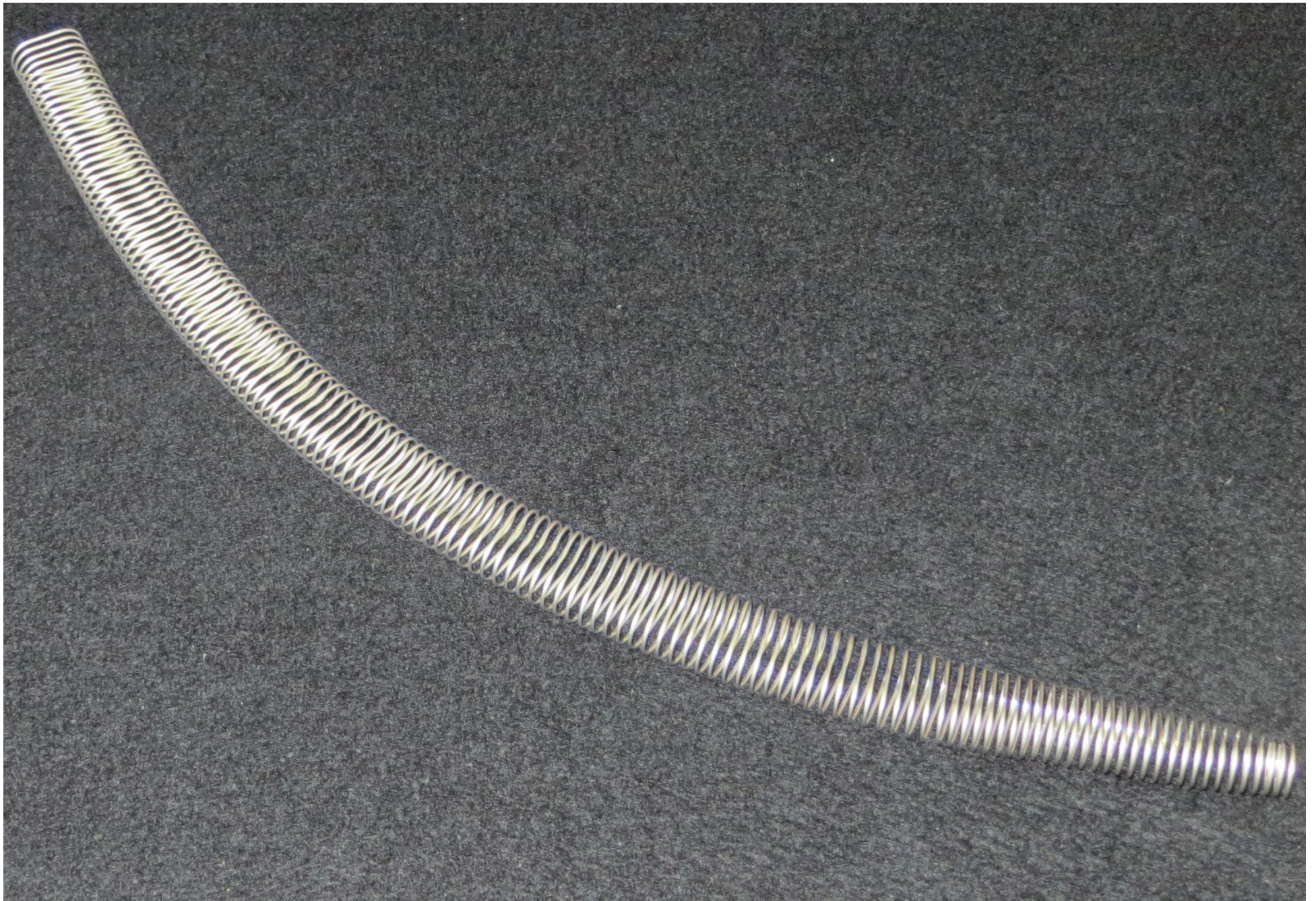
An example of why additional information given to Ace by the customer can aid in the engineering of a proper design. The customer approached Ace to make a Dumbbell or Hourglass Compression Spring for him, but would not say what it was ultimately for, only that it had to be exact to his specifications. Ace reviewed the specs, and the Design Engineers came up with a suggestion on how the spring could work better than the measurements given, however, without knowing the end use, Ace's Design assistance could only go so far. The customer said to just focus on the measurements and make the spring as he asked. Ace did, and when the customer received the spring to test it, it did not work the way he thought it would. He then came back to Ace, this time telling the company what the spring was for, and how it was to be used, and Ace design engineers were able to fix the design of the spring to ultimately fill the customer's needs.



CNC - Specialty Compression Spring used for cooking a ham.
The spring ends fit onto a pump that is used to inject salt and water into the ham.
During the cooking process, this spring helps keep the ham moist.
Forces are regulated by spring.



Magazine spring used in a machine gun clip. In the past, the M-16 assault rifle jammed when a soldier would fire the weapon, stop, and then fire again. The clip needed to be removed from the gun, banged against the leg or helmet, and then re-inserted for the gun work again. Once the spring pictured above was created and used, the M-16 assault rifle no longer has a jamming issue and works perfectly.



**CNC-Specialty Pitched Hose Guard Spring used by NASA in astronauts' space suits.
It keeps the oxygen lines from the back pack to the helmet from kinking, thus allowing the astronaut to
continually receive a steady flow of oxygen.**



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**This is a Pool Spring Assembly, a Drawbar Spring consisting of a compression spring and two drawbars.
It holds the cover on the pool during periods of non-use.
It helps protect from leaves, rain, and other items due to seasonal changes and the weather.**



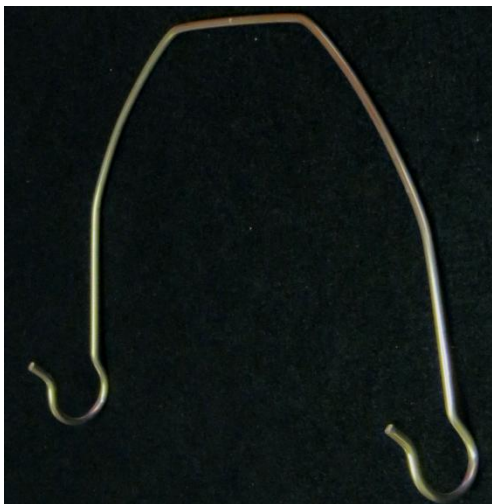
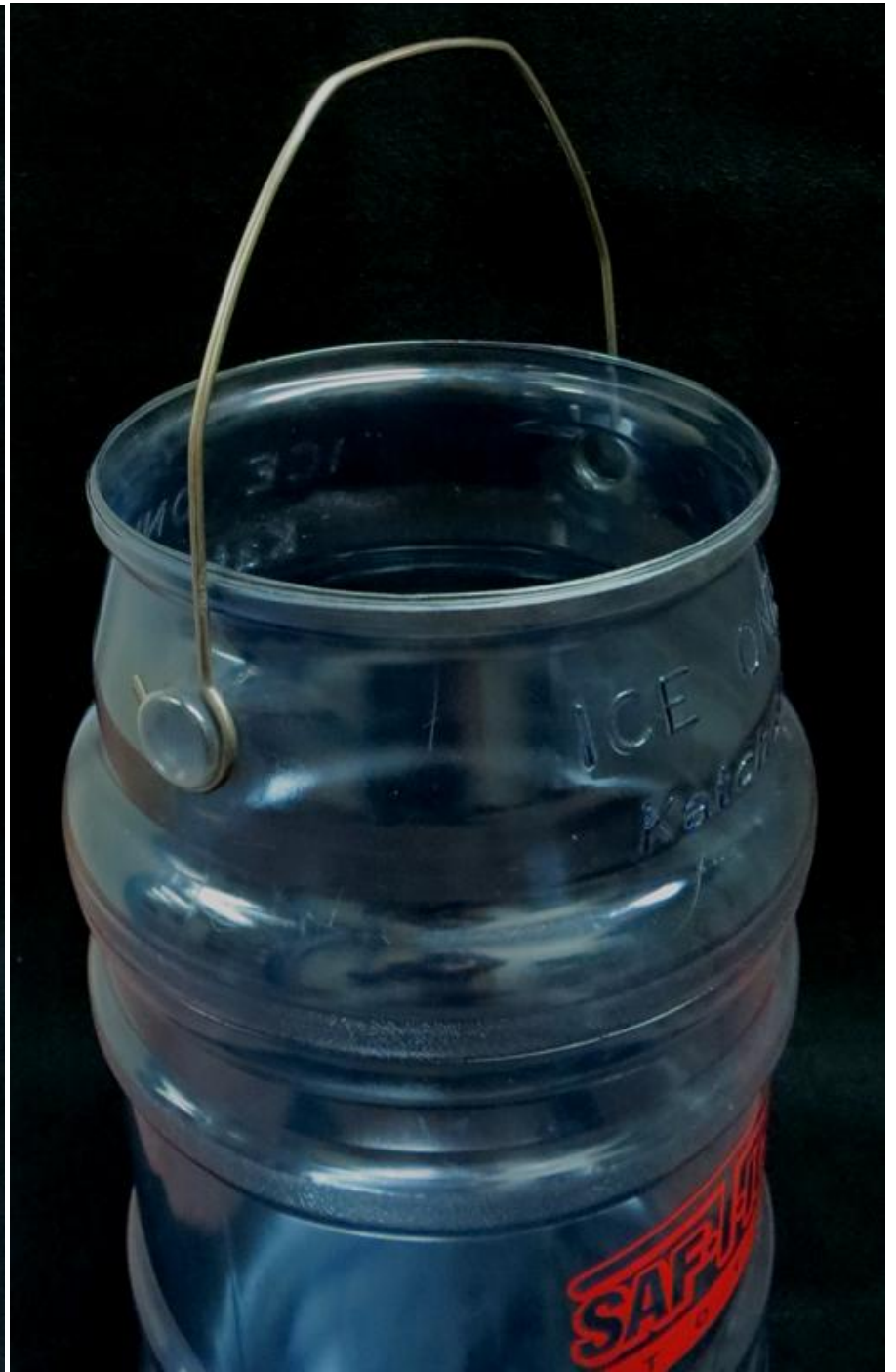
Cone Compression Spring used in a button apparatus assembly for missile launch systems.



Torsion Spring used in wind generators for power generation. They carry an electrical current.



Close Wound Spring designed and used for putting corks into wine bottles.



Wire form used as a handle on ice buckets common to restaurants, bars, and eatery kitchens.