

EnPRO 358 Product Team

Prototype Development

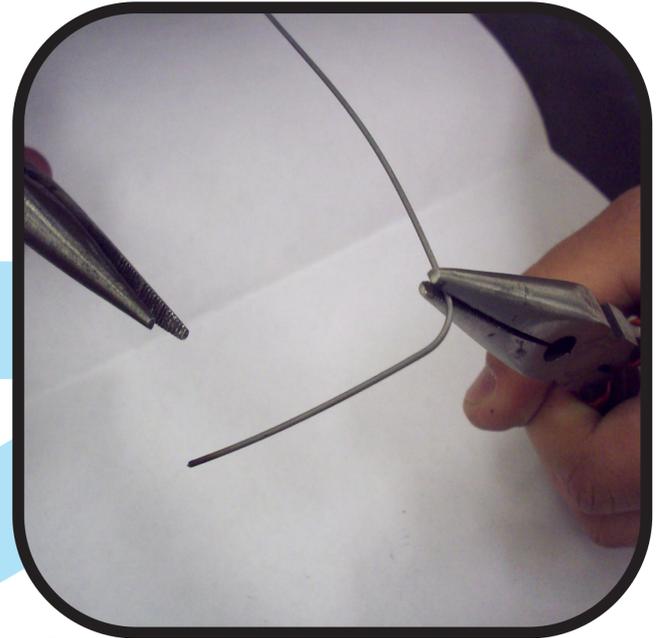
Delta Hook Creation Process



1 Wire and charcoal are placed into a pipe and sealed airtight



2 The pipes are placed into an oven to allow the wire to normalize



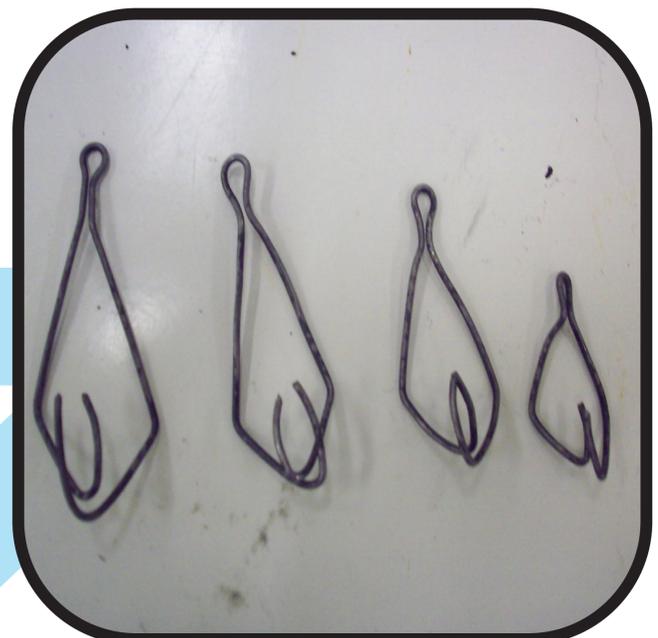
3 Once normalized, the wire is easier to bend and can be done with a set of pliers



4 Using a template, the wire is hand bent into the profile of the Delta Hook



5 The bent hooks are placed into an oven to be heat treated and then again to be tempered



6 The heat treating has strengthened the wire, and the tempering got rid of any brittleness it may have had



7a The two pieces of wire are joined together using a crimped piece of copper

7a or 7b

◀ Crimped Prototype
+ very durable
+ sleeker profile
- less flexible

Rubber Ball Prototype ▶
+ great flexibility
- less durability
- less elegant



7b The hook pieces are arranged through a hard rubber ball, allowing greater flexibility