



Able Electropolishing Co.  
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## #1034 Brite Microfinishing/Reduced Galling

**Industry:** Medical - Manufacturers of medical devices and equipment

**Mfg/Method:** Machined

**Alloy:** 303 Stainless Steel

**Problem:** The part depicted is a critical component of a needleless injection system. The part literally rubs against another metal part surface, and the metal-to-metal contact was creating some product performance problems. The customer needed to reduce galling which was leading to premature wear in the device.

**Solution:** Electropolishing smoothed out the surface of the body by removing the outer layer of metal. Subsequent tests showed an improved cycle life of the part.



**Note to engineer:** *Galling is a common problem where intimate contact of metal surfaces occurs. For details on galling, its causes and possible solutions, the fastener industry has done extensive research. If you suspect a galling problem, we can work with you by processing samples.*