



World Class Cleaning Solutions

Case Study

Medical Device Manufacturer-PERC Replacement

CUSTOMER DETAILS

- Parts Cleaned:** Inserts for surgical devices
- Removing What Soil(s):** Oils from cutting and grinding, Universal Photonics #48 transparent pitch wax and Red Rouge buffing/polishing media
- Why are Parts Degreased:** To remove the soils prior to heat treat and brazing

CUSTOMER PROCESS BRULIN REPLACED

- Current Chemistry:** Perchloroethylene (PERC)
- Concentration:** RTU
- Washer Type:** Baron Blakeslee vapor degreaser
- Specific Metals:** Stainless Steel and Tungsten Carbide
- Temperature:** 250°F (121°C)
- Time/Line Speed:** 10 minutes
- Customer Improvement Requested:** Replace the vapor degreasing process and not effect further processes

BRULIN IMPLEMENTED PROCESS

- Chemistry:** Bio-Solv Dewaxer
- Concentration:** RTU
- Equipment:** Ultrasonic immersion
- Temperature:** 155°F (68.3°C)
- Time/Line Speed:** 2 minutes
- Rinse:** Ultrasonic 155°F (68.3°C) 2 minutes

REASON BRULIN WON

The process provided complete soil removal from the inserts. The Brulin process did not affect the heat treat or braze process.

