



# World Class Cleaning Solutions

## Case Study CNC Manufacturer

### CUSTOMER DETAILS

**Who:** CNC Manufacturer: a Swiss screw machine shop with over 100 years of combined experience in the specialized art of Swiss Screw Machining of precision parts and assembly

**Parts Cleaned:** Aluminum / Stainless Steel / Copper

**Removing What:** Machine Oils used in Cutting Parts

**Scenario:** Customers require parts to be cleaned for delivery

**Equipment Used:** Blackstone - Ultrasonic Cleaner WRD-1414 (Wash/Rinse/Dryer)

### CUSTOMER'S CURRENT PROCESS

**Current Chemistry:** Simple Green

**Concentration:** 10 - 14%

**Specific Metals:** Aluminum / Stainless Steel / Copper

**Temperature:** 140oF (60°C)

**Time:** 10 min

**Rinse Water Temp:** 120°F (48.9°C)

**Rinse Water Number and Time:** 1 to 2 times

**Approx.** 10 min.

**Dry:** In Tank

**Tank Life:** Change tank twice weekly due to bath color & clarity

**Customer Improvement Requested:** Poor parts cleaning meant customer needs to repeat process and no supplier support



### BRULIN RECOMMENDED PROCESS

**Chemistry:** AquaVantage® 815 GD

**Concentration:** 5%

**Temperature:** 140°F (60°C)

**Time:** 3 minute wash

**Rinse Water Temp:** 120°F (48.9°C)

**Rinse Water Number and Time:** 1 for 5 min

**Dry:** In tank / air dry

**Tank Life:** 2 weeks / will change as they see benefits

### RESULTS

Cleaner finished product with reduced cost.

### REASON BRULIN WON

Lowered Cleaning time, extended tank, produced cleaner finished product.