

# World Class Cleaning Solutions

## **Case Study**

### **Automotive Tubes Manufacturer**

#### **CUSTOMER DETAILS**

Who: Multinational Automotive Parts Manufacturer

Parts Cleaned: Condenser and evaporator components that are used in automotive

air conditioning systems. **Specific Metals:** Aluminum

**Removing What Soil:** Various metalworking fluids used in bending, flaring, etc. Insoluble in water (separable). Flared sections can trap oils and impede cleaning.

Why: Parts must be degreased before assembly.

#### **EQUIPMENT USED**

Ramco Immersion "Turbo" washer -- platform oscillation with solution turbulation (spray under immersion) 250 gallon capacity wash, 250 gallon rinse.

#### **BRULIN PARTNER PROCESS**

Chemistry: AquaVantage® 815 GD

Concentration: 8-12% Temperature: 140°F / 60°C Time: 15 minutes wash time

Rinse Water Number and Time: 1 rinse stage, immersion with platform agitation (only);

rinse time 15 minutes, 140°F / 60°C **Dry:** Oven, 160°F / 71°C, 15 minutes

#### **RESULTS**

Cleaning performance is reliable: Once reported as 2 errors per 1,200 wash batches.

#### **REASON BRULIN WON**

Frequent troubleshooting support in response to perceived washing error, tank maintenance question, etc.

