

## CASE STUDY



### Cleaning of writing utensils

Machine: Aqualine 5AL30/25A  
Industrial sector: Jewellery / 112



Prior to cleaning



After cleaning

<b>Industry:</b>	Production of writing utensils
<b>Cleaning problem:</b>	Cleaning of fountain-pens without corroding the cellulose acetate foil
<b>Soiling:</b>	Polishing paste, dust, fine particles
<b>Solution:</b>	Ultrasonic immersion cleaning with warm air drying  Phase 1: Pre-cleaning with ultrasonics, warm, 60°C Phase 2: Cleaning with ultrasonics, warm, 60°C Phase 3: Immerse rinsing, cold tap water Phase 4: Immerse rinsing, DI water warm Phase 5: Immerse rinsing, DI water warm Phase 6: Warm air drying
<b>Capacity:</b>	12 charges per hour
<b>Requested quality:</b>	Particle-free, stainless, dry. Ready for quality inspection
<b>Return on investment:</b>	Replacement investment - The cleaning time has been reduced from 20 Min. to 2 Min. Productivity has been increased and the final quality of the products considerably improved.