



● FOOD INDUSTRY

Food Packaging Line Case Study **Puglia, Italy**

HydroFLOW® improved a glass-jar washing line, eliminating dried mineral marks and nozzle slime while significantly reducing chemical dosing.

7 days

No Mineral Marks on Jars

60 days

No Nozzle Slime Observed

80%

Lower Surfactant Dosing

9 months

Reported Payback

**BEFORE & AFTER**

● BEFORE

- White mineral marks after jar drying
- Slime clogged spray nozzles
- Dispersant and surfactant dosing required

● AFTER

- ✓ No jar deposits after seven days
- ✓ No nozzle slime after 60 days
- ✓ Dispersant stopped; surfactant cut 80%

**BEFORE***Jar without HydroFLOW®***AFTER***Jar with HydroFLOW®*



OVERVIEW

A food preserves manufacturer in Puglia used well water to wash glass jars after filling and sterilisation. The wash removed product residue, helped reveal oil leakage and prevented white mineral marks after drying. The system operated with well water at 19 °fH (190 ppm).



CHALLENGE

The jar-washing line experienced mineral deposits, nozzle slime and sudden foaming.

- White mineral deposits remained on dried jars
- Slime formations clogged spray nozzles
- Sudden foam affected the washing line
- Chemical dosing added operating cost



SOLUTION

HydroFLOW® was installed on the 1½-inch well-water inlet before the PP filter. Dispersant dosing stopped and surfactant dosing was reduced to 20%.

UNIT INSTALLED

1 × *HydroFLOW®* i45

INSTALLATION POINT

Well-water inlet before PP filter



RESULTS

✓ Jars Dried Without Marks

No mineral deposits were reported on dried jars after seven days.

🛡️ No Slime on Spray Nozzles

No slime development was observed on the spray nozzles after 60 days.

📉 Chemical Dosing Reduced

Dispersant was stopped and surfactant dosing reduced by 80%.

🕒 Nine-Month Payback

The source reports a nine-month payback for the i45.

KEY TAKEAWAY

Summary

HydroFLOW® eliminated dried mineral marks within seven days, with no nozzle slime observed after 60 days. Dispersant dosing stopped, surfactant dosing fell by 80%, and the reported payback was nine months.

7 days

NO MINERAL MARKS

80%

LOWER SURFACTANT DOSING

9 months

REPORTED PAYBACK

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