



Case Study – Beer Canning Line

Improved Yield

Location : Europe Beer Canning Line

Target : Reduced extract loss, reduced can rejects, reduced CO₂ consumption

Total Annualised Benefit
€ 498,550

Situation : The brewer was filling 330ml cans at 95,000 cans per hour on a KHS Innofill mechanical filler with approx. 60% of product filled Lager (Various strengths), 30% Pilsner, and 10% Cider. Operational performance of the line showed beer & Cider extract losses from over foaming, can reject rate of 0.5% due to under-fills and faulty cans and two CO₂ bubble breakers required to maintain acceptable TPO level (between 90-120ppb).

Solution : Cavitus fitted a Gen2 FoamControl unit to the line, rated to 120,000 cans per hour. As this line had high foam levels and a speed of 95,000cphr the larger powered unit was recommended. The Cavitus unit was fitted just before the last CO₂ bubble breaker and 40cm prior to the seamer entrance. The installation of the transducer/sonotrode on the conveyor was completed in 40 minutes (minimal 40 minute down time of the line and impact on production) and the cabinet control panel was fitted outside of the filler.

Result : By applying the Cavitus foam control system, reducing the foam loss around the last bubble breaker and seamer section of the line, the client was able to reduce beer loss extract by 2ml per can on all SKU products (by adjustment of beer filler set-

tings on filler), eliminate both CO₂ bubble breakers completely whilst still maintaining the same TPO level and reduce the beer can reject rate from 0.5% to 0.24% due to less underfills.

Payback period for the client was less than 1 month.



Business Case returns based on an average 95,000 cph facility, operating for 7000 hours per annum at 70% OEE, 330ml can

Improvement	Est Volume per annum	Value
Fill Volume increased by 0.6% (2 ml per can reduced extract loss)	931,000 litres (0.18 euro per liter)	€ 167,580
Waste Treatment Saving at 5c per litre	931,000 litres from overfill on seamer (0.05euro per liter)	€ 46,550
Reduced reject reduction from underfills (0.5% to 0.24% achieved)	1,210,300 Cans less rejected. (based on value of can and product at 0.235euro per unit)	€ 284,420
Total Savings		€ 498,550

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