

# 6 PROFIT-EATING FLAWS IN YOUR FILLING SYSTEM





*Even the tiniest flaws affect the overall capacity of your filling plant. This guide highlights 6 of the most common profit-eating villains – plus the way to fight them.*

The filling carrousel is spinning, and the flow of freshly filled cylinders on the way to your customers is constant. By all accounts, your filling system is running perfectly, so you might not pay that much attention to it.

But you should. Slowly but steadily, minor flaws invisible to the untrained eye are eating away your profit.

## MINOR FLAWS HAVE A HUGE IMPACT

High-capacity filling is all about the output. Filling systems with carousels are optimised for maximum performance with all moving parts operating in perfect synch to obtain the most efficient production flow.

As a result, even the slightest delay in an operation can affect the overall plant capacity. And when you fill thousands of cylinders every day, minor flaws have a huge impact.

Here are 6 of the most common profit-eating problems that our service engineers often observe:

### Problem #1: Slow filling head decoupling

Minor flaws and delays in e.g. the filling head decoupling mechanism can cause an already filled cylinder to take an additional round on the carousel.

*Result: An unnecessary extra round on the carousel reduces the overall capacity.*

### Problem #2: No signal for decoupled filling head

If the photocell that detects that the filling head has been properly decoupled after filling is dirty or defect, an already filled cylinder might take an extra round on the carousel.

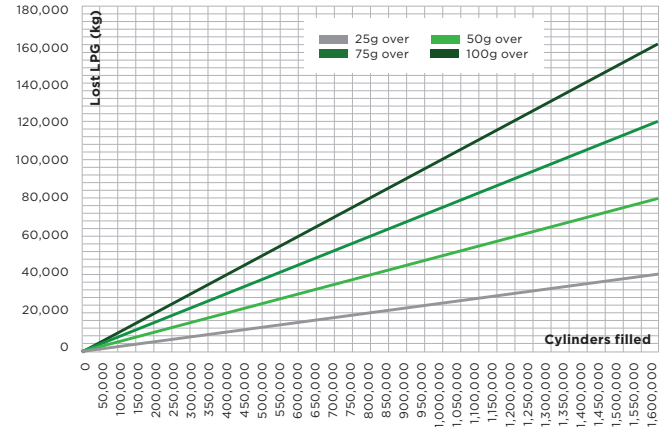
*Result: The same as for Problem #1.*

### Problem #3: Valve closing delay

A valve that closes with just a slight delay immediately impacts the filling accuracy and typically leads to overfilling.

*Result: Several tons of gas lost every year.*

Gas loss caused by overfilling



### Problem #4: Carousel speed too high

The filling capacity might decline if the carousel is spinning too fast. If the speed is higher than it should be, some of the cylinders may not be completely full when they finish a round.

*Result: The cylinders need to take an extra round on the carousel to be filled which slows down the overall capacity.*

### Problem #5: Leak detector disturbance

A leak detector cannot begin the test until the gas sensor is clean. If the concentration of gas in the air is too high, the machine will keep trying to clean the sensor head over and over again while the filled cylinders pile up.

*Result: Bottleneck in the filling line.*

### Problem #6: Insufficient cleaning and maintenance

A filling system that does not get the care it needs will suffer more from the daily wear and tear and consequently not last for as long as it could have.

*Result: Negative impact on financial results and a need for further investments in equipment.*



### WHAT CAN YOU DO ABOUT IT?

As you can see, there are plenty of small profit-eating bugs ready to invade your filling system. However, the good news is that it does not have to be like that.

Carefully cleaning and maintaining your equipment on a daily basis will take you a long way. That is why we always deliver thorough cleaning and maintenance instructions along with our equipment. Take the time to perform the recommended procedures, and start seeing the results on your bottom line.

We also offer to take on the task of keeping your filling plant in perfect condition through customised service agreements. Check out our website to learn more:

[www.makeenergy.com/service](http://www.makeenergy.com/service)





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