



Repeating Production Stops in the Beverage Industry



The Production Process:

Once the brewing of the beverage is completed, it is ready to be filled in cans. After the cleaning process of the empty cans they arrive at the filling station. At first, the cans get filled with CO₂ to preserve the flavor of the beer and then the beverage is filled automatically into the cans. Then they are moving on a conveyor belt towards the following production step, the lid dispenser and the seaming station to close the cans which are also fully automated production steps. Finally, the cans are cleaned and ready to be packaged.

The Problem:

The automated production flow gets interrupted multiple times because the conveyor belt between the cleaning and the filling station stopped. A can is damaged and deformed so that it blocks the flow of all the other cans on the conveyor belt. All cans stop moving and the filling station cannot operate because no more cans arrive. The cleaning station is also forced to stop because the conveyor belt is occupied with the blocked cans.

Read about the original troubleshooting and installation of EyeAtProduction on the next page.

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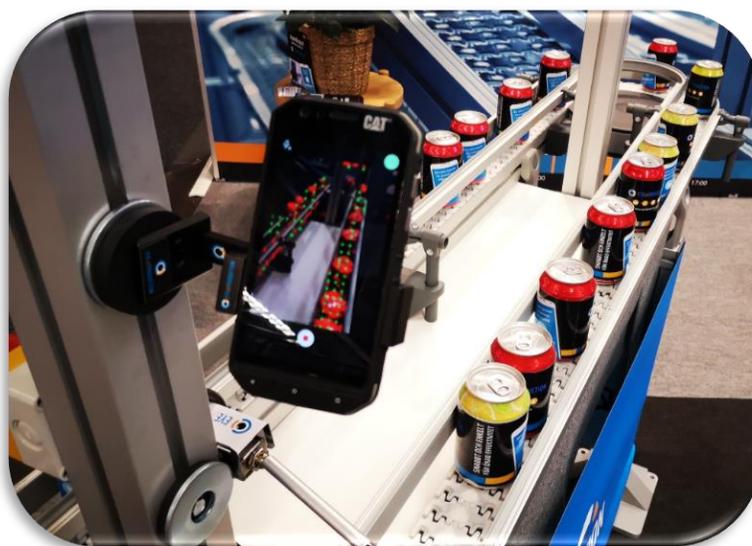
Original Troubleshooting Process:

The operator responsible for the filling process detects the production stillstand and moves towards the area where the conveyor belt is blocked. The damaged can is identified as the cause for the stop but the reason for the damage cannot be located easily. The operator has no knowledge what could have caused the damaged can and where it exactly happened.

It costs a lot time searching at the production line for the origin of the fault and in the end the operator decides just to remove the damaged can and restart production. However, this problem will repeat many more times and lead to frustration for the operator, decreases the production efficiency and costs a lot of valuable time and money.

Fast and Easy Installation of EyeAtProduction:

The operator knows about the critical part between the cleaning and filling machine in the production process. However, neither the production manager nor the operator has time to monitor this part all the time. **EyeAtProduction- Film the Fault** offers them an extra pair of intelligent eyes to monitor the process for them. The production manager installs the software application EyeAtProduction on the robust company smartphone and mounts the phone on the production line.



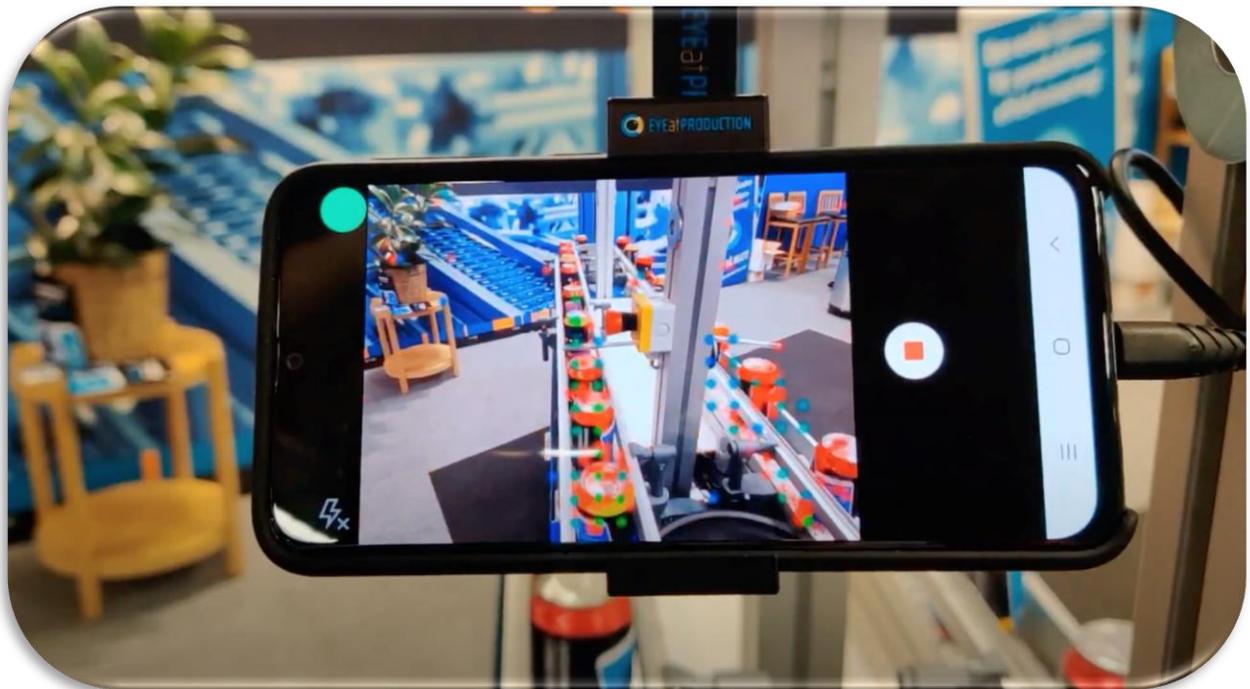
Read more about the more effective troubleshooting process on the next page

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The more effective troubleshooting process with EyeAtProduction:

When the production stops again and the operator cannot directly find the stop reason, he is happy to review what happened on the smartphone with **EyeAtProduction**. The operator watches immediately the **Film of the Fault** which includes the relevant 30 seconds of the production which lead to the stop. On the video the operator sees that a broken part of the conveyor belt damages the cans a few meters before the can actually gets stuck. Finally, the operator knows what really caused the stop and shares the video with the production manager and the maintenance manager via email.

Based on the video they can precisely repair the broken part of the conveyor belt and this stop will not occur again.



Read more about the benefits for all stakeholders in the company on the next page

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Benefits of using EyeAtProduction:

For the Operator:

- **Time-saving for troubleshooting of real stop reason**, the operator immediately watches the film of the fault of the relevant 30 seconds and can take action quickly.
- **More knowledge about the production**, the operator sees visually what exactly happened and led to the production stop.
- **The installation and usage of EyeAtProduction is fast and easy** because no technician or extra training is needed to use the Software.

For the Production manager

- **Higher efficiency of the production** because repeating stops do not occur anymore.
- **The production line is continuously improved** and which leads in the short-term to higher output and has a positive impact on the product quality in the long-term.
- **Immediate solution because no integration or down time** of the machines is required for the installation. After the software is downloaded the solution works within a few minutes.
- **Sharing of knowledge across organisation** with the function to share the video enables to educate operators about certain faults in production.
- **“Piece of Mind” through video and alert function.** The instant notification in case of a production stop saves you time and stress.



Read more about more benefits and the alternatives of EyeAtProduction on the next page



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Maintenance Manager

- **Precise knowledge** which part of the machines require maintenance and repairs.
- **Visual proof of the faults** to verify the need for the resources to repair the machines and to show the value of maintenance.
- **Easy sharing of the film of the fault to external partners** in order to get support for the repairs from the machine builder and avoid faults in future machines.

For the CEO:

- **Low-cost solution with high cost-benefit ratio** because no integration and no technicians are needed to set up this lean solution.
- **No risk of high investment and sunk costs** because of the inexpensive monthly subscription of **EyeAtProduction** and usage of already existing hardware.
- **Increasing competitiveness of the production** and moving towards a smart factory.

Alternatives to EyeAtProduction:

Of course, there are alternatives of solving the problems at the production line. However, they come with different advantages and disadvantages.

Installation of Action Camera at Production:

For the purpose of recording a video of the production line, an action camera can also be installed at the production line. The advantage is the low costs and no need of integration. However, such a camera has no built-in intelligence at all. In order to review the production video, the operator has to take out the SD card and go to a computer to display the video. To find the production stop the operator has to search through hours of video to find the fault.

In case of very seldom fault finding with cameras in production, an action camera is the appropriate solution. But when production stops occur more often, continuous smart and effective support in troubleshooting is the better option. **EyeAtProduction** helps to find the faults quicker and comes with the same advantages of low costs and no integration needed.

[Read about another alternative and how to contact us on the next page](#)



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Integration of customised vision system:

To check the quality of the cans, for example to review the correct allocation of the barcode, a customised vision system which works with cameras is the suitable solution. The advantage is the high precision in quality check of exactly one specific production step. However, that requires an investment in time and money when it comes to the integration. The customisation of the quality check system requires the installation from technicians on site and machine downtime. The decision to implement such systems should be made wisely for only the crucial production processes.

In contrast, the use of EyeAtProduction is flexible and can be applied in multiple locations without any integration or installation effort. Thereby, it provides data within minutes from each new location at the production. To get started and verify the value it easily possible to test the software without obligation and the monthly or annual subscription model avoids a high starting investment. Therefore, a customer would only use it as long as the solution delivers value to the production.

Do you have any feedback on this case or are you interested in learning more about [EyeAtProduction](#) please contact me directly.



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