



Up to 30 % Output Increase! Identified Optimization Potentials at NaBento Vliesstoff GmbH in Ellefeld, Germany

NaBento Vliesstoff GmbH is part of Huesker Synthetic GmbH, which develops and produces intelligent geotechnology. The NaBento plant in Ellefeld produces geosynthetic clay liners that can safely and economically replace conventional, mineral liners. In production, a potential analysis was carried out with easyOEE and opportunities for increasing output were successfully identified. Based on these successes, the project launch was initiated with the holistic software solution FASTEC 4 PRO.

• Initial Situation

The production department works with the ERP system from SAP. For a long time, production data was still recorded manually, so that shift reports and quantities produced were recorded manually in paper-based shift logs. In addition, only estimates were made for setup and cleaning times, which resulted in a very inaccurate database.

Furthermore, there was a high administrative effort and confusing piles of paper in production, so that there was a lack of objectivity and transparency in the collection and report of production data.

A change of management in the production department led to the search for a digital solution. Potentials in production were to be identified in order to initiate optimizations and increase efficiency in production.

Overview:

- **Industry:**
Plastics Processing
- **Potential Analysis:**
The easyOEE productivity measurement tool is used to assess the optimization potential of digitalization on the basis of facts.
- **Benefit:**
Valid data basis for checking whether the digitalization of production with FASTEC 4 PRO will pay off. Gain of experience in working with FASTEC GmbH as a customer partner.



Transparent Access to Real-Time Data



Facts instead of a Gut Feeling! Access to transparent real-time data from production enables targeted intervention during three-shift operation if necessary – even if you are not on site.

- **Why Was FASTEC Chosen as a Digitalization Partner?**

The simple, rentable entry solution via a potential analysis with easyOEE was very attractive for NaBento's relatively small plant with a small number of employees. Thus, easyOEE was used to analyze whether the investment was worthwhile before implementing a holistic software solution such as FASTEC 4 PRO. Christopher Fischer, Plant Manager NaBento Vliesstoff GmbH, summarizes:

"To first explore the potentials of production and to test the digital data acquisition on a plant without major investments was the optimal solution for us. In addition, the communication with FASTEC was very good right from the start: simple and clear. There was no reason to look elsewhere again."

- **Results After the Introduction of easyOEE**

In everyday work, the advantages of easyOEE were quickly apparent. The digital solution has eliminated a lot of paperwork and manual work. The potential analysis uncovered the weak points of production using a plant as an example and provided transparency in real time about the current status of production. "Through easyOEE, we have identified the potential for output increases of 20-30%, which was not apparent before. We are pleased to be able to realize this potential with FASTEC 4 PRO at all plants!". confirms Christopher Fischer.

20-30%
Output Increases

- **The Step Into Digital Manufacturing With FASTEC 4 PRO**

Step by step, several machines are now being connected to FASTEC 4 PRO. The scalability of the software solution is the key factor here. Christopher Fischer justifies this decision with the positive results of the potential analysis and the good cooperation with FASTEC.

"We knew from the potential analysis with easyOEE that investing in a holistic solution would be worthwhile and more economical in the long run."

- **Goals of the Digitalization**

- **Increased Efficiency:** Optimization of processes at all plants in order to further increase output.
- **Transparency:** Current status display on screens in production and on mobile devices
- **Visualization:** Support for machine operators, production managers, technical managers and management through intuitively understandable data

- **Conclusion and Outlook**

At the Huesker Group, each production site is allowed to decide for itself on the software used in production. The Ellefeld plant employs about 25 people at three machines, so it is a relatively small production site. Nevertheless, the implementation of MES software is worthwhile due to its flexible scalability, meaning that extensions are to follow after completion of the first project with FASTEC 4 PRO. The software is also to be taken into account in the current ideas for site development and the acquisition of a new machine. Furthermore, an SAP interface is planned in order to digitally integrate production orders into the MES and to write quantities as well as times back to the ERP system.