

## Bellex Controls

with process data collection module and process data analysis tool

Collection of all the product and process data produced in the extrusion process.



The Bellaform operating interface outputs process data such as temperature curves of the extruder heating or pressure curves in the vacuum tank as a trend curve in real time. Diameter and wall thickness, the distance between the nozzle exit and the calibration or the temperatures in the vacuum tank are recorded. All relevant data are provided in a format that permits further processing or archiving in a superordinate central control.

**Bellaform thus provides a decisive contribution so that you can offer your products in the best quality and at a competitive price.**

### Your benefits:

- + Continually improve the production process across the entire lifespan of the machine
- + Substantial reduction of the NOK proportion
- + Faster and more meaningful error analysis for production failures
- + Complete traceability of quality and production data
- + Constant reduction of production costs through the optimisation of material and media consumption
- + Constant improvement in quality

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### Comfortable analysis of the recorded process data:

The process data storage module collects all relevant production data cyclically and files them in year/month/day order and by individual product and lot number on the system PC or any other PC as required.

The archived production data can be depicted graphically and numerically with the help of the process data analysis software that runs on every standard Windows PC.

## Basic functions:

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|---|---|
| <ul style="list-style-type: none"><li>• Communication via Profinet with all system components</li></ul>                             | <ul style="list-style-type: none"><li>• Synchronous operation or ramp function for all drives in the system</li></ul> |
| <ul style="list-style-type: none"><li>• Extruders and positions can be freely activated and deactivated</li></ul>                   | <ul style="list-style-type: none"><li>• Trend graphic for all relevant process parameters</li></ul>                   |
| <ul style="list-style-type: none"><li>• Extruder visualisation: Temperature, Speed, Mass temperature, Mass pressure</li></ul>       | <ul style="list-style-type: none"><li>• Diameter regulation via the vacuum</li></ul>                                  |
| <ul style="list-style-type: none"><li>• Weekly timer</li></ul>  | <ul style="list-style-type: none"><li>• Scrap cut function</li></ul>  |
| <ul style="list-style-type: none"><li>• Set-back temperature</li></ul>  | <ul style="list-style-type: none"><li>• Batch print out</li></ul>   |
| <ul style="list-style-type: none"><li>• Vacuum tank visualisation: Water temperature, Vacuum, Pump speed, Nozzle distance</li></ul> | <ul style="list-style-type: none"><li>• Fault report page with archive</li></ul>                                      |
| <ul style="list-style-type: none"><li>• Recipe administration with all relevant parameters for each product</li></ul>               | <ul style="list-style-type: none"><li>• Access authorisation to the screen pages using a password</li></ul>           |

### Optional:

- Remote maintenance system: short global reaction times in the event of machine standstill
- Integration into visualisation: Measurement systems of all known manufacturers, Gravimetry with metre weight regulation for the extruder, Flame impingement system
- Drying systems
- Conveying systems

## Everything from a single source

Thanks to our integration into the **Pütz Group** and the resulting **synergy effects**, we are able to offer you not just machines and systems for plastics processing, but also the appropriate test technology to test surfaces for dimensional accuracy.

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