OEE WARRANTIES

WHAT IS OEE?

OEE is short for **Overall Equipment Effectiveness**. It is a way to measure how productive your manufacturing is. By doing so, you can use this knowledge to **improve your production processes**.

OEE takes into account all **losses of production**. These losses can belong to one of three categories:

- **Availability:**
  This measures production losses related to **downtime**. In other words, when the process stops running for some time: because of changeover time, or because the machine is not running due to no sales, etc.
- **Performance:**
  This measures production losses related to **reduced speed**: because of slow cycles and micro stops.
- **Quality:**
  This measures production losses related to **produced units that you cannot release**: because the produced parts are **defect** or need rework.

Following your OEE closely is very important, as it will make you understand any hidden issues in your production process, and it will help you in resolving them. It will bring everything to the surface and increase productivity.

DIN8743

The norm **DIN8743** regulates how OEE is measured, describing the process. You can find the original document here.

IMPORTANT

- There is a difference between the **OEE of a line** and the **machine OEE**. A supplier cannot be held responsible for a complete line unless the complete line is included in his scope and agreed upon.
- **Increasing line OEE** can be a job that takes several months, as it is affected by different machines as well as raw materials (cardboard quality, etc.). It is a job that has to be done **together**, with all players involved, and a good team on-site.
- Improving OEE can be time-consuming, but it's worth the effort, as it improves productivity. OEE has to be **monitored**, as sometimes in production, small parameters are changed, which impact the OEE but are not immediately visible (e.g. cooling time, etc.). Parameters like cooling time tend to go down over time, so monitoring is key. At Delta Engineering, most of our equipment can be linked and we have a data collection platform (DDC100) available, which calculates all important KPIs and allows interfacing with your MES/ERP system.

WHY PARTNER WITH DELTA ENGINEERING?

- Delta Engineering is a **flexible** and **experienced partner** who **understands** and can help you with increasing your factory's performance.
- A **wide range of products** ready for data collection.
- Focus on **fast changeover** times.
- **Reducing manual labour** and making lines less operator-dependent.
- A proven platform is available allowing easy ERP/MES integration.
- When needed: availability of an experienced software team to adapt the interface / data according to your needs.