

## Potential Analysis With easyOEE



Ingeniously simple – ingeniously helpful



Book a live demo  
appointment

## Potential Analysis With easyOEE

easyOEE collects machine data on the performance, availability and quality of a system via digital signals and calculates the OEE value. Based on the potentials, an ROI calculation can justify an investment in the FASTEC 4 PRO MES.

### Your simple, fast and risk-free entry to MES!

#### Goal: Create facts, implement first optimizations

Potential analysis with easyOEE serves as a preliminary project for implementation of the MES FASTEC 4 PRO. We support you with commissioning, data validation, and optimizations. The project is planned for a period of three months. The easyOEE productivity meter is connected to a machine. Your electrician can process existing digital signals or mount a light barrier. Configuration is on the basis of your master data. The machine operator registers a production order on the machine to start production. Then easyOEE automatically records quantities and production times. As soon as there is

a standstill, the machine operator selects the reason for the malfunction from a preconfigured list and can supplement it with free texts. It is also possible to process technical faults in the machine automatically. The quality of the products is differentiated by connecting an NOK counter or entering rejects manually. The web browser gives you access to the device and transparency in production. If a network connection is not feasible, offline operation is also possible. The recorded data are displayed in live views and can be evaluated conveniently.



#### Detailed potential analysis

With the easyOEE productivity measuring device, the potential of a machine is revealed quickly and easily.



#### First optimizations

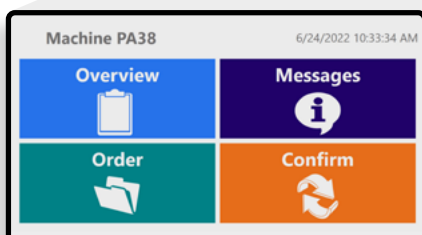
The collected data are analyzed and initial optimizations to increase productivity are implemented.



#### Targeted investment

Experience with easyOEE justifies investment in the FASTEC 4 PRO MES.

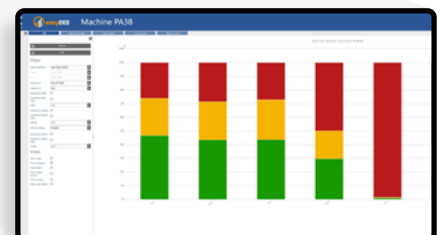
### Smart design – intuitive operation



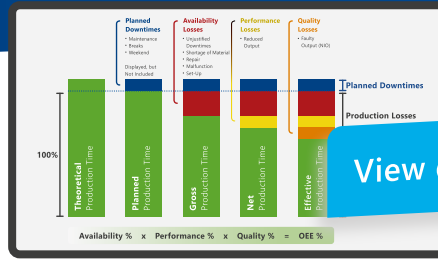
Entries at the touch panel in production



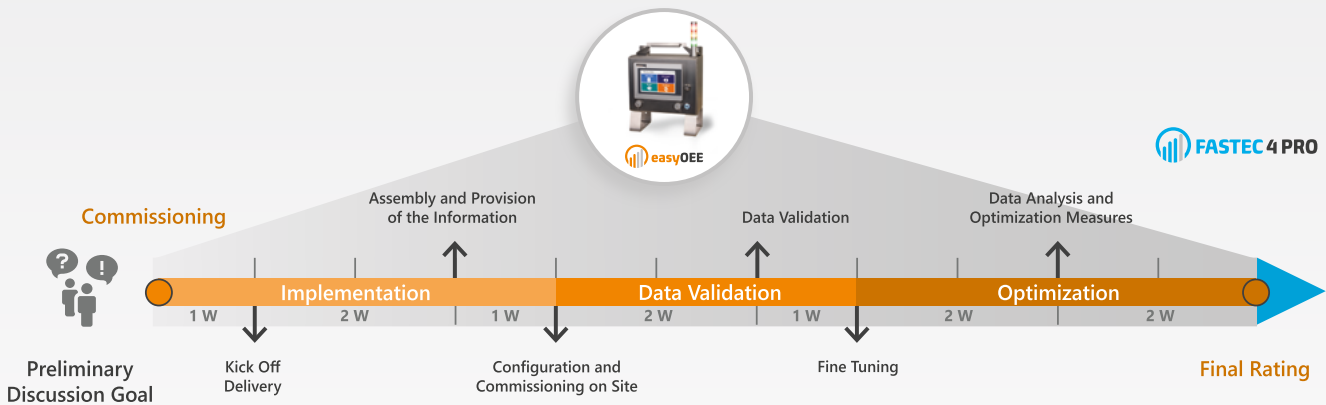
Live overview in the office or on large screens



Evaluations for analyzing the recorded data



## Working Together For Success, We Are Your Digitalization Partner.



FASTEC coordinates the project planning and objectives together with you. The unit is delivered and a configuration file is sent. You connect the unit to the machine while FASTEC prepares the configuration. We support you with a kick-off and you have access to our Support and online help at any time. Commissioning and training take place on your prem-

ises. After about two weeks, the collected data are validated together and adjustments made if necessary. The verified machine data are analyzed together after another 2-4 weeks and optimizations are derived. In order to measure the success of the optimizations, a final evaluation takes place at the end of the project.

## What is easyOEE?

easyOEE is a quick and easy-to-install stand-alone complete system for recording the productivity of individual machines, lines, plants and assembly workstations, and evaluating it online from the PC workstation:

- ✓ Inexpensive and fast entry to the world of OEE
- ✓ For hire for fast ROI, incl. potential analysis
- ✓ Intuitive operation, incl. in multiple languages
- ✓ Preinstalled software on touch panel PC
- ✓ Ready for operation within a very short time
- ✓ No intervention in the machine controls necessary
- ✓ Access anytime and anywhere via web browser
- ✓ Production KPIs and machine status in real time
- ✓ Detailed evaluations by order, item, shift
- ✓ With alert function

### easyOEE – simple and fast entry into digital manufacturing





## easyOEE Functions in Detail 1/2

### Everything in view, everything under control – directly at the machine

The easyOEE touchscreen enables monitoring, simple order registration, entry of reasons for downtimes, and feedback of quantities and rejects. All data are collected, stored and logged automatically and in real time. Subsequently, this data can be analyzed in detail and conveniently in the web browser.

#### State selection including free text entry

Reasons for downtimes can be entered simply and directly at the message screen by the machine operator by fingertip. Machine downtimes can thus be comprehensively analyzed in terms of time, duration, cause, etc., and suitable measures can be derived to avoid them. The free text input allows the detailing of reasons for downtimes. Free texts entered once are available in the selection list the next time.

### Alerts

Automatic notification by email or optionally by text message (involves additional costs) in case of malfunctions, timeouts, performance losses, etc. is ideal for unmanned shifts and to allow immediate intervention. This helps to reduce downtimes.

### Online monitoring

At a glance and in real time, wherever you are, you can see the machine status and customizable status information directly in the web browser, plus item name, order number, target/actual cycle, target/actual quantity, availability, performance, quality, OEE, and status timeline.



Online monitoring in real time: Display of machine status and customizable status information, item name, order number, OEE, status timeline, etc. in the web browser.

### easyOEE – the live ticker for your production!

- ✓ **Precise:** Concise production parameters
- ✓ **Incorruptible:** Automatically recorded data
- ✓ **Exact:** Daily reports on availability, performance, failures, quantities, etc.
- ✓ **Flexible:** Individualization (customer logo, company name, cost center...)
- ✓ **Secure:** Three-level user administration (user, manager, administrator)
- ✓ **Concentrated:** Targeted evaluations
- ✓ **Direct:** Immediate order feedback
- ✓ **Fast:** Information available at all times via web
- ✓ **International:** Multiple languages
- ✓ **Tried and tested:** Printing of all evaluations and lists, export of evaluations in CSV format, possibility of data correction, manual feedback of good and bad parts (and/or automatic)





## easyOEE Features in Detail 2/2

### Web evaluations

What are the most common reasons for disruption? Could the degree of utilization of the machine be increased? How have quality and cycle time developed in the past month? Where can further optimization potentials be tapped?



*Dynamic, web-based, graphic and tabular evaluations for fast and efficient analysis of data.*

These questions can be answered with easyOEE's dynamic, web-based, graphic and tabular evaluations. All evaluations can be filtered and grouped so that, for example, reasons for downtimes can be displayed according to frequency or duration, target and actual cycle times can be compared, produced quantities can be evaluated with the proportion of good/rejected parts, and OEE values can be analyzed with the partial parameters of availability, performance and quality.

This makes it possible to identify reasons for downtimes and possible improvement potentials at a glance. Due to the permanent storage of the data in an SQL database, you can carry out not only current evaluations but also evaluations of the past year, for example.

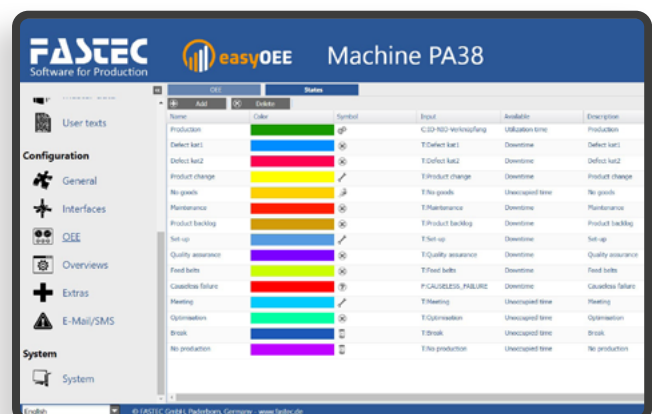
### Configuration of easyOEE

You can adapt easyOEE to your production requirements in a variety of ways. You select whether you want to record shift-related and with order and item reference. Configuration is done simply via your web browser. You decide what data you want to see. Thanks to the clearly structured and self-explanatory user interface, the various data for monitoring, MDE states, etc. can be configured easily and quickly:

- Target/actual quantities
- Order data
- Cycle times
- Time of use, downtime
- Shift, shift start, shift duration
- Actual output (e.g. cycle time), target output, average output
- Current machine status and duration of this state

easyOEE enables you to store master data. These master data form the basis for recording and evaluations:

- Item including simple item import via Excel
- Shifts
- Targets for OEE, availability, output, quality



*Example for the configuration of states with different colors, symbols, etc.*



## Measuring Instead of Estimating – Your Gut Feeling Can Be Deceptive

### • Transparency with facts, figures and data

In many production companies, productivity is still not measured systematically. Often, the quantities produced serve as indirect productivity indicators. If a certain number of units is achieved, e.g., per shift, production was satisfactory; if not, it was less so.

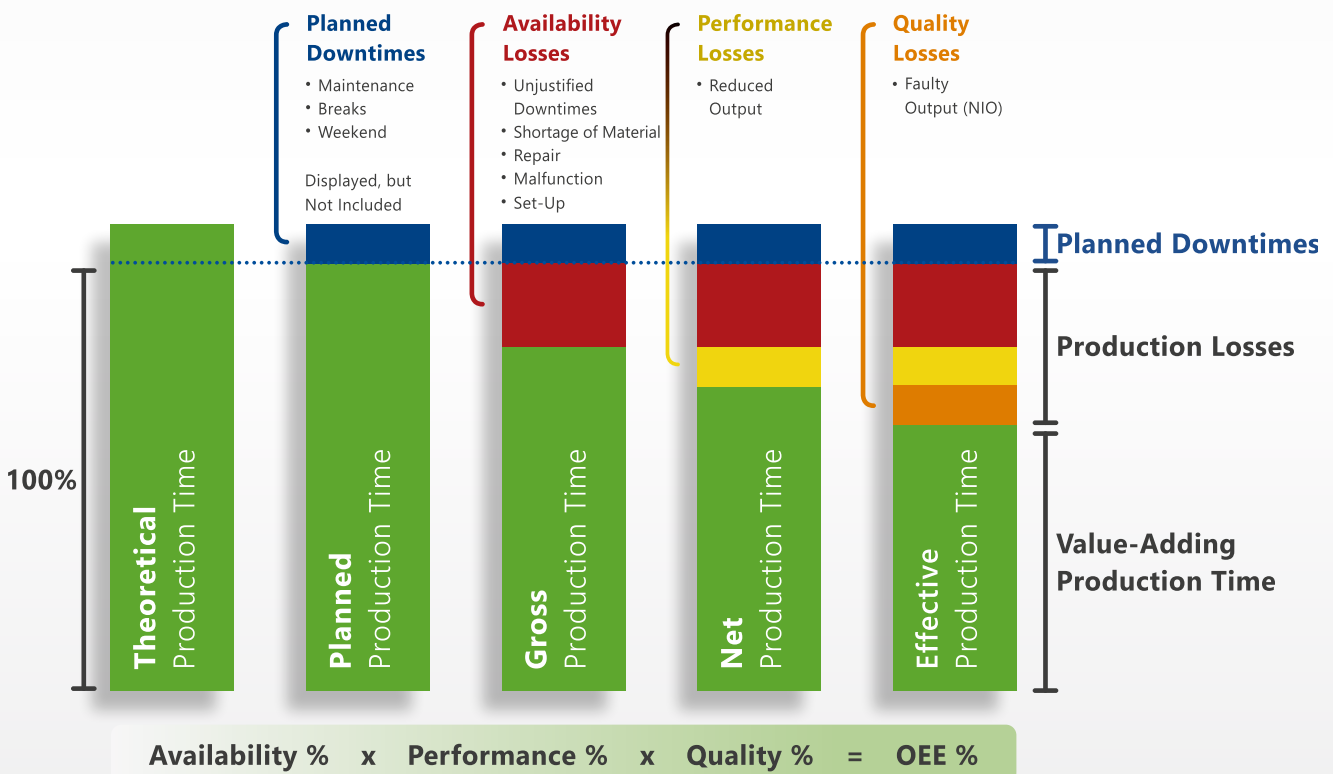
However, producing according to a gut feeling is not an exact method, because such gut feelings are at best suitable for comparison: When things go the way you know they will, they go well, otherwise not so well. But: only what can be measured can be improved in the long term. With the help of OEE, the productivity of a company can be increased without great cost. OEE can thus contribute significantly to increasing margins. More output in the same time with the same operating costs as well as less unrest and stress in production due to fewer disruptions are motivators to address the topic of OEE.

### • What is behind OEE?

OEE (Overall Equipment Effectiveness) is a KPI for assessing productivity in production companies.

Its automated recording can be achieved with relatively little effort and then enables real-time monitoring of productivity. With the OEE value, all plant losses can be systematically identified, analyzed, and subsequently eliminated.

The OEE value results from the product of availability, performance, and quality level. When calculating the OEE value, losses due to unplanned downtime, deviations from the planned number of units, and defective parts and parts that need to be reworked are thus included. The OEE value is a central parameter for evaluating the productivity of a machine, plant or line. OEE stands for "Overall Equipment Effectiveness."





## Our Customers' Experiences



*"We didn't know what availabilities and outputs our lines were bringing. That's why we started using the easyOEE productivity measuring device to carry out a status quo analysis on three machines in fabrication. Already in the first month, we were able to increase our OEE value on these three machines by up to 11% thanks to easyOEE.*

*Building on this, the FASTEC 4 PRO MES was introduced, which uncovered further capacity reserves and brought another 10% more OEE in the first year of operation."*

**Belal Al-Shaibani**  
Process Manager  
MEDICE Arzneimittel  
Pütter GmbH & Co. KG



*"About a year ago, our OEE values were still at 35% and are currently at 60%. We can now react to disruptions in production in good time due to the transparency gained and also plan much more optimally – no more hectic.*

*We are able to react immediately and specifically if something unusual happens in production. In addition, everything is recorded in detail and documented for evaluation, so that we have the opportunity to achieve constant process optimization with regular evaluations."*

**Dirk Kirchner**  
Production Manager  
VION Convenience GmbH



*"The set-up of the easyOEE terminal in advance and installation on site was successfully carried out in a very short time and was almost self-explanatory. The import of the article master data from the ERP system was also possible without any problems and was carried out quickly in order to avoid parallel master data maintenance. Through the additional connection of a simple hand-held scanner, the process data such as item number and process order number are read in by the employee, thus preventing input errors.*

*All in all, a very fast and cost-effective way to tackle and push the topic of OEE in the company."*

**Marcus Bruns**  
Group IT Manager  
Gustav Berning GmbH & Co. KG

## In Partnership on The Way to The Digital Factory

We specialize in the digitalization of production processes based on our Manufacturing Execution System (MES) FASTEC 4 PRO developed in-house. The modular standard software is configurable across all industries, release-ready, and intuitive to use.

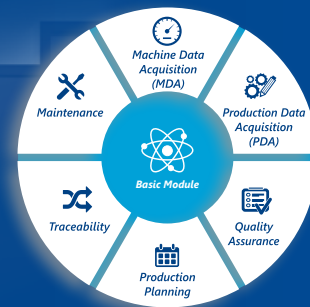
We have been proving our performance promise since 1995 and support our customers on their path to digital transformation. Around 400 companies in over 20 countries use FASTEC 4 PRO on more than 10,000 production lines. The holistic digitalization of production optimizes workflows and sustainably reduces costs.

Regardless of whether you are a medium-sized company, a

### Two products, one contact:



Digitalization



specialist or a networked group – we speak your language and can help you to optimize your production.

Based on our many years of experience and cross-industry expertise, we manage your MES project from a single source. And we do this throughout, from consulting to sales, installation and training, right through to smooth support. Thanks to our wide-ranging know-how – from machine interfaces to a wide variety of ERP systems – we also have a reputation as a partner for complex IT projects in the production landscape.

## We will be happy to advise you personally!

Our sales department will be happy to provide you with further case studies and information material!  
Or you could arrange a presentation at your location, in our company or via web.

Of course, you can also experience easyOEE and FASTEC 4 PRO live and on site with our customers.

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