FASTEC
Software for Production

We would also like to give you a good advice personally!

FASTEC
Software for Production

Success in digital production thanks to MES

MES Specialist
We develop MES solutions for production companies with discrete manufacturing. Since 1995 we have achieved a wide range of successful projects. These include a diverse portfolio of productions, industries and countries.

Pioneers
New technological standards are influencing manufacturing companies. We prepare ourselves and our customers for complex issues that will find its way into production in a few years. In this way, we can actively create your and our future.

Partners in Digitalization
In-depth knowledge, more than 25 years of experience and recognized industrial competence all speak in favor of a future-oriented project implementation from one provider. We professionally install our in-house developed software at your location. Throughout the entire project, we support you as a competent partner and provide you with experienced support.

Are You Interested in Learning More About Us?
We will be happy to provide you with further user reports and information material! Or else, make an appointment with our sales department for a presentation at your location, in our company or via web. Of course, you can also experience FASTEC 4 PRO live and on site with our customers.

Paving the Way for Your Safe, Efficient and Transparent Production

We Are Your Partner in Digitalization – for a Reliable Production Control

in the Food Industry.

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www.youtube.com/FASTECGmbH

》 *We digitalize factories*

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Experience, Competence and
Innovative Capacity Since 1995

We Are Your Partner in Digitalization
for the Food Industry

"I spent a significant amount of time on the evaluation of data using the old performance measurement system – time that I can now invest in the analysis and implementation of CIP measures, because of the diverse evaluation options instantly available at the push of a button in FASTEC 4 PRO."

Torsten Schlegel
CIP Coordinator, RITTER SPORT

"Thanks to easyOEE, we were able to create full transparency."

Jürgen Porsiel
Head of Industrial Performance, Nestlé

"We are now able to trace back faults and disturbances in production processes much earlier and better than in the past thanks to the effective monitoring."

Kai-Uwe Harms
Head of Packaging and Optical Inspection,
Siegfried Hameln

The highest quality and a safe, traceable production are a top priority in the food industry. We support you to digitalize your shop floor and in meeting diverse requirements.

- **Process data and production data as well as material and energy consumption are recorded in real time.**
  You can evaluate them order-related and article-related and – if necessary – on the level of batch numbers. Thanks to FASTEC 4 PRO, short downtimes are easily visualized and analyzed. This is a decisive added value especially on filling and packaging lines with fast-cycle times.

- **Document IFS food certification more easily with our MES module quality assurance.**
  Elaborately documented content can be designed digitally. The complete order documentation can be traced at any time at the push of a button – in this way, you can pass every audit.

- **Gradual digitalization of the HACCP concept with FASTEC 4 PRO.**
  This allows you to digitally identify, consider and assess the risks associated with processing of food or finished products within the law.

- **Do you have different scales in your production? No problem at all.**
  FASTEC 4 PRO evaluates all weighing values and records them in a uniform manner. Compliance with regulation on pre-packaging is very easy with FASTEC 4 PRO, because the software can transfer default values to the scales.

We customize individual solutions for our customers with our modular software for digital production. Transparent, expandable and customizable at any time.

What Can We Do for You and Your Production?

Your Benefits in Production Control – at All Levels

Your entire company benefits from FASTEC 4 PRO – whether you are production manager, machine operator, maintenance staff, controlling or even up to the management.

PRODUCTION MANAGER

• Minimized downtimes, reduction of stoppages

• Fast, targeted reaction to disturbances or performance losses

• Identification of deficiencies

• Improved order and personnel planning

• Higher throughput thanks to shorter processing times

• Paperless production

• Maintenance integrated in production processes

CONCLUSION:
Transparent production minimizes your waste of resources.

MACHINE OPERATOR

• Continuous target/actual comparison provides up-to-date key figures on order progress

• Simple recording of all machine and process disturbances

• Digital provision of order-related documents and monitoring of important process data

• Order bookings directly at the machine

• Requesting maintenance in the event of major disturbances

CONCLUSION:
Digital monitoring of the production process guarantees efficient operation of your machines.

MAINTENANCE STAFF

• Preventive maintenance is efficiently integrated

• Planning of maintenance takes into account machine utilization

• Electronic maintenance facilities are provided on site

• Digital documentation of all maintenance work carried out, including spare parts consumption for all operating resources

• Comprehensive reports for the analysis of maintenance measures

CONCLUSION:
With preventive maintenance and complete documentation, your machines are well taken care of.

MANAGER/CONTROLLER

• Reliable, meaningful database to support strategic decisions

• Continuous performance measurement enables up-to-date key figures

• Productivity potentials are detected

• Savings or margin increase by reducing production costs

• Optimal CIP analysis tool

• ROI in less than 12 months

CONCLUSION:
With digitally generated, meaningful reports, you make the right decisions and ensure your company's success.

"Significant improvement of results by region-wide implementation of FASTEC."

Siegfried Seufzer
Production Lead PC, PHILIPS Austria

"Naturally, we can now better understand at the management level in how far our standards work well."

Torsten Schlegel
CIP Coordinator, RITTER SPORT

Gold
Microsoft Partner
■ Microsoft

SAP
Silver
Partner

Transparent Real-Time Data –
Made Clear at All Levels

CASE STUDY

Alfred Ritter GmbH & Co. KG

Ritter SPORT

RITTER SPORT has declared chocolate production its core competence and consistently pursues its self-defined aspiration to be the best within each category of each individual kind of chocolate. This requires a consistently high quality of the raw ingredients and flexible processing.

The business RITTER SPORT introduced easyOEE in 2010, the flexible instrument is measuring the effectiveness of specific machines to record and evaluate the reasons for downtimes. Back then, an in-house MES was active at the same time, which soon reached its limits.

Why FASTEC 4 PRO?

The previously used MES was subject to clear restrictions, because there were no clearly defined causes of downtimes or fast and focused evaluation options.

"In our search for a suitable MES, in which we looked at the solutions of a of a number of providers, we chose FASTEC again quite quickly; on the one hand, because we already had the best experience with easyOEE – which we are, as a matter of fact, still using – and on the other hand, because we are able to expand the modularity of the system at any time and thus, adjust our MES easily to new requirements."

Torsten Schlegel
CIP Coordinator, RITTER SPORT

Achieve Complete Transparency With Automated Data Acquisition

• Machine operators can access predefined, accurately described reasons for downtimes.

• The management can better understand how effectively standards are complied to (e.g. set-up times).

• CIP projects are based on evaluations created at the push of a button.

Individual Lot Sizes

• **Permanent weight monitoring of the chocolate bars**
Information coming from the scales is transferred to FASTEC 4 PRO by an interface, using process data acquisition guarantees the compliance with the daily mean values.

• **Record the exact course of the disturbances**
Machines running too slowly are a factor that can affect the quality of chocolate. By recording the exact course of events, causes can be understood more easily and repeated occurrences can be prevented.

• **Capacity check of packaging machines**
With the module monitoring, the machine operators on the chocolate molding plants are provided with an insight into the filling level. If the level is reached, reactions are possible promptly.

To illustrate the added value of the FASTEC 4 PRO MES solution that RITTER SPORT has gained, CIP coordinator Torsten Schlegel likes to look back at the agenda of his Six Sigma training.

"In the past, I have been showered with amounts of data coming from our performance measurement system, from which I should derive needs for action. For such an evaluation on a single machine I had to schedule almost a full day back then – today, I can evaluate all plants in just 30 minutes thanks to FASTEC 4 PRO."

Torsten Schlegel
CIP Coordinator, RITTER SPORT

30 Min.

SAP Interface   **PDA**

MDA   **S7 Communication With System Control**

Process Data Acquisition

Monitoring

Evaluation of All Plants
in 30 Minutes

CASE STUDY

Vion Convenience GmbH

Vion FOOD GROUP

The Vion Convenience GmbH from Großostheim-Ringheim is one of the leading manufacturers of self-service fresh meat products for the food retailing. As part of operational excellence (OpEx) the Vion Convenience GmbH faces the challenge of making their production processes absolutely transparent.

> *"OpEx is an important pillar of our corporate strategy.*
> *With the help of IT support and a database, possible optimization potentials are to be be revealed."*

Dirk Kirchner
Production Manager, Vion Convenience GmbH

Why FASTEC 4 PRO?

In three production lines with a total of 36 machines possible optimization potentials are to be revealed by automatically recording an exact database. The OEE value of the machines play a decisive role. Machine states and the respective duration are to be revealed and production processes are to be optimized by the evaluations.

> *"With easyOEE we are able to determine which machines have the most downtimes and where our greatest potential lies to further improve our production."*

Dirk Kirchner
Production Manager, Vion Convenience GmbH

For an easy integration of all resources relevant in production, a decision was made in favor of the modular FASTEC 4 PRO. This provides the opportunity to further expand the already defined reasons for downtimes in easyOEE.

Different language versions, such as those in use at Vion in Großostheim, are not a problem for FASTEC. The user interface of the touch panel can be configured in any language.

Transparent Real-Time Data Available Anywhere

• The current status of the entire production can be accessed regardless of location.

• With the help of monitoring, the OEE values, downtimes and the reasons for downtimes are displayed per line in real time.

• The lack of raw materials, ingredients or packaging materials is quickly recognizable.

• Complete reporting:
The alarm function of FASTEC 4 PRO automatically sends an e-mail or SMS as soon as the system records a specific state or reasoned downtime.

Dirk Kirchner sums up the result of using FASTEC 4 PRO:

> *"We are very satisfied. About a year ago, we had an OEE of 35 % and we currently reach 60 %. If we only reach 50 %, we ask ourselves what the cause is and begin to do research.*
> *We can now react to disturbances in the production on time thanks to the transparency achieved, thus we can also plan in advance much better – hectic rushes are a thing of the past."*

Dirk Kirchner
Production Manager, Vion Convenience GmbH

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OEE Values
60%

User Interface in
Different Language Versions

Unilever Deutschland
Produktions GmbH & Co. oHG, Werk Heilbronn

CASE STUDY

Regardless of whether it is a side, salad dressings, soups, gravies or readymade meals: As the largest Unilever brand, Knorr is represented in more than 100 countries worldwide. In Germany alone, there are more than one billion Knorr packages sold in one year only. The MES FASTEC 4 PRO has been supporting the production at the Unilever plant in Heilbronn since early 2013.

FASTEC 4 PRO Replaces the Existing MES

Among other things, the decision in favor of a new software was made due to many company-specific requirements that are not included in a standard MES. Gerhard Weinert, responsible for business process management manufacturing at the Unilever plant in Heilbronn, explains: "We immediately had a good feeling about FASTEC to successfully implement the system according to our requirements."

The Whole Company Benefits From FASTEC 4 PRO

Different groups of employees always have different requirements. At Unilever, some functions of FASTEC 4 PRO are especially valued.

• The machine operators on the lines appreciate the clarity of information and the easy operation at the terminals.

• Individual users can create reports and evaluations and save them in Excel in a targeted manner. They can be customized at any time and are reusable as templates.

• The monitoring module for the shift handover provides essential information for the review of all parties involved in each change of shift. This is where technical maintenance, team leaders and foremen get together. When changing shifts on a new line, a project engineer is also present.

Customized OEE Evaluation

The OEE evaluation included in the FASTEC standard has been expanded according to Unilever's needs. Additional status categories can now be defined in the corresponding Office Client and the drill-down feature allows these categories to be analyzed in detail at every level.
The packaging lines are also equipped with specific OEE analyses. Instead of only determining the OEE value for the entire line which is common practice, at Unilever it is possible to assign single downtimes directly to one station.

Product Safety is a Top Priority

The brands Knorr and Unilever both stand for quality products, which is why they make use of all resources to guarantee the highest level of quality. Accordingly, various tests to safeguard the production processes are fully integrated at Unilever.

• Scanners integrated into the packaging line are safeguarding the production processes. The scanners continuously compare the used material and target data. If there is a deviation, the line is stopped immediately.

• A warehouse management system continuously ensures that the correct filling material reaches the correct production line.

• In a further step, the inline printing system compares the product data with the aid of FASTEC 4 PRO. If there is a mismatch in terms of differing information, the line is stopped directly.

"Moreover, the multiple testing and safeguarding by different systems is of paramount importance and in line with our business continuity management. This way, the vital information is always and instantly available in the systems, for example in case of a network failure. In such a case, production does not need to be stopped."

Gerhard Weinert
Business Process Management Manufacturing
Unilever, plant in Heilbronn

Categories

States

User-Defined Texts

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**Individual Test Processes
for Quality Assurance**

We Go the Extra Mile for Your Production

Our Products for Digital Production – Flexible and Future-Proof

Easy entry: Are you interested in the productivity of a machine or an assembly workstation? We have the solution. Our OEE measuring device **easyOEE** provides exactly this key figure. It offers permanent monitoring of the machine status and display of the production key figures in real time.

You do not need any additional hardware or software components. The quick and easy to install plug-and-play complete system is therefore your perfect MES entry: Via LAN, WLAN, directly or offline using a USB token. Enter the digital world of manufacturing – installed by us or contactless via remote.

You want to know more? Decide in favor of a tried and tested, modular MES solution to optimize your entire production. The modular MES **FASTEC 4 PRO** is the IT system of the shop floor level and establishes the connection between the technically oriented processes and the business processes of the management level.

Building on the MES basic module, all FASTEC 4 PRO modules can be combined individually and tailored to your needs. The individual MES modules access a common and uniform database. In this way you always have consistent data – there are no interfaces between the modules and there is no redundant data stored. Due to the modular structure, a step-by-step and demand-oriented implementation of the software modules up to a digitalization of all areas of your entire production at one or more locations is possible.

The FASTEC 4 PRO modules are perfectly complemented by multiple additional functions.

"FASTEC has precisely implemented our specifications regarding the interface to the ERP system and the machines. Already the first attempt at software integration went smoothly, and that really impressed us."

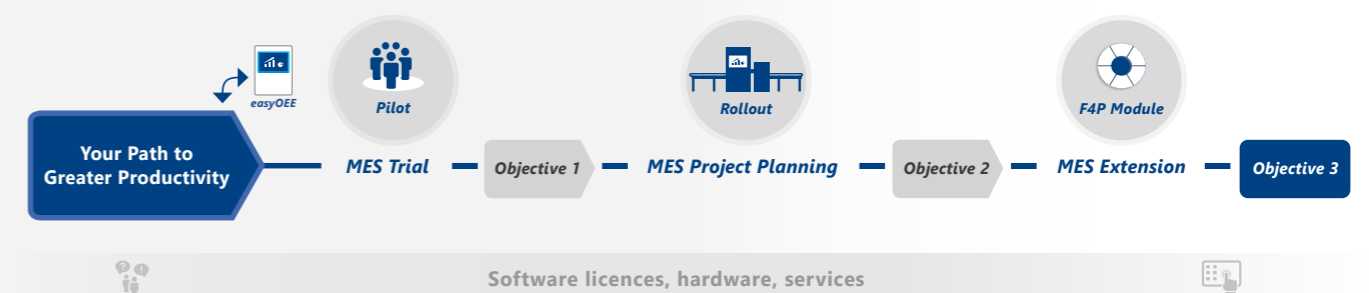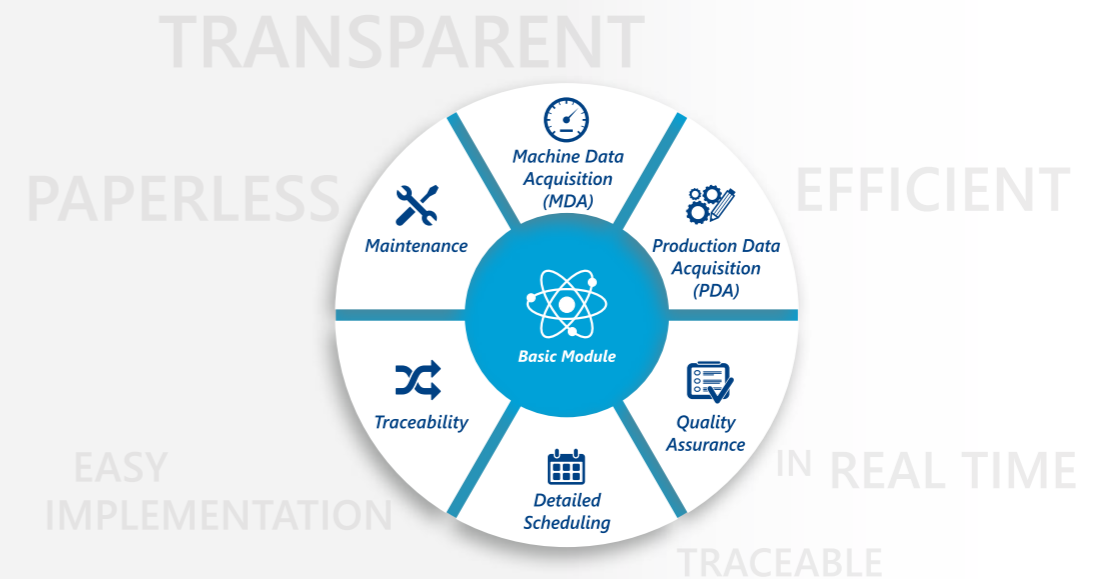**Manfred Bongards**
IT Management Production Systems, Orthomol

Adaptable, High-Performance,
Future-Proof

Your Entry Into Digital Production

Increase Your Productivity Through a Transparent Database

Machines, plants and lines form the backbone of industrial production. They have to be as productive and efficient as possible in order to produce at the lowest possible cost. Our module Machine Data Acquisition (MDA) analyzes and visualizes machine data acquired in real time in clear evaluations. Your benefits: Weak points in the production process are reliably revealed. You enjoy full transparency in the entire production process at the push of a button, save time and have shorter reaction times to faults.

TRANSPARENT

PAPERLESS — EFFICIENT

- Machine Data Acquisition (MDA)
- Production Data Acquisition (PDA)
- Maintenance
- Basic Module
- Quality Assurance
- Traceability
- Detailed Scheduling

EASY IMPLEMENTATION — IN REAL TIME

TRACEABLE

Your Path to Greater Productivity

easyOEE · Pilot — MES Trial — Objective 1 — MES Project Planning · Rollout — Objective 2 — MES Extension · F4P Module — Objective 3

Software licences, hardware, services

Detailed Evaluations, Precise Weak-Point Analysis,
Identifying Optimization Potentials

IN DETAIL

MES Module Quality Assurance (QA)

Complete documentation of inspection orders: Paperless and traceable at any time at the push of a button. Your benefits: Freely configurable, digital, transparent, time-saving.

Module Quality Assurance (QA)

Standard Functions Included

- Automatic data transfer from peripheral devices/PLC
- Automatic inspection
- Data archiving
- Digital checklists
- Simple inspection plan creation
- Intuitive operator entries during production
- Proactive information management
- Inspection plans/inspection orders
- Statistical process controls (SPC)
- Top level dashboards on large screens

Machine Data Acquisition (MDA)
Production Data Acquisition (PDA)
Basic Module
Maintenance
Traceability
Quality Assurance
Detailed Scheduling

The Most Important Functions at a Glance

- Freely configurable definition of the inspection plan type

- Configuration of different inspection orders, e.g. allow manual inspection points, skip inspection points, external creation of inspection orders

- Creating and editing inspection plans including a configurable status profile for state transitions and assignment of rights

- Detailed definition of test characteristics including specification of test equipment, determination of boundary types, limits to be complied with and requests for action

- Defining different triggers, e.g. time-based or with regard to the production order

Benefits for Your Corporate Success

- Easy integration in FASTEC 4 PRO and therefore no additional IT interface

- Orders can be triggered automatically based on MDA/PDA data; integration of MDA data, especially process messages, into the inspection order is possible

- Freely configurable inspection characteristics and inspection plan types as well as presetting of binding inspection points

- Continuous transparency throughout the plant, changes and release of inspection orders which open interactively, e.g. when the machine is being cleaned

- Reducing expenditure of time and error by eliminating manual protocols and transmission errors

MES Module Maintenance (M)

From preventive maintenance to repairs. Your benefits: Efficient, digitalized maintenance processes, regular inspections, reduced susceptibility to faults, optimized maintenance intervals.

Module Maintenance (M)

Standard Functions Included

- Planned maintenance
- Personnel deployment and requirements planning
- Alerting
- Hierarchical structures
- Maintenance plans/orders
- Calendar/runtime/counter/state triggers
- Request and task management
- MTBF/MTTR
- Pareto and Pivot analyses
- Autonomous maintenance
- Equipment maintenance
- Synchronization with MDA

Machine Data Acquisition (MDA)
Production Data Acquisition (PDA)
Basic Module
Maintenance
Traceability
Quality Assurance
Detailed Scheduling

The Most Important Functions at a Glance

- Create autonomous maintenance plans (types)

- Separate documentation of working times for maintenance activities on the machine (manually or by RFID)

- Involve machine operators through maintenance requests

- Diverse trigger, e.g. calendar intervals, states, runtime or lot size

- Predictive maintenance, supplementary information and notification of defects, additional comments and error information

- Provide supporting documents and document performed activities and spare partsneeded

Benefits for Your Corporate Success

- Significant time and cost savings

- Relief of the maintenance staff

- Higher identification of the machine operator by delegation of responsibility

- Machine operator handles minor downtimes quickly

- Uniform order management as well as regulated maintenance requests

- Optimized planning by assigning urgencies

- Fast reaction time through individual alerting