



gboMES

Your MES for efficient and digitalized production

**10 Reasons Why –
on the way to the Smart Factory**



gbo datacomp

Your pathfinder for efficient, transparent, and future-proof production



>30

years of experience



>900

customers



>14 500

User



>100 000

connected machines



gboMES

Connect the production of the future

Imagine a production that is seamlessly connected! And imagine being able to gradually and cost-efficiently digitalize your production – without having to completely overhaul your company!

Our MES (Manufacturing Execution System) connects your production with real-time data and creates maximum transparency and efficiency. From planning and control to monitoring and evaluation, gboMES is the digital backbone of modern manufacturing. It supports you in mastering the challenges of digital transformation and Industry 4.0.

X

The introduction of an MES
is difficult and complex.

MYTH
VS FACTS

!

With the right experts and a
tailored solution, implementation
is straightforward and efficient.

A large orange 'X' mark, indicating a common misconception or myth.

The ROI of MES systems is difficult to quantify.

A network diagram with orange nodes and lines, representing a complex system or data network.

MYTH VS FACTS



MES delivers concrete benefits such as higher productivity, reduced lead times, improved quality, and thus a clearly measurable ROI.

gboMES

Your turbocharger for efficiency and fast ROI in modern manufacturing

Manufacturing Execution Systems are the control center of modern, digitalized production. For medium-sized industrial companies, they provide the decisive advantage of making production processes transparent, efficient, and future-proof.

MES supports you in digitalizing and automating production processes, ensuring efficiency and competitiveness.

The use of MES brings measurable efficiency gains and cost reductions with a fast return on investment (ROI).



Our 10 Reasons Why

1 Increase overall equipment effectiveness (OEE) by up to 38 %

2 Reduce lead times by up to 19 %

3 Transparency, discover hidden potential

4 Improved product quality

5 Flexibility and scalability for more success

6 Precise production planning through real-time data

7 Seamless integration on the path to IoT

8 Documentation and knowledge management

9 Sustainable maintenance management

10 Employee loyalty and competitiveness

Knowledge

Real-time data integration

gboMES converts operational data into relevant information and enables seamless integration into ERP, QM, and IT systems.

The availability of real-time data minimizes errors and guarantees continuous processes without interruptions.

gboMES connects machines, systems, and employees, creating a continuous flow of information for the successful implementation of digital transformation and Industry 4.0.

Efficiency

1 Increase your Overall Equipment Effectiveness (OEE) by up to 38%

The central data availability of an MES leads to more transparency in production processes and enables better monitoring and optimization. As a result, significant efficiency gains are achieved.

Practical experience with our long-standing customers shows the following average improvements in their manufacturing companies:

15%

productivity
increase

17%

improved
delivery
reliability

18%

scrap
reduction

39%

setup time
reduction

Process optimization

2 Reduce lead times by up to 19%

The use of gboMES shortens lead times considerably by automating and optimizing production processes. Early detection of maintenance requirements prevents unplanned downtimes and optimizes machine utilization.

Paperless production reduces manual processes and thus saves time, increases data accuracy, and improves transparency.

A robotic arm is shown in a dark industrial environment. The arm is yellow and black, with a gripper at the end. It is surrounded by glowing digital data visualizations, including vertical bars of yellow and blue, and a blue line graph. The background is dark with some light reflecting off surfaces.

**"We now receive exactly
the data we need directly
from the machines."**

Andreas Mussack,
Head of Design & Development,
Schweiger Fulpmes GmbH

Knowledge

Production optimization with MES

Overall Equipment Effectiveness (OEE) can be increased by up to 38 % with MES, while delivery reliability can be improved by up to 29 %.

This results in up to 15 % productivity gains, which for SMEs can translate into annual cost savings in the high six-figure euro range.

Cost reduction

3

gboMES: Untapped potential for cost savings

Through innovative Manufacturing Execution Systems (MES) and efficient implementation strategies, companies can achieve significant improvements in reducing downtime and scrap rates. This not only leads to considerable cost savings but also to sustainably improved product quality.

To achieve maximum results, it is essential to continuously enhance the system. The combination with lean manufacturing principles and intelligent resource management further supports these improvements, helping to reduce operating costs.

Product quality

4 MES revolution: A quantum leap through real-time control

The continuous monitoring and adjustment of production parameters with gboMES lead to substantial improvements in product quality and fewer complaints. Key indicators include reduced scrap, fewer rework operations, and consistently stable production quality.

Overall quality improvements often reach 15–20%. Critical factors for this success are real-time monitoring, comprehensive data analysis, automated quality control, and continuous process optimization.

Consistently high product quality leads to maximum customer satisfaction.

X

MES and ERP cannot be seamlessly integrated.

**MYTH
VS FACTS**

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Many MES solutions offer robust integration options with existing ERP systems.



Flexibility

5 Flexible and scalable response to market changes

The ability to quickly adapt to market changes is crucial for the manufacturing industry. Scalability allows companies to flexibly expand or reduce production capacities, optimize resource utilization, and cut costs. At the same time, flexibility ensures that customer requirements and market trends can be met, strengthening competitiveness.

gboMES supports companies in making production processes faster, more transparent, and more scalable. By automating and digitalizing processes and leveraging real-time data, companies can maximize efficiency while flexibly adapting to changing markets or production requirements.

"We can precisely identify at which station in production a problem has occurred!"

Sascha Freymann,
Head of Technical Workshops,
Cohline GmbH

Monitoring

Precise production planning thanks to real-time data and monitoring

Modern production planning and control faces the challenge of coordinating processes with precision while remaining flexible enough to respond to unforeseen events.

The central dashboard provides the latest information in real time, enabling immediate responses and supporting the optimization of resource utilization. These real-time insights lead to more precise planning, minimized bottlenecks, and improved inventory management.

Early detection of shortages and continuous process monitoring increase overall efficiency and

Knowledge

Real-time dashboard

The central dashboard, with all relevant data, provides a clear overview of production. From material flows and machine status to order tracking, it delivers the essential key figures.

By continuously updating data, trends and patterns in production are directly visible, enabling proactive and long-term process planning – an invaluable asset for efficient production management.



Knowledge

gboMES integration

The modular gboMES is a powerful standard solution based on Microsoft technologies. It enables seamless integration into existing company systems such as ERP, PPS, QM, and IT.

Consulting and support are provided by our IT experts, who implement cross-system shop-floor environments and ensure smooth connection to existing machines, systems, and processes – making “daily business” a success.

Information flow

Seamless integration for tomorrow's production with a focus on Industry 4.0

In times of Industry 4.0 and IoT, seamless integration of networked systems is essential for modern production. gboMES serves as the central link between ERP, PPS, and shop-floor management.

By connecting systems, manual interventions are minimized, leading to reduced errors, higher efficiency, and increased production speed.

The comprehensive data flow bundles all real-time information from production processes into one central hub. This creates the basis for reliable, efficient, and cost-effective production.

8 gboMES: Legal compliance and safeguarding of know-how

Imagine compliance management and documentation running automatically. With gboMES, the collection and storage of relevant data in real time becomes possible, ensuring reliable traceability and precise reporting.

Manual documentation effort is reduced, while compliance with regulations and audits is made easier. Certification evidence can be provided quickly, strengthening trust with customers and partners and ensuring legal security.

Additionally, gboMES functions as a central knowledge platform, storing process knowledge and technical documentation in an accessible way – preserving valuable know-how within the company, even in the case of staff turnover.



MES solutions are rigid and not adaptable.



Many MES can be tailored to customer requirements and individually adapted to operational processes.



X

MES systems generate data floods without strategic value.


**MYTH
VS FACTS**



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MES can intelligently evaluate data and provide relevant information for decision-making support.

ISO 50001



Reduce costs and achieve sustainability goals with ISO 50001

Energy management according to ISO 50001 is essential for manufacturing companies to achieve sustainability goals and cost savings. gboMES offers solutions for collecting and monitoring energy data, linking monitoring to maintenance management, and preventing costly ad-hoc measures.

A company-wide understanding of energy-conscious action supports the reduction of operating costs and strengthens competitiveness in response to rising energy prices and environmental regulations.

Employee engagement

10 Employee engagement and competitiveness for smart production

Employee satisfaction and a company's future viability are closely linked and form the foundation for long-term success.

gboMES provides employees with tools for efficient task management, enabling quick decision-making with real-time data and analyses.

This leads to stronger employee engagement and motivation, which positively impacts productivity and innovation.

By optimally utilizing technological resources and ensuring transparent data availability, gboMES helps companies increase efficiency, quality, and innovation capability in the long term.

Knowledge

Industry 4.0 and IoT

As a central data hub, gboMES enables seamless integration between ERP systems and the shop floor.

It offers real-time capability, flexibility, and the power to process and analyze large volumes of data across the entire production process. Combined with future technologies such as AI, machine learning, and cloud computing, MES supports companies in leveraging production processes more efficiently and making data-driven decisions.





**"At gbo datacomp I have
dedicated contacts I can
always reach."**

Peter Travnicek
Development Engineer
iSi GmbH

Industry expertise

Rely on: Know-how in your industry

Our extensive expertise has contributed to the development of the VDMA standard sheet 66412/X "MES Key Figures," which forms the basis of ISO 22400.



Automotive
suppliers



Medical
technology



Food industry



Plastics
industry



Stone
processing



Print and
packaging



Wood
processing



Tool and machine
construction

30 years of experience

Tailored consulting and implementation for medium-sized businesses

gbo datacomp is a pioneer in MES solutions for SMEs and brings more than 30 years of project experience in production environments.

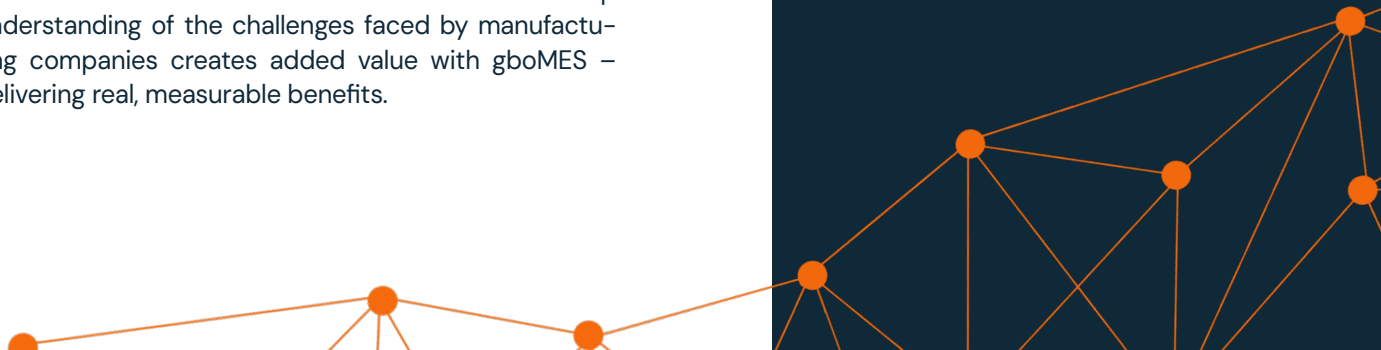
With strong consulting expertise, our team of experts addresses specific production challenges and develops tailored strategies for your company. Our pragmatic approach to digitalization supports medium-sized businesses on their way to Smart Factory and Industry 4.0.

The combination of technical know-how and a deep understanding of the challenges faced by manufacturing companies creates added value with gboMES – delivering real, measurable benefits.



Michael Möller
CEO,
gbo datacomp GmbH

"Rely on over 30 years of experience – not only to control your production, but to transform it for a sustainable future and measurable success."



Knowledge

gboMES- core functions

- ✓ Recording and analysis of production, maintenance, and changeover data
- ✓ Documentation of messages, malfunctions, and operator actions
- ✓ Monitoring of consumption
- ✓ Real-time data acquisition for key figure optimization
- ✓ User-friendly data entry via selection dialogs and RFID identification
- ✓ Decentralized data availability for paperless production
- ✓ Online access to operating data via handheld or stationary terminals

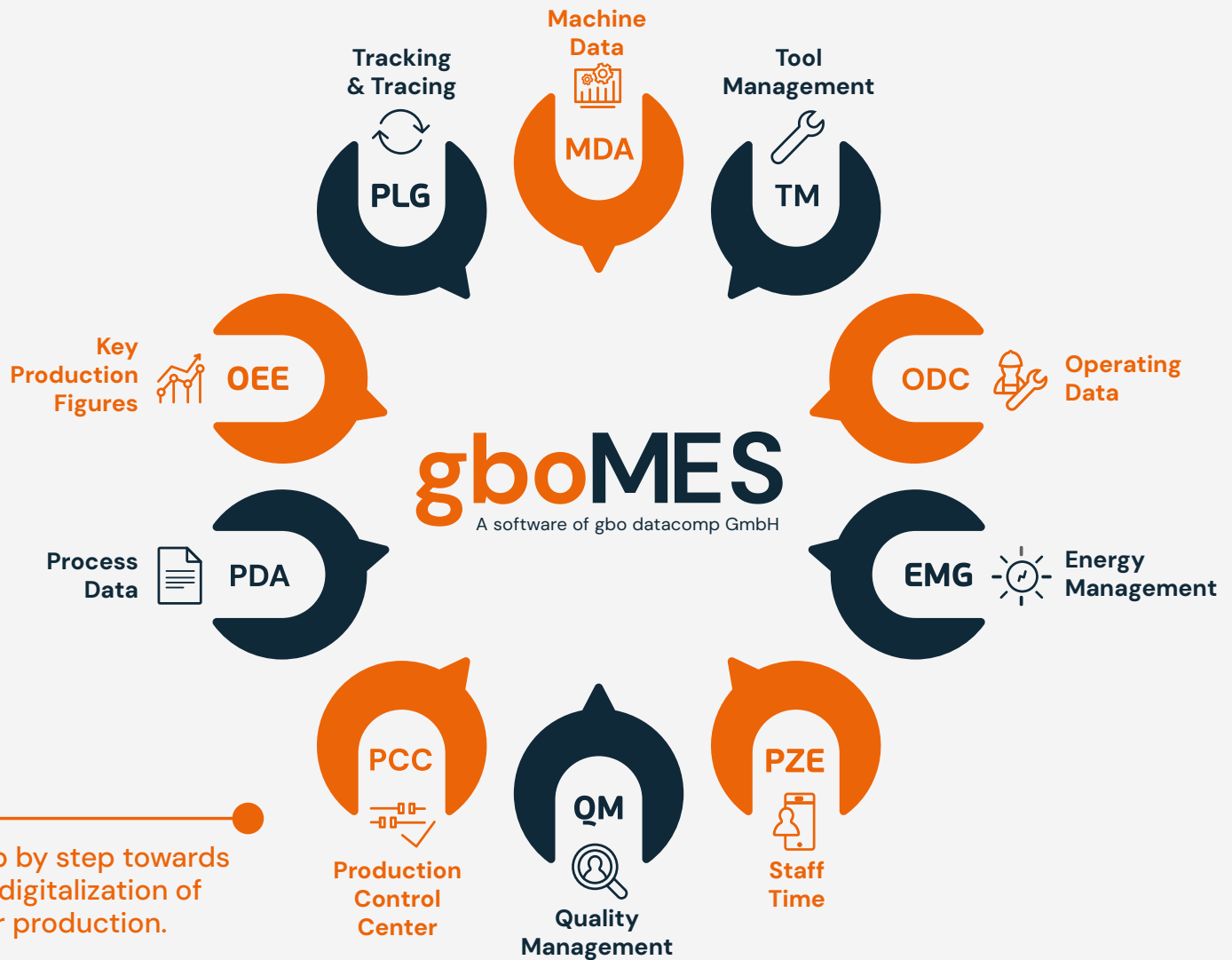
gboMES

Continuous production management for fast reactions

gboMES provides you with end-to-end production management, capturing, visualizing, and analyzing operational data from different company areas and locations in real time.

As a modular system, it can be implemented step by step, tailored to your company's individual requirements. This ensures transparency across all production processes, with key figures always in focus, and compliance with ISO standards, including traceability.

gboMES thus becomes the indispensable control and management system – ready to respond in real time.



Step by step towards
the digitalization of
your production.



MES is a matter of trust

**More than 900 customers
already rely on gboMES**

iSi GmbH, Dr. Schär, Uponor, Presstec, Ludwig,
Pelikan, Meto, HKR, Voss, Feintool,
Werkzeugtechnik Plettenberg
and many more.

**We support you on your way to
Production 4.0 – you can
count on us.**

gbo datacomp GmbH

Gögginger Mauer 15

86150 Augsburg

Kleiststraße 6

64668 Rimbach

+49 (0) 6253 808-500

info@gbo-datacomp.de

www.gbo-datacomp.de

