



# Know-how for tomorrow

transparent – efficient  
– cost saving

MES | MDE | BDE | PZE | FLS | OEE

Manufacturing Execution System

Machine Data

Production Data

Staff Time

Production Control

Total System Effectivity

**gbo**  
**datacomp** 

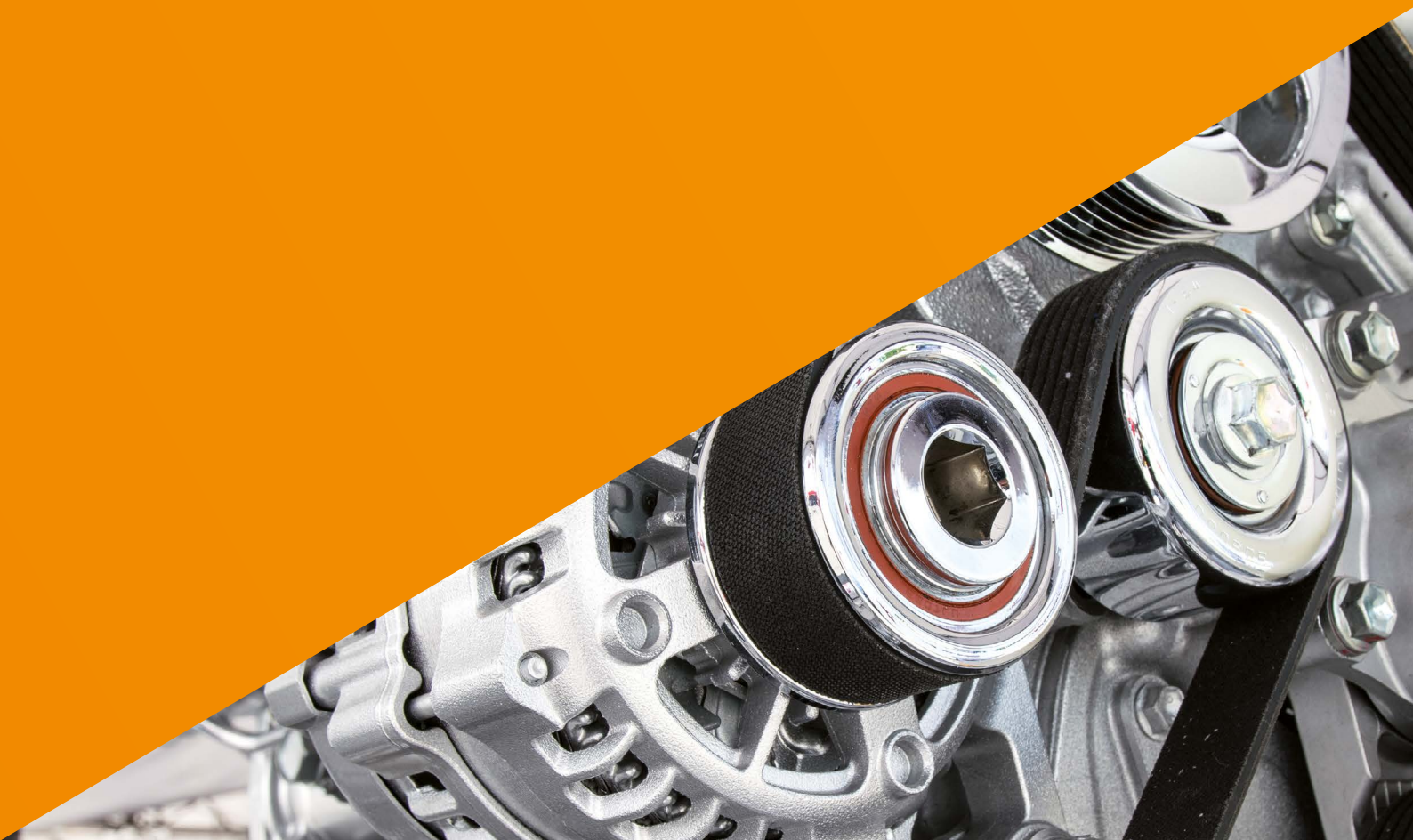
# GO FORWARD

TRANSPARENT  
PRODUCTION PROCESSES

TECHNOLOGY  
FOR INDUSTRY 4.0

**YOUR PARTNER FOR MES**  
gbo datacomp is an integrated provider of solutions in the MES (Manufacturing Execution System) sector. Next to software for recording, processing and evaluation of production data, gbo also develops innovative hardware.

As one of the pioneers in the sphere of manufacturing management, we know a thing or two about future-oriented process control. The basis of our innovative technology is the modular bisoft MES solution. Our comprehensive MES system records, analyses, supervises and controls your production in real-time. Its modular structure ensures that our solutions develop with your requirements, guaranteeing progressive integration into your existing software environment. Transparency in the entire production processes is our claim. Increase productivity by discovering and optimizing hidden potentials. For more than 30 years gbo has advanced competitiveness in production processes of well-known companies – by speeding up production and increasing effectiveness. Decades of know-how in manufacturing management combined with sustainable software development convince our customers at home and abroad. With bisoft MES on the right track for Industry 4.0!





# bisoft MES



## bisoft MES – TAILOR-MADE STANDARD PRODUCTS FOR MAXIMUM RESULTS

Our modular bisoft MES provides your company with a tailor-made solution for efficient manufacturing management. Our highly efficient system operates on a standard Microsoft basis and integrates seamlessly into your software environment with interfaces to PPS/ERP and HR systems.

bisoft MES is a standard product conforming to highest demands. We know all about diverse production environments and as your expert partner will accompany you during link-up to existing machines, systems and processes. User know-how makes us flexible and permits customized adjustments to our comprehensive solutions.

**Tailored tried-and-tested individual solutions ensure continuous data flow for greater transparency!**

### YOUR BENEFITS AT A GLANCE:

- Increase in competitiveness
- Brief reaction times
- Quality increase in products and processes
- Decrease in operating and staff costs



## bisoft MES – BRIDGE TECHNOLOGY FOR INDUSTRY 4.0

Industry 4.0 describes organization and control of the entire value creation process. Availability of up-to-date data at all points and at all times during the process chain is essential for implementation of Industry 4.0. bisoft MES converts production data into relevant information. Optimal integration into existing PPS/ERP/HR systems such as SAP, Infor or proAlpha makes bidirectional data exchange possible today.

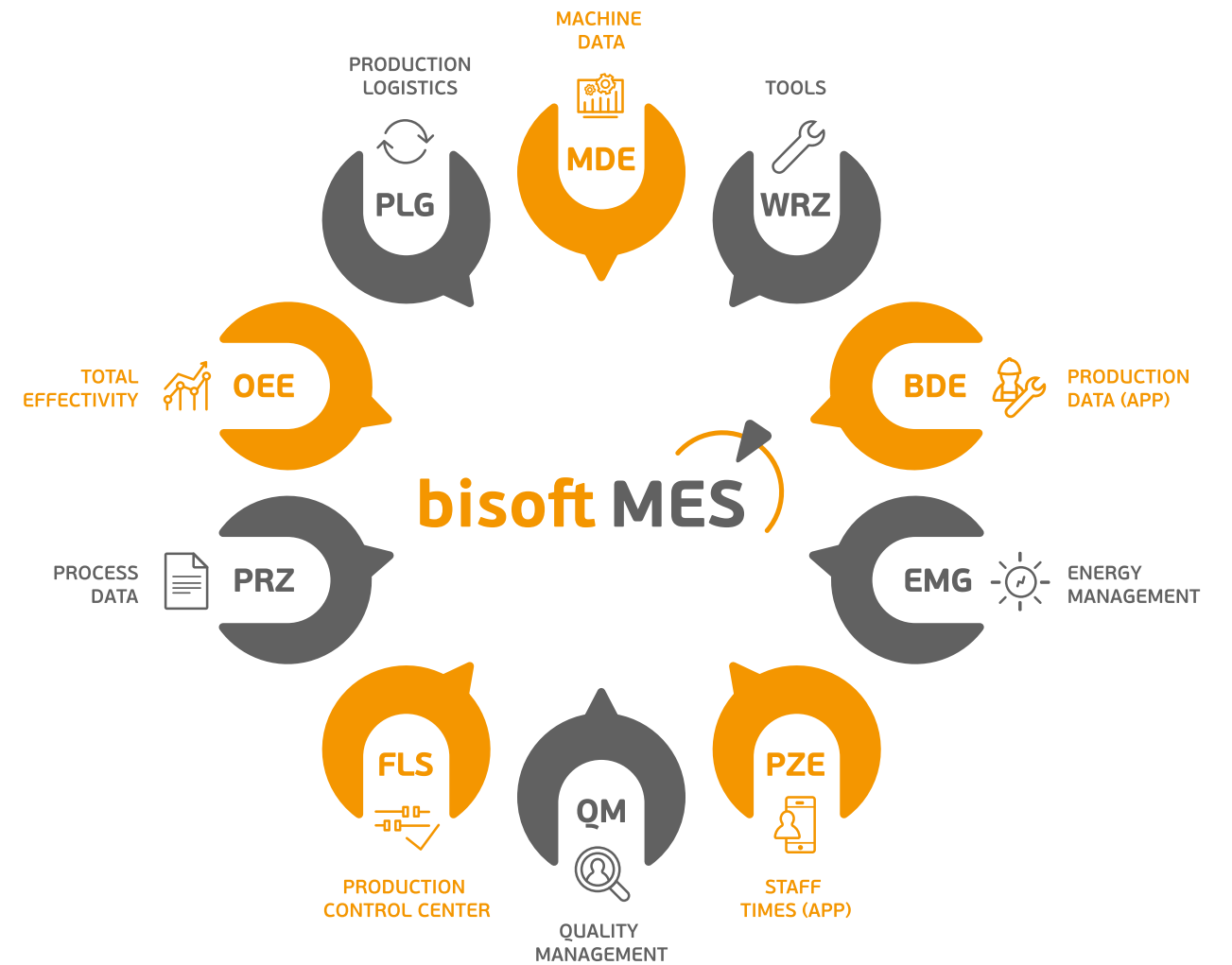
**We provide ideal solutions for communication and data platforms in enterprises.**

Integration tools link diverse machines, tools, materials and men. Data is thus available in real-time at optional points – from concentration of individual information at the machine up to efficient key figure management.

Smooth data exchange with presuppliers, suppliers and end users is guaranteed. Data security in MES is guaranteed.

# TODAY'S INNOVATIONS

FOR TOMORROW



## bisoft MES – INTEGRATED MANUFACTURING MANAGEMENT

Utilize bisoft MES to record, visualize and optimize production data from diverse corporate sectors and locations. Not only is your productivity and process quality improved, but sustained cost reduction is achieved. Important information such as data from production, maintenance, batches, messages, stoppages, operator intervention as well as consumption are analysed and documented. The step from data management to key figure optimizing is carried out via prompt online recording. At this point integration between software and hardware is an advantage.

Input of relevant data via barcode and identification of users via ID card or RFID with appropriate plausibility check guarantee a minimum of input effort. Paper-less data output is carried out centrally or decentralized. Information on already recorded process data can be called up online on control or recording level at any time.

**This provides transparency and an overview over all corporate sectors – action instead of reaction is the motto. Complete data for controlling and post-calculation is available target-oriented as a basis for corporate key figure or control systems.**





## gbo datacomp – FUTURE-ORIENTED KNOW-HOW

gbo datacomp ranks among the pioneers in future-oriented IT solutions for small and medium-sized manufacturing businesses. Begun around 30 years ago, our solutions are currently found in many well-known medium-sized and large manufacturing companies in the German, Austrian and Swiss areas as well as worldwide. bisoft MES supervises and controls production at individual locations or globally networked and thus provides an interface between production and management. As a full-service supplier we provide – next to our modular bisoft MES solution and customized consulting – future-oriented hardware with origins in Kienzle technology. bisoft MES provides the basis for sound management and staff decisions. Founded on state-of-the-art development technology, gbo datacomp tools are distinguished by highest functionality and system autonomy.

**More than 850 system  
customers – around  
14.500 users – tells  
its own tale.**

VDMA Einheiten Entwurf	
Manufacturing Execution Systems (MES) Kernanforderungen	VDMA 66412-1
ICS ...	
Dieser Entwurf wird als Orientierung zur Prüfung und Selbstprüfung benötigt. Bei den beschriebenen VDMA Einheiten von der vorliegenden Fassung abweichen kann, ist die Anwendung dieser Einheiten konsequent zu vermeiden.	
Belegblätter werden erstellt	
- Vorzugswerte als Daten per E-Mail an <a href="mailto:VDMA@VDMA.de">VDMA@VDMA.de</a>	
- oder in Papierform an die Abteilung Technische Zeichnungen der VDMA Vorstand Deutscher Maschinen- und Apparatebau e.V., Postfach 71 08 04, 60488 Frankfurt.	
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Verband Deutscher Maschinen- und Apparatebau e.V. (VDMA)	

Our long-standing know-how has been incorporated into the development of the VDMA (German Mechanical Engineering Industry Association) standard leaflet 66412 „MES Key Figures“.



# bisoft MES Basic solutions



## MDE

MACHINE DATA

bisoft MDE guarantees a perfect information flow between products and production planning. Multilayered control and transmission programs ensure permanent dialog with recording terminals.



## BDE

PRODUCTION DATA

bisoft BDE permits order-individual cost calculation. With all time resources in overview, interim calculations are possible at any time. Transparency right down to each piece list item. Up-to-date calculation and precise controlling as a matter of course.



## QM

QUALITY MANAGEMENT

bisoft QM affords direct access to production analysis and tool statistics. Products can be tracked and documented consistently. The QM solution can be adapted individually to your requirements. Comprehensive quality management is the foundation of your production.



## PRZ

PROCESS DATA RECORDING

bisoft PRZ depicts available analog values such as pressure, temperature, energy use (gas, power, etc.) clearly and transparently. Reaction to deviations in tolerance limits is swiftly possible and production processes thus optimized.



## FLS

PRODUCTION CONTROL CENTRE

bisoft FLS for effective resource planning ensures optimal machine efficiency. The production control centre provides online overview of all processes in production and enables swift reaction to customer requirements.



## PZE

STAFF TIME RECORDING

bisoft PZE ensures continuous staff time recording and supplies precise data for internal accounting and calculation of product and process costs, expended effort and services. Data ascertained serves as basis for payroll accounting.



## PLG

PRODUCTION LOGISTICS

bisoft PLG ensures traceability of materials during input and output and of serial numbers and batches. Recording, checking, documenting and archiving are the standards here – automatically and online. Transport orders for your inhouse logistics complete the advantages of this module.



## OEE

OVERALL EQUIPMENT EFFECTIVENESS

At the press of a button bisoft OEE determines the OEE co-efficient of standard key figures such as availability, performance and quality. Company-specific key figures can be defined and adapted individually.



## WRZ

TOOL MANAGEMENT

bisoft WRZ efficiently manages tools and resources. Availability and costs of individual tools are at hand online. Maintenance is carried out during planned stoppages and integrated smoothly into the production process.



## EMG

ENERGY MANAGEMENT

bisoft EMG provides energy data right down to individual items. Aim is improvement and enhancement of energy-related efficiency and optimising energy use. Prevent production cost increases systematically. As much energy as necessary – as little as possible.

## MORE INFORMATION REQUIRED?

[www.gbo-datacomp.de](http://www.gbo-datacomp.de)

## MADE IN GERMANY

Solutions by gbo datacomp improve your responsiveness, increase competitiveness and secure the existence of your company.

# transparent – efficient – cost-saving

With gbo datacomp step-by-step  
toward Industry 4.0

We serve companies from the following industries:



Have we sparked your interest?  
Then do contact us:

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