



KOMAX CLOUD MES



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Komax Cloud MES (manufacturing execution system) is tailored specifically for the wire cutting room. It offers an easy to operate and cost-effective solution for the smart transfer of production data, supplied in simple Excel files, to the cutting machines, and for maintaining full control of the production process. Small and medium-sized companies (SMEs) in particular can use the customized MES system to achieve the same efficiency gains that have long since been successfully realized in large companies. As it only requires a small initial investment and minimal organizational effort, the risk involved is minimal and, accordingly, the barriers to entry are also low.

Top quality MES with no financial risk

No investment to tie up your capital. For a monthly license fee, you get full access to a professional and powerful MES. Upgrades and support are included in the fee.

Low IT costs

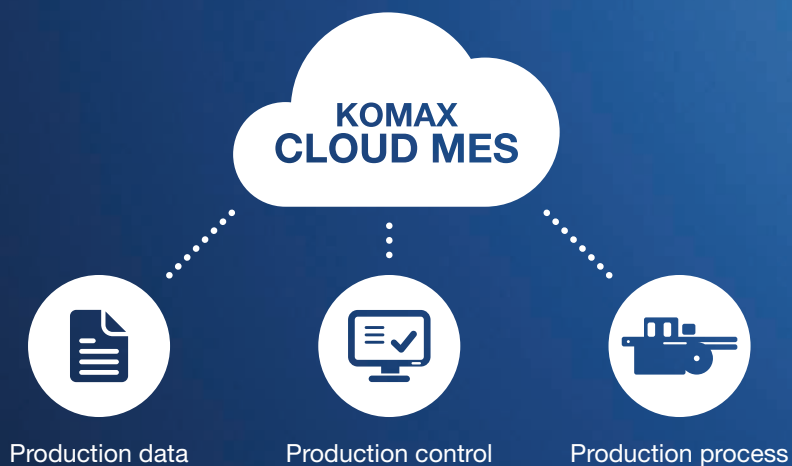
No additional costs for IT services, data backup or servers. The system is hosted in a secure cloud (Microsoft Azure technology). A high level of data security and system availability is always guaranteed.

Professional production management

Komax Cloud MES shows all production data in real time and therefore provides a high degree of transparency. The system supplies the machines with all production data, so manual entry is no longer necessary.

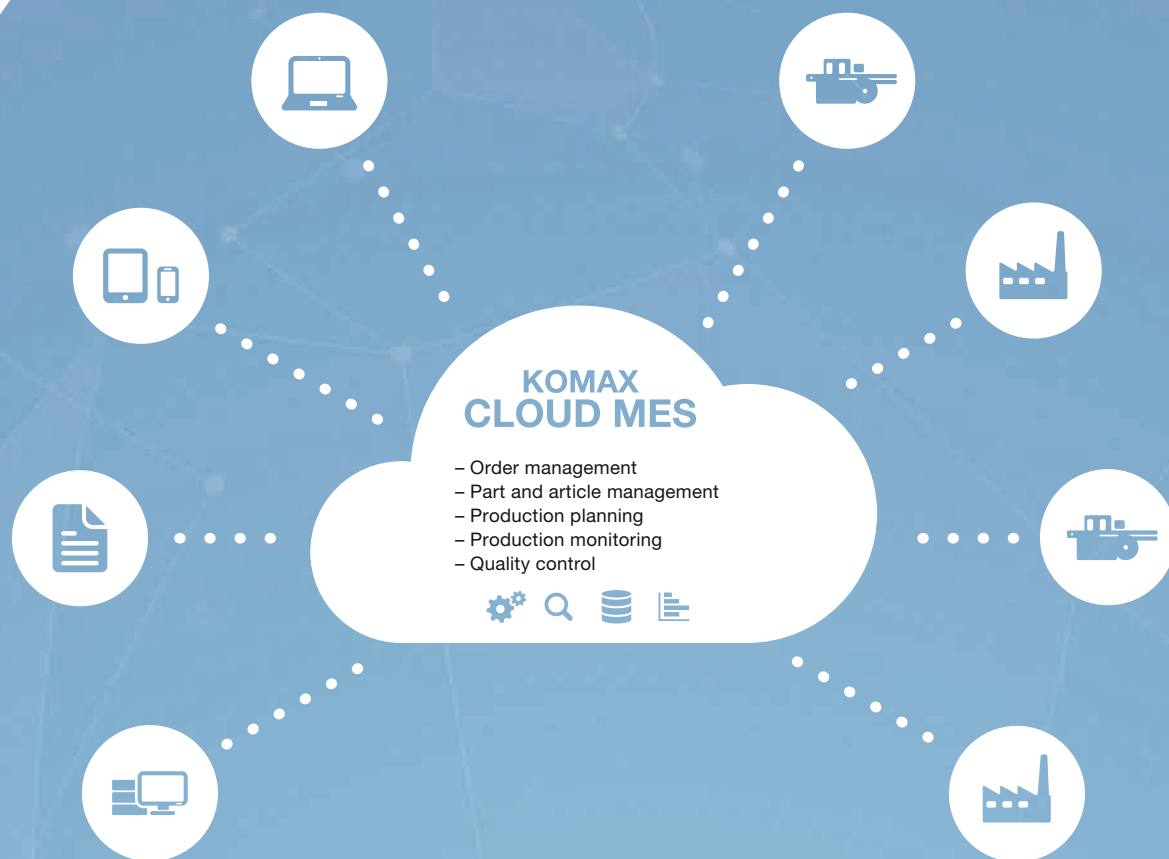
Fully scalable according to your needs

You can extend the MES with a range of additional modules, such as OEE, tool management, label printing, etc. Or you can even upgrade to the "on premises Komax MES", as both systems are 100 % identical and therefore 100 % compatible.



A man with dark hair and a beard, wearing a dark suit and a light blue shirt, stands with his arms outstretched. He is positioned in the center of the frame. The background is a deep blue with various digital and technical graphics. There are glowing white lines and arcs, some resembling orbits or data paths. On the left, there are circular progress indicators with labels '0%' and '25%'. On the right, there is a line graph with multiple data series and a table of numbers. The overall aesthetic is futuristic and high-tech, representing Industry 4.0 and cloud-based manufacturing.

CLOUD-BASED MANUFACTURING EXECUTION SYSTEM FOR THE WIRE PROCESSING INDUSTRY 4.0



YOUR DATA IS SAFE IN OUR CLOUD

- Secure access to the platform using two-factor authentication
- Integrated access and permissions management
- Customer's central security guidelines are transferred (AAD Federation)
- Encrypted data transmission via HTTPS
- MES platform based on the Azure Security Framework
- Strict separation of customer data thanks to application-level data isolation
- Regular security and system updates

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Security Certificate
Security Audit 2019

Tested Products:	Komax Gateway, Digital Marketplace Portal (Komax Connect, CloudMES), both as of 17.06.2019
Audit Process:	Modified NIST SP800-115
Concept Audit:	BSI Grundschrift Catalog, IEC 62443-3, IEC 62443-4-2
Component Audits:	Vulnerability assessment, exploitation with standard tools, fuzzing on Ethernet interface, analysis of communication principle, OWASP Top 10 threat analysis
System Audit:	Security assessment of end-to-end reference setup, threat assessment of 3rd party components based on CVEs
Test results:	Tests passed, some with recommendations and obligations with respect to supplementary processes, a detailed report has been issued

Successfully Passed

Kollnburg 17.06.2019

Prof. Dr. Peter Fröhlich
Prof. Dr. Andreas Grzempa

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MES BENEFITS AT A GLANCE

TRANSPARENCY

Perfect overview of current production – display of machine status – OEE analysis for continuous process improvement.

TOOL MANAGEMENT

The tool database enables the management and planning of tools to achieve maximum quality. Maintenance management (optional).

STANDARDIZED DATA INTERFACE

Transfer of all data in simple CSV files.
Visualization of the data in the Office Client.

TRACEABILITY

Full production history to guarantee traceability.

PRODUCTION SCENARIOS

See what happens if something happens: a resource breakdown or urgent new customer order. Thanks to the simulation of various scenarios, the consequences can be seen immediately.

PRODUCTION PLANNING

Maximum productivity thanks to planning with optimized setup times – the number of rejects is reduced.

QUALITY IMPROVEMENT

No more manual entry on the machine, defined work processes, storage of all quality-related measurements.

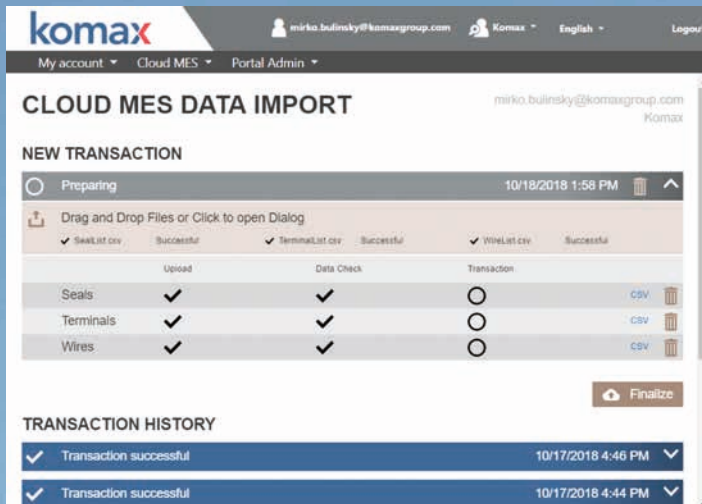
MASTER DATA AND CRIMP DATA MANAGEMENT

The same production and crimp data on every machine thanks to a central MES database. Automatic verification of data completeness.

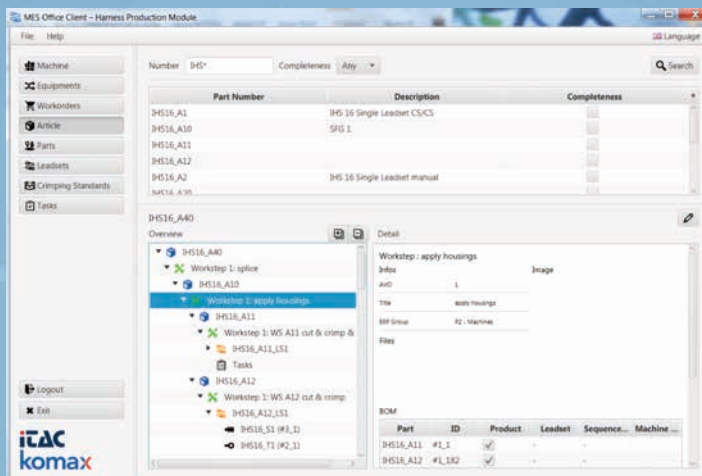


KOMAX CLOUD MES – DEVELOPED BY THE INDUSTRY LEADERS

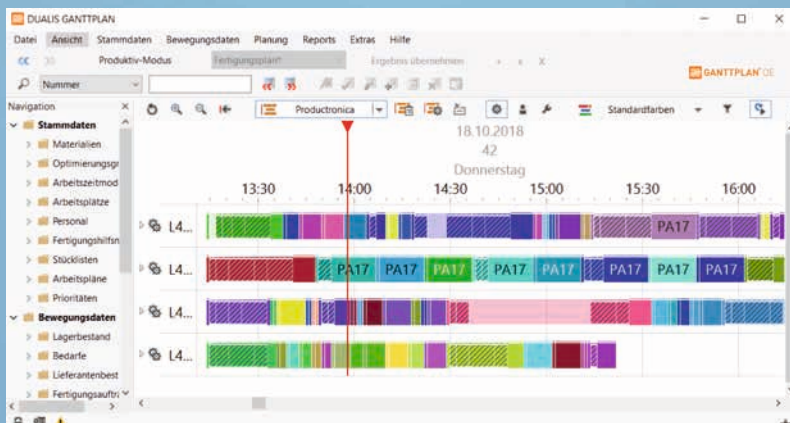
Komax Cloud MES is developed by the global leader in the wire processing industry, Komax, in collaboration with iTAC Software. By combining the expertise of these two leading companies, Komax Cloud MES precisely fulfills the requirements of the wire processing industry.



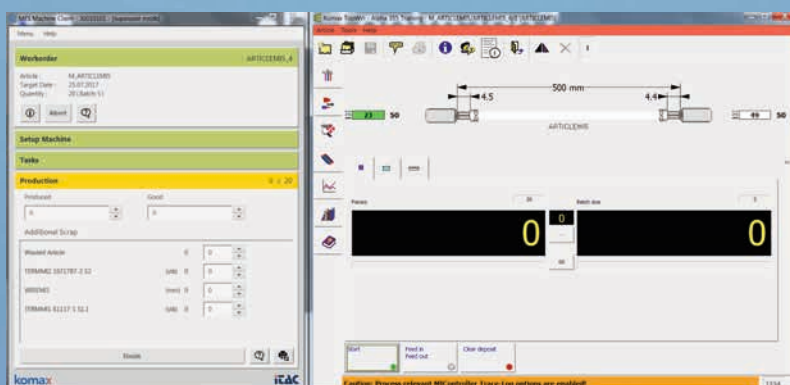
1. Upload production data



2. Check production data



3. Plan production



4. Start production

HERE'S HOW EASY IT IS TO MANAGE YOUR MACHINERY

1. Upload production data

Parts, articles, crimp data, orders – everything that you need to produce a customer order.

2. Check production data

Check the data for completeness and consistency in the office client. Define your machinery pool with the capabilities of all your machines.

3. Plan production

The Gantt chart finds a machine for you that is able to produce the order and proposes a production plan that meets the specified delivery times and minimizes setup costs and rejects.

4. Start production

The machine client guides the operator through the production process and provides feedback about the ongoing production.

Komax – leading the field now and in the future

As a pioneer and market leader in the field of automated wire processing, Komax provides its customers with innovative and sustainable solutions for any situation that calls for precise contact connections. Komax manufactures series and customer-specific machinery for various industries, catering for every degree of automation and customization. Its range of quality tools, test systems, and intelligent networking solutions complete the portfolio, and ensure safe and efficient production. Komax is a globally active Swiss company with development and production facilities on several continents. Komax uses its extensive distribution and service network, which includes local companies and their employees, to support customers across the world on site, thus ensuring the availability and value of their investments after equipment commissioning through standardized service processes.

40
YEARS
CUTTING
EDGE

Market segments

Komax offers outstanding competence and solutions for various areas of application and draws on them to generate the desired value-added for the entire process and optimize economic efficiency in line with customer requirements. The main markets of Komax are as follows: automotive, aerospace, industrial and telecom & datacom. With this breadth of experience, customers obtain expert knowledge for process optimization and access to the latest technologies.



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