



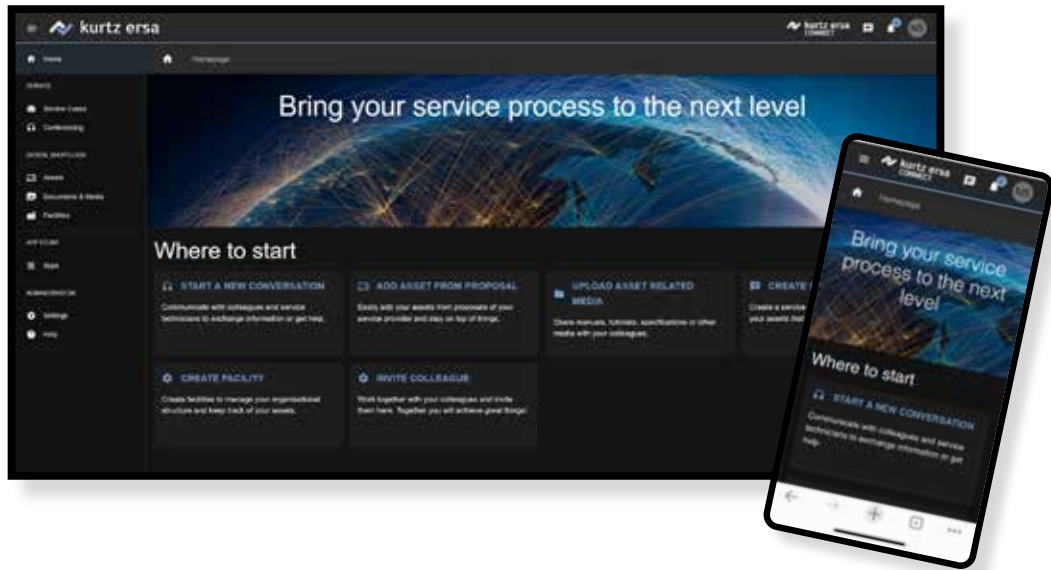
 kurtz ersa
CONNECT

Kurtz Ersä CONNECT

Added value through digitalization

GLOBAL. AHEAD. SUSTAINABLE.





Kurtz Ersä CONNECT

One Tool. All Services. Your Access to us. Added value with digitization

Through the use of modern communication and information technologies people and machines can be networked. As a leading system provider for electronics production, Ersä offers under the keyword „SERVITIZATION“ a comprehensive range of digital services on one platform that represent real added value. These can optimize processes, make them fit for the future and significantly increase productivity.

With Kurtz Ersä CONNECT, Ersä provides a platform for the modular integration and visualization of all digital service offerings. This can be used for the entire Kurtz Ersä machine portfolio and is based on a consistent hardware and software infrastructure. Standardized interfaces reduce the effort required for integration into customer production systems (MES) and offer speed and cost advantages. The digital offerings are accessible

regardless of location and device from any computer/mobile device via web browser and increase the reliability and availability of each individual system. They also create transparency and security. Where it was only possible to react according to the situation in the past, information can now be interpreted based on data and evaluated efficiently.

Features:

- Integrated hardware and software infrastructure
- Available for the entire Kurtz Ersä machine portfolio
- Standardized interfaces and systems
- Available for web browsers and mobile devices
- Location- and device-independent access

Modules:

- Intelligent ticket system for optimized service processes
- Remote Service: Remote analysis & fast support
- Digital machine database: The entire machine park at a glance
- Document management: All relevant documents directly accessible
- E-learning: Professional personnel qualification
- Machine monitoring: KPIs for production professionalization
- Chat & video calls: Fast, simple & face-to-face communication

Your Benefits:

- Faster service processes, reduced machine downtimes, higher machine availability, shorter training time for employees
- Obtaining important data for process and machine monitoring
- Intelligent & easy-to-use ticket system
- Benefit from expert know-how through integrated digital service and training processes
- Securing competitiveness through increased efficiency and better capacity utilization of the overall systems



Machine database

The digital machine database integrated in Kurtz Ersä CONNECT provides a convenient and device-independent overview of the complete, worldwide machine park at one glance. In this way you will gain maximum speed and service quality due to transparent information, since general machine information, hard- and software configurations, operating instructions, circuit and pneumatic diagrams, service documents and documentations are available any time, if required.

Ticket system

The intelligent ticket system is the perfect way to optimize service processes for quick and efficient solutions to support cases. All tickets are stored and processed in one place within the Kurtz Ersä CONNECT platform and can be sorted by relevance at a single click. The clear chat display and the option to add images, descriptions, log files, etc. speeds up the process of finding a solution and significantly increases service efficiency. This saves time and costs and increases the transparency of support processes.

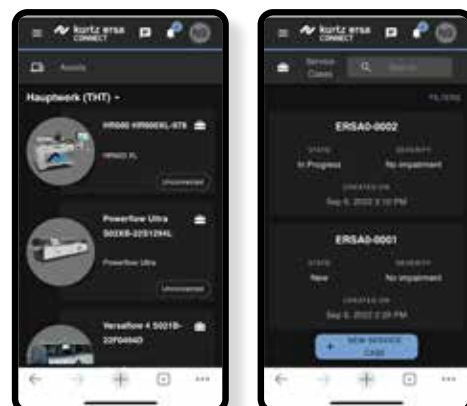


E-Learning

The Kurtz Ersä CONNECT E-Learning Module takes personnel qualification to the next level. Interactive and modular E-learning courses with 3D-animated machine illustrations and training videos are accessible via the Kurtz Ersä CONNECT E-Learning platform/knowledge database, independent of time and place. The learning progress on the globally standardized training material can be ensured by examinations and certificates. This ensures continuous knowledge transfer and reduces the need for on-site training and waiting times for face-to-face training.

Mobile application

The intuitive, modern Kurtz Ersä CONNECT user interface is "future proof" and, thanks to its responsive design, also ideally suited for mobile devices. The performant back-end enables split views "Ersa/Customer" and can be individually configured by the customer. Extensions or future features can be easily added using the Edge Device Gateway (Kurtz Ersä GATE).



Kurtz Ersa CONNECT

The single modules of our digital services.

Intelligent ticketing system "Service Cases"

Optimized service processes

With the intelligent ticket system "Service Cases", Ersa GmbH optimizes service processes worldwide. Thanks to standardized communication between the customer and Ersa Service via ticketing, error situations can be resolved quickly. In the process, digital real-time information from the machine and other modules is supplemented, e.g. digital machine database, monitoring or machine data. In addition, there is access to modules such as E-Learning or E-Maintenance, including an intelligent evaluation of completed tickets.

Remote Service

Remote analysis and quick support

Malfunctions in the customer's systems must be remedied immediately, as these machine downtimes are often associated with high costs. The remote service of Kurtz Ersa CONNECT offers a simple and safe possibility for remote diagnosis and fast first aid. With the help of the Edge Gateway Ersa Service immediately carries out a detailed troubleshooting and repairs. Good to know: Remote maintenance is always carried out via digital switch at the invitation by the customer and cannot be started externally.

E-Learning

Location and time-independent access to the knowledge database

The interactive and module-based E-Learning courses include 3D animated machine illustrations and training videos. Learning progress is documented and verified via exams and certificates. The access to the E-Learning platform is independent of location and time. Via this knowledge database personnel worldwide can be trained uniformly. Thus, the need for on-site training is reduced, and waiting times for classroom training are eliminated – best conditions for increasing efficiency in the production process.

SMART SERVICE

INTELLIGENT
TICKET SYSTEM



SMART SERVICE

CONNECTED
REMOTE
SERVICE



SMART SERVICE

E-LEARNING

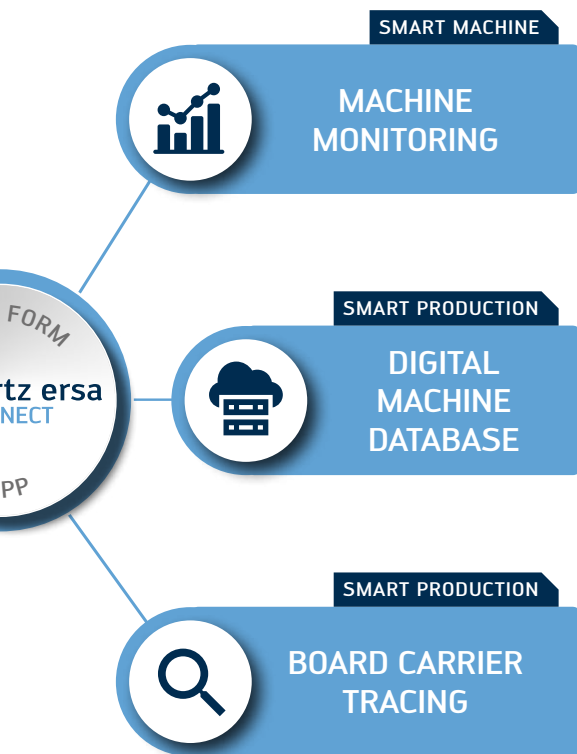




Machine monitoring

KPIs for the condition monitoring of your production

This provides real-time monitoring of relevant machine and process data. Location-independent access to the status of machine parts allows for quick actions if necessary. Machine monitoring enables the visualization of key figures and deviations within the range of predefined tolerances. Limit value violation is displayed in order to keep an eye on the control loop of the production.



Digital machine database

Your plant and machinery at a glance

With the digital machine database, you always have relevant real-time data at your fingertips, such as customer data and general machine information, the visual representation of the current configuration (hardware and software) and the location of the machine.

Also within reach are important documents such as customer acceptance tests/machine capability tests (MCT), service reports and instructions, safety documents and waybills/customs documents.

Workpiece carrier tracing/Kurtz ErsaNEXT line control

Monitoring, tracking and process control

In the case of product carrier tracing, all product movements and related processes within a complete line are controlled. Individual PCBs, e.g. with product carriers, masks or holders are linked using the product IDs. The used components and parts are recorded and important process data of the line is linked with the product IDs. Automatic product carrier cycles are likewise managed.

**You too can benefit from our future-oriented service offers.
Feel free to contact us!**

Standardized interfaces ensure transparency as well as cost and functional benefits



Reduced effort when integrating Kurtz Ersa systems into customer infrastructure

Integration without a gateway:

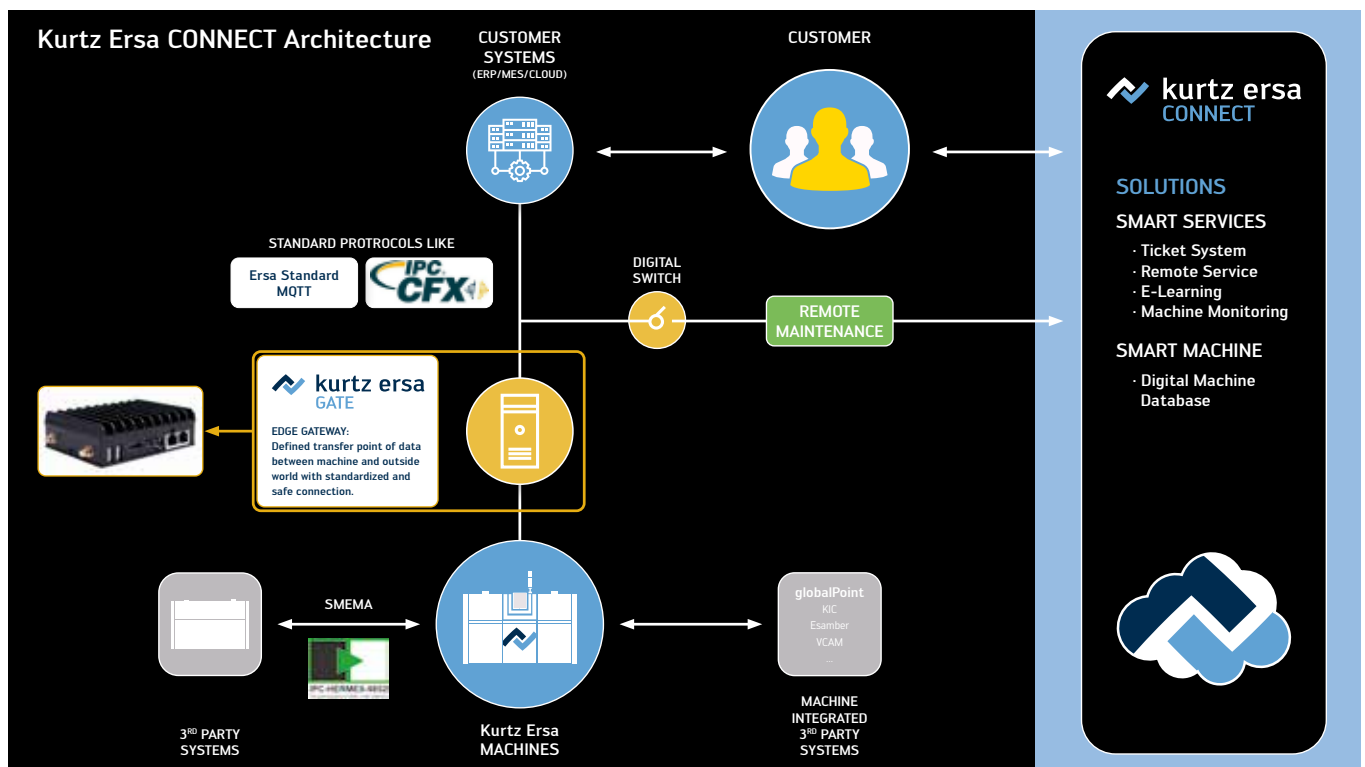
The connection of machines to customer production systems (MES) can be realized in different ways. Even an integration without a gateway using interfaces is possible. With a diverse machine park, which may even differ in terms of configuration and software versions, standardized interfaces are almost impossible. The result is that the initial integration effort is extremely high, as developments have to be implemented for each machine type. Also hardware

or software updates can require complex adjustments to the individual interfaces.

Integration with gateway:

The use of a gateway and the use of industrial communication standards such as IPC-CFX, or MQTT (Ersa standard), on the other hand, offer the advantage that significantly less effort is required for the integration into the customer's own MES. For example, the entire Ersa product portfolio can be linked via a gateway and Kurtz Ersa CONNECT. Regardless of what

you use - stencil printers, reflow, wave or selective soldering systems, including automation and even rework systems - they all use the same hardware (Kurtz Ersa GATE) and the same interface. The advantages are obvious: Maintenance, servicing, updates and bug fixing of the interface are only carried out once at a central system. Customer individualizations are immediately available for the entire product portfolio. This saves time and reduces costs.





Kurtz Ersa CONNECT

Future and data security

The gateway as a cornerstone for important security features and a guarantee for future security and flexibility

Technical infrastructure

Our gateway (Edge Device) ensures a secure and standardized connection between Ersa systems and the outside world - including communication between the cloud, applications and systems. The gateway processes the acquired measurement data and information and transmits it securely to the Kurtz Ersa Cloud or optionally directly to the customer's systems.

Thanks to the Edge Device capabilities of Kurtz Ersa GATE, Ersa can offer intelligent solutions and functions even without a permanent internet connection. In addition to the transmission, e.g. of live information for real-time monitoring applications, the gateway offers many other possibilities, such as remote access in urgent service cases.

Data security: safety first!

The security of the data generated and stored is guaranteed at all times - all current standards such as MQTT (Message Queuing Telemetry Transport) and AMQP (Advanced Message Queuing Protocol) are used to ensure the highest possible level of protection for customer data and interests. The digital switch only controls the remote maintenance connection. The customer can thus allow or deny access to the machine - a ticket is required as a basis!

The modular software structure and upward and downward compatibility of the gateway with the Ersa product portfolio ensure worldwide update capability. Even if no connection to external systems is currently permitted, Kurtz Ersa GATE already provides the secure technical basis

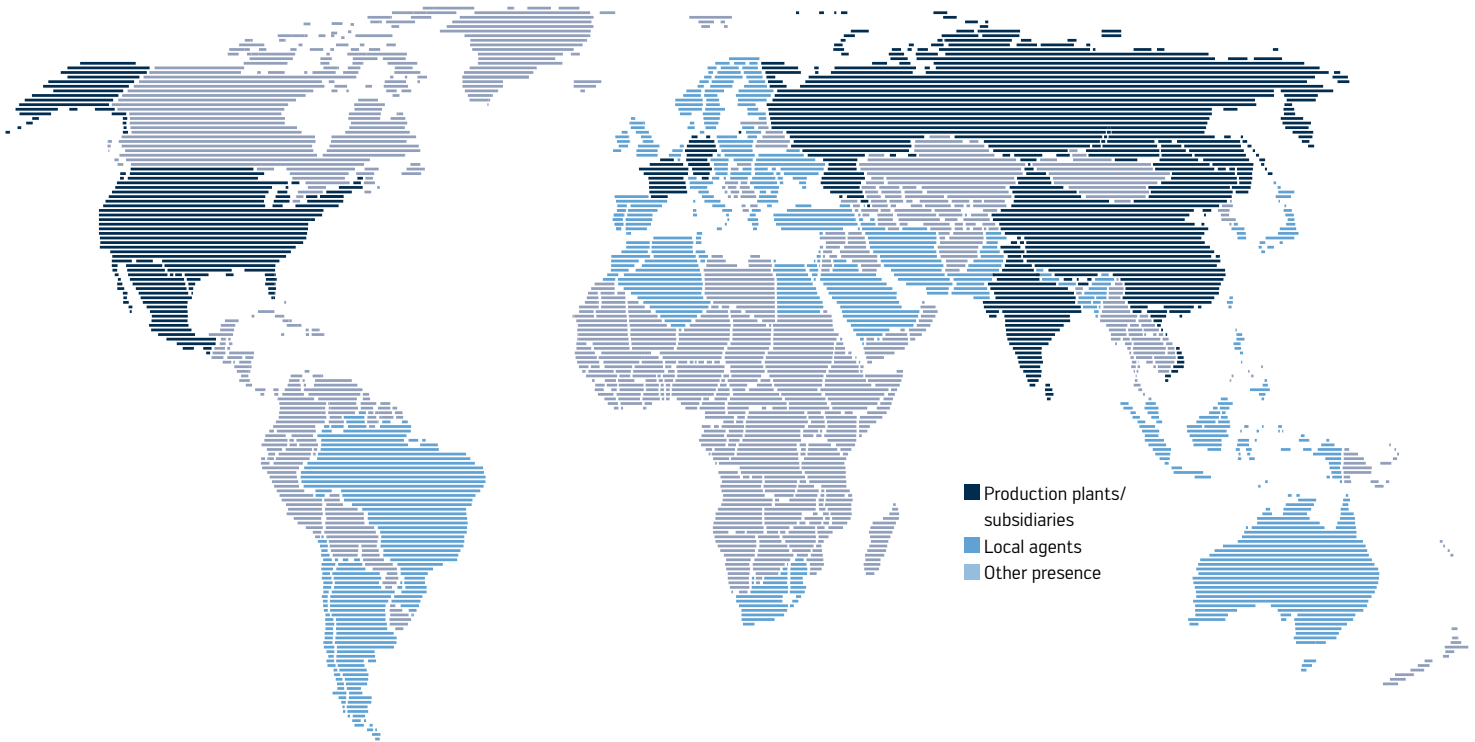
for future digital solutions. For example, for optimizations in the areas of service, process and production using features such as ticket system, production evaluations or capacity planning.



Gateway Kurtz Ersa GATE (Edge Device) with mounting plate and power supply plug

ELECTRONICS PRODUCTION EQUIPMENT

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