

INDUSTRIAL MANUFACTURING 4.0

AVOID MISTAKES, SOLVE PROBLEMS SUSTAINABLY AND OPTIMISE PROCESSES LONG-TERM WITH THE HELP OF THE CONNECTED WORKER PLATFORM

In 21st century digital production, it is not about pushing employees out of production and replacing colleagues with machines, but about ensuring efficient cooperation between the two. The term “connected worker”, which was coined by Gartner, describes an employee working in a production environment who is supported by digital tools and data management techniques in their work in order to be able to make better decisions. This melds the physical world of manufacturing with its virtual counterpart to provide high-quality, targeted information.

Not only is the interaction between people and machines crucial, but also targeted person-to-person communication and the transmission of information. Data can then be passed on and aggregated at different levels of a factory, including the shop floor, the management level and even across different factories. The synergy generated allows teams to work together locally as well as in collaboration with other production sites.

Our Connected Worker platform brings all the use cases from the shop floor together in one solution. The intuitive, enjoyable user experience and uniform user interface facilitate collaborative work in groups. There are no time-consuming system breaks between the applications. This decreases the number of errors, saves time and increases staff motivation.

Bi-directional interfaces to 3rd party systems such as Enterprise Resource Planning, Big Data, Business Intelligence, Maintenance, Human Resources and Product Life-cycle Management in particular lead to holistic networking in the company with the Connected Worker platform acting as the data hub.

You can purchase a licence for the following products either together or separately.



Finito From one shift to the next without missing a beat

Every year, more and more demands are placed on manufacturing companies to provide documentation on matters relating to the environment, energy, safety and staff.

The digital shift book Finito creates transparency throughout the entire documentation process of a production day. Templates make it possible for employees to record and process shift events in a standardised manner in a matter of seconds. Supervisors are then able to define tasks with responsibilities for these events and have an overview of the current status at all times. This ensures that problems are documented from their point of origin to their solution and are solved in a sustainable manner. The insights gained through the problem-solving process can be shared with staff as instructions with read receipts, thereby supporting continuous improvement.

If a similar problem has occurred in the past, the staff member can search for it in Finito at any time. Regardless of whether it is a free text or specific to a certain category, employees can quickly and efficiently find out which measures contributed to the solution and can evaluate for themselves whether a similar approach would be effective.

At the end of the shift, the shift handover takes place using customised forms that are adapted to the process and area. Data can be imported from third-party systems at the touch of a button, open events and tasks can be automatically transferred to the next shift and reports can be automatically created and sent. This way, you always have all shift information compactly summarised in Finito and stored in an audit-proof manner.

Expected added value through the use of Finito:

- Better decision-making based on consistent information leads to an average increase of 3% in OEE
- Reduction of input errors by approx. 70% due to the plausibility check
- Evaluation speed increased by approx. 90% due to digital information capture
- Reduction of preparation time for shift handovers and audits by approx. 50%
- Data processing efficiency increased by approx. 50%
- 100% elimination of transfer times to third-party systems
- 50% reduction in time spent on staff scheduling thanks to automation



The advantages of Finito at a glance:

- **Reduction of downtimes** thanks to statistics on malfunctions and downtimes and quick access to the solutions to similar or identical malfunctions encountered in the past.
- **Reduction of unplanned malfunctions** through the identification and processing of systematic errors (preventive maintenance)
- **Optimisation of production processes**, work procedures and safety measures
- Time saved in compiling and passing on information to higher-level departments by automatically passing on and consolidating information for all hierarchical levels of the company
- **Time saved in preparation** of production management meetings through the prompt and simultaneous distribution of all relevant information
- **Continuous improvement process** (CIP) with process-oriented key figures available at the touch of a button

Technical highlights:

- Web-based HTML5 application
- The entire application is responsive and automatically scales itself to match your screen resolution
- Simple integration of standard software through interfaces to SAP, Osisoft PI, Aspentech IP21, Honeywell PHD and others ensures a high level of connectivity
- Audit-compliant archiving of all shift book entries
- Cloud-ready, many of our customers are already using the solution in external data centres
- Database support for the Microsoft SQL Server and Oracle DB



Checkware: managed processes in all manufacturing areas

Whether you're dealing with machine maintenance, incoming goods inspection or security rounds. The company has defined guidelines and processes for everything. In addition to ensuring that processes are carried out reliably, legally compliant documentation must also be provided in many cases.

This is where our Checkware solution and its digital checklists come into play. The employee is given an interactive guide on how to perform certain tasks and documents these tasks while performing them. During the process, the employee can receive support in the form of instructions, images, geotagging, pop-up information messages or even videos.

Some entries are automatically made by Checkware, for example the start or end time of the operation or the name of the person performing the operation, which saves time and ensures data quality. Manual entries can be checked using mandatory fields and plausibility checks, and helpful information can be displayed. This helps to avoid errors and any resulting problems.

Alongside checkboxes, buttons and various text fields, the user is also able to provide more extensive information, for example by uploading a file or taking a photo of the problem in situ with the Checkware app, and even by drawing to provide explanations.

If the employee performing a task is unable to complete it, the task can be automatically passed on and, in the case of important tasks, automatically escalated to the supervisor.

If completed successfully, the data can then be transferred to third-party systems, trigger other work processes and be stored in the database in an audit-proof manner.

Expected added value through the use of Checkware:

- Reduction of input errors by approx. 70% due to the plausibility check
- Evaluation speed increased by approx. 90% due to digital recording
- Approx. 50% reduction in time filling in forms by thanks to pre-filled forms
- 100% risk minimisation with versioning, as the latest version is automatically used
- Data processing efficiency increased by approx. 50%
- 100% elimination of transfer times to third-party systems
- 100% elimination of paper and printers in the documentation process



The advantages of Checkware at a glance:

- **Fewer errors as a result of employee guidance** using checklists
- **Faster documentation of anomalies** with photos, text, file attachments or buttons
- **Dynamic documents** to enable quick recording and step-by-step implementation of tasks
- **Optimisation of production processes**, work procedures and safety measures
- **Time saved in passing on information** to higher-level departments by automatically passing on and consolidating information for all hierarchical levels of the company

Technical highlights:

- Task manager to organise your teams
- Offline-capable Checkware app for iOS, Android and Windows 10
- Integration with popular business intelligence systems such as Tableau, Microsoft Power BI, etc.
- High degree of data security
- Defects automatically reported to other systems or key stakeholders
- Checkware Designer with drag & drop functionality to easily create extensive checklists without any programming knowledge



Do you have specific questions about how you can optimise your production?

Get in touch →