

WAMAS Maintenance Center

Predict. Protect. Perform.

How you can make your maintenance predictable and increase your system availability.

ssi-schaefer.com

Maintenance: A Race against Time?

Any downtime in intralogistics costs time and money. Not only malfunctions but also maintenance tasks and a lack of overview can bring the flow of goods to a standstill. What is often missing: Transparency of system data, upcoming maintenance tasks and spare part availability. Do these challenges sound familiar?



Troubleshooting instead of planning

Malfunctions set the pace. There is little time in everyday operations for preventive measures.



Routines tie up resources

Fixed inspection intervals still require effort, even if a component does not currently require an intervention.



Downtime restricts operations

If a critical asset fails, the material flow stops and downstream processes are delayed.



No spare parts when they are needed

Without predictive planning, missing spare parts can delay repairs and extend downtimes.

Don't let downtime slow you down: Contact our experts now!

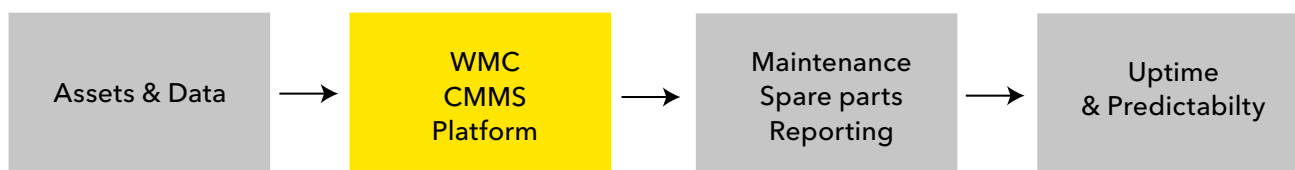


From Reactive Maintenance to Predictable Performance

The WAMAS Maintenance Center (WMC) is a Computerized Maintenance Management System (CMMS) that has been specifically developed for automated and semi-automated warehouse and material flow systems. The software combines system structures, maintenance planning, work orders, maintenance histories, spare parts and analyses. A web application is used for planning and analysis; a mobile app facilitates execution.

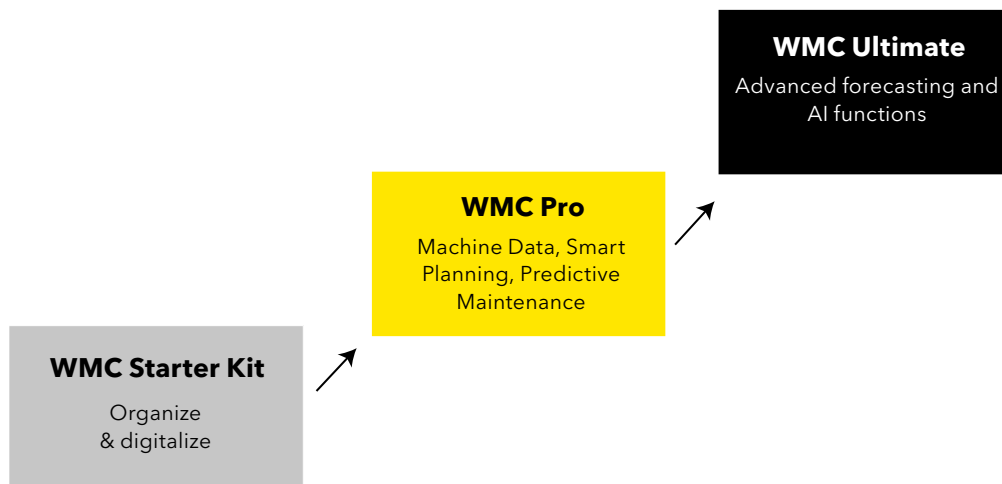
How WMC simplifies your maintenance:

- **Analyze:** Transparent analysis of maintenance histories, downtimes, spare parts consumption, key figures
- **Plan:** Central organization of assets, work plans, tasks, schedules and resources.
- **Execute:** Mobile processing of work orders, documentation of photos, measured values, times and acknowledgements directly at the system.
- **Optimize:** Expand your options by analyzing machine and status data. Prioritize relevant tasks and maximize your system availability.



WMC Grows with Your Requirements

Not every system needs the full scope of functions straight away. This is why we offer the WMC at three configuration levels: WMC Starter Kit, WMC Pro and WMC Ultimate are based on a common platform and database. If complexity increases or additional machine or status data is available at a later point, you can simply expand the scope of functions.



WMC Starter Kit: Create structure

The digital basis for asset management, maintenance planning, mobile work orders, spare parts, reporting.

WMC Pro: Targeted use of data

Machine data, intelligent maintenance prioritization and smart planning extend maintenance planning to include current operational information.

WMC Ultimate: Expand forecasts

Additional AI and forecasting functions enable comprehensive analyses and support Predictive Maintenance.

Overview of Packages and Functions

	WMC Starter Kit	WMC Pro	WMC Ultimate
Assetmanagement Centralized asset management including system hierarchy, classification and system documentation	✓	✓	✓
Maintenance scheduling AI-supported planning of time-based, preventive maintenance measures, taking actual shift capacity into account	 Cyclical Maintenance Planning	✓	✓
Work orders Dynamic, data-driven work plan and task assignment, including documentation of root causes and corrective actions		✓	✓
Spare parts and stock management Spare parts management with stock tracking	✓	✓	✓
Predictive Maintenance and AI Intelligent maintenance prioritization per asset based on collected machine data, supplemented by cross-site insights Edge technology for recording relevant machine data		✓ ✓	✓ ✓
Reporting and analysis Operational Insight Dashboard Intelligent fault analysis	✓	✓ ✓	✓ ✓
Mobile support Mobile CMMS app including photo documentation Push notifications for work orders and fault reports	✓	✓ ✓	✓ ✓
Targeted forwarding of fault messages Mobile alerts based on notifications from the WAMAS Control Center (WCC), including rule-based forwarding	✓	✓	✓
WMC functions in development or planning Root cause analysis provides optimum support for maintenance staff Remaining useful life (RUL) forecast			✓ ✓

Note: For Pro and Ultimate, Edge hardware may be required.

Outlook: WMC functions in development or planning

- Dynamic work plan generation
- Anomaly analysis for detecting unplanned downtime
- Automated stock management based on maintenance planning
- API access for external systems
- Integration of IoT sensors
- Automated stock management based on stock forecasts

WMC Starter Kit: Create Structure and Optimize Maintenance

Reliable data and clear processes are the prerequisites for well-organized maintenance. The WMC Starter Kit forms the basis for this by combining assets, tasks, spare parts and maintenance information.



Quick start

We support you in the preparation of assets, system structures and work plans.

Your benefit: Simple implementation without considerable commitment of resources



Standardized database

Centralized availability of work orders, maintenance histories, technical information and documents.

Your benefit: Fewer distributed lists, clearer processes



Mobile data access

With the mobile app, you can open work orders, document work steps and record photos, measured values and times.

Your benefit: Less follow-up work and simple documentation right at the system



Spare parts and key indicators at a glance

Stocks and used spare parts are continuously documented. Dashboards and analyses show the development of maintenance activities and system performance.

Your benefit: all relevant data is traceable at all times



WMC Pro: Maintenance Tasks, When and Where They Are Necessary

Machine and operating data show which measures take priority and where routine work can be reduced.



Predictive Maintenance

Machine data and maintenance forecasts aid the early detection of maintenance needs and the closer alignment of work to actual conditions.

Your benefit: Fewer unnecessary activities and more time for targeted maintenance



Smart Planning

Smart planning includes available capacities, priorities and operational impacts in the planning of maintenance tasks.

Your benefit: Close alignment of maintenance to your material flow



Intelligent fault analysis

Spare parts information is included in the maintenance processes, and this creates transparency around required and available components.

Your benefit: Better preparation for maintenance tasks and reduction of delays due to missing parts

WMC Ultimate: Avoid Malfunctions Before They Occur

With WMC Ultimate, see the future of your system: The expansion extends the features of WMC Pro to include additional analysis and forecast functions.



Root cause analysis

AI-supported analyses help the maintenance team to identify links between malfunctions and possible causes.

Your benefit: Identify errors more easily and take appropriate action.



Remaining Useful Life

The remaining useful life (RUL) forecast uses available data to estimate how long critical components are expected to remain in service.

Your benefit: Determine maintenance times more precisely and better utilize the actual lifespan of components.



Earlier identification of critical risks

The prediction of failure probability shows which components require particular attention.

Your benefit: Prioritize maintenance on time and be better prepared for interventions.



Management of spare parts

Future spare part requirements can be more closely integrated with stock management based on forecasts.

Your benefit: Ensure availability and plan stocks according to need.

Complete System Instead of Stand-alone System: How Maintenance Becomes Efficient

WMC combines maintenance information, system knowledge and relevant operating data on one platform. Instead of viewing maintenance data in isolation, you can now view it in connection with system, spare parts and service information.

Centralized database

Assets, work orders, histories, spare parts and analyses are available centrally and with access protection. The web application and mobile app access the same information.

Integration into existing systems

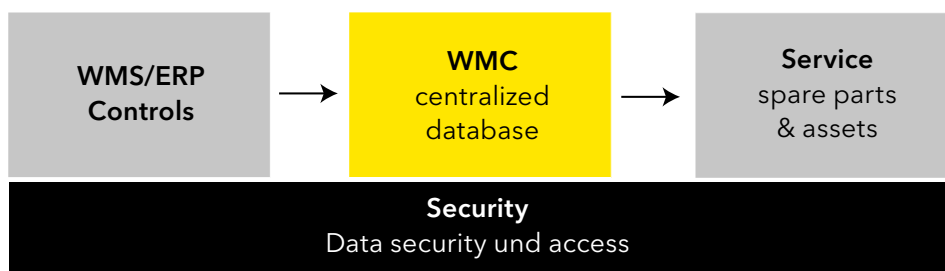
Depending on the project, the WMC can be connected to existing WMS, ERP and control systems. The necessary interfaces for this are determined according to the individual project.

More data for maintenance planning

With WMC Pro and WMC Ultimate, additional machine and status data can be included in analysis, prioritization and planning.

Part of the SSI SCHAEFER service ecosystem

Software, system knowledge, spare parts supply and service can be linked. The WMC thus forms a link between the maintenance organization and ongoing system operations.





HARIBO: When data leads to concrete maintenance decisions

The deployment of predictive maintenance at HARIBO illustrates the impact of data-based maintenance in operation. At the distribution center in Graftschaff, the confectionery manufacturer works with a highly automated logistics system:

- More than 92,000 pallet storage locations
- 22 storage-retrieval machines
- Conveying system of around 2.6 km

Operational data is recorded, merged in the WAMAS Maintenance Center and evaluated using algorithms. This means that maintenance tasks are aligned with the actual requirement instead of simply following fixed intervals.

Result: Time savings of up to 30 percent in maintenance and inspection.

„Predictive Maintenance is almost like looking into the future. Optimized maintenance actions save time and money and also give us a real competitive edge.“

Stefan Sorce
Managing Director of Haribo Logistik

Check: Which WMC Package Is Best for You?

The selection of your CMMS is not only dependent on the size or complexity of your system. The appropriate package is also selected on the basis of existing data and how your maintenance is organized. These questions will help you assess the situation:

System and assets

- How many components have to be maintained?
- How complex is your system structure?
- Which assets are critical for the material flow?

Processes & team

- Are you already using digital maintenance planning?
- How much time is currently spent on routine tasks?
- How do you document tasks, histories and spare parts?

Data & integration

- What machine and operational data is already available?
- Which systems are to be integrated with WMC?
- To what extent do you want to move your maintenance towards Predictive Maintenance?

Seven Reasons for choosing SSI SCHAEFER

■ **Stability**

As a financially independent family business, SSI SCHAEFER is committed to long-term solutions. You can trust that our team of experts will be there for you today, tomorrow and in years to come.

■ **Efficiency**

SSI SCHAEFER solutions are scalable and able to grow with your business. You can always upgrade or retrofit.

■ **Quality**

As a systems specialist with its own production facility and software development department, SSI SCHAEFER provides tailor-made and high-quality solutions from a single source, specifically designed to meet your challenges.

■ **Reliability**

Thanks to our worldwide Customer Service & Support network, SSI SCHAEFER ensures smooth operation of your system long term, both during and even long after installation.

■ **Know-how**

SSI SCHAEFER solutions are always up-to-date with the latest technological standards and can be easily integrated into an existing (IT) landscape.

■ **Sustainability**

As a global intralogistics provider, SSI SCHAEFER is committed to sustainable, efficient and future-proof solutions. The company therefore contributes to the goals for sustainable development set by the United Nations.

■ **Internationality**

As a global organization, SSI SCHAEFER has local offices worldwide. With over 80 operative subsidiaries, our team of experts speak your language.

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