QRmaint

CMMS QRMAINT

COMPUTERIZED MAINTENANCE MANAGEMENT SYSTEM

A comprenhensive system for efficent Maintenance Management

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EFFICIENT
MAINTENANCE MANAGEMENT.

In an effort to streamline maintenance processes, many companies mistakenly believe that doing so requires a significant financial investment. In fact, both large and small and medium-sized businesses (SMBs) can adopt modern maintenance strategies without major expenditures. The key is to assess needs, select the right software and ensure its proper implementation with consistent use over time.

Carefully selected and properly implemented software can be an invaluable asset in maintenance management. CMMS system enabling companies to achieve multiple goals simultaneously: streamlining maintenance processes, reducing costs, minimizing equipment downtime, and improving overall efficiency. Additionally, it can enhance team productivity and provide valuable insights for data-driven decision-making.

QRmaint's CMMS will help you achieve these goals within just a few weeks of implementation.

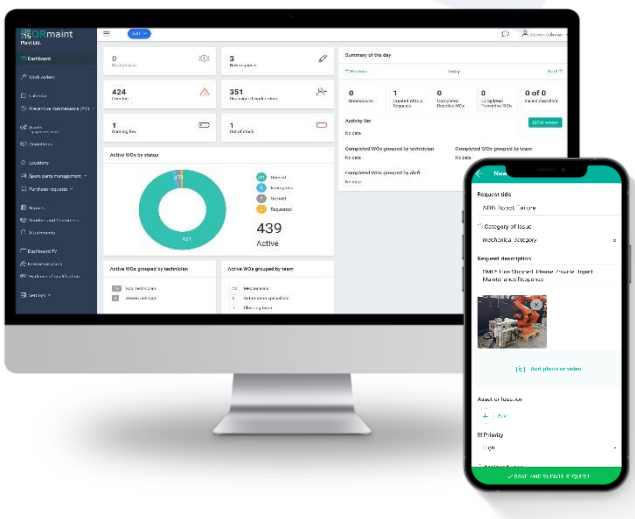
On the following pages, we outline the key features of QRmaint Maintenance Management software, each with a brief description.

For further details, please visit our website at **qrmaint.com** or call us at +48 12 400 41 70.

We look forward to your contact!

We do our best,

The QRmaint Team



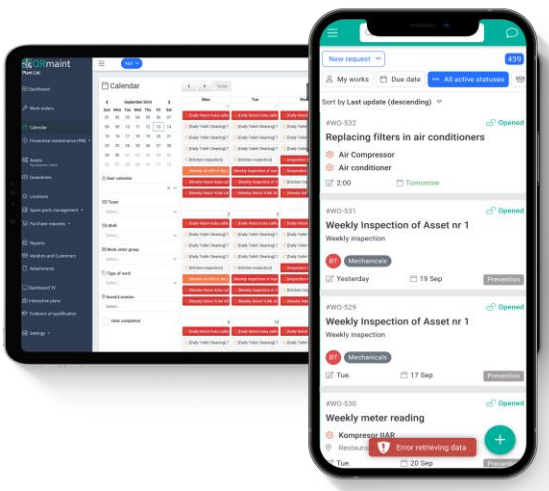
QRmaint enables efficient work on both mobile and desktop devices. devics

Regardless of the size of the company facility, QRmaint can be effectively managed by both individual users and larger teams with different specialties.

CMMS — BENEFITS FOR MAINTENANCE MANAGEMENT.

How can a CMMS enhance Maintenance Management in a facility?

Through extensive collaboration with over 400 clients in diverse sectors like automotive, food processing, chemicals, and logistics, we have pinpointed the core benefits of CMMS software. Each partnership offers valuable insights that help us continually refine and improve QRmaint CMMS.



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Watch the video showcasing how QRmaint software works in real-world scenarios at the Bosch Rexroth showroom. See CMMS system key features.

The reasons businesses opt for maintenance management software are diverse and depend on factors such as the specific needs of their machinery, audit requirements, and industry demands.

Some of the most common reasons:

- Reducing downtime by enabling rapid reporting of faults via smartphones and real-time notification of technicians.
- Need to simplify machine maintenance scheduling and tracking.
- Improved communication in the plant between maintenance technicians, production and other departments.
- The desire to monitor maintenance key performance indicators (KPIs) such as MTBF (mean time between failures) and MTTR (mean time to repair).
- Implement predictive maintenance using IoT sensors.
- Enhance communication between production personnel and the maintenance department, as well as other support departments.
- Optimizing spare parts management and monitoring inventory levels.
- Collecting and monitoring machine diagnostic parameters for predictive maintenance.
- Meeting specific audit requirements, such as certifying machines for continuous production or managing disinfection processes.

1. FAULT REPORTING.

Quick identification of problems and their causes based on information from the reporter, supported by specific failure codes, enables rapid assignment to the right maintenance team and facilitates the development of both immediate and long-term corrective actions.

Typical issues and breakdowns commonly reported using maintenance management software include:

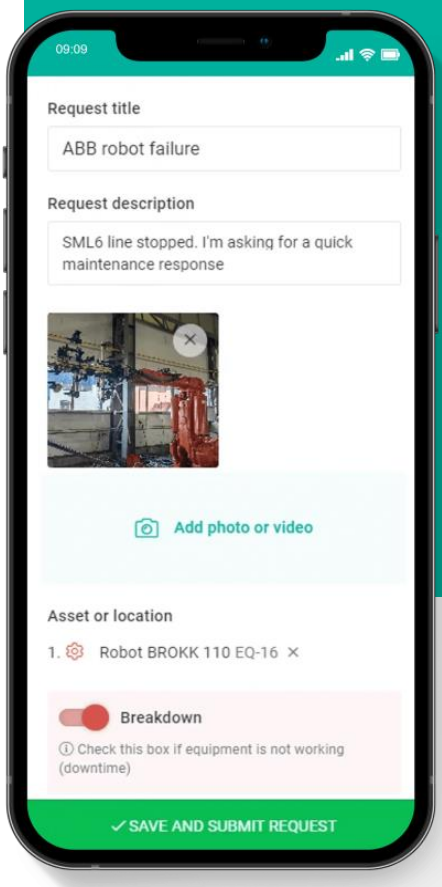
- Mechanical failures (e.g., worn gears)
- Hydraulic failures (e.g., leaks in pipes)
- Pneumatic failures (e.g., insufficient operating pressure)
- Software and control system errors
- Improper maintenance (e.g., inadequate lubrication of moving parts)
- User errors (e.g., human mistakes)

Quick and easy fault reporting is crucial for minimizing machine downtime. QRmaint provides five different reporting methods, including an option for individuals without a system account.

Using the standard reporting form, you can quickly and intuitively enter the following information:

- The affected asset (e.g., machine, production line)
- A comprehensive issue description, optionally including a failure code to facilitate automatic routing to the appropriate maintenance team
- Supporting documentation such as images or videos to aid in the rapid diagnosis of the fault
- The urgency level of the report
- Optionally, the designation of the specific team or individual responsible for resolving the issue

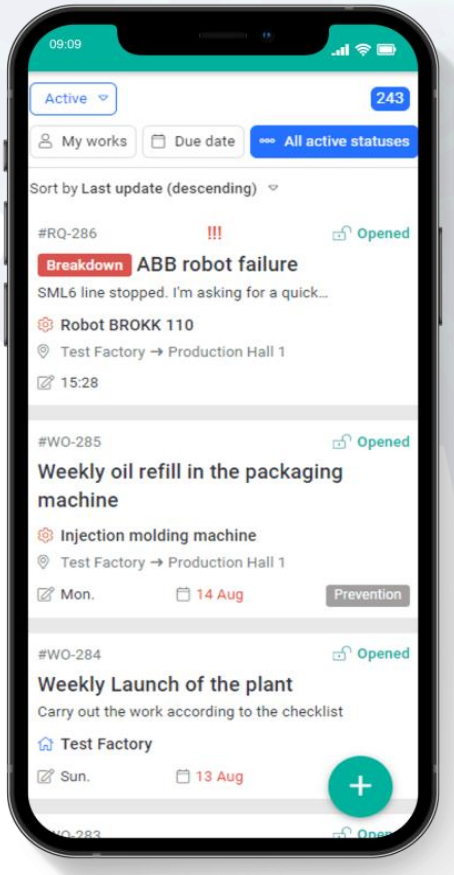
QRmaint allows for customization of the reporting form and specification of required information when submitting a fault or issue.



2. WORK ORDER.

Task management includes a number of functions and processes that facilitate effective planning, monitoring and documentation of work in the team.

In QRmaint, task management is divided into the following areas:



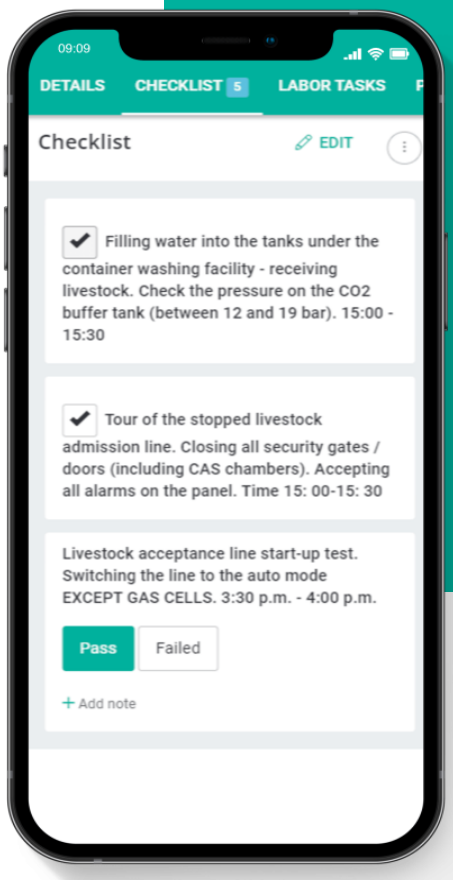
- **Task assignment:** Assigning tasks by the maintenance coordinator to specific technicians or teams increases accountability and optimizes task performance.
- **Priority management:** The coordinator can dynamically adjust task priorities to ensure that critical issues are addressed quickly.
- **Preventive maintenance scheduling:** CMMS supports the creation of maintenance schedules based on time intervals (e.g., annual maintenance, daily inspections) or equipment usage rates (e.g., after a certain number of operating hours or cycles).
- **Scope definitione:** each task can be specified with a comprehensive list of required actions or a checklist of procedures to ensure compliance with maintenance protocols.
- **Real-time status monitoring:** tracks the progress of tasks in real time from start to finish. The TV dashboard can also visualize the status of requests on a large screen, providing instant updates to the technicians' work area.

3. CHECKLIST.

Checklists in a CMMS are essential for upholding work standards, ensuring tasks are completed accurately, and reducing the likelihood of mistakes.

Use of checklists offers several advantages, including:

- **Process Standardization:** Ensures that all technicians follow established procedures, increasing the consistency and efficiency of operations.
- **Regulatory Compliance:** Supports adherence to safety regulations and legal requirements, including industry standards and audit criteria, which is essential for maintaining certifications.
- **Error Reduction:** Helps technicians follow a structured approach, minimizing the risk of missing important tasks.
- **Tracking and Reporting:** Allows for the collection of data to generate reports on maintenance performance and compliance with established standards.

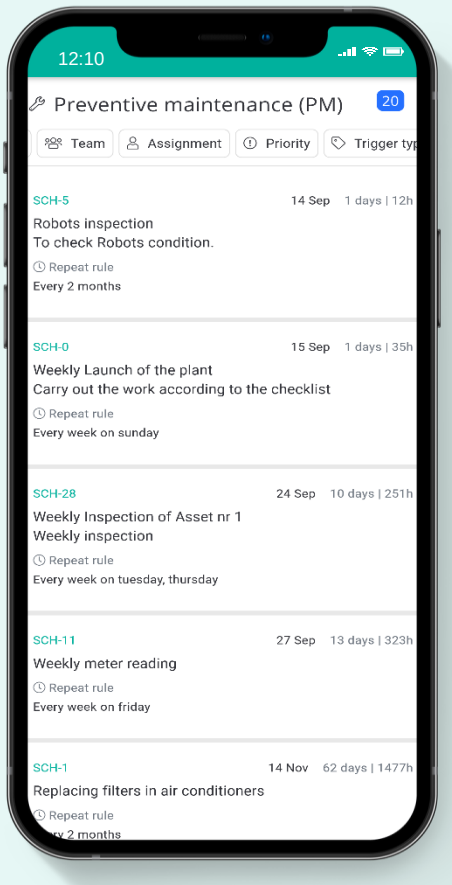


4. PREVENTIVE MAINTENANCE.

QRmaint allows efficient scheduling of preventive maintenance tasks, including annual inspections and major overhauls. This improves the timeliness of maintenance work, reduces the likelihood of equipment failure and ensures that machines remain in peak operating condition.

What advantages does the PM module provide?

- Visual timeline of planned maintenance activities
- Quick identification of upcoming maintenance and repair dates.
- Automatic notifications to the technical team or external service providers.
- Standardization of maintenance tasks using checklists.
- Reservation of necessary parts and materials.
- Clear calendar view with weekly, monthly and yearly perspective.

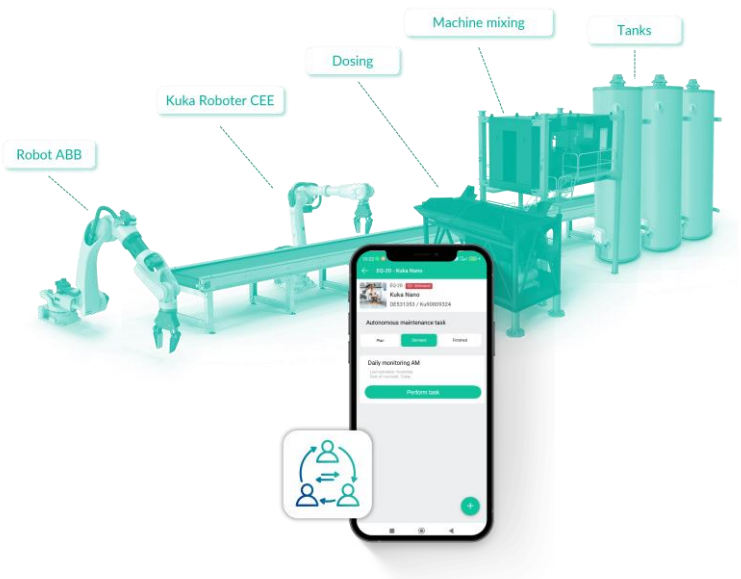


5. AUTONOMOUS MAINTENANCE.

Autonomous maintenance is a key component of Total Productive Maintenance (TPM), in which machine operators undertake basic maintenance tasks such as cleaning, lubrication and initial diagnostics. QRmaint provides a dedicated operator account designed to fully support the principles of autonomous maintenance. It allows operators to efficiently perform maintenance and inspection tasks before starting work. The system offers easy access to task lists, including routine maintenance tasks, enabling operators to keep machines in optimal condition at all times.

The main principles of Autonomous Maintenance (AM) include:

- **Operator Engagement:** Machine operators are responsible for basic maintenance tasks such as cleaning, lubrication and initial diagnostics. Such involvement increases their technical awareness and enables them to quickly identify and resolve potential problems.
- **Prevention over reaction:** AM's goal is to prevent failures through regular maintenance, rather than reacting to problems after they occur. Operators are the first to notice any unusual machine behavior.
- **Teamwork:** Autonomous maintenance encourages cooperation between machine operators and technical teams, leading to better communication and more efficient equipment management.



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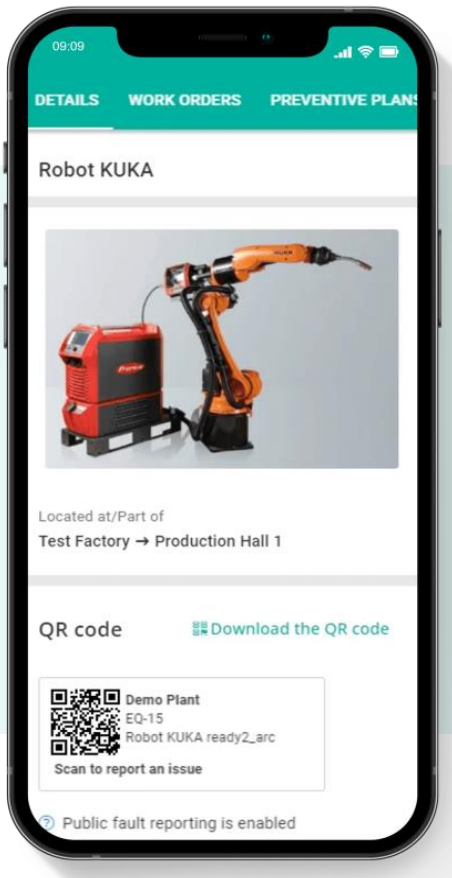
Reporting a problem or checking device details is as simple as scanning a **QR code** with a smartphone or tablet using a mobile app - it's quick and easy!

6. ASSET MANAGEMENT.

With the QRmaint mobile app, all asset information is always at your fingertips. By scanning the asset's QR code, you can instantly access details, service history, and upcoming maintenance schedules.

Scanning the **QR code** instantly allows you to:

- Access the equipment documentation and service history
- Keep track of maintenance schedules
- Quickly and easily report faults and issues
- Record and analyze operational parameters
- Log and perform maintenance tasks
- Identify spare parts for the equipment

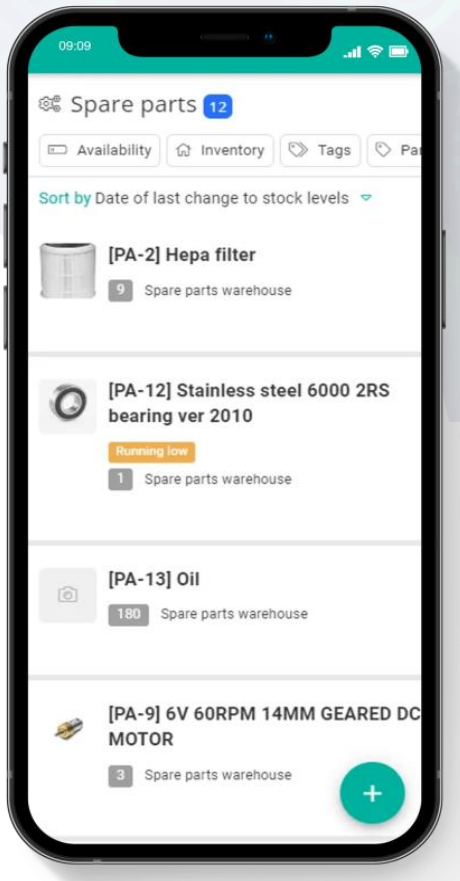


7. INVENTORY MANAGEMENT.

An integrated inventory management module allows for efficient spare parts management and real-time tracking of inventory levels, helping to avoid machine downtime due to parts shortages.

The spare parts module enables:

- Real-time tracking of stock levels and automatic alerts when parts run low.
- Easy access to details such storage locations and inventory status through **QR or barcode scanning**.
- Classification of spare parts based on their importance.
- Ability to reserve parts for scheduled maintenance.
- Analysis of spare parts usage to help maintain optimal stock levels.
- Reports on inventory movements and the costs of parts.
- Integration with external ERP systems and WMS systems for seamless data management.



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CMMS system have always been recognized as cutting-edge maintenance management solution. The technology has helped some companies increase the efficiency of maintenance work by **15** to **30 percent** (*source: McKinsey.com*)

8. SUPPLY PLANNER.

Ordering spare parts, materials or services needed to maintain machinery and infrastructure is the first step in the ordering process. Before, technicians used to make these requests on paper, which often led to various problems. The new Supply Demand Planner Module digitizes this process, significantly improving efficiency and reducing errors.

The request module offers following actions:

- **Requesting Parts:** Technicians can use the mobile app to not only track used spare parts but also to report the need for missing parts required for repairs.

  Verification and Approval Process: Once a request is submitted, a supervisor or responsible person reviews its validity, approves it, and then moves it forward for fulfillment.

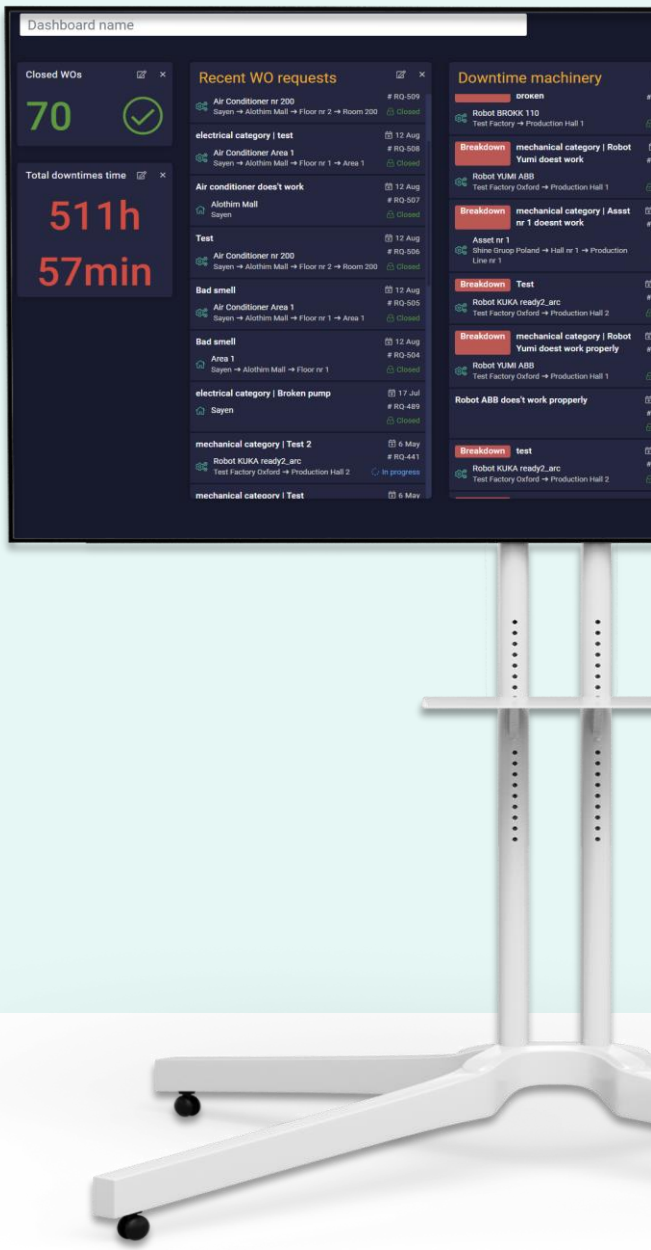
- **Request Status Tracking —** The request statuses offer full visibility into the progress of the request, from submission to the delivery of parts or materials.
- **Status Information —** It's essential for the technician or maintenance coordinator to be informed about the current status of the request and the expected delivery timeline.

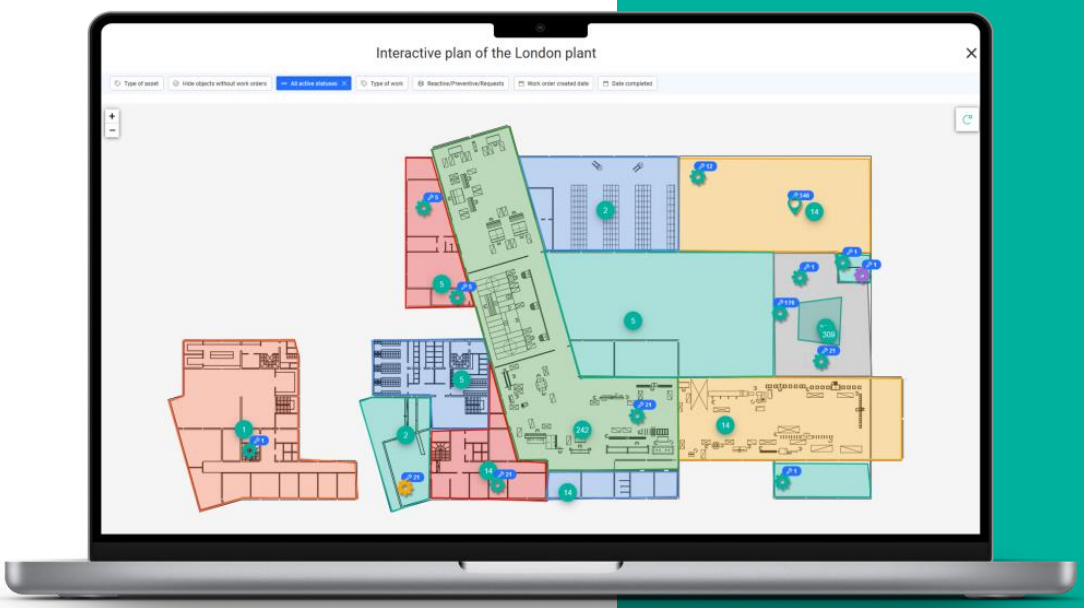
9. DASHBOARD TV.

Dashboard TV displays real-time equipment status data and is a powerful tool to increase the productivity of the engineering team. By providing an overview of active faults, new requests and current tasks, it enables technicians to quickly assess the current operational status. They can effectively prioritize their activities with a single glance at the screen.

Dashboard TV provides:

- **Real-Time Equipment Monitoring:** Displays current information on active faults and production-related reports. It can be customized to cover various production areas.
- **Task Status Tracking**: Provides continuous updates on the progress of individual tasks, allowing both production staff and maintenance teams to stay informed about the current status.
- **Technician Oversight:** Shows a list of technicians handling active tasks, enhancing employee engagement. This feature helps everyone understand who is working on what, improving communication and coordination within the team.
- **ANDON Alerts Monitoring:** Facilitates the tracking of logistical requests, operator calls for supervisors, and material supply requests for production..



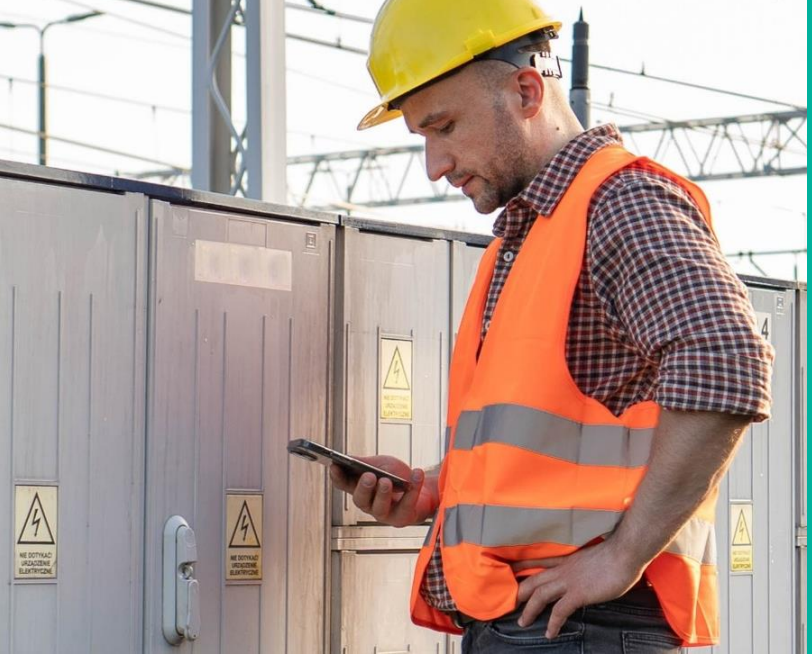


10. INTERACTIVE FLOOR PLANS.

QRmaint CMMS provides interactive floor plans that visually display key production areas and equipment locations in the plant. These plans highlight points with current faults, enabling technicians to quickly pinpoint problem areas. This feature speeds up the repair process and increases operational efficiency.

Key Features of Interactive floor plans:

- **Visualization of Production Areas and Equipment:** Allows for quick identification of issues and facilitates technicians in planning and executing maintenance tasks.
- **Simplified Fault Reporting:** Employees can directly report issues on the interactive plant map, streamlining the reporting process.
- **Comprehensive Control:** Provides full oversight of machine status and ongoing service activities.
- **Real-Time Updates:** The interactive map updates dynamically without the need for manual refreshing.
- **Detailed Work Analysis:** Offers advanced filtering options to analyze completed tasks within production areas.



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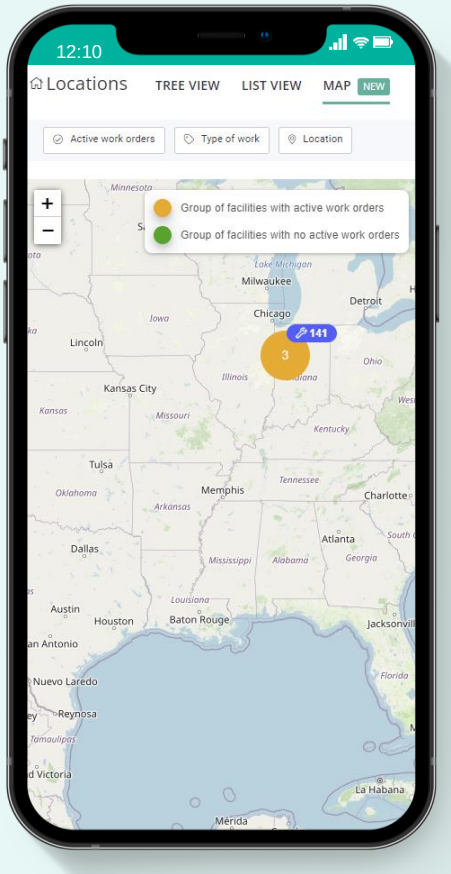
11. GEOLOCATION.

Our system even has a preview function that allows users to see the location of assets. The location-based services (LBS) feature provides an intuitive way to tasks assigned to specific locations and monitor the status of devices. geolocation offers two display modes:

- for locations with active tasks and
- for equipment and machines, which displays the most important hardware at each location together with their status, e.g. “in operation”, “malfunction”, “under repair” or other user-defined statuses.

The geolocation function provides a comprehensive view of all assets, making it easier to quickly identify faults and enable immediate response. From any point on the map, users can easily navigate to current tasks and access technical details of a location or equipment. This feature improves the overall efficiency of personnel and asset management.



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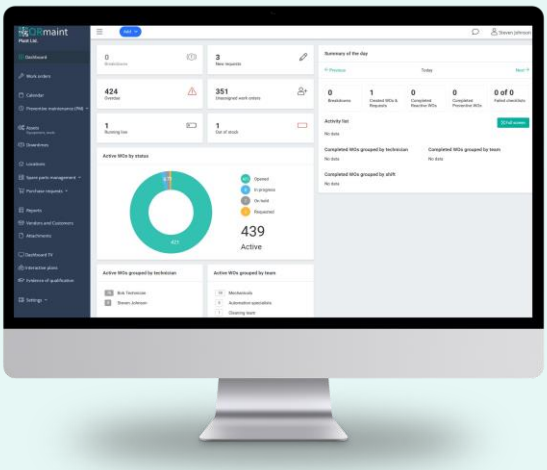
12. REPORTS.

Comprehensive analytical and visual reports provide in-depth insight into how machines are performing in terms of maintenance. These reports allow you to make informed decisions about improving processes and increasing overall operational efficiency.

- **Data Analysis:** Detailed analytical reports offer insights into the performance and condition of machinery and maintenance activities.
- **Identifying Improvement Areas:** Historical data helps reveal trends and highlight areas where improvements can be made.
- **Tracking Key Performance Indicators (KPIs):** Reports enable monitoring of essential metrics such as MTBF (Mean Time Between Failures), MTTR (Mean Time to Repair), machine uptime, and failure rates.
- **Custom Report Creation:** QRmaint allows users to create customized reports that fit their specific monitoring and analysis needs.



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13. ANDON.

The ANDON call panel improves communication within manufacturing plants significantly by enabling production line operators to quickly notify the support teams right from their workstations. This instant alert system speeds up troubleshooting and optimizes production processes.

- **Calling support teams:** With this function, the responsible teams, such as managers, engineers and quality control, can be called directly from the workplace. This ensures an immediate response to production requests or technical issues.
- **Supply chain calls:** Enables quick requests for materials, spare parts or logistical support directly from the production line. This feature facilitates the immediate replenishment of resources and reduces downtime.
- **Panel configuration:** Allows the ANDON control panel to be customized to the specific needs of the plant, including the definition of personalized alarm needs.

Maintenance

Automotive

Production

INDUSTRIES.

Selected industries - ask us which other industries we support!

Energy

Construction

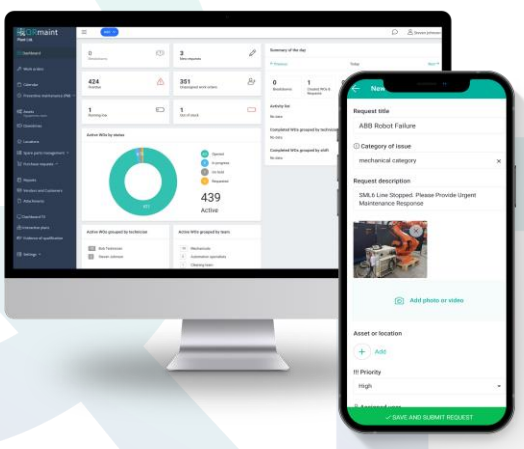
Logistics

ABOUT US.

QRmaint CMMS is a powerful solution for streamlining and optimizing maintenance work at facilities of all types and sizes.

What Makes Us Stand Out?

- **Easy and Quick Setup:** Start using the system with minimal hassle and speed.
- **Customizable to Your Needs:** Adapt the system to fit your facility's unique requirements.
- **Simple and Intuitive Design:** Navigate and use the system effortlessly.
- **Transparent Pricing:** Only pay for your current subscription, with no hidden charges.
- **Free Mobile App:** Access the system from anywhere using our straightforward and free mobile app.



Visit our website to find out more about how QRmaint can improve your operational efficiency.

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Thank You for Considering Us!

We appreciate your interest in QRmaint. For more information on how our solutions can transform your maintenance processes.
Please do not hesitate to get in touch with us.

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