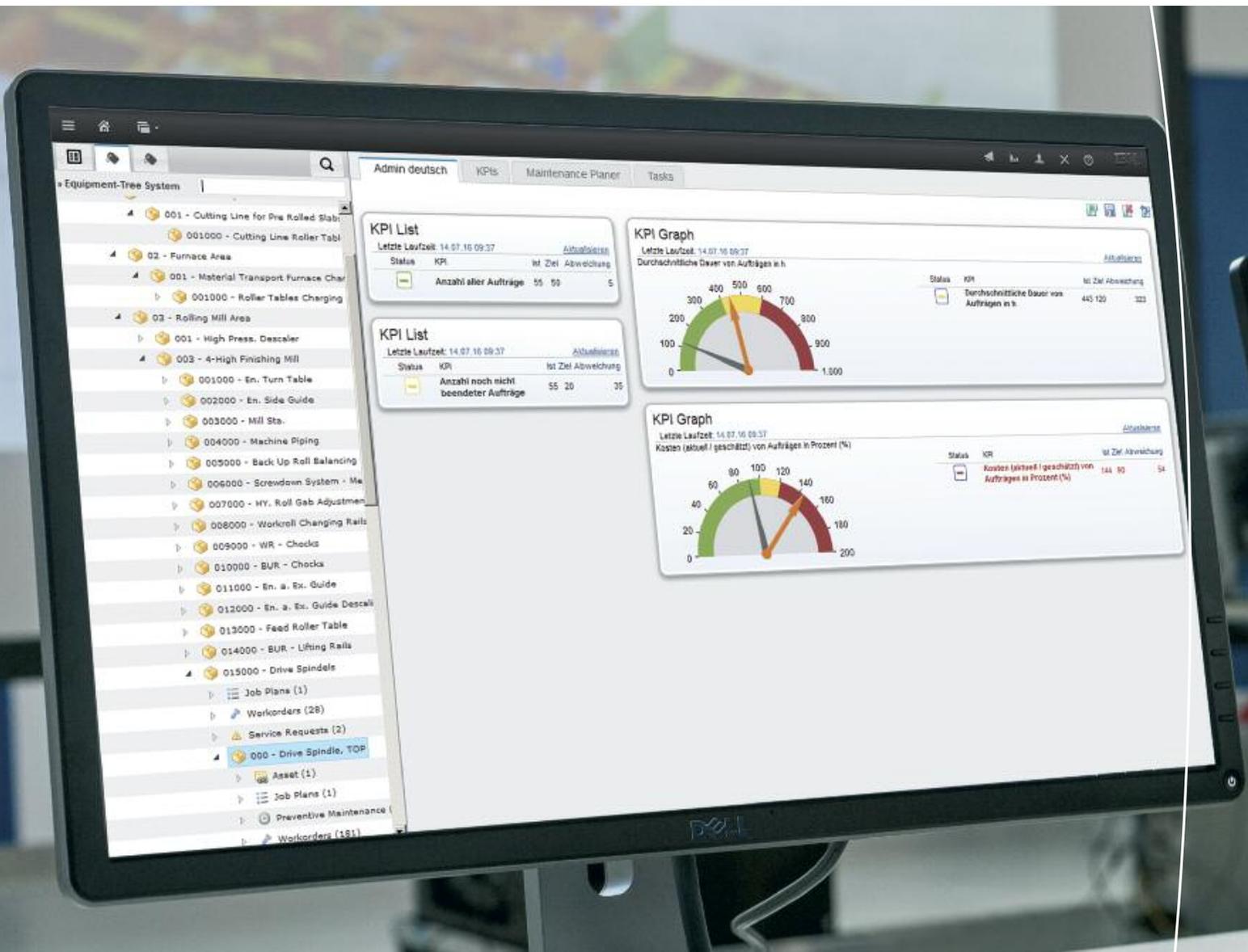


Integrated Maintenance Management System – IMMS[®]

Built to boost your plant availability



Integrated Maintenance Management System – IMMS®

Better production with higher plant efficiency – IMMS®

Wherever you are in the world, you aim to react quickly and flexibly to global market developments. Yet unplanned machine stoppages put pressure on even the most efficient producers.

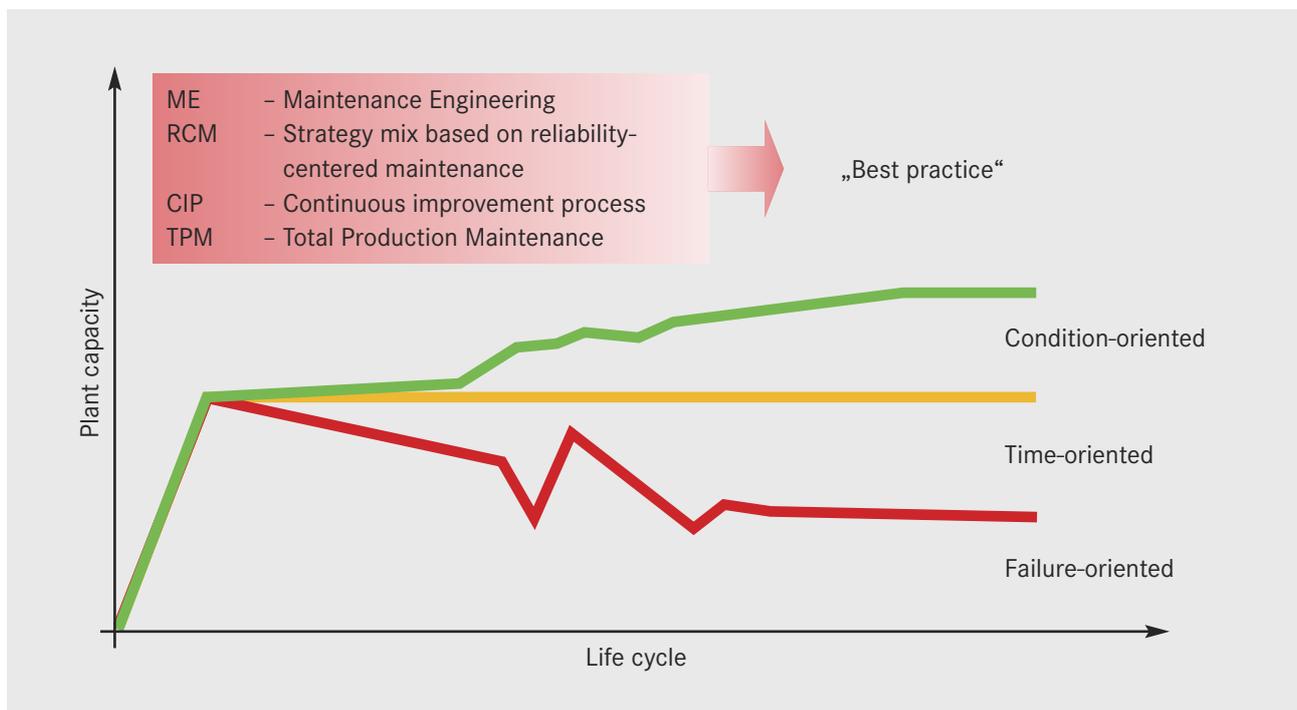
The goal: permanent, unrestricted operation of your plants without unnecessary downtimes.

That’s why effective maintenance is a must for all manufacturers. But maintenance needs to be plannable and efficient as well as fast.

Furthermore, due to intensive plant use, ever-tougher environment protection regulations, different levels of component wear, and fluctuating quality demands, it’s difficult to establish a perfect maintenance routine. So, what’s required here are transparency and efficiency.

These are the four basic maintenance types:

- Maintenance
- Inspection
- Repair
- Improvement



ME-RCM from SMS group

Building on the classic RCM model, ME-RCM from SMS group is a method that reflects real-life conditions specifically in the steel and rolling mill industries. It's implemented by experts with many years of experience. The focus here is on prioritized measures with the right level of documentation for more efficient results than the conventional method. Fundamental to success is the information exchange between SMS experts and your team.

You'll find that – in next to no time – ME-RCM identifies the points where you can leverage high-impact improvements.

Applied correctly, ME-RCM opens up these potentials for you:

- Better productivity and cost-effectiveness of maintenance work due to more availability and reliability
- Longer service life of expensive plant components

- Greater occupational safety and environment protection
- Comprehensive, clear maintenance database
- Anticipating faults
- Higher employee motivation
- Stronger teamwork
- Enhanced understanding of why malfunctions occur and how to prevent them

The biggest benefits of ME-RCM are that it helps you avoid unnecessary maintenance, plus it cuts your system's lifetime costs.

Maintenance experts take full advantage of ME-RCM as a structured, precise, all-encompassing analysis method. It reveals the best possible ways to improve cost-effectiveness, quality, yield, safety, environment protection, and customer service.

Basic elements of conventional RCM (reliability-centered maintenance)

- Defining interactions and interfaces of the system elements (partitioning)
- Determining the risk priority number (RPN) by applying a criticality matrix that evaluates failure types, their consequences, and how to detect them.
- Applying failure risk management (decision logic tree)
- Planning continuous improvement (age exploration)

Requirements for effective maintenance engineering (ME-RCM):

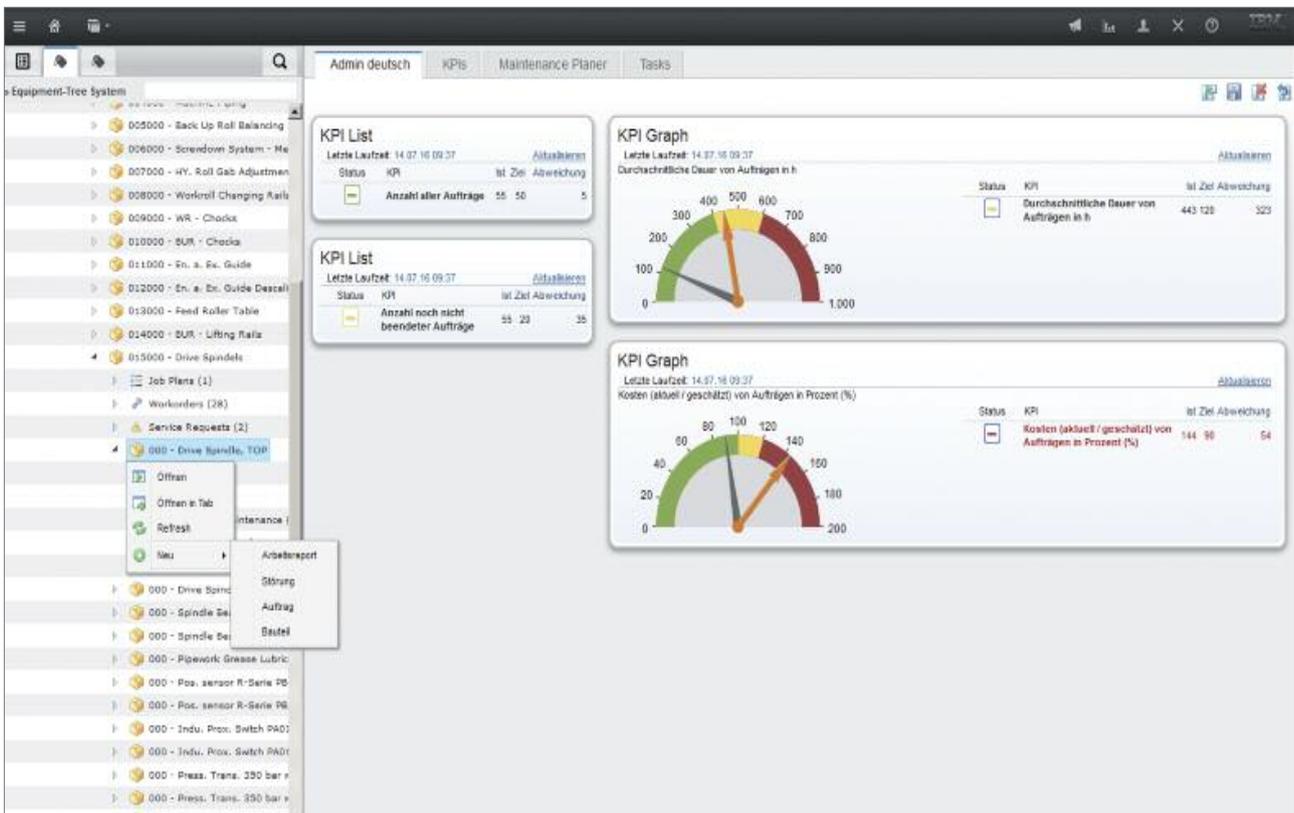
- Experts with extensive operational experience
- Specialist knowledge of the part to be analyzed
- Teamwork between SMS experts and your staff as well as consequent implementation of the strategy in the future.

Professional maintenance

Want to achieve professional maintenance coupled with a continuous improvement process (CIP)? Getting started is easy with computer-aided maintenance (CMMS). Why? Because this innovative solution takes the pressure off your purchasing, stock-keeping, and customer service teams.

What exactly does computer-aided maintenance comprise? The main element is software integration for maintenance planning with intelligent tools. This links interactions between plant parts ... and drastically simplifies sequences so that they can even be semi-automated.

However, experience shows that it takes a vast amount of time and effort to implement computer-aided maintenance. That's because standard software solutions don't contain plant data or take account of plant processes. As a result, your staff spend long hours laboriously creating effective structures and entering the required data. To make optimal use of the system, it's essential that you can draw on the necessary know-how.



The solution: Your custom-designed IMMS®

To ensure you can focus fully on your core business, we offer you your very own, customized maintenance management system. The SMS Integrated Maintenance Management System (IMMS®) rolls up computer-aided maintenance plus valuable data into a plant and customer-specific all-round package.

Do you already use maintenance software? Then the SMS group service team can supply and install an IMMS® data package for you.

You also benefit from SMS IMMS® for new plants, because your version comes pre-set to existing operating and maintenance instructions.



All your benefits from IMMS® at a glance

Top efficiency and performance from the maintenance routine due to:

Complete supply and integration of the basic data necessary for maintenance

The software package maps your complete plant. This is where the technical parameters are implemented. The result is a reliable basis for effective maintenance organization. Every component to be maintained is clearly marked and coded to ensure goal-oriented, effective maintenance (equipment tree).

Stable, reliable production conditions achieved with preventive maintenance and scheduled downtimes

Mutual harmonization of the software functions means they work together perfectly. What you get is a maintenance engineering system geared to practice and based

on the principles of reliability-centered maintenance (RCM). Also included is an ideal mix of repair strategies supported by the rules of failure mode effects and criticality analysis (FMECA). This is how we design customized, best-possible maintenance (proven processes) in line with our principles of reliability-centered maintenance (ME-RCM).

Professional spare parts management – from purchasing to utilization

Careful coding of spare parts ensures you keep perfect track of stock turnover frequency, plus you rapidly identify identically designed parts. That in turn facilitates systematic analysis of storage history. You save money by optimizing your stock-keeping and ordering only the parts you need.



Project implementation

Ready for the future

Just how long it takes to create and implement your IMMS® can differ – depending on the scope of your plant and the level of your participation. If necessary, we transfer the software licenses to you at the end of the project.

Continuously improving flexibility, efficiency, effectiveness, and transparency in professional spare parts and maintenance management generates long-term potentials for:

- Much greater plant availability
- Lower maintenance costs and less capital tied up in stocks
- Better products and higher customer satisfaction
- Lower pressure in the long term from increasing market demands
- Faster run-up curve of maintenance organization for new plants.

The SMS group service team regularly informs you about new options for utilization and analysis. Whether you are interested in cloud computing or Industry 4.0, our systems and employees are open to all your wants and needs.

Project phases

- Project start-up (kick-off meeting) on the construction site, detailed discussion of datasheets, cost center numbering and structure, general rules and requirements, etc.
- Preparation of the IMMS® data package
- Upload and integration of data to the selected software
- Training courses



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