Babtec.IN
Increasing Productivity and Running Times by Performing Preventive Maintenance

As a result of technological progress, machines and tools have developed enormously in recent years. As a consequence, there is also a trend towards ever more complex production systems. Companies are faced with the challenges of guaranteeing high levels of availability and continuing to increase the productivity of their operating materials. Against this background, preventive maintenance has become an important competitive factor.

Machine Management

Babtec.IN is a high-performance instrument which will help you manage, maintain and repair your tools and machines. A **central machine list** provides real time information about the current status of your machinery and any reports of disruptions that have happened. Each machine is clearly identified by its unique machine number and classified by its machine type. A maintenance plan is used to assign every one of the machine-specific maintenance tasks. Effective data management is aided by the use of **catalogs**, for example, for machine types, sites or cost centers.

An essential factor in being able to monitor machines successfully is compliance with predefined maintenance cycles. Here Babtec.IN uses **informative traffic light colors** to help you monitor and check the relevant maintenance tasks. These let you see, at a glance, which maintenance tasks have to be performed, on which machines, or whether planned deadlines have been missed.

The **machine documentation** options enable you to record and store more detailed information about a machine in the form of notes and images, or to store external files in the BabtecQ database.

Machines overview including maintenance status and current disruptions

Maintenance

Use Babtec.IN to plan all of your **maintenance tasks** effectively and following a practical approach. In this process, the software excels through its simple and intuitive operability. Maintenance plans and tasks are clearly structured and displayed in easy-to-understand tree views. This increases the **usability** and acceptance.

Every maintenance task involves defining a specific **time interval** in which this task must be performed and completed. In addition, maintenance can be performed depending on the **operating hours** or the **quantity produced** by a machine. For this reason, Babtec.IN has a number of different options for defining time intervals. The most commonly used method involves defining a regular deadline (e. g. changing the oil every month). In other words, maintenance jobs are automatically generated for the machine, at regular intervals, for example, to arrange an oil change

However, simply just performing maintenance tasks at the right time is not enough to minimize machine downtimes. A fundamental factor for success is an **efficient spare part management process**. A request for spare parts can be included in the maintenance planning stage. This ensures that the exactly right numbers of spare parts are available at the time the maintenance task is performed — removing the need to hold large quantities of stock. You can also use the Babtec visualization package to add more information to your maintenance plans. Images, graphics and text notes can be added to maintenance tasks to make **operating instructions** more detailed and precise. Additional documents, such as information provided by the machine manufacturer, can be saved directly and accessed during maintenance.

All the changes made to maintenance plans are documented in a **unique versioning system**. For example, if new requirements have been identified for an existing maintenance plan, they can be prepared in a draft version, in parallel to the

currently released version. When a new version of a maintenance plan is released, you have the option of specifying and saving the reasons for the changes. As a result, the maintenance plan history shows every change, and release, in a clear, fully documented, and completely traceable manner.
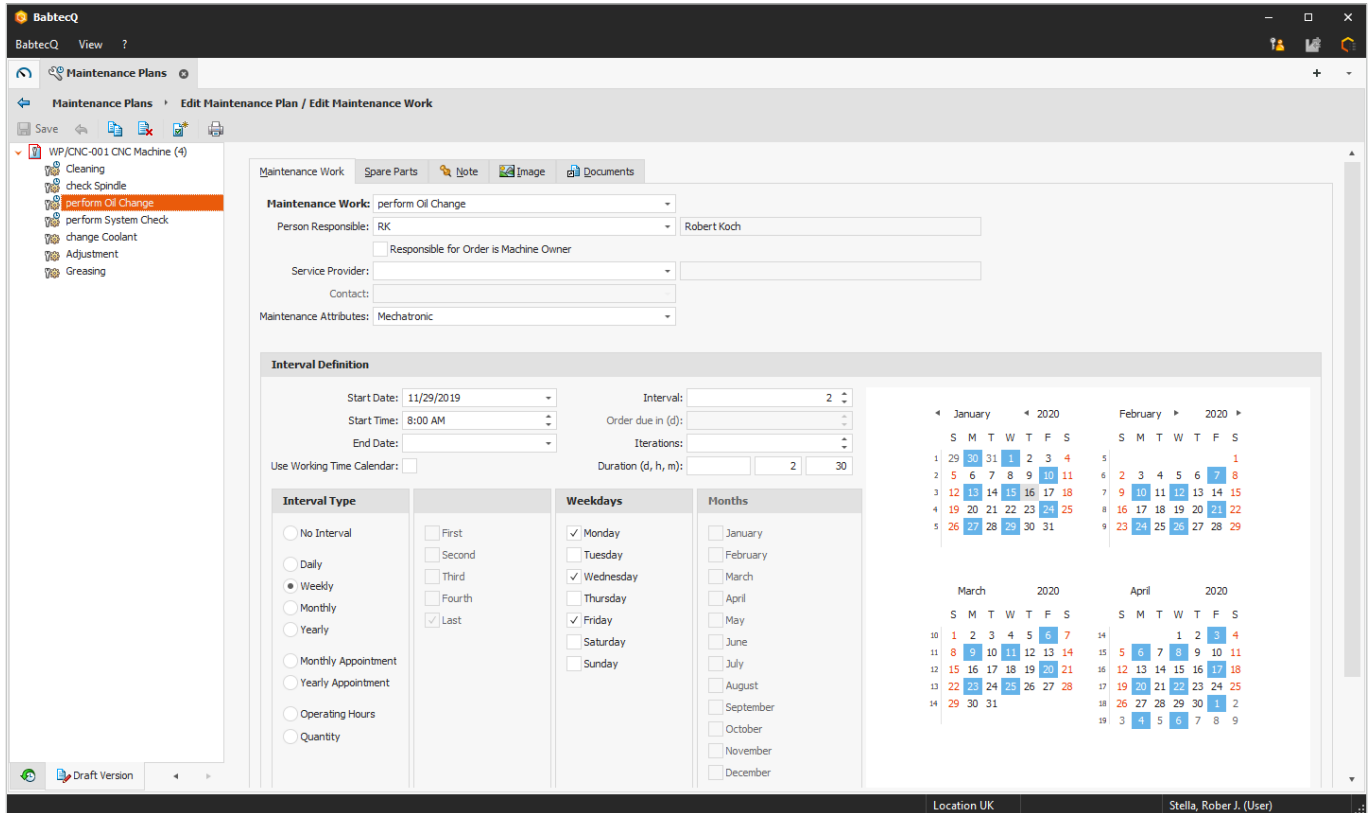
Maintenance work including interval definition

Repair

A critical factor for maintenance is an **effective fault management system** which notifies everyone involved about faults and system breakdowns. Babtec.IN has a range of input options here, for example, using the Inspection module or the web-based Babtec.Q.Manager tool. This ensures every member of staff in your company can play an active role in the maintenance process.

Any faults or disruptions that occur are displayed in a central overview or in the context of a particular machine, and can then undergo further processing. You can schedule repair jobs directly so you can react to downtimes quickly. Babtec.Q.Agent automatically informs the relevant members of staff or the machine's owner every day, for example, at shift changes, about any faults or disruptions that have happened.

Effective Order Management

Babtec.IN's **integrated order management functions** are used to carry out maintenance and repair jobs and record feedback from them. You can clearly define in-house areas of responsibility or engage external service providers to perform your maintenance jobs.

The unique status assigned to every job provides real time information about its progress, and has a direct effect on the maintenance or repair status of the machine. You can also assign clear priorities and attributes so you can classify your maintenance jobs. Once the job is completed, the maintenance and repair times and costs are documented, and the number of spare parts actually used is recorded. The option of recording target and actual data separately means you can work out the key values for personnel time and effort expended, and evaluate whether the job was completed on schedule.

As an alternative to processing maintenance jobs electronically, you can also create **paper work lists**. You can also use Babtec's dynamic report designer to include company-specific requirements in your reports.

Use the Babtec.Q.Agent tool to automatically send e-mails to the relevant members of staff to inform them about new maintenance jobs and deadlines. In the same way, you can send out reports (in Microsoft Word or Excel format) about maintenance jobs that are overdue, or still to be completed, for example, as weekly job or reminder lists when deadlines are missed. Yet another option is provided by the company-wide Babtec.Q.Manager **information portal** with which you can process and report back on maintenance jobs even without direct access to your QM software, simply by using an Internet browser in the corporate intranet.
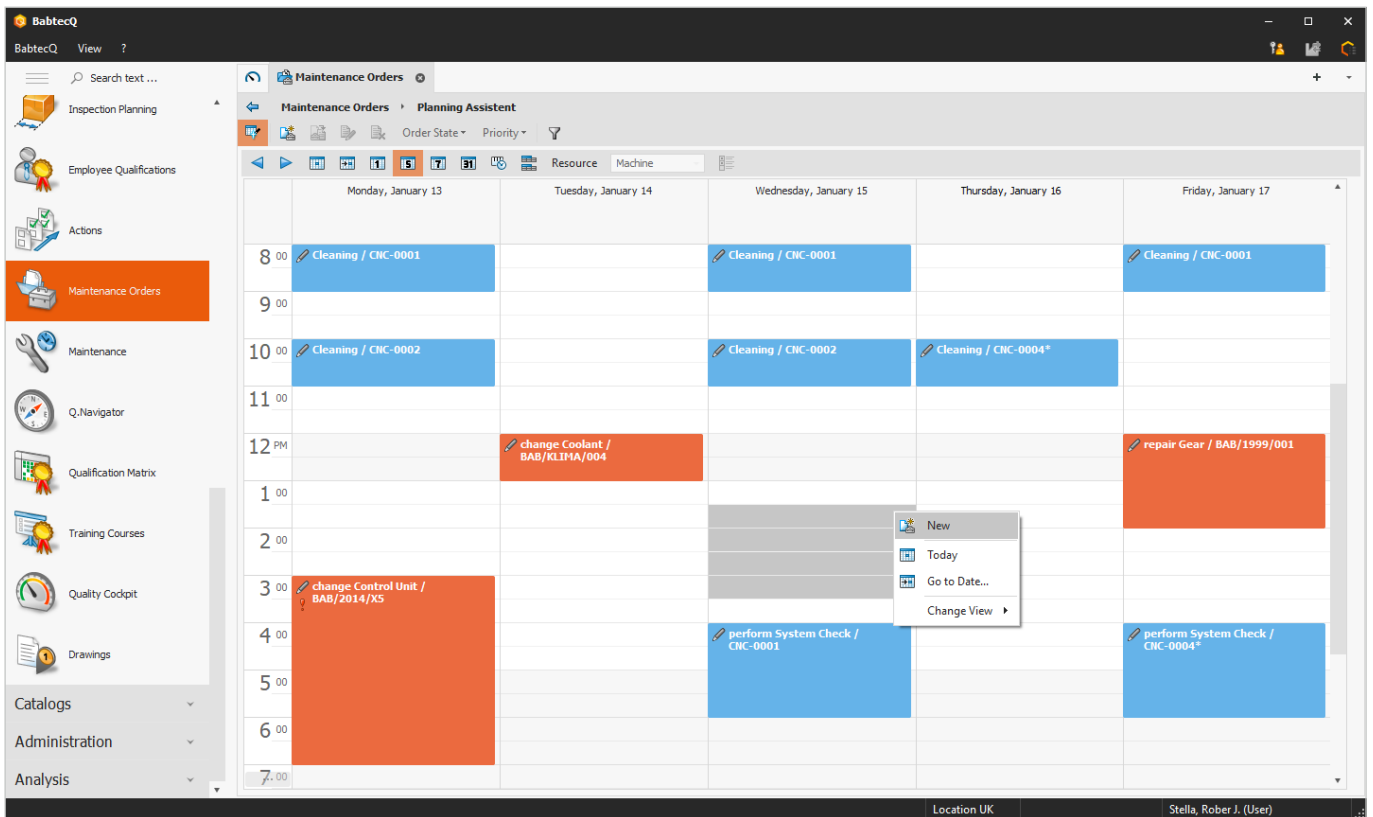
Convenient planning of maintenance and repair jobs using drag-and-drop

Graphical Planning Wizard

By optimizing the scheduling of maintenance tasks and repairs so they are performed in times of low production, a company can effectively **reduce downtimes** and **increase its productivity**.

The **easy to use planning wizard** can help coordinate your regular maintenance, inspection and repair activities. Use its practical drag-and-drop functions to move maintenance tasks to times when production is lower, or to define new responsibilities.

For example, in the wizard, you can specify whether scheduling is to be performed for the next week or the entire month. Future tasks can be grouped by machine, location or responsible staff member, so you can schedule them effectively, no matter whether they affect a single department or the entire production site.

Life Cycle and History

Each **individual machine history** is an essential element in creating a machine's life history and fort he further development of its unique maintenance strategy. In addition to relevant machine data, every maintenance order, repair, fault and change of status (including all the costs incurred) is automatically documented to create a seamless and comprehensive machine history.

You can also store the strategies used to resolve system breakdowns and, step-by-step, create your own **knowledge database** to provide your company with a long-term record

of the technical expertise gained from working with these machines. Numerous **management evaluation** functions have been developed to help you run targeted analyses on your maintenance data. These enable you to assess the effectiveness of your maintenance strategies by using key figures (e. g. maintenance costs, frequency of breakdowns, fault analyses). Benefit from our innovative and flexible pivot technology to create your own bespoke graphic evaluations using the simple drag-and-drop method.
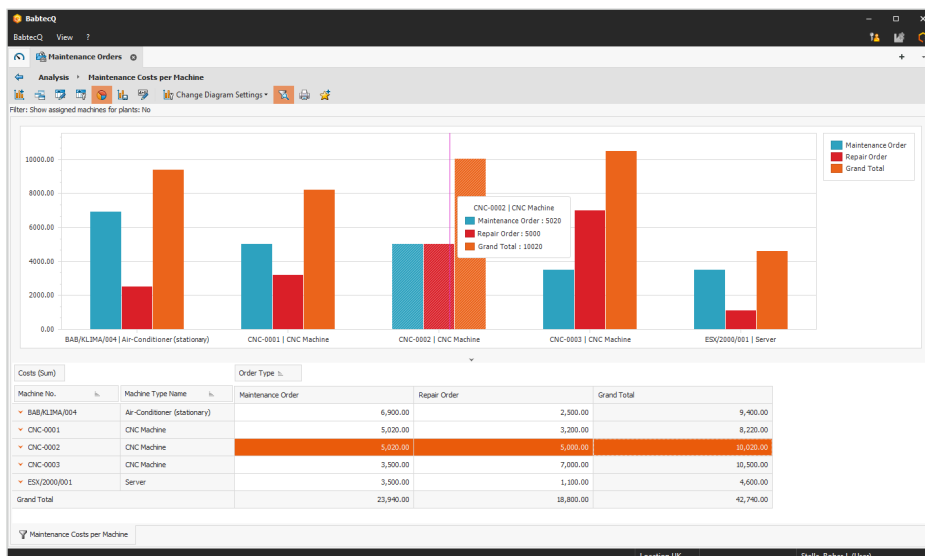
Analysis of annual maintenance and repair costs

Babtec.IN
At a Glance

- Practice-oriented support for preventive maintenance as defined in DIN 31051 (maintenance, inspection, repair, improvement)

- Recording and management of machine and tool master data

- All machine documentation held and managed centrally

- Machine monitoring in real time using a system of traffic light colors

- Use of company-specific maintenance schedules and maintenance tasks

- Definition of freely definable maintenance and inspection intervals
  - Time-dependent
  - Depending on operation hours / produced quantity

- Integrated order management for all maintenance and repair tasks
  - Automatic generation of maintenance jobs before their due date
  - Manual creation of unscheduled maintenance and repair jobs

- Graphical planning wizard with drag-and-drop functions

- Scheduling and documentation of spare parts

- Recording of maintenance and repair costs or time and effort

- Breakdown management with the recording of failures and causes

- Automatic, seamless documentation of every event throughout the entire life cycle of a machine

- Integration of images (e. g. BMP, JPG) for detailed operating instructions (Babtec.VP)

- Powerful analyses and meaningful key performance indicators, e. g.
  - Machine overview (e. g. number of each machine type present)
  - Costs and time and effort analyses (e. g. per machine type, for maintenance or repair tasks)
  - Fault analyses

- Extensive report library e. g. for machines, maintenance and repair jobs

- Creation of company-specific forms, reports and certificates (Babtec.RPT)

- Automatic distribution of information, and communications and reporting using Babtec.Q.Agent (e. g. information about due maintenance tasks or faults)

- Maintenance on the web (Babtec.INiW)
  - Creation of fault reports
  - Processing and reporting back on maintenance jobs

- Integration in BabtecQ (Babtec.WEP / WAP and Babtec.FP)

Let Us Advise You

Individual Consulting

We would be happy to introduce you to the module in a personal appointment in which we can show you how our solution can optimize your processes. In doing so, we record the current status and explain the further procedure.

Make an appointment

Our Solutions

Are you interested in further modules that support your processes even better? Just have a look around on our website.

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