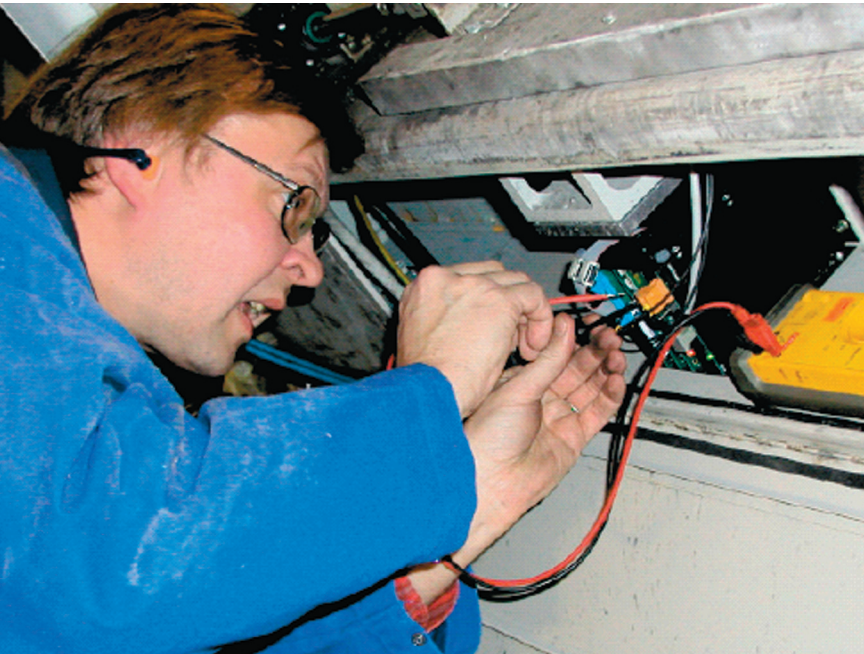


## Industrial<sup>IT</sup> Web Imaging Solution Preventive maintenance



The Web Imaging system preventive maintenance is based on ABB's extensive knowledge and experience of manufacturing and maintaining Web Imaging systems for more than 30 years and it takes environmental and operational conditions into account. Qualified and certified system specialists perform on-site preventive maintenance work.

### Preventive maintenance provides

Preventive maintenance service includes annual standstill maintenance and system verification labour and service parts to perform on-site maintenance work according to the maintenance schedule:

- Visual inspection of the system and its environmental conditions
- Inspection of the connections
- Inspection of the ribbon and fiber optic cables
- Functional inspection of the fan and cooling system
- Inspection of the fault logger
- Inspection and storage of the parameters
- Functional testing of the system under normal conditions
- Basic measurements with supply voltage
- Inspection of the spare part inventory
- Reforming of spare module capacitors
- Cleaning of the system

ABB recommends regular preventive maintenance for the Web Imaging systems throughout their lifetime to ensure accurate performance, maximum availability and minimum unplanned repair costs. Preventive maintenance aims for increased reliability and extended lifetime by timely performed appropriate service.

Preventive maintenance consists of annual system inspections, system tuning and component replacements according to the product specific maintenance schedule.

### Benefits of preventive maintenance

- Accurate system performance
- Increased system reliability
- Optimized maintenance costs and minimized repair costs
- Easy-to-plan maintenance budget
- Extended system lifetime
- Genuine, factory-certified ABB parts

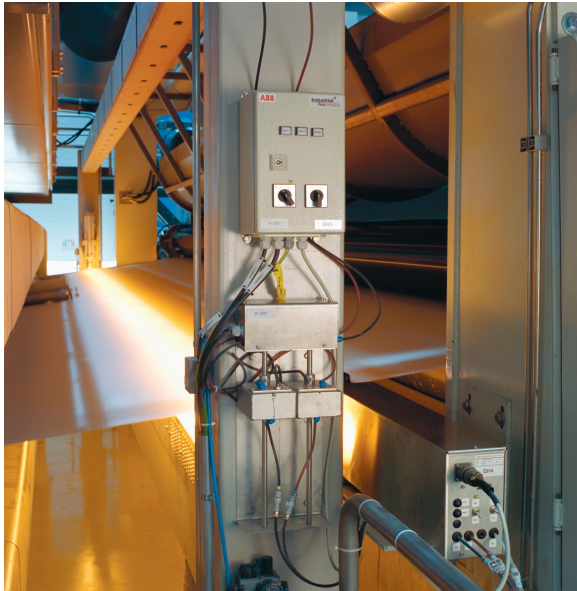
A detailed service report including recommendations for future actions is provided once the maintenance work has been completed and inspection data fully analyzed.

Ready-made preventive maintenance kits are available at [www.abb.com/partsonline](http://www.abb.com/partsonline) for component replacements marked "R" on the maintenance schedule.

## System information for preventive maintenance

Successfulness of the preventive maintenance depends on information recorded on the service reports provided by the system owner. Usually the benefit of preventive maintenance increases when the information provided is as thorough as possible. If the available information is not sufficient, it is recommended to perform a site survey for the system before preventive maintenance.

ABB must have free access to the Web Imaging system for maintenance during the shutdown as agreed. Preventive maintenance must be planned well in advance in order to reserve resources and service parts needed.



## Maintenance schedule

There is still a commonly held belief that industrial products equipped with electronic components do not require specific maintenance. Based on ABB's experience, however, failure probability of such equipment increases after years of operation. For Web Imaging products this period is typically 3 to 10 years. One of the main reasons for failures is aging of components, but it is also highly affected by operational conditions.

A maintenance schedule provides a systematic and functional means of maintaining the Web Imaging systems. It is based on extensive experience and knowledge of manufacturing and maintaining Web Imaging systems. Specifications of component suppliers are observed carefully.

The environmental and operational conditions of the system are also considered. Demanding environment, such as high ambient temperature, humidity, dirtiness or vibrations, can measurably shorten the component lifetime and also the maintenance and component replacement intervals.

ABB recommends an annual inspection in addition to regular maintenance to be carried out to ensure optimum Web Imaging system performance through its entire lifetime.



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### Product Lifecycle Services

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