Maintenance Plan / WADS

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1. Preventive maintenance / servicing

1.1. Scope of maintenance work

- visual inspection of the state of preservation with little or no assembly required
- cleaning of easily accessible components
- checking the wear indicators on the individual products
- Preventive replacement of a component on the due date or when wear above the normal level is detected

The wear and tear of the components is highly dependent on the medium used. The maintenance schedules are therefore determined and defined on the basis of reference media (standard).
The reference media are

- for grease applications: Bechem Berulub FR16
- for oil applications: Berusil SM 100

The work listed in the maintenance schedules represents the usual maintenance of the components to keep them in nominal operating condition. The work is carried out by operators or qualified personnel, depending on the activity.

1.2. Time specifications

The maintenance schedule below contains information on the frequency of the preventive maintenance work to be carried out.
The times refer to operating hours or fixed dates.

Due date in operating hours	Due date in dates
	Daily before the start of work
every 40 hours	weekly
every 160 hours	monthly
every 500 hours	every three months
every 2000 hours	annually

Note:

The due dates apply to standard operation of 8 hours a day, 5 days a week.
In the event of deviations from this - e.g. multi-shift operation - the due dates must be brought forward accordingly.
If fixed deadlines are specified, these must be adhered to even if the workload is low.

2. Maintenance plan

The preventive maintenance plans presented in the form of tables define the work to be carried out on different dates. The work is summarized in technological component assemblies.

Note:

The maintenance plans add up. Example: the maintenance plan to be carried out after 1 year (2000 hours) must include the maintenance plans for the 2000 hours and the 500 hours of maintenance.

2.1. Description of preventive maintenance

The description is present if additional information is required to carry out the work. They are cross-referenced in the maintenance plans. The descriptions summarize the work to be carried out on a component or component assembly.

Note:

Reading the plans and thorough examination.

2.2. Structure of the preventive maintenance and thorough inspection plans

Assembly	Component	Measure	Maturity	who
Unit combining components of the same function	Components requiring maintenance	Type of operation to be performed	Interval or event	Operator or Specialist

- **Check**:
  - Visual inspection for leaks or abnormal wear and tear (wear and tear).
- **Testing**:
  - Visual inspection with possible opening of a housing, switch cabinet or similar, using a standard set of tools (general technician’s tools).
- **Cleaning**
- **Replacement**:
  - Preventive replacement of an element when a condition occurs or a deadline is reached.

3. Maintenance plan for WADS

measure: weekly

Assembly	Component	Measure	Due date	who
Media diverter	Media diverter total	Check for leaks	weekly	Operator
Medium storage container	total medium storage container	check for leaks	weekly	Operator
Booster pump	total WPB	Check (deposits in the sight glass? ¬ leaking)	weekly	Operator
Booster pump	pump housing	Check for leaks	weekly	Specialist
Venting tank	Venting tank	Visual check of fill level	weekly	Specialist

measure: monthly

Assembly	Component	Measure	Due date	who
Material pressure regulator	total material pressure regulator	Check for leaks	monthly	Operator
Plug-in Cube	total plug-in cube	Check for leaks	monthly	Operator

measure: 3-monthly

Assembly	Component	Measure	Due date	who
WADS total	pneumatic unit	Check for leaks and damage	every three months	Operator
WADS total	Medium connections	Check for leaks	every three months	Operator
WADS total	electrical connections	Check electrical connections for damage	every three months	Operator
WADS total	WADS total	Cleaning	every three months	Specialist

Media diverter	Media diverter complete	Check hydraulic connections for leaks and damage	every three months	Operator
Medium storage container	total medium storage container	Check fill levels for plausibility	every three months	Specialist
Medium storage container	bursting disk	Check for leaks	every three months	Specialist
Medium storage container	neutral zone	Check leakage hole for air and/or medium leakage	every three months	Specialist
Booster pump	booster pump as a whole	Check the hydraulic connections for leaks and damage	every three months	Operator
Booster pump	safety glass	Check safety glass for presence & fit and replace if defective	every three months and when changing container	Specialist
Venting container	Venting container	Check for leaks and replace if defective	every three months and when changing container	Operator
Material pressure regulator	total material pressure regulator	Check for leaks and damage	every three months	Operator
Plug-in Cube	total plug-in cube	Check for leaks and damage	every three months	Operator

measure: annually

Assembly	Component	Measure	Due date	who
Media diverter	HAWE valve	Check the position of the valve in the mounting hole	annually	Specialist

Media diverter	HAWE valve	Cleaning	annually	Specialist
Accumulator	total accumulator	Open & empty media reservoir and clean inside	annually	Specialist
Medium accumulator	Cylinder piston	Replace sealing set for piston	annually	Specialist
Booster pump	WBP total	Replace O-rings/NBR between sleeve and pump housing	annually	Specialist
Booster pump	air motor WBP	Check pump thoroughly and replace air motor seals if necessary	annually	Specialist
Booster pump	suction system WBP	Check pump thoroughly and replace suction system seals if necessary	annually	Specialist
Material pressure regulator	total material pressure regulator	Replace wear parts kit annually	annually	Specialist
Plug-in Cube	plug-in cube component	Clean and replace if necessary	annually	Specialist

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