

### Service

# Equipment check Expert know-how you can rely on



High levels of equipment availability and cost efficiency are key to remaining competitive in the metals industry. Regular inspections and maintenance form the basis for safeguarding the efficiency of your equipment. To identify critical points and any potential defects early on, SMS group has developed machine specific equipment checks.

## How you benefit

With SMS group's Equipment Check ...

- you get the condition of your equipment recorded and evaluated by our experts.
- you build up a comprehensive machine history based on regularly performed checks.
- you receive solid facts to help you decide on future maintenance and/or modernization work.

# Knowing what to do and when to act Make the right decision – with SMS group

#### Machine specific checklists

Sound knowledge and years of experience are important for a thorough analysis of equipment's condition. SMS group combines the expertise of experienced service staff and maintenance experts to tailor an inspection schedule based on your needs. Customized checklists ensure the precise assessment of the condition of your equipment at regular intervals – without the need for prolonged downtimes.

#### Using knowledge to stay ahead

SMS group Service specialists evaluate the results of each inspection. Based on the customer's needs, they quickly identify any required maintenance and repair tasks as well as spare parts needed.

The target is to best utilize the potential for improvement. SMS group will recommend maintenance measures that secure the quality and availability of the equipment in the long term. Regular checks of the condition of your equipment increase the reliability of your planning significantly. Condition based maintenance minimizes the risk of unscheduled downtimes and thus improves plant dependability.



#### Good to know

**Identifying demand.** Regular equipment checks help to assess developments in the condition of your equipment and such help to better plan spare parts requirements and maintenance tasks.

**Utilizing experience.** Thanks to machine specific checklists and recommended time intervals for implementing the equipment checks, customers benefit from SMS group specialists' various years of experience.

**Sharing knowledge.** SMS group actively incorporates your staff into the inspection and maintenance process. They have the opportunity to learn and gain knowledge by working alongside our technicians and can better service and maintain the plant at a later stage.



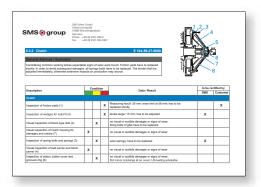
#### Scope of services

- Establishing the condition of the machine
- Evaluating the state of maintenance
- Analyzing weak points
- Highlighting potential for improvement
- Detailed service report for the machine's history
- Recommendations for spare parts
- Explanation of maintenance and repair work
- Suggestions for modernization measures

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|--|--------------|---------------|---|---|
| 4 Results                                  |              |               |   |   |
| 4.1 Summary                                |              |               |   |   |
|  | C            | Condition     |   | Comment   |
| General Inspections                        |              |               |   |   |
| Cleaniness                                 |              | х             |   | moderate fith; room for improvement                       |
| Noise Emission                             |              | х             |   | unusual noise emmission of brake                          |
| Unfastened Components                      | х            |               |   | no abnormalities  |
| Safety Devices                             |              |               | х | manipulated safety devices; to be repaired immediately    |
| Lubrication System                         |              | x             |   | no leakages found, oil condition improvable               |
| Hydraulic System                           | П            |               | х | no leakages found, oil okay; several pumps defect         |
| Electrics                                  | х            |               |   | no abnormalities  |
| Assemblies                                 |              |               |   |   |
| Frame                                      | х            |               |   | no abnormalities  |
| Clutch                                     | $^{\dagger}$ | x             |   | no friction pads necessary; stroke to be adjusted         |
| Brake                                      |              | $\overline{}$ | x | brake not working, several damages                        |
| Intermediate Gear                          |              | x             |   | no abnormalities; belt tension to be watched regularly    |
| Gearwheel                                  |              | x             |   | gear teeth oic sufficient lubrication                     |
| Eccentric Shaft                            | x            |               |   | no abnormalities  |
| Pitman                                     | x            |               |   | no abnormalities  |
| Ram  | x            |               |   | no abnormalities  |
| Ram Guide                                  | x            |               |   | no abnormalities  |
|  | Т            |               | x | cardan shaft and bevel gears damaged                      |
| Ram Adjustment                             | x            |               |   | no abnormalities  |
| Ram Adjustment<br>Workpiece Ejector, Table |              |               |   | no abnormalities  |
| . ,  | x            |               |   | no apnormaises  |

#### Comprehensive service report

A detailed, clearly structured and easy to understand service report documents all inspection work performed. It includes the results of the equipment check on an assembly and component level. Documentation can later be used as a tool for deciding future investment plans. All necessary inspections and maintenance work as well as any spare parts requirements can be planned effectively for the future. Routine equipment checks provide companies the ability to accumulate data and create a history of the plant to identify trends in the machine's condition.









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