

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

	Condition	Comment
General Inspections		
Clearance	X	moderate BB: room for improvement
Noise Emission	X	actual noise emission of brake
Unfastened Components	X	no abnormalities
Safety Devices	X	manipulated safety devices, to be repaired immediately
Lubrication System	X	no leakages found, oil condition impeccable
Hydraulic System	X	no leakages found, oil okay, several pumps defect
Electrics	X	no abnormalities
Assemblies		
Frame	X	no abnormalities
Cracks	X	no visible cracks, necessary repairs to be adjusted
Brakes	X	brakes not working, several damages
Intermediate Gear	X	no abnormalities, belt tension to be watched regularly
Gearhead	X	gear teeth ok, sufficient lubrication
Eccentric Shaft	X	no abnormalities
Piston	X	no abnormalities
Ham	X	no abnormalities
Ham Guide	X	no abnormalities
Ham Adjustment	X	capstan shaft and bent pins damaged
Workpiece Ejector, Table	X	no abnormalities
Workpiece Ejector, Ham	X	no abnormalities
Rotating Cylinder	X	leaky, has to be repaired

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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1.3.2 Clutch **E 104-09-27-0000**

General Advice / Summary

Considering common working stress, expectable signs of wear were found. Friction pads have to be replaced regularly. In order to avoid subsequent damages, all springs have to be replaced. The whole shaft has to be replaced immediately, otherwise extensive repairs on production may occur.

Description	Condition	Date / Result	Is as certified by	
			SMS	Customer
Clutch				
Inspection of friction pads (1)	X	Measuring result: 20 mm, wear limit at 28 mm, has to be replaced shortly	X	X
Inspection of wedges for shaft (5)	X	stroke larger 12 mm, has to be adjusted	X	
Visual inspection of block-type disk (6)	X	no visual or audible damages or signs of wear; long bolts of pins have to be replaced		
Visual inspection of clutch housing for damages and cracks (7)	X	no visual or audible damages or signs of wear		
Inspection of spring bolts and springs (2)	X	room springs, have to be replaced	X	
Visual inspection of pad carrier and block carrier (3)	X	no visual or audible damages or signs of wear		
Inspection of piston, piston cover and piston ring (8)	X	no visual or audible damages or signs of wear; first minor cracking at on cover, US testing advisable		



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