

STRUCTURAL INSPECTION

Siwertell machines work reliably for decades in different harsh environments, from Arctic to tropical climates, withstanding numerous challenges from the elements. Over the years, their quality steel construction ages, and fatigue will eventually occur because of deflections and movement during operations.

To ensure that any wear and fatigue remains within acceptable safety limits, it is necessary to undertake annual visual inspections of the steel structure, and pay particular attention to areas exposed to the greatest stresses. This is specialist work that requires expertise developed over years of working with load-bearing structures.

DESCRIPTION

During an inspection, our specialist surveyor will carry out a visual assessment of the steel structure, with a detailed focus on stress-exposed areas. Any sections that have suspected damage can be checked using a dye penetrant. If further non-destructive testing is required, such as ultrasonic techniques and/or magnetic particle tests, Bruks Siwertell will arrange for additional specialist involvement. This might include testing weld joints, outer and inner hinge shafts, and the luffing/pendulum hydraulic cylinder attachments.

The thorough inspection of the steel structure will generate a full technical report, indicating the scale and severity of any damage, and include recommendations for reinforcement work and repairs. For older equipment, we would recommend a maximum inspection interval of a year.

Depending on the scope of work and how large the steel structure is, structural inspections will usually take an average of three days, but can be longer if extensive work is required.

BENEFITS

- All structural inspection work is carried out by specialist Bruks Siwertell surveyors. This original equipment manufacturer (OEM) knowledge ensures the most efficient inspection thanks to an expert understanding of the design and the machine's operation.
- Accurate information about the condition of the steel structure will ensure its safe and reliable operation for years to come.
- Any weaknesses are detected in good time, before any damage or unplanned downtime has occurred.
- The condition and safety of the machine is confirmed by experts who have the best knowledge of its design and fatigue points.
- Investing in an inspection is paid for even if only a few days of downtime are avoided.

INSPECTION REQUIREMENTS

- Customers must ensure that critical areas are cleaned prior to the visual

FOR MORE INFORMATION, PLEASE CONTACT US

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inspection as per OEM instruction; if any damage is evident, further cleaning during the inspection may be required
- Sky-lift with a 35m reach; to be arranged by the customer
- Personnel requirements: two mechanics, one operator, one Siwertell surveyor
- Paint removal tools and dye penetrant; to be supplied by the customer
- Safety and personal protective equipment; customers are required to ensure that their personnel have appropriate safety equipment.