

Criteria for replacement state of the Transport loop

Lifting devices must be inspected according to the regulation DGUV 100-500, chapter 2.8 par. 3.15.4, by an expert annually considering the following criteria. Depending on the working conditions the inspections might be necessary in shorter intervals than only once a year. This might be caused by frequent use, increased wear, corrosion or heat treatment.

Prior inspection of the Transport loop it must be cleaned. Within an inspection the following points have to be considered:



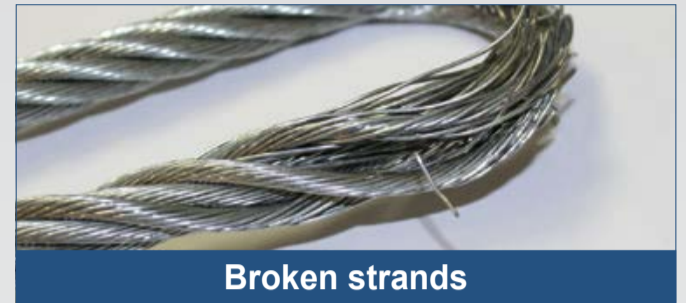
Loosening of external layer



Contusion in the support area



Deformation of the crimped end



Broken strands



Pull-out of wire rope from crimped part

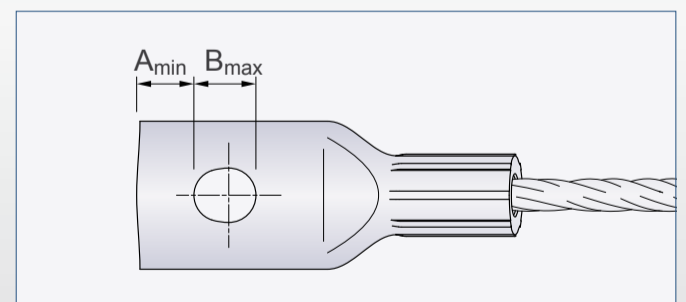


Cracks on the crimped insert

- ☑ Broken strand (Picture)
- ☑ Kinks and bends
- ☑ Loosening of external layer (Picture)
- ☑ Contusion in free lengths
- ☑ Contusion in the support area of the eye with more than 4 broken wire (Picture)
- ☑ Corrosion pits
- ☑ Damages, deformation or strong wear and tear of the wire connection
- ☑ Welding or other strong heat influences
- ☑ Pull-out of wire rope from crimped part (Picture)
- ☑ Unreadable or missing tag
- ☑ Deformed screw / damaged thread
- ☑ Grade of screw: min. 8.8
- ☑ 4 broken wires on a length of the threefold of the wire rope diameter
- ☑ 6 broken wires on a length of the sixfold of the wire rope diameter
- ☑ 16 broken wires on a length of the thirtyfold of the wire rope diameter
- ☑ Exceeding of upper or lower wear measurements (table)

Wear measurements

Load class	A _{min} [mm]	B _{max} [mm]
16	27.0	18.5
24	32.0	26.0
30	38.0	31.5
36	54.0	38.0



If **one of the above-mentioned points** is fulfilled the Transport loop has reached its replacement state and **must not be used any more.**

To be replaced

