

CRITERIA FOR REPLACEMENT STATE OF RING CLUTCH WITH WIRE ROPE

Lifting devices are strictly recommended to be inspected 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 Ring clutch with wire rope it must be cleaned. Within an inspection the following points have to be considered:



Loosening of external layer



Contusion in the support area



Wear at the locking bolt

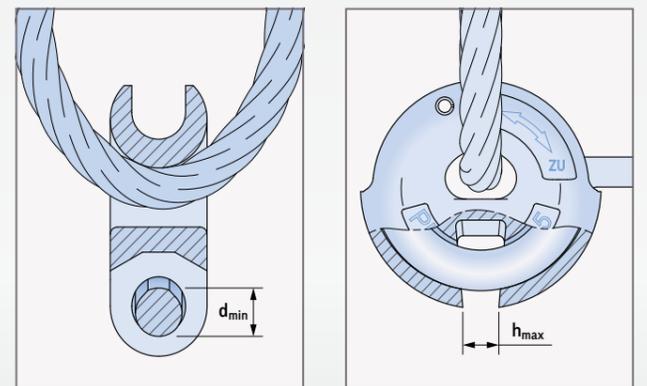


Failure of strands



Damaged wire rope connection

- » Broken strand (picture)
- » Kinks and bends
- » Loosening of external layer (picture)
- » Contusion in free lengths
- » Contusions in the support area of the eye with more than 4 broken wire (picture)
- » 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
- » Corrosion pits
- » Damaged or strong wear of the wire rope connection (picture)
- » Welding or other strong heat influences
- » Deformed coupling or locking bolt
- » Crack in the coupling or coupling link
- » Marking not readable anymore
- » Exceeding of upper or lower wear measurements



TEST DIMENSIONS

Load class	d_{min} (mm)	h_{max} (mm)
2,5	12,0	16,0
5,0	15,5	22,0
10,0	22,5	27,0
26,0	31,0	37,0

If **one of the above-mentioned points** is fulfilled the Ring clutch with wire rope has reached its replacement state and **must not be used any more**.

TO BE REPLACED

