Repair works only by skilled staff!

1. Changing the automatic mechanism and the coupling bolt

Attention: The hand lever axle (16) should not be dismounted!
- Open coupling with the hand lever
Attention! Do not reach into the jaw!
THIS INVOLVES RISK OF AN ACCIDENT!
- Take out lock-control pin (1) until stop slit becomes visible.
  Careful – do not damage circlip!
- Stop lock-control pin with mounting plate (2) supplied, order no. 65692
- Loosen 3 hexagonal bolts (3)
- Remove automatic mechanism (4) in upward direction
- Gently press automatic mechanism (4) with coupling pin (5) onto work bench (coupling pin 5 will fall off)

When replacing the coupling pin, the safety indicator must be replaced, too. (p. 2)
- Insert new coupling pin into the body (lower bush 6)
  Attention: Silt on coupling bolt and upper bush (6) must be aligned.
- Actuate locking pin (5.1) in coupling pin for control purposes
  (press outward with screwdriver)
- Regrease automatic mechanism with grease supplied (see 4.1)
- Before mounting automatic mechanism, push jaw stop bolt in
  guide in direction of bore (7)
- Place automatic mechanism (4) onto upper bush (6), lifting hand
  lever slightly in the process and guiding throw-up lever into groove
  of coupling pin underneath retaining pin to enable coupling pin to
  be raised from throw-up lever, push jaw stop device into bore
- Press automatic mechanism (4) downwards
- Secure automatic mechanism (4) gently with screws (3)
- Remove mounting plate (2) at lock-control pin (1)
- Press hand lever gently upwards: check lock-control pin for
  fouling (1)
- Secure automatic mechanism (4) with screws (3)
  Tightening torque: 27 Nm
  Use screws M 8 x 60 DIN 6921, grade 8.8!

2. Changing the lock-control pin / the safety lock

- technical revision 0
Requirement: automatic mechanism must be dismantled and
  coupling bolt removed from automatic mechanism
(see point 1.)
- Remove O-ring (8) at lock-control pin (1)
- Take off mounting plate (2)
- Pull out lock-control pin towards interior
- Insert new lock-control pin (9) with new spring (10) and grease
- Secure with circlip (8)
- Insert mounting plate (2) (further: see point 1.)
  - from technical revision 1
  - Safety shackles is to be bent up and withdrawn
  - Safety lock should completely be extracted out of the housing
  - Tho now safety lock is to be inserted
  - Insert the new wire bar
  - Wire ends of the safety shackle are to be bent over.
Check:
- Press hand lever (11) gently upwards: check safety for fouling

3. Changing the operating lever

- Remove circlip (12) with circlip pliers A1 from hand lever axle
- Dismantle hand lever (11)
- Fit new hand lever
- Secure new circlip with circlip pliers A1
  (do not overstretch circlip)
4. **Switching the hand lever over to left**
(repair set 71079)
- Remove circlip (12) with circlip pliers A1 from hand lever axle (16)
- Dismantle hand lever
- Remove circlip (13) with circlip pliers A1
- Insert new circlip (18 x 1,5) into the groove (14)
- Clamp bearing washers (15) with suitable assembling tool (see illust.) on left and right
- Knock hand lever axle (16) through carefully
- Dismount spacer (D)
- Remove circlip (17) with circlip pliers A1
- Insert new circlip (18 x 1,5) inside position
- Push hand lever into position
- Secure new circlip (18 x 1,5) with circlip pliers A1
  (take care to ensure interference fit)

5. **Changing the support ring**
- Close coupling: otherwise risk of accident!
  - Raise coupling pin with suitable tool or
  - Strike hand lever knob briefly in opening direction with heel of hand
- Remove the support ring with the help of the chisel which is to be placed on the lateral recesses
- Lift coupling pin with hand lever
- Take out support ring
- Clean support ring surface and groove (as far as old versions are concerned the spring ring should be removed)
- Fit new support ring (with position marking 18 facing forwards)
- Both slot pins in the support ring must be knocked into laterally

6. **Changing the jaw**
- Close coupling (see point 5).
- Loosen 3 screws (19) on base plate (20)
- Remove bottom part with guide bush (21), spring (22) and washer (23) or transmitter disk (23a) for pivoting-angle alarm system
- Raise coupling pin with hand lever and lift out jaw (24)
- Insert new jaw (support ring 24a is mounted in the jaw)
- Upward and downward support were are to be greased
- Proceed with assembly in reverse sequence (pay attention to bore alignment; insert transmitter disk 23a in correct position)
  When inserting screws, jaw must be located in central position (spring surrounds retaining pin on jaw)
- Opening coupling: Jaw lock should be inserted
- Tighten screws (19)
- **Tightening torque: 30 Nm**
- Please, check the lock and movement of the jaw.

7. **Changing the lower bush**
- Dismantle coupling from crossbar.
- Disassemble automatic mechanism with coupling pin, jaw and support ring
- Squeeze out bush (25)
- Press in new bush, facing right direction
- Re-assemble and mount coupling; check function

**RO=500**: Replacement of the bearing parts (repair set)
see mounting p. 1171