

Operating Instructions
for

novopress

CRIMPING TOOL

HP 95

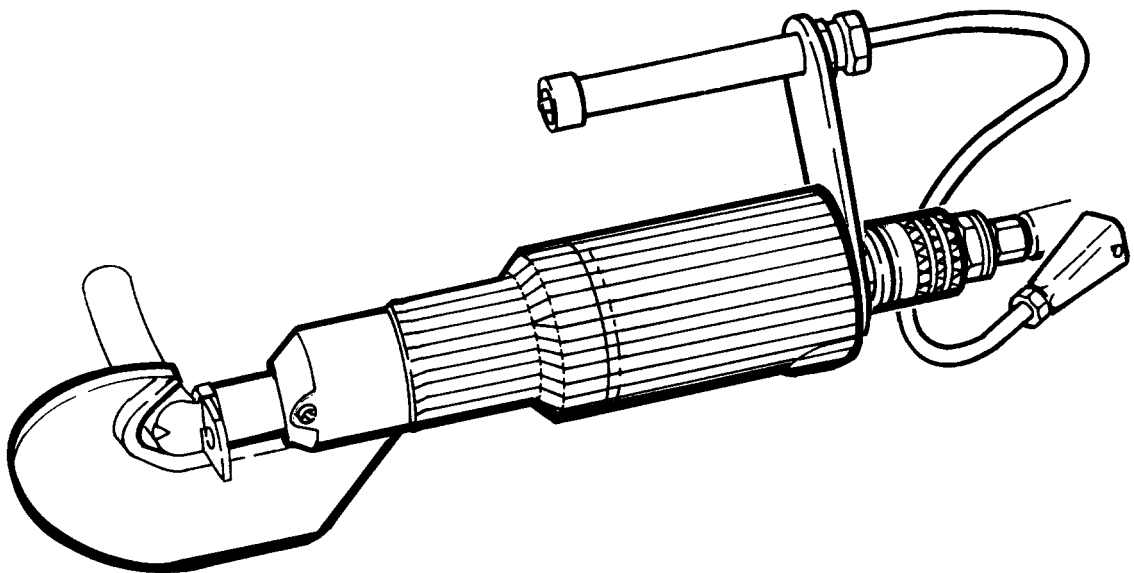


TABLE OF CONTENTS

CE Conformity Attestation
Safety Regulations
Operative Range..... 1
Technical Specifications..... 1
Operation..... 1
Use 2
Crimping 3
Maintenance 5

HYDRAULIC CRIMPING TOOL HP 95, Order No.: 3000

Operative Range

WARNING!

THE HP 95 IS A HAND TOOL AND SHOULD NOT BE USED AS A STATIONARY TOOL.

The HP 95 can crimp cable lugs and connectors for copper conductors with a cross-section ranging in size from 10 to 95 mm² (8 AWG to 4/0.)

Minimum Quantity of the Pressing Operations:



Cross Section mm ²	10	16	25	35	50	70	95
Min.Qty. of Pressings	1	1	1	1	1	1	1

The HP95 can be operated with the hydraulic unit HA 1-ES, Order No. 31070, or the foot pump HA 1-FS, Order No. 2900.

Technical specifications

Diameter:	65	mm	(2.6")
Length:	350	mm	(13.8")
Weight:	3.0	kg	(6.6 lb)
Operating pressure	min. 150	bar	(2200 psi)
(measured on hydr. unit)	max. 160	bar	(2346 psi)
Power:	59.5	kN	(5.95 tonf)

Operation

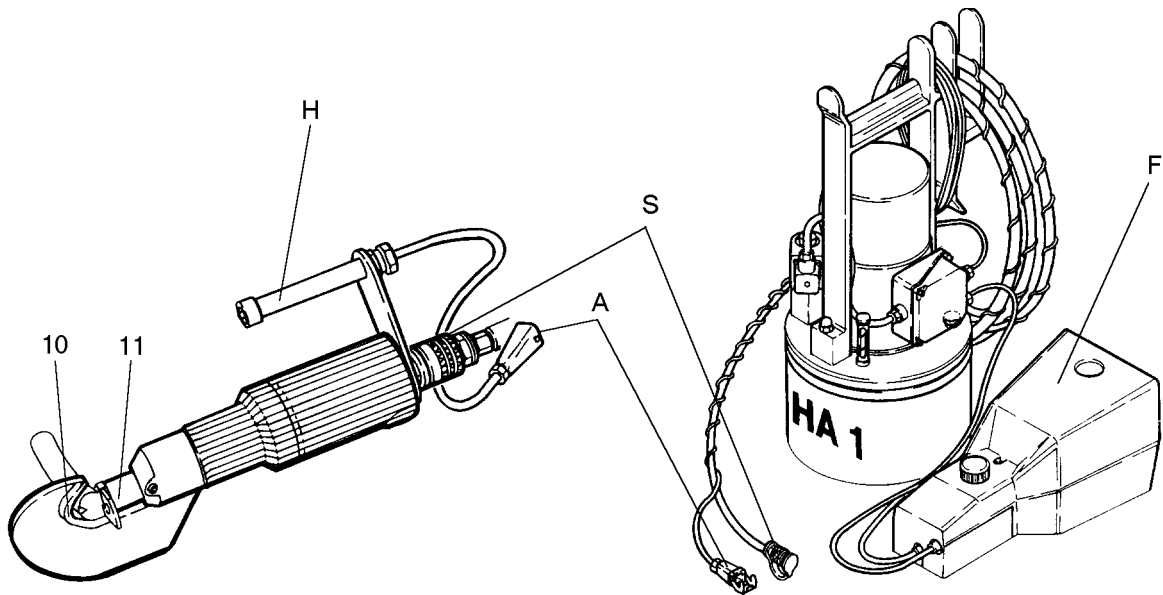
Crimping has three phases:

- Phase 1 - quick idle stroke and supercharging
- Phase 2 - slow crimping stroke
- Phase 3 - hydraulic shut off after completion of crimping and the return stroke.

The three phases are carried out automatically.

The piston returns after the hand switch (H) has been released.

Use



1. Connect the crimping tool to the HA 1 hydraulic unit by using the rapid-action coupling (S).
2. **Rapid-action coupling**

Coupling

Hold the coupling sleeve (KM) on to the sliding sleeve (SH) and slide it on to the coupling plug (KS).

De-coupling

Hold the coupling sleeve (KM) on to the sliding sleeve (SH) and pull away from the coupling plug (KS).

WARNING!

While hydraulic unit is connected, keep fingers out of crimping area (area between upper (10) and lower tool (11)).

RISK OF INJURY!

3. Connect the crimping tools to the hydraulic unit HA 1 using the connector (A).

Note!

The HP 95 can only be operated with the hand switch (H). The foot switch (F) is used only for the EMERGENCY STOP function (see operating instructions HA 1 / HA 2).

4. Carry out a few idle strokes to remove air from the system.
The hydraulic unit should be on a higher level than the crimping tool during this operation
5. The hand switch (H) is a swivelling switch and can be locked into any desired position.
Proceed as follows:
 - Slacken the set screw in the nut SW 36 (between hand switch (H) and coupling plug) .
 - Tighten the nut SW 36.
 - Tighten the set screw.

Crimping

Place the end of the cable with the terminal into the crimping head.

Then:

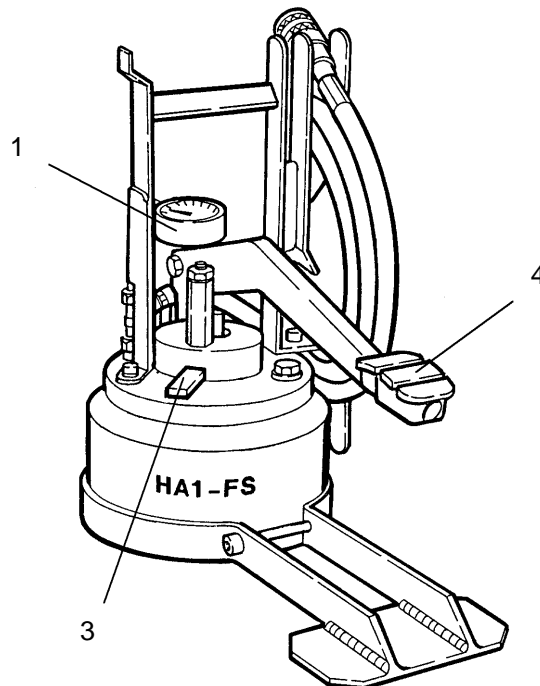
A: **HA1ES**

Press the hand switch (H) and keep pressed until the control valve shuts the machine off.
Then release the hand switch (H).

NOTE:

The piston must return completely before the next crimp is made.

OTHERWISE THE NEXT PRESSING WILL BE TOO DEEP!



B: **HA1FS**

Operate the pressure lever (4) until the piston stroke stops and the gauge (1) constantly shows the maximum pressure.

By pressing the release lever (3) oil is released from the crimping cylinder.

NOTE:

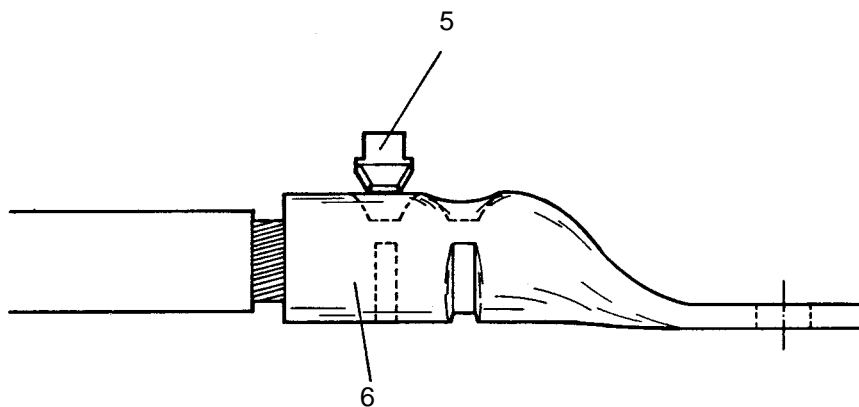
Keep the release lever pressed until the gauge shows Zero and the piston has returned to its original position.

OTHERWISE THE NEXT PRESSING WILL BE TOO DEEP!

NOTE!

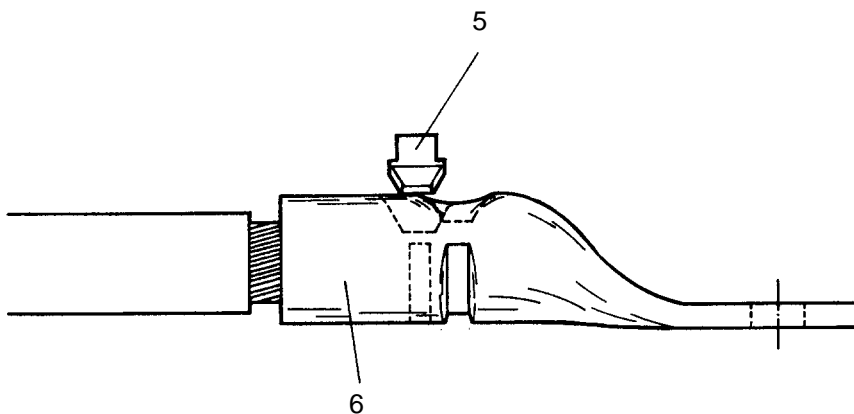
- Crimping should not be interrupted before the hydraulic valve has automatically shut off. Otherwise the crimp depth will not be sufficient.
- If more than one crimp is made in the same place, the cross-section will be too small.
- We can supply test pieces for checking the depth (Order No. 4103).
- Select the distance to the next pressing operations such that the tool is fully contacting a nondeformed area.

Selected distance all right: identical pressing depth



Key:
5 = Lower tool
6 = Cable plug

Too close a distance: pressed too deep



Maintenance

WARNING!

UNCOUPLE HYDRAULIC UNIT OR DISCONNECT IT FROM THE MAINS BEFORE CARRYING OUT MAINTENANCE WORK!

If dirty:

Clean upper and lower tool.
Clean entire crimping cylinder.

Every week:

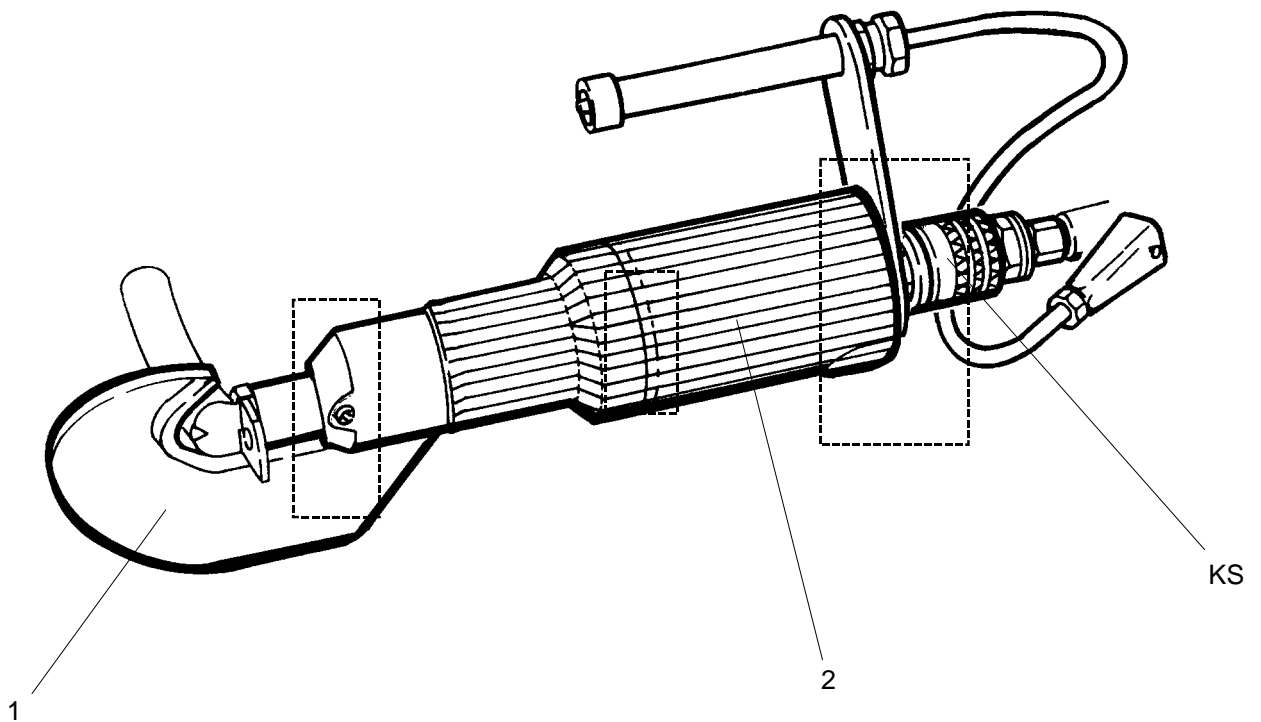
Check upper and lower tool for any damage. Replace, if necessary.

Every month:

Check marked areas for possible leakage and send in HP 95 for repair, if necessary.

Every 3 months:

Load crimping head (1) into a vise. Place 30mm wrench on coupling plug (KS) and fasten cylinder (2).



Repairs / Service

novopress

ScharnhorststraÙ 1
D-41460 Neuss

Postfach 101163
D-41411 Neuss
Telex 8 518 015
Tel. 02131 / 288-0
Telefax 02131 / 28855