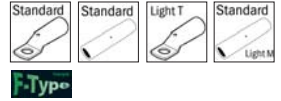
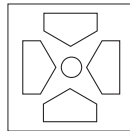




Electro-hydraulic crimping tools



**„AD300-6“
Art. 216662**



**„AD400-6“
Art. 216664**

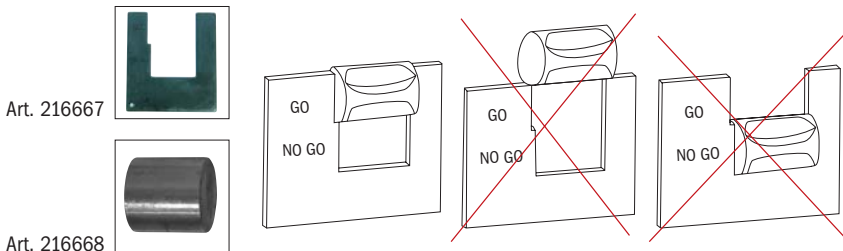


1. Technical data

Area of application:	For the creation of an electrical connectors by means of compression
Scope of delivery:	1 crimping tool, 1 charger, 2 batteries, 1 carry strap, 1 gauge and 10 specimens in plastic case.
Pressing force:	60 kN
Pressing width:	Headstock
Opening:	can be opened
Oil type:	ISO class viscosity 15
Feed rate:	2 speeds: Closing (fast) feed to bring to the conductor and working feed for compression. Switching between the two speeds is carried out automatically.
Safety:	The tool is fitted with a safety value that has been set at the factory.
Structure:	The working head can be rotated by 360° to make it easier to adapt to the operation to be carried out. The crimping tool does not protect the operator when working on cables.
Guarantee:	2 year guarantee if used for the purpose it is intended

2. Area of work

- Pressing force: 60 kN
- Working pressure in bar: 700
- Pressing width: thorn
- Crimping range cable lugs: 216662: Cu 16-300 / 216664: Cu 25-400
- Crimping range connectors: 216662: Cu 16-120 / 216664: Cu 25-400
- Pressing time, battery-operated in sec.: 6
- Battery charging time in min.: 60
- Battery type: NiMH, 14,4 V, 3 Ah
- Dual-piston pump
- Size (mm): 360 x 335 x 75
- Weight in kg: 216662: 4,5 / 216664: 4,8
- Weight set in kg: 216662: 9,5 / 216664: 9,8



Preparation:

Before starting up the tool, read the operating instructions first.

All current-carrying elements in the area you are working in should be disconnected.

Otherwise the protective procedures for working in the vicinity of components under current must be implemented. (DIN EN 50110)

Do not use the tool if you are tired or under the influence of medication, drugs or alcohol.

Take into account the valid accident prevention and safety regulations and use the tool exclusively for the purpose for which it is intended.

Only electro-technically trained persons over 16 years of age may process connecting materials using the tool.

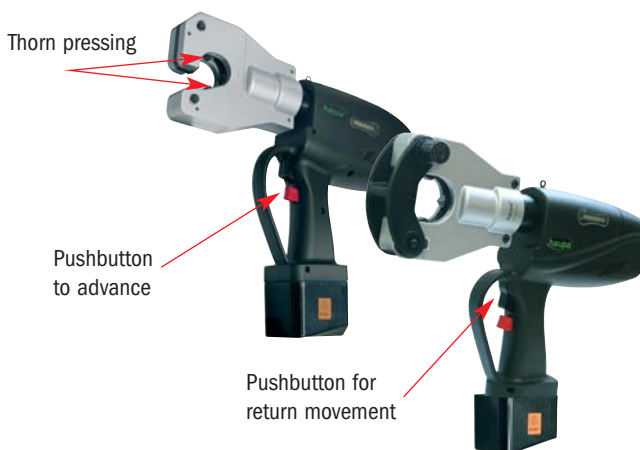
The operating instructions must always be carried with the tool.

The instructions must have been read and understood by the user.

The operator must ensure that this is the case.

Start:

- The device has a manual return that brings the piston back to the starting point when the maximum pressing force has been achieved.
- The device is equipped with a dual piston pump characterised by fast feed and slow working hub.
- The pressing head can be infinitely rotated by 360° about the longitudinal axis. This enables mounting even in difficult to access locations.
- The pressing head has centring pins which ensure automatic centring of the connection material in the pressing head.



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3. Notes regarding correct use

Before you start work, all active, thus current-carrying elements in the area around the assembler must be switched to without power. If this is not possible, protective procedures for working in the vicinity of components under current must be implemented. The charge status of the battery should be checked before you start work

3.1. Operating the device

First, the bolt is removed and the bar opened. The connection material is placed centrally between the 4 pressing spikes.

Caution!

If the pressing is not centred, this may result in damage to the pressing head!

Then the pressing head is fully closed up again. The actuation of the operating switch triggers the pressing procedure which is characterised by the meeting of the pressing spikes. A pressing procedure is completed when the pressing spikes have been joined and the device switches over to idle.

The return of the piston is carried out manually after the maximum operating excess pressure is reached. Then a further pressing procedure can be carried out or the bar can be opened and the connection material removed from the pressing head.

Before reaching into the pressing head, remove the battery to ensure that the device is not activated accidentally.

Pressing the reset button brings the pressing spikes back to the starting position in the event of faults or an emergency.

The pressing procedure can be interrupted at any time by releasing the operating switch.

3.2. Explanation of the areas of application

The pressing tool has pressing spikes that use force to compress copper and aluminium connection materials without the need to change tools.

4. Removing and inserting the battery

Hold the tool firmly and press the battery release button to remove the battery.

ATTENTION:

Never short-circuit the battery.

Inserting the battery

Insert the battery until it clicks into place. Make sure the poles are facing the right way.

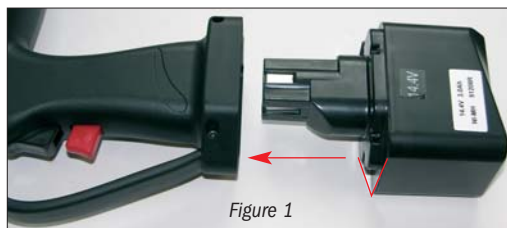


Figure 1

Charging

Before using the tool, charge the battery as follows:

Connect the cable of the charger to a socket (AC). As soon as the charger is connected to the power supply, the red LED will light up.

Inserting the battery into the charger

Insert the battery firmly, as shown in Figure 2 shown here, until it touches the bottom of the charging compartment.



Figure 2

ATTENTION:

If the battery is inserted incorrectly (Figure 1), then it will not only not be charged, it may also damage the charger (e.g. by bending the terminals/short-circuiting).

Charging

When you insert a battery into the charger, the battery will start charging and the green control light will also light up.

When the battery is fully charged the green control light will flash.

If the yellow control light comes on, the battery is overheating. Remove the battery immediately and disconnect the charger from the power supply.

5. Care and maintenance

Cleaning

- Careful cleaning of the tool, in particular, the moving parts contributes towards a longer useful life. Remember that dust, sand, environmental influences, in particular a high salt index, and dirt in general are extremely damaging to hydraulic tools.

Power switch

Check to see whether the switch on the machine automatically pops out again when you release it.



Turn off the cap and fill in the oil on demand

Filling level of the oil tank

Ensure that the oil level is always sufficient. Do not fill the tank with unsuitable oil or brake fluid. Oil type: VESTA HLP-15 from VERKOL or an oil of a similar quality. Remove the tank lid and top up the oil. The oil must be filtered first. If necessary, purchase the required oil from the HAUPA service centre (Art. 216254).

Storage

To prevent damage to the tool as a result of bumps, dust etc. you should if possible store the tools in the original packaging.

Oil level

The oil level in the tank should be checked at regular intervals, in particular, when it has been used for a long time and topped up whenever necessary.

Oil filling

This process should only be carried out by an authorised technician.

Important: The hydraulic oil must be filtered, have an ISO viscosity class of 15 and a viscosity index of 100 and correspond to the standards AFNOR NFE 48603-HM and ISO 6743/4 L-HM.

WARNING NOTES!

A natural working position is required in order to operate the tool correctly, thus the handle must point downwards.

6. Diagnosing faults

Before you carry out any work on the tool, ensure that it is no longer connected to the power supply.

CAUTION! If you have a problem that is not listed in the table below, contact your local technical customer support service for assistance.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The tool does not move, moves slowly or jumpy forwards	Air in the system	Hold the pressing head upright and press the operating buttons for feed and the release valve simultaneously for around 10 seconds
	Oil level low	Fill oil in accordance with the instructions above
	Cylinder piston jammed	Check the cylinder for damages. Contact info@haupa.com
The tool does not move, only partially or moves slowly	Leaks on the installed pump	Contact info@haupa.com
	Air in the system	Bleed as described above
	Return spring damaged or other damage to the cylinder	Contact info@haupa.com
Oil loss at piston	O-rings damaged	Contact info@haupa.com
Crimp process is not completed or does not return to the basic position	Battery is not sufficiently charged, therefore there is not sufficient hydraulic energy to release	Insert the replacement battery. Ensure that the replacement battery is always charged. CAUTION: Pushing the operating button too firmly may cause damage to the release valve.

6.1. WARNING NOTES!

Caution:

Do not attempt to force the head to turn when the hydraulic circuit is pressurised.

Guarantee:

2 year guarantee when used for the purpose it is intended when the annual maintenance intervals are maintained by an authorised HAUPA service centre. We reserve the right to rework the product.

Disposal:

Individual components must be disposed off separately.

The oil must be drained and disposed of at the designated points

Caution:

Hydraulic oils represent a risk to the groundwater. Uncontrolled drainage or incorrect disposal carries penalties. (Environmental Liability Law)

The remaining components of the aggregate must be disposed in accordance with the relevant environmental standards.

The disposal should be carried out by authorised specialist companies. The free return to the manufacturer cannot be guaranteed.

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Always use original replacement parts. Other parts may seriously damage the tool and will void the guarantee.

If the tool still does not work correctly, send it to the nearest repair service for specialist maintenance and fine tuning, or send an email to: info@haupa.com

WITH EVERY REPLACEMENT PART ORDER, INCLUDE THE FOLLOWING INFORMATION:

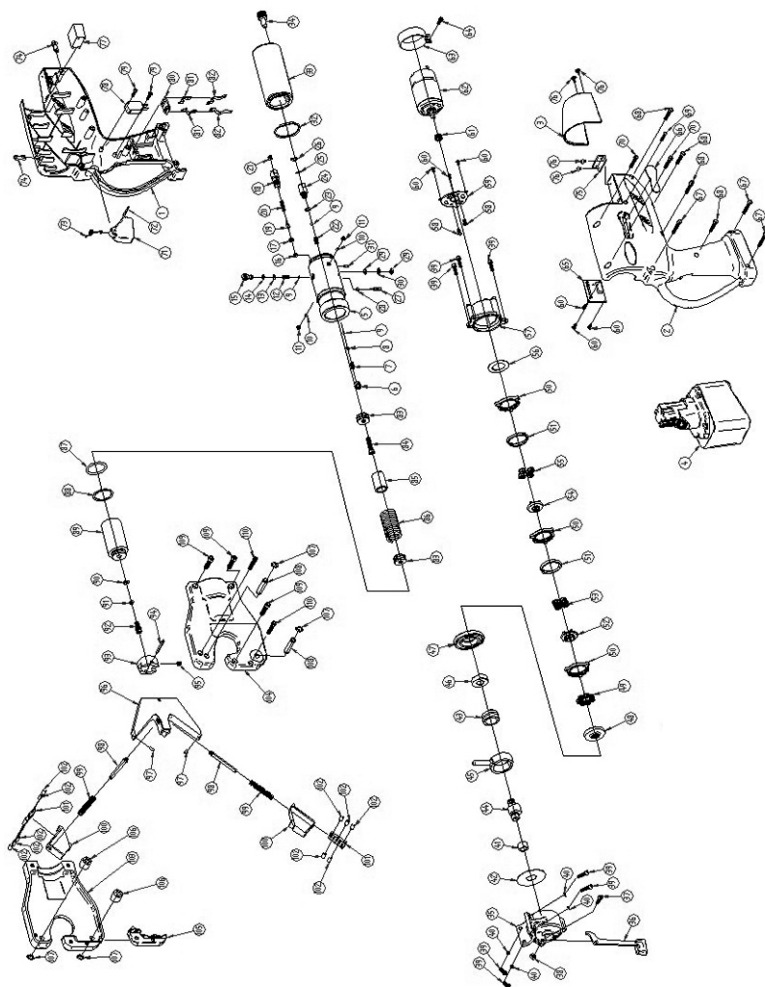
- 1) Article number.
- 2) Article description.
- 3) Reference to the operating instructions and/or date.
- 4) Tool type.
- 5) Serial number of the tool.

The guarantee is voided if you use parts that are not original replacement parts from HAUPA.

Spare parts list art. 216662

No.	Description	PU	No.	Description	PU	No.	Description	PU
1	PLASTIC BOX	1	38	NUT	1	75	PLASTIC FIXED PIECE	1
2	PLASTIC BOX	1	39	SCREW	7	76	SCREW	4
3	UP PLASTIC CAP	1	40	WASHER	4	77	RELAY	1
4	BATTERY 14.4V	1	41	BEARING	1	78	SWITCH	1
5	PUMP BODY	1	42	WASHER	1	79	SPRING	2
6	SCREW (CHEK VALVE)	1	43	BEARING	1	80	INSULATE PLATE	1
7	SPRING	1	44	ROTATION ROD	1	81	LOCK PLATE	2
8	BALL CAP	1	45	PISTON	1	82	CONDUCTION PLATE	2
9	BALL3/16"	3	46	BEARING	1	83	SPRING BASE	2
10	BALL 4.0 MM	2	47	BEARING BASE	1	84	SPRING	1
11	SCREW	2	48	FIRST GEAR BASE	1	85	SLEEVE	1
12	SPRING	1	49	FIRST GEAR PART	7	86	PISTON SPRING	1
13	O RING (P-4)	1	50	RING GEAR	3	87	O RING	1
14	BACK-UP RING (P-4)	1	51	RUBBER WASHER	2	88	BACK UP RING	1
15	SCREW	1	52	SECOND GEAR BASE	1	89	PISTON	1
16	WASHER	1	53	SECOND GEAR PART	4	90	ORING	1
17	VALVE BASE	1	54	THIRD GEAR BASE	1	91	BACK UP RING	1
18	VALVE ROD	1	55	THIRD GEAR PART	4	92	SCREW	1
19	SPRING	1	56	WASHER	1	93	MOLD ROLL BASE	1
20	VALVE BODY	1	57	GEAR BOX	1	94	PIN	1
21	SCREW	1	58	SCREW	2	95	SPRING	1
22	SPRING	1	59	WASHER	1	96	MOLD	1
23	WASHER	1	60	SCREW	6	97	PIN	2
24	VALVE BODY	1	61	GEAR	1	98	SLIDE PIECE AXIS	2
25	OIL FILTER	1	62	MOTOR	1	99	SPRING	2
26	SNAP RING	1	63	LOCK RING	1	100	SLIDE PIECE	2
27	RELEASE VALVE STEM	1	64	NUT	1	101	NEEDLE BASE	2
28	O RING (P-3)	1	65	MONITOR	1	102	NEEDLE	10
29	O RING (P-8)	2	66	PROTECT CAP	1	103	CAP [®]	1
30	BACK UP RING	1	67	SCREW	3	104	CAP(L)	1
31	PIN	1	68	SCREW	4	105	MOLD	1
32	O RING (G30)	1	69	SCREW	1	106	GUIDE ROLLER	2
33	OIL RESERVOIR	1	70	SCREW	2	107	SNAP RING	4
34	OIL RESERVOIR PLUG	1	71	SWITCH	1	108	PIN	2
35	ALUM - HEAD	1	72	PIN	1	109	SCREW	3
36	RELEASE	1	73	SPRING	1	110	SCREW	2
37	SPRING	1	74	SPRING	2			

EXPLOSIONSZEICHNUNG Art. 216662



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Ersatzteilliste Art. 21664

Nr.	Beschreibung	VE
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EXPLOSIONSZEICHNUNG Art. 216664

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CE Erklärung