



**Electro hydraulic crimping tool
„A0-6“**

Art. 216800

60 kN	700 bar	180°		LI-ION 18V 3Ah	



1. Technical characteristics




Area of application:	For the creation of an electrical connection by means of compression
Pressing force:	60 kN
Scope of delivery:	1 crimping tool, 1 charger, 1 battery, 1 carry strap, in plastic case, without dies
Oil type:	ISO class viscosity 15
Feed rate:	2 speeds: Closing (fast) feed to bring the pressing dies 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 180° to make it easier to adapt to the operation to be carried out. The model Art. 216800 does not protect the operator when working on cables that carry power.
Guarantee:	2 year guarantee if used for the purpose it is intended

2. Area of work

- Pressing force in kN: 60
- Working pressure in bar: 700
- Opening/ Hub: 17 mm
- Head can be opened
- Pressing width: slim
- Motorstop
- Crimping range cable lugs: Cu 6-300 / DIN Cu 6-300 / DIN Al 16-240
- Crimping range connectors: Cu 6-300 / DIN Cu 6-300 / DIN Al 16-240
- Pressing time, battery-operated in seconds: 4
- Battery charging time in minutes: 60
- Battery type: Li-Ion, 18 V, 3 Ah
- Dual-piston pump
- Weight in kg: 4,5
- Weight of set in kg: 9,5

2.1. Sensortechnik

With the different colours of the sensor LED, it shows whether the pressing has been completed successfully or which errors have occurred:

-  Light is green: Pressing completed as standard, motor stopped
-  Light is orange: Battery voltage not sufficient
-  Light is red: Pressing interrupted before completed

The device also has 2 white LED designed to illuminate the working area.

3. Operating instructions

CAUTION! TOOLS MAY NEVER BE USED WITHOUT FIRST INSERTING THE PRESSING DIES.

Ensure that the pressing dies fit precisely to the appropriate area and are seated perfectly in the holders.

OTHERWISE THIS MAY CAUSE SERIOUS DAMAGES OR BREAKAGES AND THE GUARANTEE WILL BE VOIDED.

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.

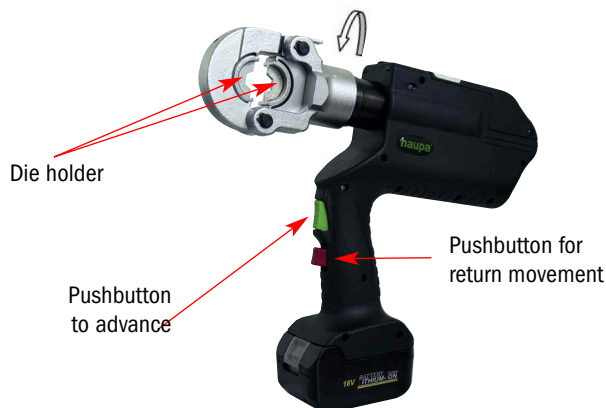
The instructions must have been read and understood by the user.

The operator must ensure that this is the case.



Operating:

- Select the appropriate pressing dies for the connection to be pressed.



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- Insert the pressing dies in the tool head. All of the pressing dies that can be used in these models are half-circles, regardless of the type of crimping or pressing being carried out. They are made up of two parts with identical external measurements, so that they both can be inserted at will into the piston or the head.
- The procedure for inserting pressing dies is identical for mounting to both piston and head.
- The dies are inserted via the guides until they come to a stop at the blocking pin.
- When inserting into the piston, you must only ensure that this is pushed far enough forward for the release button to be visible and accessible.

Operating:

- To remove the dies, in both instances, the relevant release button must be activated. Then allow the dies to slide out. Please note that in order to remove the inserts at the piston, the steps listed above must be carried out in reverse order.

Start:

- Bring the tool to the working position.
- Select the appropriate pressing dies for the connection to be pressed.
- Insert the pressing dies in the tool head.
- Feed the conductor into the connector.
- Place the connector between the two pressing dies.
- Approach of the pressing dies (closing feed rate)
- Hold the tool securely and press the operating button to move the piston quickly forwards until the pressing dies meet the connector to be compressed.
- As soon as the pressing dies start to compress the connectors, the system automatically switches from closing feed to working feed.
- Press until the pressure limiter can be heard or the pressing dies meet.
- Pressing the front operating button takes the pressure off the system and piston travels back (fully or partially, to directly carry out a second compression action).

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



Charging

Before using the tool, charge the battery as follows: Connect the cable of the charger to a socket (AC).

Inserting the battery into the charger

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

ATTENTION:

If the battery is inserted incorrectly, 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 is charged and the charging light.

When the battery is fully charged, the charging indicator shows 100% and a beep. Remove the battery immediately and disconnect the charger from the mains.



Attention!

Please remove the battery during transport and after usage – because of avoiding deep discharge!

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Li-ion Battery & Charger Instruction



Li-ion Batterie

Voltage	18 V
Weight	0,380 kg
Length	120 mm
Width	70 mm
Height	80 mm
Capacity(Ah)	3Ah
Charge time	60 min.

Charge(for Li-ion)






Voltage	110V / 220V
Weight	0,430 kg
Length	175 mm
Width	90 mm
Height	80 mm








Permitted only on stabilized power sources!

Li-Ion Battery Manual Instruction

Panel Description:

1. Connect power shows  ,
2. Fully charged, it shows  and comes beeping every 3 seconds.
3. Unusual working == Too low voltage shows  and comes a beeping every second.
4. Unusual working == Unusual temperature shows  , and comes a beeping every second.
5. The voltage is not rising after 10 minus charged. The battery is charged incompletely. The battery is faulty, showing  and coming beeping every 2 seconds by a second.

Specification:

1. The input power is external power DC24V 3A.
2. The charge voltage is 24V 2.5A.
3. When plug in the power, the panel shows  and comes a beeping.
4. Uninstall the battery, the panel shows  and twinkles every second.
5. Detect the battery voltage first and shows battery capacity rate when install battery.
6. When battery charged completed, the panel shows  and comes beeping every 3 seconds.
7. When the voltage is too low, the panel shows  and comes a beeping every second.
8. When the temperature is too high, the panel shows  and comes a beeping every second.
9. The maximum charge time is 70 minutes. After 70 minutes, the charger will stop charging regardless the battery is charged completed.
10. The full charged voltage for 18V Li-Ion battery is (5*4.3=21.5v); the voltage for 14.4V Li-Ion is (4*4.3=17.2v) (reference valve). The battery is coming with a protective plate which will stop charging automatically when charged completely.
11. The lowest battery voltage for 18V Li-Ion battery is (2.9*5=14.5v); and the 14.4v is (2.9*4=11.6v).
12. It will stop charge when the battery temperature is higher than 65 degree centigrade.
13. The usual temperature for battery is between -20° to 65° centigrade when a fan is applied. The fan working voltage is 12V.
14. Under 90% battery capacity will carry in adding per 5%. Over 90% battery capacity will carry in adding per 1%.

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.
- Particular care should be taken when cleaning the pump drive piston and the piston.

The tiniest of contaminations may scratch the walls of the cylinder and damage the leak-proof seals. For the correct cleaning of the piston, we recommend extending the piston and then cleaning it with a high-quality, non-corrosive solution.

Power switch

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

WARNING NOTES!

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

6. Fault diagnostics

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.

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.

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.

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EC declaration of conformity HAUPA factory certificate

Remscheid, 15.03.2012

Product: Battery hydraulic crimping tool
Product range: Around the cable
Art.-no.: 215880; 216601; 216620; 216622; 216624; 216503;
216662, 215881, 216800, 216801, 215200; 215700;
217200; 217500; 216662; 216664

Note: A correct connection according VDE 0220 Part 2 is only guaranteed if the user work with Haupa cable lugs and also adequate HAUPA pressing tools.

The tools are not isolated and it is forbidden to work under tension.

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Herewith we declare that the above mentioned tools are manufactured according the following guidelines:
CE guidelines 98/37/EEC, 89/336/EEC

Jens-Ole Paas
Qualitätsmanagement

Jochen Husli
Produktmanagement



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