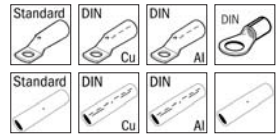




**Battery powered crimping tool
„SH-6“**

Art. 21 58 81



1. Technical data

Area of application:	For the creation of an electrical connection by means of compression
Scope of delivery:	1 crimping tool, 1 charger, 2 batteries, 1 carry loop, in plastic case, without pressing dies.
Pressing force:	60kN
Oil type:	ISO class viscosity 15
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. 215881 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/Performance characteristics

- Pressing force in kN: 60kN
 - Working pressure in bar: 700
 - Head can be opened
 - Opening / Hub: 9 mm
 - Pressing width: slim
 - Motorstop
 - Crimping range cable lugs: Cu 10-240 / DIN Cu 10-240 / DIN Al 16-185
 - Crimping range connectors: Cu 10-240 / DIN Cu 10-240 / DIN Al 16-185
 - Pressing time, battery-operated in seconds: 2
 - Battery charging time in minutes: 60
 - Battery type: NiMH, 14,4 V, 3 Ah
 - Weight in kg: 2,4
 - Weight Set in kg: 3,2
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- 6 tonnes of pressing force for maximum performance
 - Motor stop. The feed is stopped immediately the operating switch is released.
No post-travel of the piston
 - 180° rotating crimping head. Can thus be mounted even in places that are difficult to access
 - Manual return enables shorter process cycles and saves battery capacity
 - The manual return enables the operator to bring the piston back to the starting point in the event of a faulty pressing.
 - After the pressing is completed, the device operates in idle.
(If the compression is not completed, manual return of the piston on the return operation button is „very perceptibly“ more difficult)
 - The two button operation ensures logical, simple and quick single-handed operation.
 - The tool is supplied with 2 NiMH batteries, 3 Ah and a quick charger.
 - The second battery ensures continuous operation.
(One battery in use, the other in the charger)

- Pressing dies from 10 to 120 mm² can be used on both sides (2 conductor cross-sections with only one pressing die)
- Area of application in accordance with the available pressing dies (max. 240 mm² DIN tube terminals)

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.

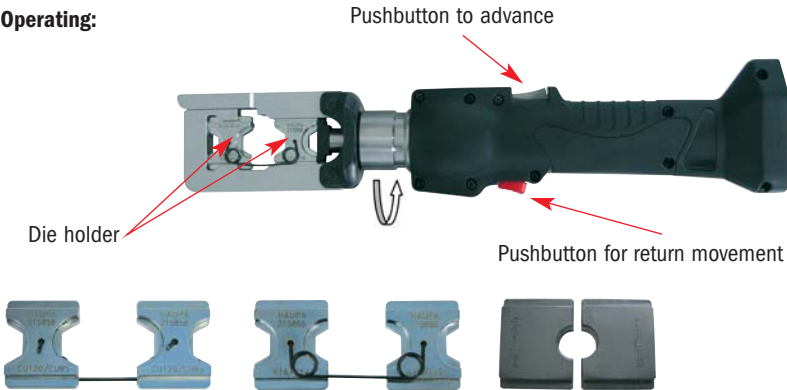
Only electro-technically trained persons over 16 years of age may process connecting materials using the tool.

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 required pressing die.
- Never use a crimping tool without pressing dies!
- The pressing procedure can be stopped at any time by releasing the actuation switch.
- No components under power may be compressed.
- The tool is not insulated!
- The tool is not designed for permanent use.
- After 35 - 45 compression actions carried out one after another, you must take a break of 10 to 15 minutes to allow the tool to cool down.
- If it is heated too high, this may cause damages to the tool.
- Do not use under water or when it is raining.
- Please observe the processing notes for the relevant connection materials as detailed in our catalogue.

4. Removing and inserting the battery

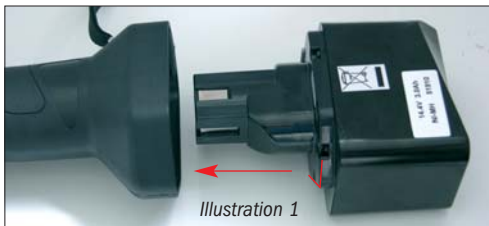
Never short-circuit the battery.

ATTENTION:

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

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 *Illustration 2* shown here, until it touches the bottom of the charging compartment.

ATTENTION:

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



Illustration 2

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.
- 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.

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.

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... convincing solutions

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.

Faults:

Loss of oil:

Send to the HAUPA service centre. Do not open!

Very slow feed of the piston:

Air is in the hydraulic system. Keep the head upright and operate both operating switches for 10 seconds at the same time in idle. As soon as the air has been expelled from the hydraulic system, the feed rate and the pressure is restored.

Disposal:

...in accordance with the scope of validity of the European WEEE (2002/96/EU) and RoHS directives (2002/95/EU). Batteries must be disposed off separating according to the battery directive.

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.

Replacement parts list art. 215881

NO.	Description	PU	NO.	Description	PU
1	Housing (R)	1	32	P03 O-Ring	2
2	Housing (L)	1	33	5/32" Steel Ball	3
3	Start Knob	1	34	Valve Spring	2
4	Spring	1	35	M3X5 Screw	1
5	Switch Rod	1	36	Release Spring	1
6	Release Lever	1	37	P03 Back-Up Ring	1
7	Lever Support	2	38	Release Screw	1
8	Switch Unit	1	39	Safety Valve Set	1
9	Release Spring	1	40	P05 O-Ring	1
10	M4 x 12Screw	6	41	3/16" Steel Ball	2
11	M4 x 20Screw	4	42	Valve Spring	2
12	Strap	1	43	Valve Seat	2
13	Power System	1	44	Screw	1
14	S-32 O-Ring	1	45	Pump Body	1
15	Oil Reservoir	1	46	P-28 O-Ring	1
16	S-36 O-Ring	1	47	P-28 Back-Up Ring	1
17	Bush	1	48	Ram	1
18	1/8" Steel Ball	1	49	Ram Spring	1
19	M4 x4 Screw	1	50	Cylinder Head	1
20	Cylinder Insert	2	51	Pin	2
21	P06 Back-Up Ring	2	52	Snap Ring	4
22	PS-6 O-Ring	2	53	M5 x5 Screw	1
23	Pump Piston	2	54	M5 x8 Screw	1
24	Piston Spring	2	55	Die Holder	1
25	Release Valve Stem	1	56	Jaw	2
26	P03 O-Ring	2	57	Spring	1
27	Reservoir Screw	1	58	Upper Die Holder	1
28	S3 O-Ring	1	59	Spring	2
29	Filter Seat	2	60	Down Die Holder	1
31	Suction Valve	2	61	M4 x3 Screw	1

Exploded assembly drawing art. 215881

