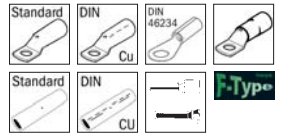




**Crimping tool
„HH-12“**

Art. 215946



1. Technical data

Area of application:	For the creation of an electrical connection by means of compression
Scope of delivery:	Hydraulic hand pliers in a black plastic case, without dies.
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 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 in kN: 120
- Working pressure in bar: 700
- Opening/ Hub: 20 mm
- Pressing width: wide
- **H-Head „Deep indent pressing“:** Cu/Al Tube cable lugs and connectors
- Crimping range cable lugs: standard Cu 10-400
- DIN Cu 10-300 • DIN Al 16-240
- Crimping range connectors: standard Cu 10-400
- DIN Cu 10-300 • DIN Al 16-240
- Dual-piston pump
- Weight in kg: 6,0
- Weight 2et in kg: 7,5

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.

Introduction:

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.

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.

Performance characteristics:

- 12 tonnes of pressing force for maximum performance
- 180° rotating crimping head. Can thus be mounted even in places that are difficult to access.
- The manual return enables the operator to bring the piston back to the starting point in the event of a faulty pressing.



3.1. Preparation:

- Select the appropriate pressing dies for the connection to be pressed.
- 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.
- Then the pin is retracted using the release button and the die inserted further until it is held by the pin and clicks into place.
- 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.
- 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.



3.2. 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.

3.3. Approach of the pressing dies (closing feed rate)

- Hold the tool securely and press the mobile lever arm to move the piston quickly forwards until the pressing dies meet the connector to be compressed.

3.4. Compression (working feed)

- 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 and a perceptible discharge of the pump occurs.

3.5. Releasing the pressing dies (return of the piston)

- Activate the release valve lever on the tool so that the piston automatically returns to the basic position or to the desired position.
- This can be carried out during the crimping if you have made an error in the selection of the connector or the die.

4. Diagnosing faults

The following section describes three possible reasons for faulty operation as well as the ways in which they can be eliminated.

4.1.

With every actuation of the lever the piston experiences a feed motion and then returns back to the starting position.

CAUSE: Air in the hydraulic circuit.

SOLUTION: Let the air out of the hydraulic system; See the explanations in the "Checking the oil level" section.

4.2.

The feed from the piston is fine, but it is not possible to fully complete the pressing.

a) CAUSE: Lack of oil.

SOLUTION: Fill the tank; See the explanations in the "Checking the oil level" section.

b) CAUSE: As a result of contamination in the closing stamp, oil exits the pressure limiting valve.

SOLUTION: Hold down the release level and operate the drive lever forcefully approximately 10 times in series. This should wash away the contaminations in the safety valve so that the pump works properly again.

If the tool still does not work, send the tool to the HAUPA service centre for fine tuning by our specialist staff. Do not send accessories as these are not necessary.

4.3.

Tool oil loss.

CAUSE: Sealing rings are defective or deformed

SOLUTION: Please send the tool to the HAUPA service centre. Do not open!

5. Care and maintenance

5.1. 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.

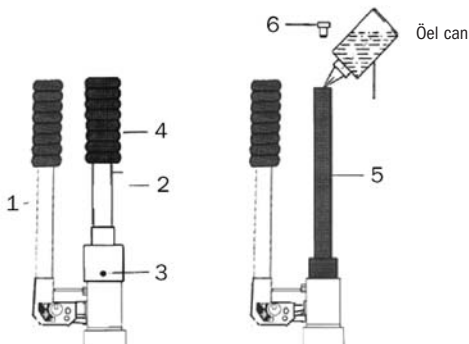
For the correct cleaning of the piston, we recommend extending the piston and then cleaning it with a high-quality, non-corrosive solution.

5.2. Storage

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

5.3. Checking the 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.



- Hold the tool upright so that levers 1 and 4 are pointing upwards.
- Move the piston back as far as it will go, turn the moveable lever (1) by a quarter turn and hold, press the release button until the piston stops on the return journey.
- Remove the stop screw (3) using an Allen key.
- Unscrew the fixed arm (4) and remove.
- Hold the upper section of the tank (5) with one hand and with the other hand remove the lid (4). Fill the container to the top and replace the lid. The oil must be distributed throughout the entire container, so that it is impossible for air to enter into the circuit.
- Move the piston forwards with the moveable lever and check for perfect functionality.

Bleeding the hydraulic circuit

- After the lid (6) of the tank has been removed, operate the moveable lever (1) several times to extend the piston.
- Move the piston back again fully, and use a screwdriver or similar object to press the release button to enable the oil to flow back into the container.

- Repeat these steps at least 5 times to fully bleed the entire hydraulic circuit and to remove all air pockets.
- Carry out step 5 from the previous section – "Refilling or filling with oil".
- Apply the handle, tighten the locking screw and check the functionality.
If the tool still not does function correctly despite this maintenance please contact the HAUPA service centre. Only use the oil named in section 1.
- When changing the oil, dispose of the old oil under strict observation of the applicable legal requirements.

5.4. 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.

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.

Ersatzteilliste Art. 215946

Code-Nr.	Nr.	Beschreibung	Anz.	Code-Nr.	Nr.	Beschreibung	Anz.
2030006	1	IMPULSGEBER FÜHRUNG PRESSEINSATZ	1	2030092	51	HALTERUNG FILTER	1
2030007	2	FEDER FÜHRUNG PRESSEINSATZ KOLBEN	1	2030052	52	PUMPENGEHÄUSE	1
2030008	3	NOCKEN FÜHRUNG PRESSEINSATZ KOLBEN	1	0000042	53	SCHEIBE	1
0000026	4	FEDERSTIFT	1	2030054	54	FEDER	1
0000027	5	STIFT	1	0000040	55	KUGEL	1
0000424	6	SPLINT DREHUNG	1	2030094	56	EINLASSVENTIL K.	1
0000423	7	SCHRAUBE	1	E2-2030	57	FILTER	1
2030087	8	ABSTÜTZRING O-RING	1	0000043	58	O-RING	1
0000029	9	O-RING	1	2030082	59	UNT. KÖRPER SICHERHEITSV.	1
2030017	10	ABD. FEDER KOLBEN	1	2030094	60	KÖRPER SICHERHEITSVENTIL	1
0000030	11	SICHERUNGSRING	1	0000044	61	INBUSSTIFTSCHRAUBE	1
0000002	12	SICHERUNGSRING	1	2030084	62	NADEL SICHERHEITSV.	1
2030021	13	BUCHSE HEBEL	1	2030085	63	FEDER	1
2030024	14	SPLINT KÖRPER HEBEL	1	2030086	64	SPANNGLIED SICHERHEITSV.	1
2030025	15	SPLINT KOLBEN HEBEL	1	2030060	65	FEDER	1
0000031	16	INBUSSSCHRAUBE	1	0000040	66	KUGEL	1
0000134	17	KUNSTSTOFFSCHUTZ	1	2030061	67	KÖRPER NIEDERDRUCKVENTIL	1
2030106	18	SPLINT ANSCHLAG HEBEL	1	2030044	68	BUCHSE NIEDERDRUCKVENTIL	1
2030107	19	ROLLE STIFT ANSCHLAG	1	2030048	69	FEDER	1
0000026	20	FEDERSTIFT	1	E1-2030	70	FILTER	1
2041200	21	ADAPTER 41200	1	2030088	71	DECKEL NIEDERDRUCKVENTIL	1
2030108	22	FEDER STIFT ANSCHLAG	1	2030092	72	NEOPRENSCHUTZ	1
0000032	23	SCHEIBE	1	0000041	73	O-RING	1
2030105	24	HEBELKOPF	1	2030064	74	TANK	1
2030026	25	FEDER HEBEL	1	2030065	75	TANKDECKEL	1
2030027	26	ROHRHEBELKOPF	1	0000044	76	INBUSSTIFTSCHRAUBE	1
2030030	27	ROHRHEBEL	1	2030067	77	GRIFFKOPF	1
2030028	28	HEBELSCHUTZ	1	2030069	78	GRIFFSCHUTZ	1
2030032	29	PRESSKOLBEN	1	2030070	79	GLASFASERGRIFF	1
0000033	30	O-RING	1	2030071	80	HALTERUNG GRIFF	1
0000034	31	O-RING	1	2030005	81	KOPF „12U“	1
2030104	32	TEFLON-KOLBENRING	1	2030004	82	SCHRAUBE SPLINT KOPF „U“	1
0000035	33	O-RING	1	0000050	83	MUTTER	1
2030047	34	FEDER	1	0000051	84	POSITIONIERER KUGEL	1
0000036	35	NOCKEN	1	2030112	85	HALTERUNG FEDER KOLBEN	1
0000010	36	KUGEL	1	0000058	86	FEDER KOLBEN	1
0000037	37	SCHEIBE	1	2030110	87	KOLBEN	1
2030081	38	FEDER	1	2041200	88	ADAPTER 41200	2
0000038	39	O-RING	1	0000054	89	KUNSTSTOFFSCHUTZ	2
2030041	40	KÖRPER ENTLASTUNGSVENTIL	1				
0000039	41	O-RING	1				
2030039	42	KOPF ENTLASTUNGSVENTIL	1				
2030020	43	DECKEL ENTLASTUNGSVENTIL	1				
2030109/1	44	NOCKEN	1				
2030109/2	45	BUCHSE KOPF HEBEL	1				
2030049	46	KÖRPER RÜCKSCHLAGVENTIL	2				
2030050	47	FEDER	2				
0000040	48	KUGEL	2				
0000041	49	SCHEIBE	1				
E1-2030E	50	FILTER	1				

EXPLOSIONSZEICHNUNG Art. 215946

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CE Erklärung