

# Elpress Mini

GB Instruction for use



PVL130L



PVL130P



PVL350



**ELPRESS®**

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## Symbols



### Safety warnings

*In order to avoid human injury and environmental damage, do not disregard these instructions. After this symbol there is often a symbol which explains the warning.*



### Operational warnings

*To avoid damaging the pump unit, do not disregard them*

# 1 Introduction



*Read these instructions for use carefully before starting to use the tool.*

This tool shall only be used for crimping of Elpress' terminals for electrical conductors with Elpress' matched tool accessories.

Crimping with this tool must only be performed by operators trained in its use and who have good knowledge about crimping and the risks that are involved.

These instructions for use have to be observed during the entire life span of the tool. The tool owner has to ensure

- the availability of the instructions for use for the operator and
- that the operator has read and understood the instructions for use

## 2 Labels

On one side of the tool there is a label showing the product name, the manufacturer and the company logo. Near the battery you find the serial number.

## 3 Tool description

The crimp tools PVL130P, PVL130L and PVL350 are handheld, battery powered crimp tools.

PVL130P has parallel crimp action resulting in very clean crimps in more demanding applications. Crimp force is approx. 13 kN.

PVL130L has parallel crimp action with exchangeable dies for primarily hexagonal crimp. The crimp head is slim and made for transformer applications. Crimp force is approx. 13kN

PVL350 has parallel crimp action with exchangeable dies for primarily hexagonal crimps. The dies are held by latches to take the higher crimp force, approx. 35 kN.

Note the following important details of the tool:



- 1 Trigger to actuate the crimp cycle
- 2 Button to open the crimping dies in case of an error or emergency
- 3 Crimp head
- 4 Battery, rechargeable Li-Ion (12 V MAX, 2 Ah)
- 5 Button to unlock the battery
- 6 Latch to open the crimp head
- 7 Light diode, LED

### 3.1 Brief description of the important features of the tool

- The hydraulic unit incorporates an automatic retraction which returns the piston into its starting position when the maximum force is reached.
- The tool is equipped with a special brake which stops the forward motion of the piston/dies when the trigger is released.
- PVL130P and L have a crimp force of approx. 13 kN (1,3 ton) and PVL350 approx. 35 kN (3,5 ton)
- The crimping head can be smoothly turned by 300° around its longitudinal axis in order to gain better access to tight corners and other difficult working areas.
- The tool has a very light weight and provides a good handling through an ergonomic design.

## 3.2 Crimp dies

The following crimp dies can be used with the different MINI-tools

| Area mm <sup>2</sup>          | Type of terminal (connector)                     | Dies for PVL130P | Dies for PVL130L | Dies for PVL350 | No of crimps |
|-------------------------------|--|------------------|------------------|-----------------|--------------|
| 0,5-6                         | Pre-insulated terminals                          | SA0760           | -                | -               | 1            |
| 0,5-6                         | Un-insulated terminal with open neck (U-shape)   | RB0560           | -                | -               | 1            |
| 4-10                          | Un-insulated terminal with closed neck (O-shape) | WB4099           | -                | -               | 1            |
| 0,25-2,5                      | Un-insulated terminal with indent crimp          | KB0325           | -                | -               | 1            |
| End terminal (ferrules)       |  |                  |                  |                 |              |
| 0,5-6                         |  | EB0560           | -                | -               | 1            |
| 4-10                          |  | EB4010           | -                | -               | 1            |
| 10-25                         |  | EB1025           | -                | -               | 1            |
| 35-50                         |  | EB3550           | -                | -               | 1            |
| Tube terminals and connectors |  |                  |                  |                 |              |
| 10                            | KR10-xx/KS10-xx                                  | -                | -                | MB8             | 1            |
| 16                            | KRF16-xx/KSF16-xx                                | -                | -                | MB9             | 1            |
| 25                            | KRF25-xx/KSF25-xx                                | -                | -                | MB11            | 2            |
| 35                            | KRF35-xx/KSF35-xx                                | -                | -                | MB13            | 2            |
| 50                            | KRF50-xx/KSF50-xx                                | -                | -                | MB14.5          | 2            |
| 70                            | KRF70-xx/KSF70-xx                                | -                | -                | MB17            | 3            |
| 10                            | KR10-xx/KS10-xx                                  | -                | -                | MB8             | 1            |
| 16                            | KRD16-xx/KSD16-xx                                | -                | -                | MB8             | 1            |
| 25                            | KRD25-xx/KSD25-xx                                | -                | -                | MB9             | 1            |
| 35                            | KRD35-xx/KSD35-xx                                | -                | -                | MB11            | 2            |
| 50                            | KRD50-xx/KSD50-xx                                | -                | -                | MB12            | 2            |
| 70                            | KRD70-xx/KSD70-xx                                | -                | -                | MB14            | 3            |
| 95                            | KRD95-xx/KSD95-xx                                | -                | -                | MB17            | 3            |
| 10                            | KR10-xx/KS10-xx                                  | -                | -                | MB7             | 1            |
| 16                            | KRT16-xx/KST16-xx                                | -                | -                | MB8.5           | 1            |
| 25                            | KRT25-xx/KST25-xx                                | -                | -                | MB10            | 2            |
| 35                            | KRT35-xx/KST35-xx                                | -                | -                | MB12            | 2            |
| 50                            | KRT50-xx/KST50-xx                                | -                | -                | MB14            | 3            |
| 70                            | KRT70-xx/KST70-xx                                | -                | -                | MB16            | 3            |
| 6-16                          | CUT-connectors                                   |                  |                  | MB4016          | 1            |
| 4-10                          | KR/KS terminals                                  |                  |                  | MB4016          | 1            |
| Transformer tapchanger        |  |                  |                  |                 |              |
|                               | Size Ø 5 mm                                      | -                | LB5              | -               | 1            |
|                               | Size Ø 7 mm                                      | -                | LB7              | -               | 1            |

## 4 Working with tool

Pay attention to applicable instructions regarding work on electrical appliances before starting any work.

Make sure that the dies in the tool is right for the crimping that you are going to do. If you are unsure – contact your supplier.

The crimp-head's fork is opened on the PVL350 by pushing the latch (6).

Make sure that the dies fit in the application and that they are in right position.

At PVL130P the dies are fixed by screws. The reason for this is that the dies should not be used for frequently re-changing. When re-changing the dies, you loosen the screws and put in the new dies in the fork. **OBSERVE** that the biggest crimp gap shall be placed in the bottom of the fork. Crimp the dies easily against each other with the trigger (1) and fastening the screws. The crimping procedure starts with pressing the trigger (1) and it is recommended to first make a light pressure on the trigger to position the connector right in the tool and make sure that the cable is fully placed in the connector. After this the crimp procedure continues so that the tool automatically is returned to its starting position.



### *Important*

- The crimp procedure can be interrupt at any moment by releasing the trigger bottom (1).
- The crimping dies can be returned to its starting position at any moment by pressing the reset bottom (2).
- The crimping has achieved its highest power when the dies are returned automatically. This is the normal way of working and ensures that the crimping is totally performed.
- Use dies in accordance with table 3.2 above. If you wish to use other dies - you must contact the supplier first.
- The MINI-tools is constructed to be handheld. Do not put the tool in a screw vice or likely – this can hurt inner parts of the tool.
- The MINI-tools shall not be used in continuously work. It can give overheating damages of the tool.
- Electric motors in use can create sparks that can ignite explosive fluids and materials. Do not use the MINI-tools in explosive environments.
- Do not use the MINI-tools in rain and wet environments.

## 4.1 Service and maintenance

The MINI-tool shall be cleaned and dried after use. The axle for the fork in the PVL350 and PVL130L shall be lubricated regular.

We recommend that the tool is send to an Elpress authorized service centre or Elpress service department for service one time per year or more often if the tool is used more than normal.

The only thing that the user can change is the die- and battery.

Do not damage the tools sealing, the guarantee is then no longer valid.

Service must be performed by Elpress Service department or an Elpress Authorized Service center. Service interval 10000 cycles.

## 4.2 Battery and charger

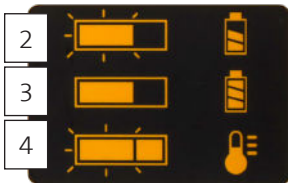


The battery charger is run with a nominal voltage of 230 VAC (50Hz).

New batteries must be charged before use. The battery is loosening with the button (5), see page 4. Charging time is approx. 90 min.

The charging level of the battery can be checked by the Light Emitting Diode, LED (1) on the charger.

- 2 Charging.
- 3 The battery is fully charged.
- 4 The battery is too hot or too cold.



Note! Remove the battery from the charging unit when not connected to the mains. The battery could otherwise be destroyed by deep discharge.

Charge at 5 – 40 °C.

If the battery has been used or it has been in the sun so that it is hot (>65°C) the right LED can start to flash red. Take out the battery from the charger and let it cool down. Charging can not be performed under 5 °C. Do not leave or operate the charger in rain or snow and do not charge in explosive environments.



No other types of batteries can be used in the MINI-tools.

### 4.3 The light diode display

This tool is equipped with a special circuit board incorporating several important features to inform the user about the current status of the unit. The LED (Pos.-No. 7) signals in the following cases:



|   |        |       |       |
|---|--------|-------|-------|
| ① | 2 x    | — —   |       |
| ② | 20 sec | ————  |       |
| ③ | 20 sec | ..... |       |
| ④ | 20 sec | ..... | ..... |
| ⑤ | 3 x    | - - - | - - - |
| ⑥ | 3 x    | - - - | - - - |

When: After inserting the battery

Why: Self check

When: After working cycle

Why: Low battery level

When: After working cycle

Why: Time for service

When: After working cycle

Why: Tool or battery too hot

When: After interruption

Why: Error: Manual interruption of the crimp

When: After working cycle

Why: Error: Automatic opening of the tool due to exceeding the crimp force

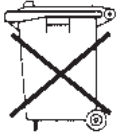
## 5 Trouble shooting

- A. **The tool leaks oil;** return the tool to Elpress service. Do not open the tool - no action can be done without special equipment and competence.
- B. **The tool does not reach the required working force;** stop the crimping process. Press the reset button (2) and trigger simultaneously (button 1) for about 10 seconds. If the malfunction still exists, return the tool to Elpress service.



## 6 Waste and scrap

After a long and intensive use a high quality tool also needs to be scrapped. If this shall be performed by the user, different components must be treated in different ways.




- The hydraulic oil represents a danger for the subsoil water. It shall be disposal to a professional company.
- The Li-Ion battery must be disposed of according to the guidelines for disposal of dead batteries. They must be disposal through professional companies (EEC battery guidelines).
- For disposal of the remaining parts please observe applicable laws and recommendations.

The tool can always be sent back to the supplier.



## 7 Technical data

| Type                                   | PV130P   | PV130L   | PV350    |
|--|----------|----------|----------|
| Weight of the tool (incl. battery), kg | 1.5      | 1.5      | 1.6      |
| Crimping time, s                       | 2        | 2        | 3-4      |
| Crimping force, kN                     | 13       | 13       | 35       |
| Battery voltage, V                     | 12       | 12       | 12       |
| Battery capacity, Ah                   | 2        | 2        | 2        |
| Charge time                            | 90 min   | 90 min   | 90 min.  |
| Working temp., °C                      | -10 + 40 | -10 + 40 | -10 + 40 |

## 8 Declarations of conformity

|   |  |  |                                       |  |                                      |
|---|--|--|---------------------------------------|--|--------------------------------------|
|    | <b>ELPRESS</b>   | Dokument.nr<br>Document No<br><b>0901-015100</b> | Ändr.nr.<br>Change No<br><b>19348</b> | Datum<br>Date<br><b>17-01-27</b>                       | Sida<br>Page<br><b>1 (2)</b>         |
| <b>ELPRESS</b>  | Produkt<br>Product<br><b>Elpress Mini PVL130P, PVL130L,<br/>Elpress Mini PVL130S, PVL350</b> |  |                                       | Godkänd av<br>Approved by<br><i>Johannes Bålhammar</i> | Upprättad av<br>Made by<br><b>KS</b> |
| <p style="text-align: center;">             ÖVERENSSTÄMMELSEDEKLARATION<br/>             KONFORMITETSERKLÆRING<br/>             KONFORMITETSERKLÆRING<br/>             TODISTUS SLANDARDINMUKAISUUDESTA<br/>             DECLARATION OF CONFORMITY<br/>             KONFORMITÄT SERKLÄRUNG<br/>             KONFORMITEITSVERKLARING<br/>             DÉCLARATION DE CONFORMITÉ<br/>             DECLARACIÓN DE CONFORMIDAD<br/>             DECLARAÇÃO DE CONFIRMADADE<br/>             DICHIARAZIONE DI CONFORMITÀ         </p> <p>             Tillverkare/Producent/Produsent/Valmistaja/Manufacturer/Hersteller/<br/>             Producent/Fabricant/Costruttore/Fabricante/Fabricante         </p> <p> <b>ELPRESS AB</b><br/>             P.O. Box 186<br/>             SE-872 24 KRAMFORS         </p> <p>             Tel +46 612 71 71 00<br/>             Fax +46 612 71 71 51<br/>             Kramfors 2017-01-27         </p> <p> <i>Johannes Bålhammar</i><br/>             .....<br/>             Johannes Bålhammar<br/>             Technical manager         </p> |  |  |                                       |  |                                      |

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|   |  |  |  |  |  |
|---|--|--|--|--|--|
|  | <b>ELPRESS</b>   | <b>Dokument.nr</b><br><b>Document No</b><br><b>0901-015100</b> | <b>Ändr.nr.</b><br><b>Change No</b><br><b>19348</b>  | <b>Datum</b><br><b>Date</b><br><b>17-01-27</b>     | <b>Sida</b><br><b>Page</b><br><b>2 (2)</b> |
|   | <b>Produkt</b><br><b>Product</b><br><b>Elpress Mini</b><br><b>Elpress Mini</b> | <b>PVL130P, PVL130L,</b><br><b>PVL130S, PVL350</b>             | <b>Godkänd av</b><br><b>Approved by</b><br> | <b>Upprättad av</b><br><b>Made by</b><br><b>KS</b> |  |

**ELPRESS AB**

Försäkrar att/Assure that: **Elpress Mini**

Typ/Type: **PVL130P, PVL130S, PVL130L, PVL350**

Vi förklarar på eget ansvar att denna produkt överensstämmer med följande normer eller normativa dokument:  
 EN 60745-1, EN ISO 12100, EN ISO 13857, EN 349, EN 60204-1, EN 28662-1, EN 61000-6-3, EN 61000-6-2, EN 60529, EN 1037 enligt bestämmelserna i direktiverna 2006/42/EG, 2014/30/EU, 2011/65/EU.

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