

EPZ 300

Battery-powered pressing machine

Operating instruction 05/2012





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1 Safety

1.1 Designated application

The electro-hydraulic machine is exclusively used for the designated application.

The tool is only suitable for manual operation and after a series of approx. 40 - 50 cycles, it must be allowed to cool down for about 10 minutes.

Please take the rules and regulations of those countries in which the machine is to be used, as well as the information in the operating instructions, into account, so that the tool may be used correctly and safely.

For reason of safety, the battery-powered machine may only be serviced by authorised specialist workshops. Any unauthorised modifications or the opening of the tool by the user will lead to a loss of the product liability.

1.2 Safety instructions

Explanation of the Symbol



Risk of injury and crushing



Service



Reset



Specialist disposal



Read operating instructions

1.3 Dangers

All persons that work with this tool or carry out servicing on it must be appropriately instructed in their work and must read, observe, and understand the operating instructions.

Non-observance of these instructions or faults caused by unqualified staff may lead to damage to health, incorrect tool usage and damage to the property of others or to the tool.

1.4 Sources of danger

The battery-powered machine itself has a voltage of 14.4 Volts, and the charger is operated on 230 Volts, 50 Hz. Since the battery-powered machine operated with a high pressure, parts of the body must not be allowed to come into the area of the head or the tools.

The tool

- must not be cleaned when wet
- may only operated using a type of battery that is permitted (JB 14,4V)
- must not be used in surroundings where there is a risk of explosion
- must be protected against heat, water, damp and corrosive surroundings.
- must be treated carefully
- must not be thrown

The power cable of the charger must not be used for pulling out the plug and must be protected against corrosive liquids, oils, and sharp objects.

1.5 In Case of an Emergency/Protective devices

In an emergency or in case of an injury, the tool will automatically stop when the operating switch is released. When the emergency push button at the side is depressed, the pressure on the hydraulic cylinder is released.

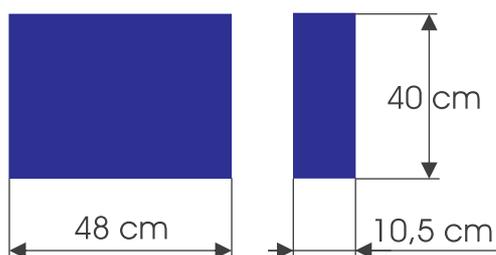
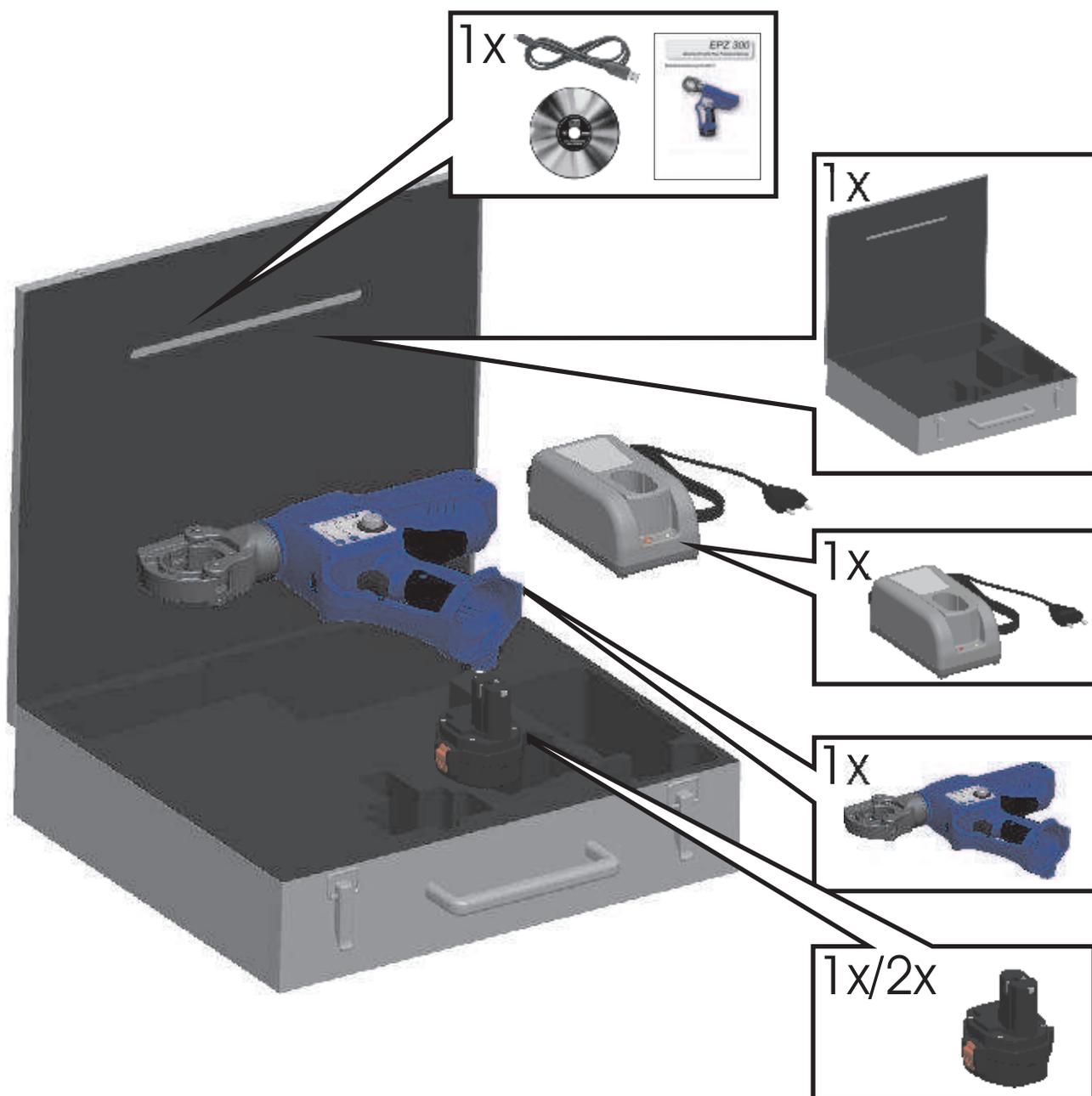
The front protective frame at the handle will protect the hand at the front part of the tool.

The typical A-weighted noise level averages not more than 70dB (A). The noise level can overtravel 85 dB (A) during the working process - **wear ear protection and protection glasses** -

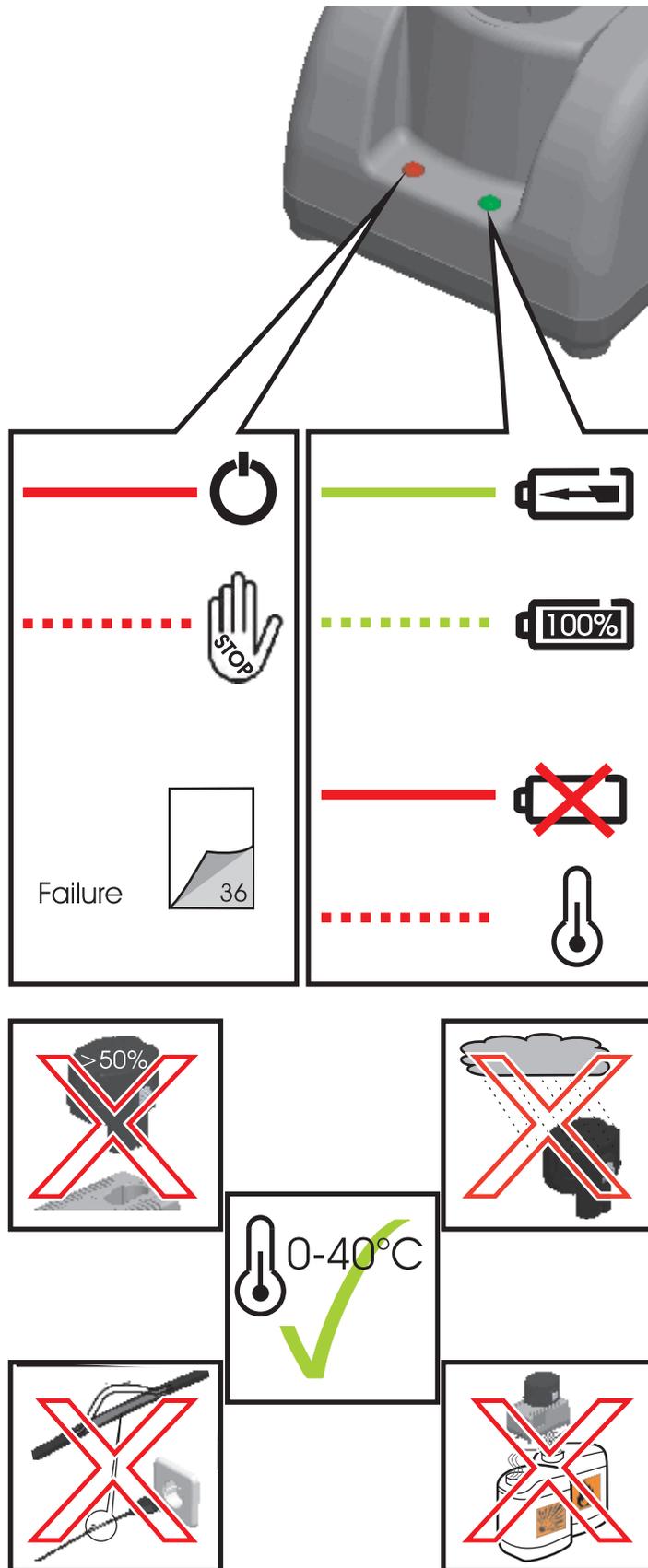
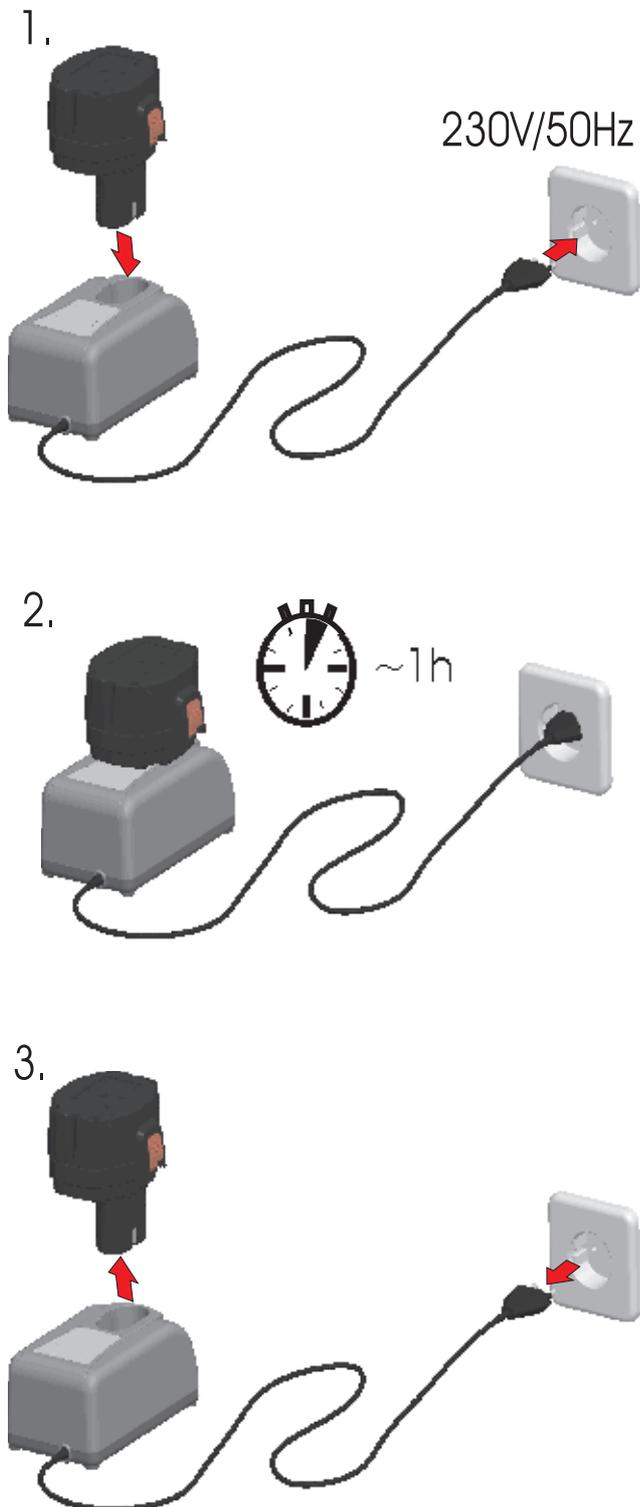
The weighted effective value of the acceleration averages not more than 2,5 m/s²



2 Scope of delivery



3 Charging the accumulator



4 Installation instructions of the USB hardware

When the Analysis Software will be used the first time please install in the first step the USB-driver for the kind of tool you are using.

The installation will be explained by Windows XP, for Windows 2000 it may be different.

There is no additional driver needed because its already existing in system Windows 2000.

1. Connect the tool by using the Mini-USB-Cable from the accessories with your computer. The Mini-USB-Socket ist located in front of the tool under the black protection cap.

1.1 Remove protection cap

1.2 Connect mini-USB-cable



Connection of mini-USB-cable to tool

2. The new hardware will be registered automatically, Follow the advices on your screen.



Automatic registration of hardware in Windows XP

3. Choose „Yes, this time only“ and click „Next“.



Driver installation under Windows XP

4. Choose „Install the software automatically“ and click „Next“.



Logo-Test under Windows XP

5. Windows warning for logo-test has to be ignored. Click „Continue Anyway“.



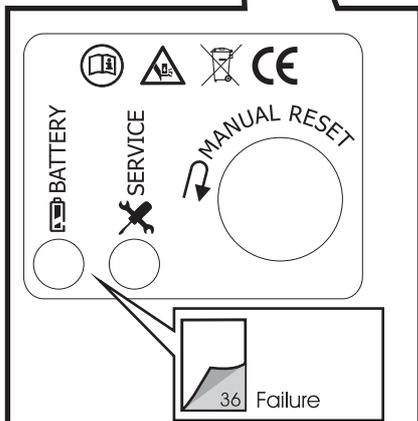
Successful installation in Windows XP

6. Click „Finish“.

The Programm can now be started by using the CD-Rom or by copying the complete data file „Analysis-Software“ on your computer and double click on AS-Vx_x.exe



5 Important notes / Tool preparation



Remove battery!

Unhook the blockage hook (Pos. 2) and open the head (Pos. 1) of the compression tool. Place the dies in the head of the tool one at a time, making sure they are correctly placed in their seat. Next, insert the connector and close the head of the tool.

6 Interrupting the pressing cycle

1.



The crimping operation is carried out automatically on pressing the black push button on the handle.

The operation can be interrupted

1. during the initial phase by releasing the black push button

2. at any time by firmly pressing of the silver push button

Having interrupted the crimping operation, the connection can be pressed once again if form and position of the Pressfitting connection part engaged have not been changed, especially in radial direction.

2.

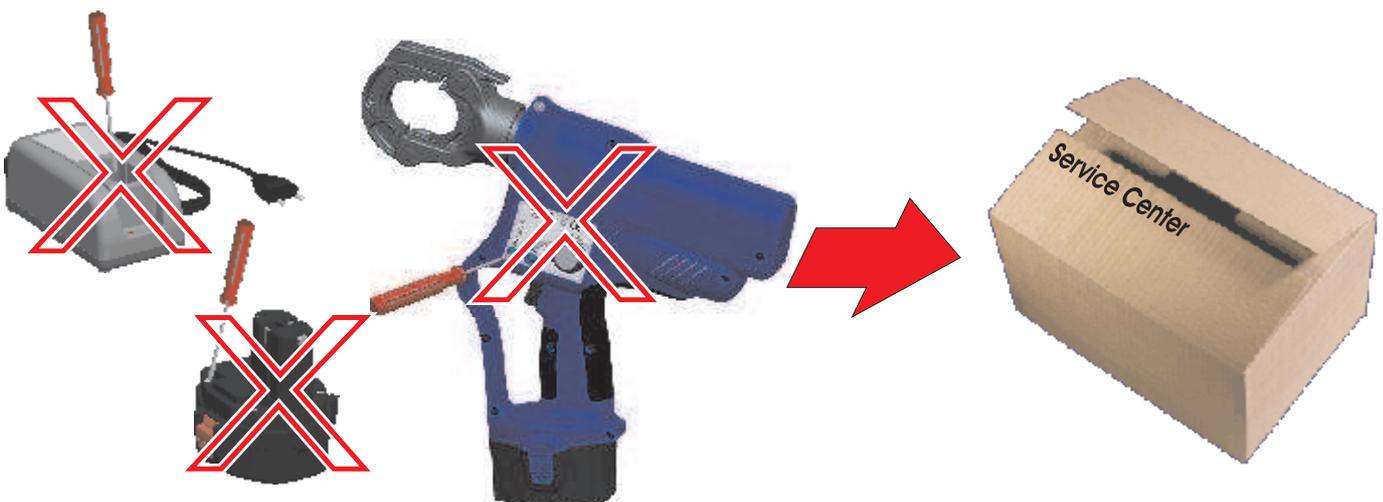
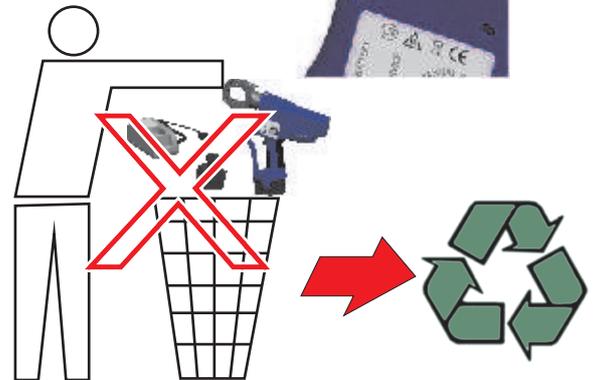


7 Maintenance/Care/Disposal



When the device has not been used for a longer period carry out maintenance and care acc. to chap. 7 before using it again.

Check the function



8 Troubleshooting

Press jaws

Failure	Reasons/Trouble shooting
<p>after pressing cycle</p> <ul style="list-style-type: none"> — green - - - - - green/red - - - - - red — red - - - - - orange — orange <p>after insert the battery</p> <ul style="list-style-type: none"> — green - - - - - orange — orange 	<p> SERVICE</p> <p>Operating data OK Operating data OK and service interval exceeded / Service needed Operating data BORDERLINE / Please contact service center Operating data FALSE / Service needed Memory card failure / Service demanded Temperature failure / Tool has to be heated up or cooled down</p> <p>No failure Memory card failure / Service demanded Temperature failure / Tool has to be heated up or cooled down</p>

The failure reports can be downloaded by using the Analysis Software. Please send the data file with failure status to your certified Service Center.

The tool will be shut off when Service LED is permanent shining red or orange. After changing the battery, the working process can be started again.



Failure	Reasons/Trouble shooting
<p>after pressing cycle</p> <ul style="list-style-type: none"> off - - - - - red — red <p>after inserting the battery</p> <ul style="list-style-type: none"> — green — red 	<p> BATTERY</p> <p>No malfunction Charge/change battery (approx. 10% capacity) Battery flat</p> <p>No malfunction Charge/change battery</p>

Charger

Failure	Reasons/Trouble shooting
<p>LED left-hand, red</p> <ul style="list-style-type: none"> — red - - - - - red <p>LED right-hand</p> <ul style="list-style-type: none"> — green - - - - - green — red - - - - - red off 	<p>Charger connected, ready for operation Battery is defective</p> <p>Charging started Battery is fully charged Battery is defective Battery is too hot or too cold Battery polarity reversed or the battery circuit is open</p>



9 Declaration of conformity

We,

Company: ERKO SP.J.

Adress: ul. Hanowskiego 7, 11-042 Jonkowo

declare at our own responsibility that the following product:

Battery-powered pressing machine - APE6-22

to which this declaration refers, complies with the following standards or other standardizing documents:

DIN EN 60745-1, DIN EN 12100 Teil 1 und Teil 2, EN 249, EN 349, EN 60204-1, EN 28662-1, EN 50081-1, EN 50082-2 / VDE 0839-6-2, EN 60529 / VDE 0470-1, EN 50260-2-1, EN 55014

according to the regulations of the following european guidelines:

98/37/EWG, 89/336/EWG, 73/23/EWG

(Place, Date)

(Name, Signature, Company stamp)

Guarantee/ Repair

The company ERKO grants a warranty of 2 years or 10,000 cycles if the tool is operated to its appropriate use and the regular maintenance services are observed.

The regular maintenance service at an authorized service centre after 10,000 cycles, not later than 10,500 cycles, is subject and mandatory to grant the 2 years warranty.

A flashing Service LED on the tool refers the scheduled maintenance at 10,000 cycles.

The unit should be cleaned after each use and dry stored. Both battery and charger must be protected against moisture and foreign matter. Check carefully the functionality and intactness of the unit and the movable parts.

The 2 year warranty starts with the date of the 25th pressing/ crimping cycle and lasts max. 30 month from date of delivery ex company Joiner`s Bench GmbH Remscheid. If necessary this has to be proven by means of the sales documents. The guarantee includes the removal of all appearing damages or defects of the unit which are due as given material and manufacturing defects at the time of the delivery.

Not covered by the warranty:

- Damage/-s caused by improper use and/ or inadequate maintenance.
- Damage/-s caused by crimping/ pressing of unsuitable (not approved) connection materials and accessories.

Wearing parts are not covered in the scope of the warranty!

Service and parts under warranty are free of charge. The user bears the outbound costs

Claims can only be accepted if the tool is sent unopened(undamaged sealing) to an authorized service centre(ASC)

The warranty does not apply for unauthorized opened (damaged sealing) tool/ unit/ device.

10 Technical data

General

Operation temperature range	-20°C - +40°C
Weight	approx. 4,15 kg
Conformity	CE

Accumulator crimping tool

Crimping time	3 at 6 s (depending on ND)
Crimping force	60 kN
Hydraulic oil	abt. 65 ml Shell Tellus T15
Max. stroke	17 mm

Accumulator

Capacity of Accumulator	2,6 Ah
Mains voltage of accumulator	14,4 V (DC)
Charging time of accumulator	abt. 45 min.

Battery charger

Mains voltage	230 V, 50 Hz
Connecting lead, length	2 m

Max. range of application e.g.:

Hexagon crimping dies for tubular cable lugs	300 mm ²
Hexagon crimping dies according to DIN 48083 Cu	240 mm ²
Hexagon crimping dies according to DIN 48083 Al	240 mm ²
Trapezoid crimping dies for wire end ferrules	150 mm ²



- + Fast feed by double piston hydraulics
- + Automatic pressure control
- + Quick stop
- + Motor stop and automatic retraction when crimping is complete
- + Electronic control and monitoring of the crimping operation
- + Manual retraction
- + Multifunction electronics with sleep mode for maintenance indicator and battery control
- + Connectable by mini USB interface to all usual PC systems for service and control purposes

(PL) Niniejszy produkt spełnia wymagania Dyrektywy Europejskiej 2002/96/EC. Symbol przekreślonego kosza na narzędziu oznacza konieczność utylizacji w punkcie zbiórki elektrośmieci lub zwrotu produktu sprzedawcy przy zakupie podobnego produktu. Odpowiedzialność za prawidłową utylizację produktu spoczywa na nabywcy. Zużyte urządzenie zutilizowane poprawnie może zostać poddane recyklingowi, co pozwala uniknąć negatywnego wpływu na środowisko i zdrowie i jest wkładem na rzecz recyklingu materiałów składowych produktu. W celu informacji dotyczącej selektywnej zbiórki odpadów należy skontaktować się z lokalną instytucją zajmującą się selektywną zbiórką odpadów lub zwrócić urządzenie sprzedawcy.

(RUS) Данный продукт соответствует требованиям директивы ЕС 2002/96/ЕС. Символ перечеркнутой корзины на инструменте обозначает необходимость специальной утилизации в пункте приема электронных отходов или при покупке подобного продукта. Ответственность за правильную утилизацию продукта лежит на покупателе. Утилизированные продукты могут быть переработаны во время правильной утилизации, что позволит избежать негативного воздействия на окружающую среду и здоровье и является вкладом в утилизацию компонентов продукта. Для получения информации о селективной сборке отходов, пожалуйста, свяжитесь с вашим местным учреждением, занимающимся селективной сборкой отходов. Инструмент можно также вернуть продавцу.

(GB) This product complies with EU Directive 2002/96/EC The crossed bin symbol on the appliance indicates that the product, at the end of its life, must be disposed of separately from domestic waste, either by taking it to a separate waste disposal site for electric and electronic appliances or by returning it to your dealer when you buy another similar appliance. The user is responsible for taking the appliance to a special waste disposal site at the end of its life. If the disused appliance is collected correctly as separate waste, it can be recycled, treated and disposed of ecologically; this avoids a negative impact on both the environment and health, and contributes towards the recycling of the product's materials. For further information regarding the waste disposal services available, contact your local waste disposal agency or the shop where you bought the appliance.

