

Vetec SPM24

Battery powered hydraulic pressing tool



Please read this instruction manual carefully before you use our product. If you have any doubt or problem, contact our Servicecenter.
(Informations are on the last cover page)

Index

1.	Technical data	4
2.	Definition of components	4
3.	Accessories supplied with the basic unit	5
4.	Description of signs and symbols	6
5.	General indications	6
6.	Application and use not in conformity with the intended purpose	6
7.	Precautions in using the equipment	7
8.	Storage and transportation	8
9.	Start up of the equipment	8
10.	Instructions for the use of the power pack and battery charger	9
11.	Application ranges	10
12.	Insertion of pressing jaws	10
13.	Work process pressing	11
14.	Maintenance instructions	11
15.	Technical and Functional Features	12
16.	Instructions for installation of software	12
16.1	System requirements	12
16.2	Plug & Play	12
17.	What to do in case of breakdown	13
17.1	Error codes Service	13
17.2	Error codes battery	13
17.3	Error codes battery charger	13
18.	Extraordinary maintenance/disposal	14
19.	Guarantee	15
20.	Guarantee/Repair	15

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1. Technical data

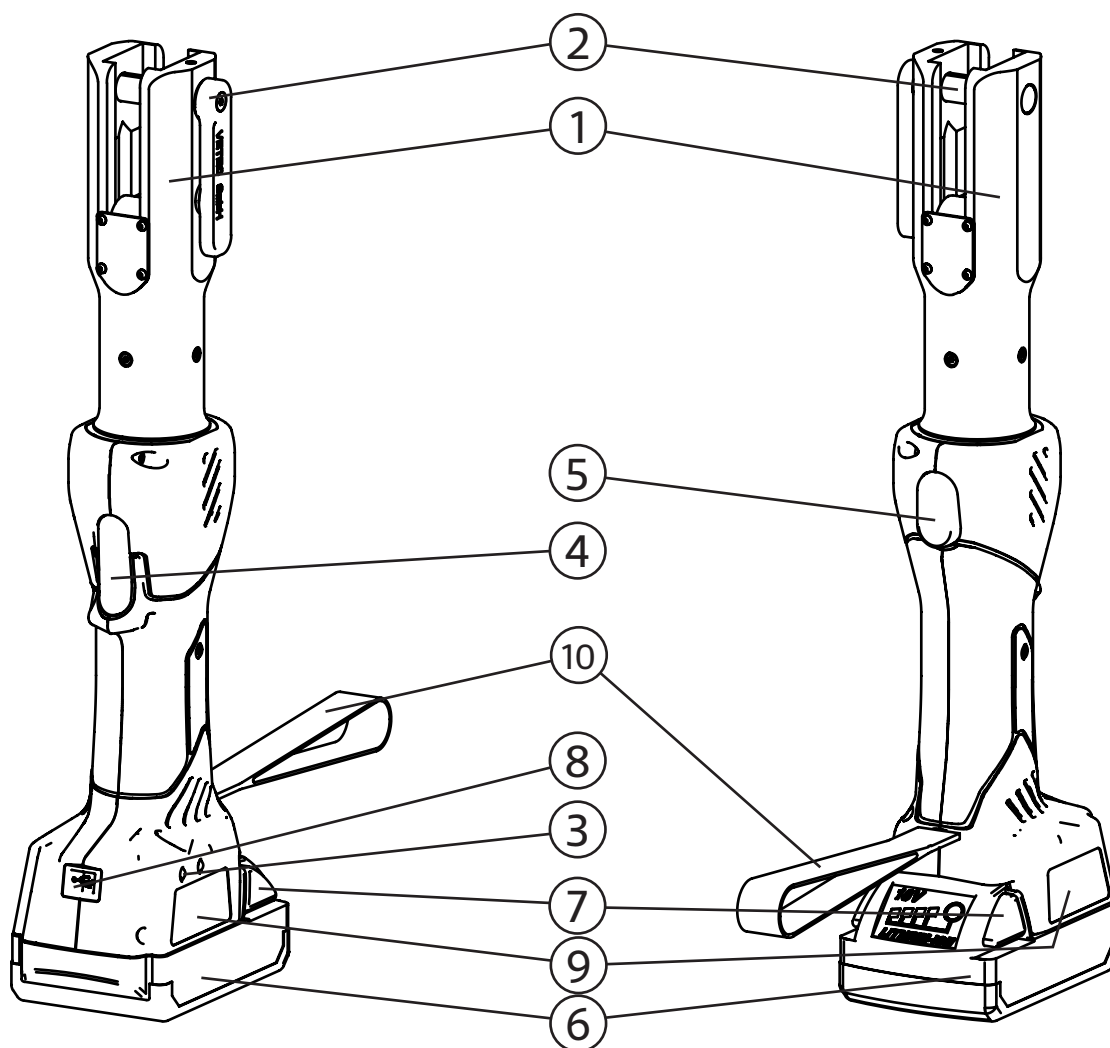
Shearing force:	24 kN
Max. Lift:	30 mm
Battery voltage:	18 V DC
Motor:	with permanent magnets in continuous current
Battery capacity:	1,5 Ah (optionally 3,0 Ah)
Time of pressing cycle	approx. 3-4 sec.
Type of battery:	Li-Ion (without memory effect)
Charging tim:	approx. 30 min.
Noise level:	75 dB (A) at a distance of 1 m
Acceleration:	< 2,5 m/s ² (effective weighted value of acceleration)
Hydraulic oil:	Typ „Shell-Naturelle HF-E 15“
Operating temperature:	from -10 °C to +40 °C
Dimensions basic unit:	approx. 371 x 100 x 74 mm (without power pack)
Mass basic unit:	approx. 1,8 kg (without power pack)

2. Definition of components

Item	Definition	Item	Definition
[1]	Tool holder	[6]	Power pack
[2]	Location bold	[7]	Battery lock-out release
[3]	LED operating indicator lights	[8]	USB Interface
[4]	Start/Stop	[9]	Name of model & technical data
[5]	Reset key	[10]	Loop



Caution: The mechanical return switch allows the operator to restore the tool to the starting position in emergency cases and thus to remove the pressure from the compression head.



3. Accessories supplied with the basic unit

Item Definition

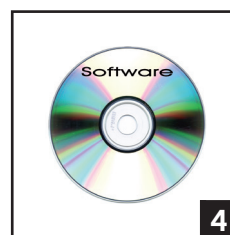
[1] Power pack

[2] Battery charger

[3] USB 2.0 cable with 5 pole mini type connectors: A plug and B socket

[4] CD-ROM

[5] Optionally Cotton bag



4. Description of signs and symbols



Danger: This indicates a warning; lack of observance may lead to injury or death.



Paragraphs: Product safety information.



Caution/Important: This indicates a warning; not following this warning may lead to damage of the equipment or materials.



Operation and maintenance: Advice and indications in order to maintain the product's value.



Information: Useful information for the correct usage of this product.



Read the instruction manual before usage



Wear goggles



Caution!
Danger of squeezing

5. General indications



The manufacturer is not responsible for damage to persons or property caused by non-observance of the instructions.

This device must be used exclusively for its intended use. This product may be used only by personnel who have received training.

The instruction manual must be carried with the machine for its entire life period.

The user is required to:

- make the instruction manual available to operators
- ensure that the operator has read and understood the instructions


















For all legal intents and purposes this instruction manual is valid.

6. Application and use not in conformity with the intended purpose

The electro-hydraulic press tool SPM24 is exclusively used for the production of a permanent connection between tubes and press fittings in all usual types of material, such as PE-X-, multilayer composite and metal systems. The tool is only suitable for manual operation and after a series of approx. 40–50 press cycles, it must be allowed to cool down for about 10 minutes. See table on page 10 for the corresponding range of application. The hydraulic powered compression tool may be used exclusively in environments with illumination of at least 400 lux, or in daylight.

7. Precautions in using the equipment

-  **Caution:** The non-observation of the safety instructions may create a situation of danger for the life and health of persons, or may cause material damage to the machine and the surrounding environment!
-  **Caution:** Never place fingers or other parts of the body into the working area of the pressing jaws!
-  **Caution:** Keep away from other persons. Keep unauthorised persons away from the working area while the battery-powered tool is operating!
-  **Caution:** Wear appropriate working attire, gloves and safety shoes!
-  **Caution:** Inspect the battery powered tool to make sure it has not been damaged. Place the machine in service only if it is free of defects!
-  **Caution:** If situations of danger for persons or for the machine occur during operation, stop the press tool by pressing the return button.
-  **Caution:** The battery powered tool SPM24 is not suitable for continuous operation.
-  **Caution:** Accessing the danger zone of the pressing tool is only permissible when the tool is completely opened and the battery removed.
-  **Caution:** Inspect the area of danger before turning the tool on. Only start the tool if no hazards result from it and if no person is in the danger zone of the pressing tool.
-  **Caution:** The battery may be removed when the hydraulic battery powered press tool has been shut down safely.
-  **Caution:** During work performed at heights the tool must be adequately protected from falling.
-  **Caution:** Before using the equipment, it is necessary to perform a visual inspection to ascertain the condition of the battery powered press tool. The equipment may not be used if it has been damaged.
-  **Caution:** Reverse movement is activated exclusively with the relative key. The mechanical release lever located on the equipment must be used in emergency situations.
-  **Caution:** Do not open the machine! All guarantee rights are forfeited if the seal is damaged. The equipment must not be operated without protective covering.
-  **Caution:** If the service light turns on the machine must be sent to the manufacturer. The customer is not authorised to perform maintenance, as this would entail loss of guarantee

and can cause situation of danger.



Caution: The typical A-weighted noise level can exceed 70dB (A) during the working process. – wear ear protection!



Caution: The equipment may be operated only with the original power packs.



Caution: The equipment must not be operated in explosive atmospheres.



Caution: Complete shutdown of the equipment takes place exclusively upon removal of the battery.



Caution: If oil leaks from the press tool, it must be sent to an authorised customer service department.



Caution: The press tool must not be operated in case of heavy rain or underwater.



Caution: Hydraulic oils are dangerous for ground water. Uncontrolled loss or disposal of hydraulic oils not in conformity with norms may be persecuted under environmental protection laws.



Caution: It must be demonstrated that the applied components withstand the temperatures that occur.

8. Storage and transportation

In order to protect the battery powered press tool SPM24 from possible damage it is necessary to clean it after every usage. After operation stow away the tool in the provided case/bag and make sure it is securely closed.

9. Start up of the equipment

Insert the battery and push until the safety switch clicks as shown in the illustration.

For safety reasons, the battery shall only then be inserted, when a corresponding pressing jaw is installed.

The press tool mustn't be operated without a pressing jaw.



10. Instructions for the use of the power pack and battery charger

The battery charger has dimensions for 230 V CA 50-60 Hz. The new batteries are provided partially charged and must be charged before the machine is used for the first time. In order to recharge the battery charger plug must be inserted in a wall socket and the power pack must be placed in the battery charger. A 1.5 Ah power pack can be recharged in approximately 30 minutes. The status of the charge for the power pack is indicated by the luminous diode on the battery charger.

Caution: When the power pack is not being used keep it away from paper clips, coins, keys, nails, screws and other small metal objects which could act as contact bridges. A short circuit between the battery contacts could cause combustion or fires.

Caution: Do not charge the power pack in the presence of easily inflammable gas or materials. After charging, remove the battery charger plug from the wall socket. Do not disassemble the battery charger.

Caution: If the power packs are stored for long periods of time, their charge status must be checked periodically. The optimum charge is between 50% and 80%. The power packs should be recharged every 12 months at most to avoid complete discharge which could cause damage.

Caution: Discharged power packs should not be stored for periods of more than one month to avoid their complete depletion which could destroy the battery.

Caution: Use only the battery charger advised by the manufacturer. The use of a battery charger suitable for a specific type of battery to recharge other batteries are a cause of danger of fire.

Caution: Use only the batteries foreseen for the purpose in the tools. The use of other batteries could cause injury and the danger of fire.

Caution: In case of incorrect usage liquid could leak from the battery. Avoid contact with the liquid. In case of contact with the skin wash with abundant water. Consult a physician if the liquid comes into contact with your eyes. Liquid that has leaked from the battery may cause irritation to the skin or burns.

The charge status can be read by pressing the relative button on the power pack. While doing so the battery may remain in the crimping tool which must be shut off beforehand, however, and remain shut off for at least one minute (otherwise the reading will be imprecise). The number of illuminated LEDs indicates the charge status. A flashing LED indicates a maximum power reserve of 10%. The purpose of this indication is only to determine whether there is a reserve of power and how much power the battery still has available.



11. Application ranges

Stainless steel, steel

max. DN 35*

Copper, copper alloys

max. DN 35*

Multilayer pipe

max. DN 40*

PEX-pipe

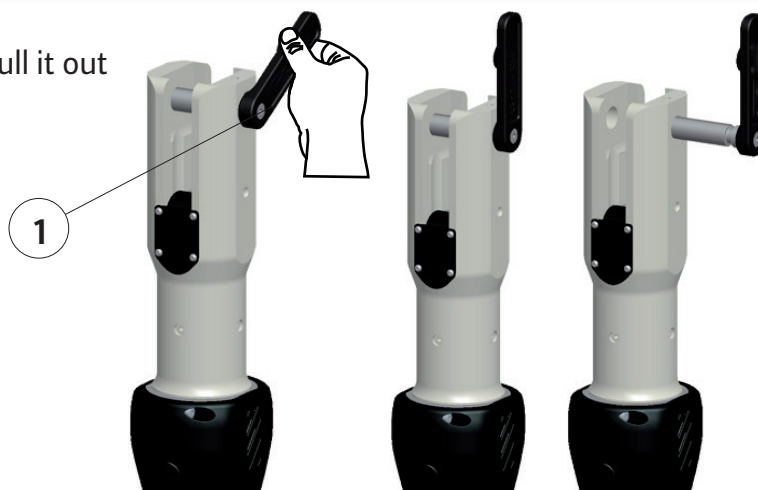
max. DN 40*

*Specifications/data are system-bound
For further information please contact your systems provider

12. Insertion of pressing jaws

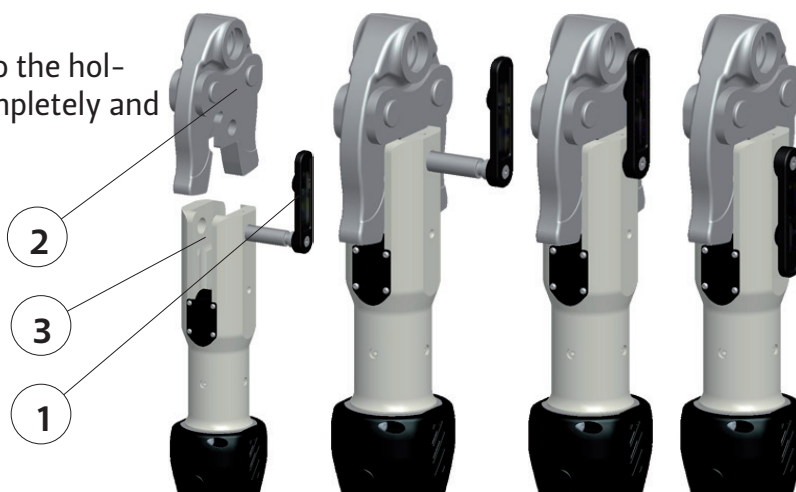
1

Open lever [1] by rotating it 180° and pull it out to the stop



2

Stick pressing jaws [2] centrally into the holding fixture [3], slide in lever [1] completely and close it by rotating it 180°.



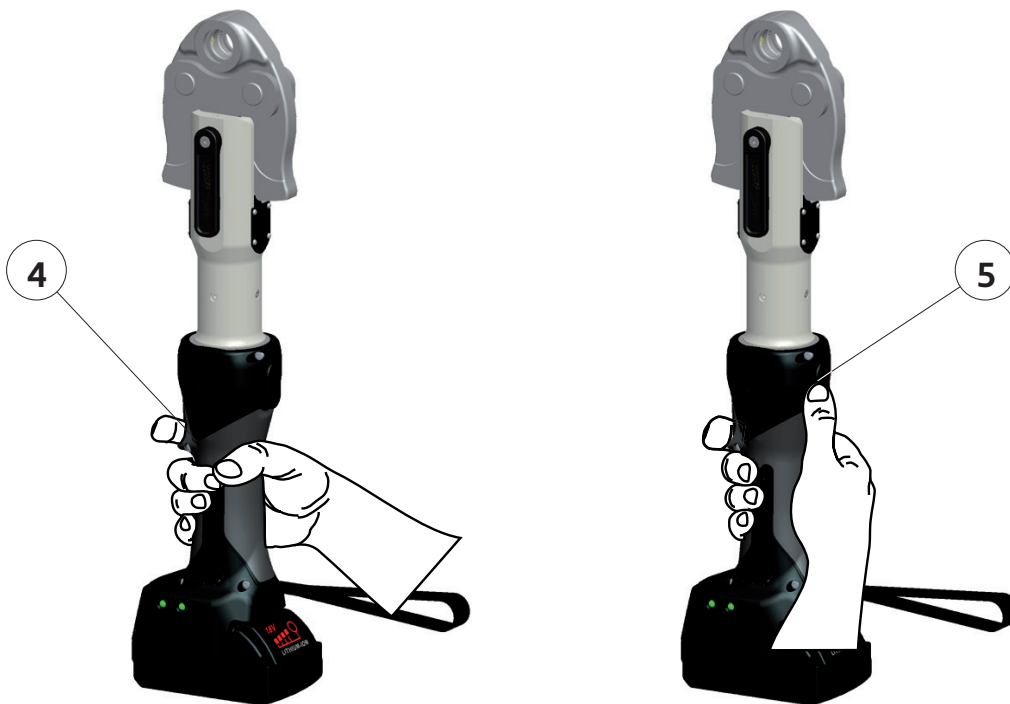
13. Work process pressing

The pressing process is carried out automatically on pressing the start/stop button [4] on the handle. The resulting connection is permanent and longitudinal force-locked.

The operation can be interrupted

1. during the **initial phase** by releasing the start/stop button [4]
2. **at any time** by pressing the reverse button [5]

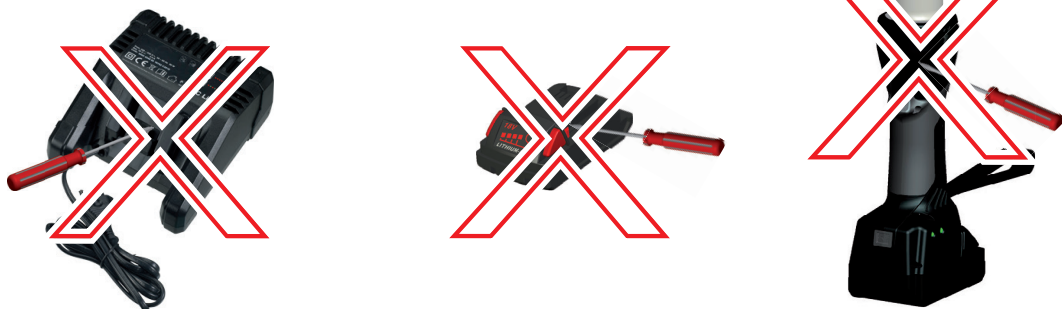
Having interrupted the pressing process, the connection can be pressed once again if form and position of the Pressfitting connection part engaged have not been changed, especially in radial direction.



14. Maintenance instructions

After usage crimping tool must be cleaned and stored in a dry place. The power pack and battery charger must be protected from humidity and foreign materials. Principally the equipment does not require maintenance.

After the previously set processes are completed it is necessary to take the crimping tool to the technical assistance service for inspection to guarantee perfect operation and increase the lifetime of the machine. The customer is not authorised to perform maintenance.



15. Technical and Functional Features

- The body of the pump and all components are made of high resistance materials and tested.
- The casing is entirely made of isolating, shock resistant polyamide, reinforced with fibreglass.
- The equipment has a light, compact and robust structure.
- The range of the operating temperature is between -10°C and $+40^{\circ}\text{C}$.
- The pressing power of the pump is 24kN.
- The safety valve of the system is adjusted to 27kN.
- The machine has a great reverse capacity for more rapid processes.
- The progress of compression can be shown on the PC (pressure and operating time).
- Control of the equipment is realised through a micro-controller.
- Pressure control is performed by an electronic pressure sensor.
- The charge of the power pack is constantly kept under control.
- Management of technical assistance is performed with an electronic system.
- The traceability of processes is ensured by automatic registration and saving in the machine memory.
- The data saved can be read and the software can be updated by a mini USB interface.
- Additional LED indicators provide rapid information on the status of the machine.
- The first service assistance should be performed after 20,000 cycles, but can be freely programmed according to the conditions of use.

16. Instructions for installation of software

16.1 System requirements

The PC where the software is installed must fulfill the following requirements:

Operating system: Windows 2000, Windows XP, Windows Vista, Windows 7

CPU: Pentium 4; 1,7 GHz minimum

Random access memory: 512 MB or more (we advise at least 1 GB)

Hard disc: 200 MB (1 GB we advise)

Screen resolution: 1024 x 768 or greater, 65.535 colours or more

Miscellaneous: CD-ROM-Reader, USB 2.0

16.2 Plug & Play

After successful installation of the program the battery powered tool is automatically recognised by the computer and the programs or data can thus be updated.

A detailed installation instruction can be found on the CD-ROM provided.








17. What to do in case of breakdown

In case of failure the crimping/cutting tool is shut down automatically and remains blocked. The service LED illuminates red or orange. Further process is only possible by changing the battery or respectively removing it for a short time.

If the failure of the crimping/cutting tool continues after “reset”, contact an authorised customer service department.





17.1 Error codes Service







Failure		Cause / trouble shooting
after crimping/cutting process		
	green light	Operating data OK
	green/red flashing	Operating data OK and service interval exceeded / service needed
	red flashing	Operating data marginal / please contact service center
	red light	Operating data false service needed
	orange light	Temperature failure / tool has to be heated up or cooled down
after inserting the battery		
	green light	No failure
	orange light	Temperature failure / tool has to be heated up or cooled down

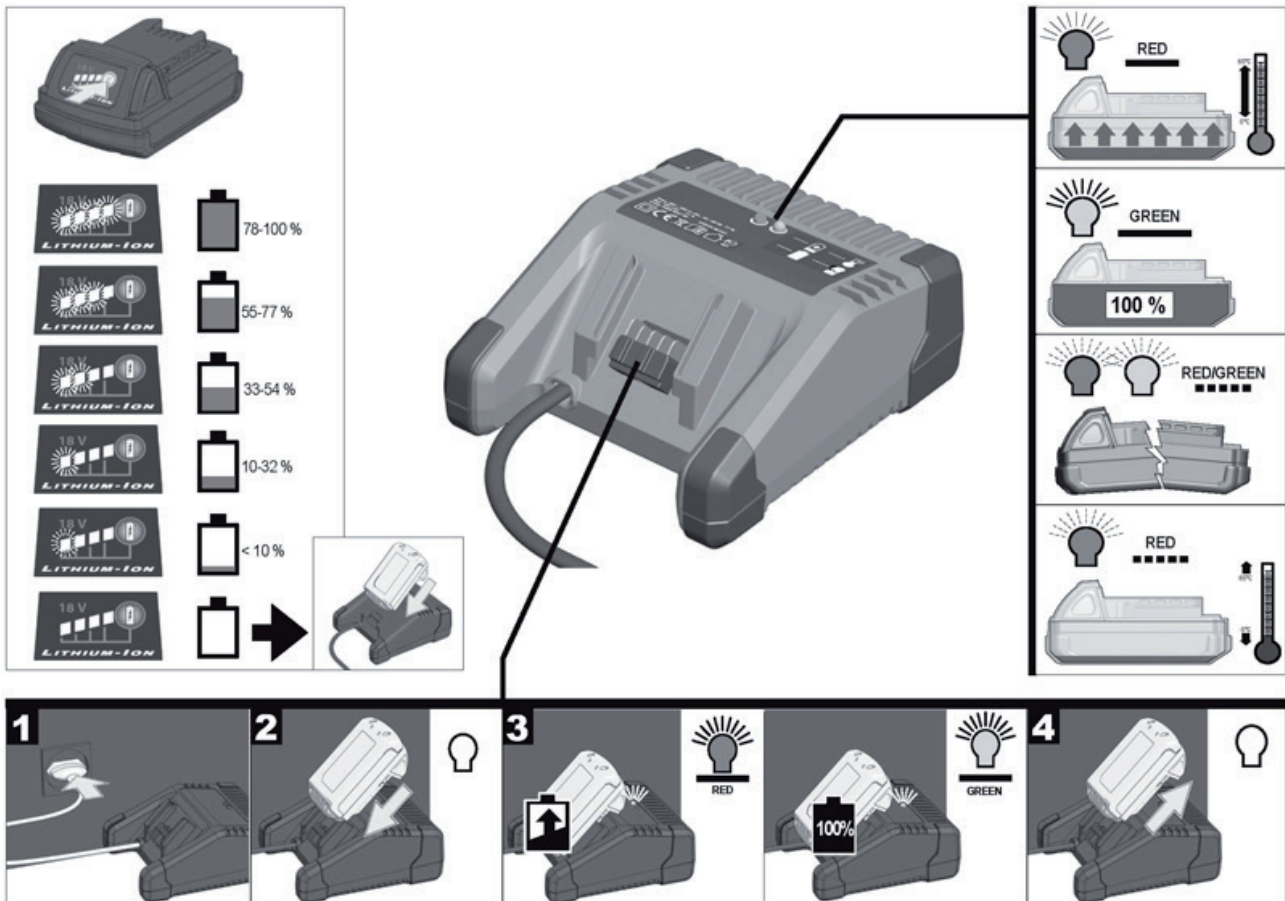
17.2 Error codes battery



Failure		Cause / trouble shooting
after crimping/cutting process		
	off	No malfunction
	red flashing	Charge/change battery (approx. 10% capacity)
	red light	Battery flat
after inserting the battery		
	green light	No malfunction
	red light	Charge/change battery

17.3 Error codes battery charger

Failure		Cause / trouble shooting
	red light	Charging process starts
	red flashing	Battery to hot or too cold
	green light	Battery charged
	green flashing	Battery defect



18. Extraordinary maintenance/disposal

The individual components of the group must be disposed of separately. First of all it is necessary to drain the oil which must be taken to a special disposal centre.

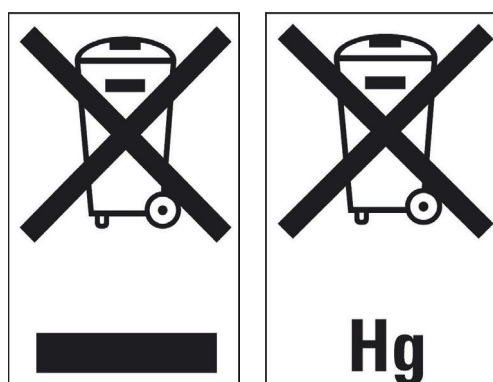
Next it is necessary to dispose of the battery through a special procedure, taking into account the relative law. Concerning the disposal of the other group components observe European Environmental Norms, in respect of the regulations in effect in your country. In order to avoid possible environmental pollution it is advisable to have the disposal performed by specialised and authorised personnel.

Directives 2002/96/EC (WEEE) and 2006/66/EC

This product complies with EU Directives 2002/96/EC and 2006/66/EC. The barred bin symbol (Pic. A) on the appliance indicates that the product, requiring separate treatment to household

waste after its normal working life, must be taken to a waste-sorting centre for electrical and electronic appliances or returned to the retailer at the time of purchasing a new equivalent appliance. The user is responsible for taking the appliance to the appropriate waste collection centre at the end of its working life. Correct waste sorting, with the discarded appliance being sent for recycling, treatment and compatible environmental disposal helps prevent any negative effects on the environment and health, and encourages the recycling of product materials. For further detailed information regarding available collection systems, please contact your local waste disposal service or the shop where you made your purchase. If under the bin there is a chemical symbol (HG, Cd, Pb) – pic. B – this indicates that the batteries have a concentration of that heavy metal higher than the following limits: Hg: mercury (0,0005%), Cd: cadmium (0,002%), Pb: lead (0,004%).

Directive 2002/95 EC (RoHS). This product complies with EU Directive 2002/95/CE RoHS.



19. Guarantee

Every defects of the good started after the delivery must be notified in writing not later than and within eight (8) days after discovery of the same, encompassing the shipment documents and a detailed description of the defect(s) involved. In case of hidden failure, such notification must also be filed within eight days after discovery of the same, and within one year of receiving the goods. We shall not be held liable for any defects not reported within the started deadline. Guarantee does not cover defects or damages caused by evident careless, misuse, wrong maintenance or repairs effected by non-authorized centers or with non-original spares. In case of repairs the warranty is extended on the replaced parts (not on entire tool).

20. Guarantee/Repair

The company grants a warranty of 2 years or 20.000 cycles, if the tool is operated to its appropriate use from the beginning of the warranty period.
The warranty period starts with the date of the 25th pressing cycle.

The warranty time extends to 36 month / max. 30.000 pressing cycles if a service/ maintenance is observed after 20,000 pressing cycles at an authorised service center – ASC.

After the 30.000 pressing cycle it is recommended to service the tool every year or after

10.000 cycles, whatever come first. This is in order to guarantee a proper function of the tool. A flashing Service LED on the tool refers the scheduled maintenance.

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 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.

The service proof is memorized in the tool's service history under the chapter service diary. The needed software to read out all data is in the scope of supply of the tool.

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.
- Battery and battery charger mains adapter.
- 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 center(ASC)

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

**EG KONFORMITÄTSERKLÄRUNG
DICHIARAZIONE CE DI CONFORMITÀ
EC DECLARATION OF CONFORMITY
DECLARACIÓN CE DE CONFORMIDAD
DÉCLARATION CE DE CONFORMITÉ**

Wir
Noi
We
Nous
Nos

AusPress Systems Pty Ltd

(Name des Herstellers) (nome del fabbricante) (manufacturer's name) (nombre del fabricante) (nom du fabricant)

127 Corunna Avenue, Melrose Park SA 5039

(Anschrift) (indirizzo) (address) (dirección) (adresse)

erklären in alleiniger Verantwortung, dass das Produkt
dichiariamo sotto nostra unica responsabilità che il prodotto
declare under our sole responsibility that the product
declaramos bajo nuestra sola responsabilidad que el producto
déclarons sous notre seule responsabilité que le produit

Vetec SPM24

(Typ) (tipo) (type) (tipo) (type)

.....
(Seriennummer) (numero di serie) (serial number) (número de serie) (no de série)

folgenden europäischen Richtlinien entspricht
risulta in conformità alle seguenti direttive comunitarie
is in conformity with the following EC directives
es conforme con las siguientes directivas comunitarias
est conforme aux directives communautaires suivantes

2006/42/EG - 2006/95/EG – 2004/108/EG

und folgende Normen angewandt wurden
e che sono state applicate le seguenti norme
and that the following standards have been applied
y que se han aplicado las siguientes normas
et que les normes suivantes ont été appliquées

**EN ISO 12100; EN ISO 4413; EN 60745-1; EN 60529;
EN 61000-6-2; EN 61000-6-3**

Melrose Park SA, 24.07.2013

(Ort und Datum der Ausstellung)
(luogo e data di emissione)
(place and date of issue)
(lugar y fecha de emisión)
(lieu et date)

(Name und Unterschrift des Herstellers und des Bevollmächtigten für die technischen Unterlagen)
(nome e firma del produttore e del responsabile della documentazione tecnica)
(name and signature of the producer and the responsible of the technical data)
(nombre y firma del productor y del responsable de la documentación técnica)
(nom et signature du producteur et du responsable de la documentation technique)

Service

