



... have you been trained

The law requires that personnel using this type of equipment in the workplace must be competent and qualified to do so.
Training is available at HSS Training
0845 766 7799

...any comments?

If you have any suggestions to enable us to improve the information within this guide please e-mail your comments or write to the Safety Guide Manager at the address below
e-mail: safety@hss.com

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3025/01

Operating & Safety Guide 3025



NURON Battery

Battery for the range of
Hilti NURON Tools.

02502 / 02503/02504 / M2502

GENERAL SAFETY

For advice on the safety and suitability of this equipment contact HSS Hire.



There is a serious risk of personal injury if you do not follow all instructions laid down in this guide.



The hirer has a responsibility to ensure that all necessary risk assessments have been completed prior to the use of this equipment.


This equipment should only be used by an operator who has been deemed competent to do so by his/her employer.


This equipment should be used by an able bodied, competent adult who has read and understood these instructions. Anyone with either a temporary or permanent disability, should seek expert advice before using it.


Keep children, animals and bystanders away from the work area. Cordon off a NO GO area using cones and either barriers or tape, available for hire from HSS Hire.

  Never use this equipment if you are ill, feeling tired, or under the influence of alcohol or drugs.

  Wear practical, protective clothing, gloves and footwear. Avoid loose garments and jewellery that could catch in moving parts, tie back long hair.

 This equipment generates potentially harmful noise levels. To comply with Health & Safety at Work regulations, ear defenders must be worn by everyone in the vicinity.

 Some materials contain substances which, when inhaled, can be harmful to health. A suitable mask must be worn when using this equipment. Respiratory protective equipment is available for hire, contact your local HSS Hire for details.

 Safety goggles MUST be worn by everyone in the work area while the equipment is in use.

Never use the equipment near combustible materials or in potentially explosive atmospheres.

Never use the equipment near computers or other sensitive, electronic equipment.


Do not try to repair or modify the equipment. If this tool can't do what you expect or fails to work return to HSS Hire.


ELECTRICAL SAFETY

To recharge insert the battery pack into the charger, it will only fit one way, then plug the charger into a suitable power supply.

The charger will recharge the battery within 1-4 hours depending on the charge state.

Using the charger in damp or wet conditions can be dangerous.

 To reduce the risk of electric shock, use a suitable RCD (Residual Current-Operated Device) available from HSS Hire, or power the equipment from a mains circuit with a built-in RCD.

 To reduce the risk of electric shock, use a suitable RCD (Residual Current-Operated Device) available from HSS Hire.

Never carry or pull the charger by its flex.

Ensure the equipment is switched OFF before plugging it into it's power supply.

GETTING STARTED

Check the working area is safe

Check the batteries are free from damage and are charged.

Ensure the tool the batteries are being used with is not damaged.

BASIC TECHNIQUES

Ensure the batteries are charged correctly before use.

Remove the batteries from the tool when not in use.

Specification - B22 110 battery	
Voltage	22V
Capacity	5.2AH
Weight	0.91KG
Dimensions	133 x 82 x 67MM

Specification - B22 170 battery	
Voltage	22V
Capacity	8.0AH
Weight	1.31KG
Dimensions	156 x 87 x 76MM

Specification - B22-255 battery	
Voltage	22V
Capacity	12.0AH
Weight	1.84KG
Dimensions	157 x 87 x 99MM

TROUBLESHOOTING

If the power tool doesn't start or cuts out during operation and the LED flashes red constantly, return the unit to HSS Hire.

Indicators for state of charge and fault messages

WARNING! Risk of injury by a falling battery!

If the release button is pressed with a battery inserted in the product, subsequently check that the battery is correctly re-engaged and secure. Short-press the release button of the battery to get whichever of the following status indications is applicable at the time. State of charge and, if applicable, faults are indicated constantly as long as the connected product is switched on.

Status	Meaning
Four (4) LEDs show constantly green	State of charge: 100 % to 71 %
Three (3) LEDs show constantly green	State of charge: 70 % to 51 %
Two (2) LEDs show constantly green	State of charge: 50 % to 26 %
One (1) LED shows constantly green	State of charge: 25 % to 10 %
One (1) LED slow-flashes green	State of charge: < 10 %
One (1) LED quick-flashes green	The Li-ion battery is completely discharged. Recharge the battery. If the LED again starts quick-flashing after the battery has been charged, consult Hilti Service.
One (1) LED quick-flashes yellow	The Li-ion battery or the product in which it is inserted is overloaded, too hot or too cold, or experiencing some other fault. Bring the product and the battery to the recommended working temperature and do not overload the product when it is in use. If the message persists, consult Hilti Service.
One (1) LED shows yellow	The Li-ion battery and the product in which it is inserted are not compatible. Consult Hilti Service.
One (1) LED quick-flashes red	The Li-ion battery is locked and cannot be used. Consult Hilti Service.

If the power tool doesn't start or cuts out during operation check the extension cord is not too long or its gauge is inadequate. Use an extension cord of an approved length and / or of adequate gauge.

If the fault cannot be eliminated by the measures listed above, return to HSS Hire.

EQUIPMENT CARE

regularly check and clean the charger and battery terminals.

Check the battery and charger casing for damage ,splits and return damaged chargers and batteries to HSS

Store the batteries in a clean ,debris free carry case.

Never push the equipment beyond its design limits. If it will not do what you want with reasonable ease and speed, assume you have the wrong equipment for the job. Contact HSS Hire for advice.

Handle the equipment with care. Avoid dropping it, knocking it, or otherwise exposing it to damage.

Never expose the equipment to dangerous and/or corrosive chemicals.

Keep the equipment clean - you will find this less of a chore if you clean it regularly, rather than wait until the end of the hire period.

When not in use, store the equipment somewhere clean, dry and secure.

FINISHING OFF

Wipe clean the battery ready for return to HSS

Know Your Symbols

HSS have created clear Icons to inform the hirer of their responsibilities towards the safe use of hire equipment.

These are designed to reduce the amount of different safety information labels required for each product for hire.

General use PPE / Warning

Clearly marked minimum PPE will be visible on all equipment,



Correct PPE must be worn



HAV Hand Arm Vibration



Danger Rotating blade



Danger Hot exhaust



Danger Electric shock



Caution Abrasive Wheel



Caution Finger trap

Fuel and Supply Types



Pe
Petrol



Di
Diesel



2t
2 - Stroke Petrol



EI
Electric

Safe Procedures

All hirers must understand and respect the safe procedures of all equipment.

It is the responsibility of the hirer to maintain and return the equipment in a clean condition and good working order.



Ro
Read OPS Guide



Ou
Outdoor Use only



HI
Heavy Lifting



Cd
Check Oil daily



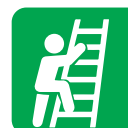
Cf
Check Fuel daily



Cw
Check Water daily



Bc
Battery Care



Sh
Safe Height Working



Swl
Refer to Data Plate



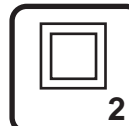
V
Check Power Voltage Data Plate

Electrical Safety

Safe wiring procedures.



Ea
Must be Earthed Class 1



Doi
Double Insulated Class 2



Enl
Earth Live Neutral Wire Coding

Return Responsibility

Charges apply to equipment returned dirty and damaged.



Cc
Cleaning Charge



Rc
Repair Charge