

# SAFETY/RISK/HAZARD ASSESSMENT

## PLANT INFORMATION

NHG Ref/Part No.

DRILLHH 1/2

Plant Name:

Hilti DX460 Explosive Fixing Gun

Potential Noise Level in Db:

100db to less than 140db

Required hearing protection class: 5 +

Operator Competency:

Plant Licence Not Required

*It is the hirer's responsibility to ensure that all operators are competent.*

Please refer to the User Guide and Operators Manual for detailed Operating Instructions



Protective  
equipment  
must be worn  
when operating  
this machine



## RISK ASSESSMENT INFORMATION

### Potential Hazard(s)

#### Hearing Damage

Risk Level	High
Control Measures	Hearing protection with a rating of 120+Db must be worn.

#### Injury

Risk Level	High
Control Measures	Ensure body parts and hair, loose clothing, rags, etc. are kept clear of moving parts. Ensure work pieces are appropriately secured prior to using. Wear protective clothing/equipment at all times when operating unit. Read the Safety Instructions contained in this form (also in the operation manual) Familiarise yourself with the equipment before use. Keep body parts away from ejection area. Never aim or point the tool at other persons. Keep unauthorised persons away from the work area. Never depress the trigger unless the tool is aimed at the work surface. Assess work area for potential hazards before commencing operation. Eye protection must always be worn by operator to guard from flying fasteners and debris.

#### Exposure to ultraviolet radiation if working outdoors

Risk Level	Medium
Control Measures	Wear sunscreen, hat, long sleeves and long pants.

#### Burn hazard

Risk Level	Low
Control Measures	Wear protective clothing during operation. Avoid contact with hot components.

## **Basic safety instructions**

In addition to the safety precautions listed in the individual sections of the operating instructions, the following points must be strictly observed at all times:

1. Only use Hilti cartridges or cartridges of equivalent quality.  
The use of cartridges of inferior quality in Hilti tools may lead to build-up of unburned powder, which may explode and cause severe injuries to operators and bystanders.  
At a minimum, cartridges must be confirmed by their supplier to have been successfully tested in accordance with relevant standards.  
All Hilti cartridges for powder-actuated tools have been tested successfully in accordance with relevant standards.  
The tests defined in the standards are system tests carried out by the certification authority using specific combinations of cartridges and tools. The tool designation, the name of the certification authority and the system test number are printed on the cartridge packaging.
2. Use only as intended  
The tool is designed for professional use in fastening applications in construction where nails, threaded studs and composite fasteners are driven into concrete, steel and sand-lime block masonry.

### **DO NOT**

- Manipulate or modify the tool in any way.
- Operate the tool in an explosive or flammable atmosphere, unless the tool is specially approved for such use.
- Point the tool at yourself or any bystander.
- Press the muzzle of the tool against your hand or other part of your body.
- Drive nails into excessively hard or brittle materials such as glass, marble, plastic, bronze, brass, copper, natural rock, insulation material, hollow brick, glazed tile, thin-gauge sheet metal (< 4 mm), grey cast iron, spheroidal cast iron and gas concrete

To avoid the risk of injury, use only original Hilti fasteners, cartridges, accessories and spare parts or those of equivalent quality.

Observe the information printed in the operating instructions concerning operation, care and maintenance.

### **Making the workplace safe**

- Ensure that the workplace is well lit.
- Objects which could cause injury should be removed from the working area.
- Operate the tool only in well-ventilated working areas.
- The tool is for hand-held use only.
- Avoid unfavourable body positions. Work from a secure stance and stay in balance at all times
- Keep other persons, particularly children, outside the working area.
- Before using the tool, make sure that no one is standing behind or below the point where fasteners are to be driven.
- Keep the grip dry, clean and free from oil and grease.

### **General safety precautions**

- Operate the tool only as directed and only when it is in faultless condition.
- Use the stabiliser/splinter guard when the application permits.
- If a cartridge misfires or fails to ignite, proceed as follows:
  1. Keep the tool pressed against the working surface for 30 seconds.
  2. If the cartridge still fails to fire, withdraw the tool from the working surface, taking care that it is not pointed towards your body or bystanders.
  3. Manually advance the cartridge strip one cartridge. Use up the remaining cartridges on the strip. Remove the used cartridge strip and dispose of it in such a way that it can be neither reused nor misused.
  
- If 2–3 (above) cartridge firing with reduced driving power occur in succession (without clearly audible noise of the cartridge firing and the fastener being driven with significantly less power), proceed as follows:
  1. Stop using the tool immediately.
  2. Check that the correct combination of fastener guide, piston and fastener are used (see 6.2).
  3. Check the buffer, piston and fastener guide / magazine for wear and replace the parts if necessary
  4. Clean the tool.
  5. Do not continue to use the tool if the problem persists after carrying out the steps described above.
  6. Report the problem immediately to Northern Hire Group Pty Ltd.
  
- Never attempt to pry a cartridge from the magazine strip or the tool.
- Keep the arms flexed when the tool is fired (do not straighten the arms).
- Never leave the loaded tool unattended.
- Always unload the tool before beginning cleaning, servicing or changing parts and before storage.
- Unused cartridges and tools not presently in use must be stored in a place where they are not exposed to humidity or excessive heat. The tool should be transported and stored in a toolbox that can be locked or secured to prevent use by unauthorized persons.

### **Temperature**

- Do not disassemble the tool while it is hot.
- Never exceed the recommended maximum fastener driving rate (number of fastenings per hour). The tool may otherwise overheat.
- Should the plastic cartridge strip begin to melt, stop using the tool immediately and allow it to cool down.

### **Requirements to be met by users**

- The tool is intended for professional use only.
- The tool may be operated, serviced and repaired only by authorised, trained personnel. Personnel must be informed of any special hazards that may be encountered.
- Proceed carefully and do not use the tool if your full attention is not on the job.
- Stop working with the tool if you feel any pain or discomfort.

### **Personal protective equipment**

- The operator and other persons in the immediate vicinity must always wear approved eye protection, a hard hat and suitable ear protection.

## KEY OPERATING INSTRUCTIONS

**Please refer to the User Guide and Operators Manual  
for detailed Operating Instructions**

*The safety information contained in this assessment is general information only and should not be relied upon as a substitute for professional advice or tuition, which the hirer should seek before operating.*