

HSS Hire



Hilti DGH150 Concrete Grinder

For smoothing small areas of stone,
masonry and set concrete.



... 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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GENERAL SAFETY

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

Keep children, animals and bystanders away from the work area.

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

This equipment should only be used by a competent person who has read and understood these instructions.

Ensure the work area is well lit and ventilated. Do not work near flammable gasses or liquids.



Safety Goggles MUST be worn by everyone in the work area.



NOTE: Some materials being removed by this process may contain substances which can be harmful to health. A suitable mask must be worn when using this equipment.



NOTE: This equipment generates potentially harmful noise levels. To comply with health and safety at work regulations, ear defenders must be worn by everyone in the vicinity.



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

Ensure the tool is switched OFF before plugging it in to its power supply. Switch off and unplug it before making any adjustments.

Check the equipment before use. If it shows signs of damage or excessive wear, return it.

Think twice before locking the ON/OFF control in the ON position using any trigger lock.

If working above ground-level, work from a suitable, stable platform - an access tower for example. Never work from ladders or steps.

Information on COSHH regulations is available from your local HSS Hire Shop.

The concrete planer should always be used with a dust extractor unit.

ELECTRICAL SAFETY

Most HSS power tools plug into a standard 13amp power socket. However, 110v tools (with a round yellow plug) must be provided with a suitable 110v generated supply, or powered from the mains via a suitable 110v transformer.

If the tool fails, or if its flex or plug gets damaged, return it. Never try to repair it yourself.

Keep the flex out of harm's way, draping it over one shoulder to keep it clear of moving parts.

Extension leads should be fully unwound and loosely coiled, away from the equipment. Never run them through water, over sharp edges or where they could trip someone.

Using electrical equipment in very damp or wet conditions can be dangerous.

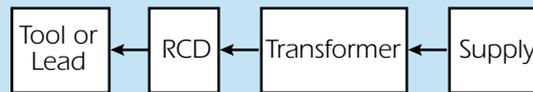


To reduce the risk of electric shock, use a suitable RCD (Residual Current-Operated Device) available from your local HSS Hire Shop, or power 240V (Not 110V) equipment from a power circuit with a built-in RCD.

Siting an RCD

When used with a transformer an RCD will only protect the user if fitted between the transformer and the tool being used.

An RCD fitted between the power supply and the transformer only protects up to the transformer.



If the equipment fails, or if its plug or lead gets damaged, return it. Never attempt to repair it yourself.

Never carry or pull the equipment by its flex.

GETTING STARTED

Ensure the work is free from nails, screws etc. If these cannot be removed, drive them well below the surface.

To start the tool, simply squeeze in the trigger. Release the trigger to stop.

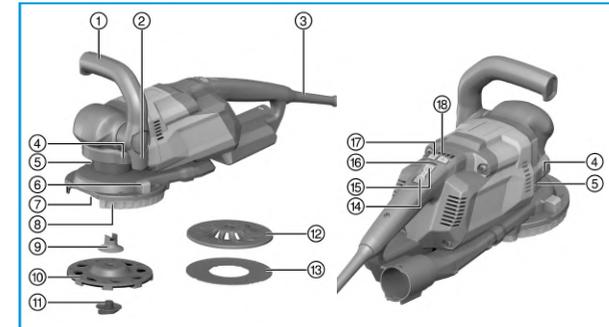
For continuous operation, squeeze the trigger then push in the lock button. To stop the tool from the locked position, squeeze the trigger fully then release it.

To level a surface, the base of the planer should be aligned with the diamond wheel. The front roller should be adjusted upward, to the level required, for the desired amount of stock removal.

To change the amount of stock removed, loosen the allen bolts on the grip holder with the allen key (provided).

Raise or lower the front roller to adjust the gap between it and the diamond wheel. The difference is the stock removal amount.

Once the correct setting is achieved, secure the front roller by tightening the allen bolts.



- | | |
|--|---|
| 1. Side handle | 10. Diamond cup wheel |
| 2. Clamping lever side handle | 11. Keyless quick-action clamping screw |
| 3. Supply cord | 12. Holder for grinding pad |
| 4. Release buttons, bow grip | 13. Grinding pad for precision grinding |
| 5. Height adjustment of the guard | 14. On/off button |
| 6. Adjusting lever for segment opening | 15. Locking button cor continuous operation |
| 7. Segment opening | 16. LED status indicator |
| 8. Guard with Lamellar seal | 17. Buttons for gear selection |
| 9. Mounting flange | 18. Gear indicator |
| | 19. Connector for dust extraction |

NOTE: The maximum stock removal should not exceed 2.5mm.

The planer has a built in dust extraction system. To empty the dust bag, unclip it from machine then slide the bag sealing strip back. To refit simply reverse the above instruction. Connect house from the dust extractor to the tool dust port outlet.

Intended Use

The product described is an electrically powered diamond grinder for grinding mineral materials. Always use a dust extractor to ensure optimum dust removal. The grinder is designed exclusively for dry abrasive removal of uncoated mineral materials and thin coatings on concrete and similar mineral materials, with a maximum layer thickness of 3 mm (0.12in). Use both hands to hold the product firmly.

GETTING STARTED CONT.

Inadmissible misuse

Do not use accessory tools that are not approved for this product. This includes cut-off wheels, diamond cut-off wheels and rotary wire brushes.

Do not use the product for wet grinding, do not grind projecting objects such as nails or screws.

Do not use the product if slats on the dust hood are worn; never use the product without a dust extractor. Never use the grinding pad at a speed for which it is not approved.

Preparations at the workplace

Installing an accessory tool

1. Clean the chuck
2. Slip the mounting flange on to the arbor and turn the mounting flange until it engages
3. Position the accessory tool on the centering collar of the mounting flange
4. Screw the quick-action clamping screw into the arbor and tighten the screw

Removing the accessory tool

1. Slacken the clamping nut
2. Remove the accessory tool

Adjusting the side handle

1. To release the side handle, open the clamping lever
2. Adjust the side handle to the desired position
3. Close the clamping lever

Adjusting the guard

1. Switch the grinder off
2. Position the power tool on the grinding wheel
3. Use the height adjuster to adjust the height - Note: The guard is at the optimum height when the distance between the slats and the surface is approximately 1mm.
4. If you are working along a wall, turn the segment opening of the guard to the desired position
5. Be sure to close the segment opening when you finish working along the wall

Selecting the gear

CAUTION - Risk of injury and damage. If speed is too high, segments of the grinding accessory can come loose. Use only gears 1 and 2 for fine grinding.

1. Use the gear selector switch to select a gear to suit the accessory tool you are going to use and the hardness of the material to be worked
2. Use 1st gear for better dust control when grinding off soft mineral materials, such as paint from cement rendering, and to make the power tool easier to guide when grinding off coatings from soft materials
3. Use 5th gear to apply full power of the tools when grinding hard mineral materials such as concrete, floor screeding or natural stone

Types of work

Switching on

CAUTION - Risk of injury. Inadequately secured accessory tools can work loose. Before each use, always check that the accessory tool is secure.

1. Connect the grinder to an industrial vacuum cleaner.
2. Lift the power tool clear of the work surface
3. Press and hold down the on/off switch - the status LED of the locking button flashes
4. Press the locking button to switch on the grinder in continuous-operation mode - the locking button has to be pressed within one second

Trying out after fitting a new diamond cup wheel

CAUTION - Risk of injury. Damaged diamond cup wheels can come loose.

Do not use a diamond cup wheel if it vibrates; protect the cup wheel against impact, shock loading and grease.

Hold the power tool just clear of the surface you are going to work on and allow it to run for at least 1 minute without load.

Sanding

1. Select a gear
2. Switch the grinder on
3. Bring the power tool with the accessory tool into contact with the work surface and keep the tool moving with a steady back-and-forth action
4. Apply moderate pressure and do not dig the tool into the material
5. The diamond cut wheel can overheat and suffer damage when used to grind very hard mineral materials such as concrete with a high gravel content. Under these circumstances take frequent breaks from grinding and, with the power tool idling, allow the diamond cup wheel to cool down briefly

Switching off

To switch off the power tool, press the locking button or the on/off switch

BASIC TECHNIQUE

Always hold the planer with both hands and switch ON before bringing the planer into contact with the work.

Adopt a stable posture with both feet on firm level ground, do not work in areas where you are forced to stand on loose debris or on a slippery uneven surface.

Never apply too much pressure. Keep the planer moving either in a straight line or in a circular motion, **or it may rut the work.**

Lift it clear before switching OFF, and wait for moving parts to stop before putting it aside.

On first contact with the surface, the planer will try to throw you off line. Take great care until you become familiar with the tool.

EQUIPMENT CARE

Never push the equipment beyond its design limits. If it will not do what you want with reasonable ease, assume you have the wrong tool for the job. Ask at your local HSS Hire Shop for advice.

Regularly check the condition of the diamond wheel, if it shows signs of excessive wear contact your local HSS Hire Shop for a replacement.

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

When not in use, **store the equipment somewhere clean, dry and safe** from thieves.

When using the dust extractor listen for the bleep noise and view the lamp indicator as there could be restricted air flow or the dust bag needs replacing.

FINISHING OFF

Switch OFF and unplug the planer. Remove the dust extractor hose from the tool dust port. Remove and empty the dust collection bag

Thoroughly clean the machine and dust extractor, 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