



Avoid bringing the cut-off saw into contact with the working surface in the area indicated.

Allow the cut-off saw to reach full speed before starting the cut. Bring the cut-off wheel into contact with the workpiece at right angles and below the axis of rotation.

Apply pressure to the cut-off saw so that the cut-off wheel is pressed into the material slowly.

Apply moderate pressure, adjusting the rate of advance to suit the material being cut. A decrease in the rate of cutting progress may be an indication of blunt/dull ("polished") diamond segments. The diamond segments can be resharpened by making a few cuts in an abrasive material (Hilti sharpening plate or sand-lime block).

Guide the cut-off saw smoothly and without applying lateral pressure to the cut-off wheel.

Always hold the cut-off saw firmly with both hands on the grips provided. Keep the grips dry, clean and free from oil and grease. Make sure there is no-one in the working area and, in particular, in the direction in which the cut is to be made. Keep everyone approx. 15 m away from your workplace. CAUTION - Risk of cut-off wheel breakage or kickback. Application of excessive pressure causes distortion of the cut-off wheel. Sticking or stalling of the cut-off wheel increases the probability of kickback or cut-off wheel breakage. Avoid applying excessive pressure when cutting and don't allow the cut-off wheel to stick and stall.

Don't attempt to make an excessively deep cut.

1. Cutting through thick workpieces should be accomplished, as far as possible, by making a several cuts.

Avoid making excessively deep cuts.

2. Support slabs or large workpieces so that the kerf remains open during and after the cutting operation.

KICKBACK

The word **kickback** is used to describe the sudden reaction that causes the saw and cutting blade to be thrown from an object when the upper quadrant of the blade, known as the kickback zone, touches an object.

Kickback can happen very suddenly and violently, kicking the saw and cutting blade back at the user. If this happens when the cutting blade is moving it can cause very serious, even fatal injuries. It is vital you understand what causes kickback and that you can avoid it by taking care and using the right working technique.

Never start to cut with the upper quadrant of the blade as shown in the figure, also known as the kickback zone.

Always hold the machine in a firm grip with both hands. Hold it so that the thumbs and fingers grip round the handles.

Keep a good balance and a firm foothold. **Always cut at maximum speed.** Stand at a comfortable distance from the work piece.

Take care when inserting the blade in an existing cut. Never cut above shoulder height.

Be alert to movement of the work piece or anything else that can occur, which could cause the cut to close and pinch the blade.

FITTING THE CUTTING BLADE

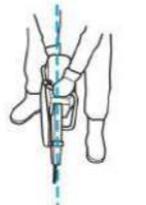
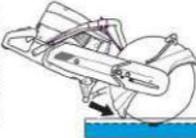
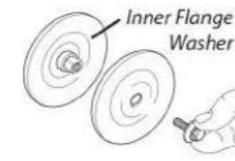
Cutting blades provided by HSS are manufactured and approved for freehand cutting. The blade is placed on the bushing between the inner flange washer and the flange washer. The flange washer is turned so that it fits on the axle.

The shaft can be locked using a screwdriver, steel pin or the like. This is slid in as far as possible. The blade is tightened clockwise.

GUARD FOR THE BLADE

The guard must always be fitted on the saw. The guard for the cutting equipment should be adjusted so that the rear section is flush with the work piece. Spatter and sparks from the material being cut are then collected.

When cutting hold the machine's handle so that the hands are in line with the cutting blade. This to achieve maximum cutting speed, disc service life and a straight cut.



SPECIFICATION

CUT SAW TECHNICAL SPECIFICATION

Commodity Code:	07123
Weight	14.5kg
Wheel diameter	300mm
Wheel cutting depth max	120mm
Tightening torque	25Nm
Max speed	5080/min
Arbour size	20mm-25.4mm

EQUIPMENT CARE

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 tool for the job. Contact HSS Hire for advice.

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 safe.**

Cutting blades should be stored in dry, frost free conditions.

Special care should be taken with abrasive discs. Store them on a flat, level surface. If an abrasive disc is stored in humid conditions, this can cause imbalance and result in injury.

Status indicators of the Li-ion battery

Hilti Nuron Li-ion batteries can indicate state of charge, fault messages and the battery's state of health.

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.
One (1) LED quick-flashes red	The Li-ion battery is locked and cannot be used. 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.

Indicators showing the battery's state of health

To check the battery's state of health, press the release button and hold it down for longer than three seconds. The system does not detect a potential malfunction of the battery due to misuse, for example battery dropped or pierced, external heat damage, etc.

Status	Meaning
All LEDs show in sequence, followed by one (1) LED showing constantly green.	The battery can remain in use.
All LEDs show in sequence, followed by one (1) LED quick-flashing yellow.	The check to ascertain the battery's state of health did not complete. Repeat the procedure, or consult Hilti Service.

Status	Meaning
All LEDs show in sequence, followed by one (1) LED showing constantly red.	If a connected product can still be used, the remaining battery capacity is below 50 %. If a connected product can no longer be used, the battery has reached the end of its useful life and has to be replaced. Consult Hilti Service.

FINISHING OFF

Remove the batteries from the tool holder

Remove the cutting wheel

Wipe clean the machine ready for return to HSS



... 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 Solutions 03457 66 77 99

...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

HSS ProService Ltd. 2022 No.3022/01
Building Two, Think Park, Mosley Road, Manchester M17 1FQ
hss.com

3022/01

Operating & Safety Guide 3022

HSS Hire



Cordless Cut-Off Saw 300mm

Battery powered heavy duty hand held saw for on site cutting of masonry, bricks, concrete and metalwork.



Code 02127 / 02500 / 02503 / 02504

BASIC TECHNIQUES

This information is never a substitute for professional skills and experience.

If you get into a situation where you feel unsafe, stop and seek expert advice.

Do not attempt any task that you feel unsure of!

WARNING!

Under all circumstances avoid grinding using the side of the blade; it will almost certainly be damaged, break and can cause immense damage. Only use the cutting section.

Do not pull the power cutter to one side, this can cause the blade to jam or break resulting in injury

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 is designed to 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.

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

 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.

 Some materials when cut 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 HSS Hire for details.

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

Ensure the work area is well lit and ventilated, if in doubt, ask about lighting and ventilation equipment at HSS Hire.

Do not work near flammable gases or liquids, petrol or paint thinner fumes for example. Keep combustible materials at a safe distance - at least 5m.

Make sure you know how to switch this machine OFF before you switch it ON in case you get into difficulty.

Before using the saw make yourself familiar with equipment.

Never leave the unit running and unattended. Always switch the engine off and wait for moving parts to come to rest before making adjustments to it. Engines, especially the exhausts, get very hot so switch OFF and allow to cool before touching them.

Make sure that everyone is warned of what you are doing.

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

Ensure the guard is correctly fitted and secure before starting work.

Never use a cutting blade for any other materials than that it was intended for.

Never use a cutting blade at a lower speed rating than that of the power cutter.

Check the cutting blade does not show signs of damage. A damaged cutting blade can cause personal injury.

Always ensure you have a safe and stable working position.

Do not use the machine in bad weather, such as dense fog, rain, strong wind, intense cold, etc. Working in bad weather is tiring and can lead to dangerous conditions.

Observe the increased risk of kickback when cutting soft materials.

Do not use the machine unless you are able to call for help in the event of an accident.

Never use a machine that is faulty.

COSHH information sheets are available from HSS Hire.

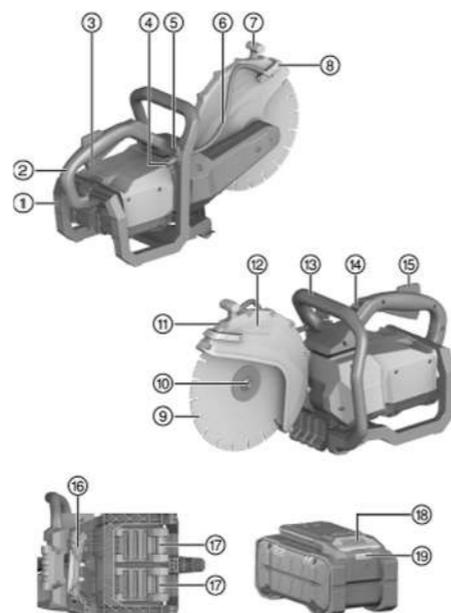
WARNING!

Under no circumstances should you modify the original design of the machine. Unauthorised modifications and/or accessories may lead to serious injury or death to the user or others.

GETTING STARTED

A Cut Off Saw is a dangerous tool if used carelessly or incorrectly and can cause serious, even fatal injuries. It is extremely important that you read and understand the contents of this User Guide.

IDENTIFIER



IDENTIFIER

- ① Protective frame for battery
- ② Main grip
- ③ Control switch
- ④ Water supply connection
- ⑤ Water flow regulating valve
- ⑥ Water line
- ⑦ Grip for guard adjustment
- ⑧ Curved water distributor with integrated water nozzles
- ⑨ Cut-off wheel
- ⑩ Clamping flange with securing screw
- ⑪ Guard
- ⑫ Direction-of-rotation arrow
- ⑬ Front grip
- ⑭ Latching switch, transport lock
- ⑮ Safety switch
- ⑯ Assembly tool
- ⑰ Li-ion battery
- ⑱ Release button
- ⑲ Charge-status and fault indicator, battery

The saw is equipped with a vibration damping system designed to minimize vibration and make operation easier. Stop the machine if you experience discomfort or numbness during use.

Preparations at the workplace

WARNING - Risk of injury by inadvertent starting!

Before inserting the battery, make sure that the product is switched off.

Remove the battery before making any adjustments to the power tool or before changing accessories.

Charging the battery

1. Before charging the battery, read the operating instructions for the charger.

2. Make sure that the contacts on the battery and the contacts on the charger are clean and dry.

3. Use an approved charger to charge the battery

Inserting the battery

WARNING - Risk of injury by short circuit or falling battery!

Before inserting the battery, make sure that the contacts on the battery and the contacts on the product are free of foreign matter.

Make sure that the battery always engages correctly.

1. Charge the battery fully before using it for the first time.

2. Push the battery into the product until it engages with an audible click.

3. Check that the battery is seated securely.

Removing the battery

1. Press the battery release button.

2. Remove the battery from the product.

Installing cut-off wheel

WARNING - Risk of injury and damage. Damaged cut-off wheels may break.

If the cut-off wheel has been subjected to an impact, check the cut-off wheel for damage and replace it if necessary.

Never use cut-off wheels that are damaged, run untrue or vibrate.

Don't use synthetic resin-bonded fiber-reinforced cut-off wheels which have exceeded their use-by date or already softened due to water absorption.

CAUTION - Risk of injury and risk of burns!

Cut-off wheels become hot when in use and can have sharp edges that lead to injuries.

Wear protective gloves for installing, removing and adjusting the accessory tool or other components, and during troubleshooting operations.

INFORMATION - Install only the clamping flange that is suitable for the cut-off wheel used. The outside diameters are

stated in the technical data.

Clamping flanges specially designed for diamond cut-off wheels bear the following wording by way of identification: "ONLY FOR DIAMOND WHEELS".

1. Remove a mounted dust extraction module (accessory).

2. Clean all clamping and centering surfaces on the cut-off saw and the cut-off wheel.

3. Check that the mounting flange and the clamping flange are correct for the cut-off wheel.

Change the mounting flange if necessary.

4. Position the cut-off wheel flush and centered on the mounting flange.

The cut-off wheel's direction of rotation matches the direction-of-rotation arrow.

5. Position the clamping flange flush and centered and install the securing screw.

6. Insert the locking pin into the hole in the belt cover.

7. Gently turn the cut-off wheel until the locking pin engages.

8. Tighten the securing screw with the assembly tool.

Tightening torque (securing screw) Technical data

9. Remove the locking pin.

INFORMATION - After installing a new cut-off wheel, start the cut-off saw and allow it to run without load at full

speed for approx. 1 minute. Check for roughness in operation or vibration; if a cut-off wheel is damaged it will generally break during this test run.

Removing the cut-off wheel

WARNING - Risk of injury and damage. Damaged cut-off wheels may break.

If the cut-off wheel has been subjected to an impact, check the cut-off wheel for damage and replace it if necessary.

Never use cut-off wheels that are damaged, run untrue or vibrate.

Don't use synthetic resin-bonded fiber-reinforced cut-off wheels which have exceeded their use-by date or already softened due to water absorption.

1. Remove a mounted dust extraction module (accessory).

2. Insert the locking pin into the hole in the belt cover.

3. Gently turn the cut-off wheel until the locking pin engages.

4. Slacken the securing screw with the assembly tool.

5. Remove the securing screw, clamping flange and cut-off wheel.

6. Remove the locking pin.

Adjusting the guard

WARNING - Risk of injury. Contact with the cut-off wheel and flying fragments or sparks can cause injury to persons.

Adjust the guard so that flying particles or fragments of the material removed and flying sparks are directed away from the operator and the product.

Hold the guard by the grip provided and rotate it to the desired position.

Switching on and off

The cut-off saw has a transport lock. The transport lock prevents inadvertent starting of the cut-off saw when it is carried with the batteries still inserted.

Comply with the instructions for use of the transport lock in the section headed Transport lock of the cut-off saw.

1. Hold the cut-off saw by the grips provided for the purpose.

2. Press and hold down the safety switch.

3. Press the control switch. The cut-off saw runs.

4. To switch the cut-off saw off, release the control switch and the safety switch.

Cutting techniques



There is a risk of kickback if the cut-off saw comes into contact with the working surface in the area indicated.

Kickback is the result of product misuse and/or incorrect operating procedures or conditions. To prevent kickback, follow the safety instructions and the instructions for use below.

Note that some machines have reversible front flanges to take thick and thin abrasive discs. Make sure such flanges are the right way round for the chosen disc.

Use the right disc mounting flanges, ensuring they are clean, undamaged and free from burrs.

Ensure the flange size is compatible with the size of the disc. Above 230mm, the flange diameter must be one third that of the disc.

To fit a disc, follow the instructions supplied with your machine.

If you have hired the machine from HSS, contact HSS Hire if you have any problems.

In any case, never force a disc onto the machine's spindle and never over-tighten the machine's mounting bolt / flange.

Before switching the machine back ON, remember to reposition the safety guard.

Finally, run newly fitted discs at operating speed for at least one minute before using them to cut / grind. This helps 'seat' the disc and lets you double-check that you have fitted it correctly. Clear the work area while doing this.

Throw used discs away, NEVER re-use a disc once it has been removed from a machine.

USING DISCS

Make sure the workpiece is firmly and safely secured.

If using a portable machine, adopt a comfortable, balanced stance that lets you support and control the machine, keeps the whole of your body clear of the disc, and lets you see clearly what you are doing.

Ensure the work area is free from trip hazards and that the ground offers a secure footing.

If using a grinding disc with a depressed centre, always hold it at an angle to the workpiece.

When cutting, work in a straight line, taking care not to trap or pinch the disc in the cut.

Never try to force the disc through the workpiece and never apply pressure to the side of the disc.

Never use a grinding disc for cut-off work or vice versa. If in doubt, contact HSS Hire.

Regularly check the disc's condition and replace if worn or damaged.

Ensure replacement discs are distortion free and undamaged and that the paper washers are not wrinkled or torn. NEVER FIT SUBSTANDARD OR OLD, USED DISCS.

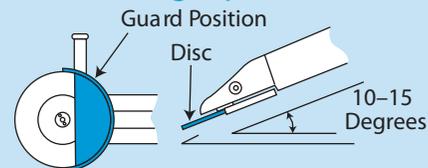
Don't grind on the side of cut-off or grinding discs less than 4.5mm thick. They are not strong enough. Use the edge instead.

FINISHING OFF

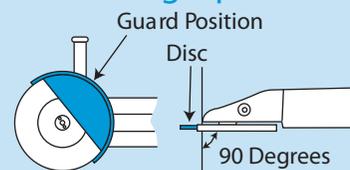
When you have finished using a portable machine, wait for the disc to stop turning and put the machine down gently - taking care not to knock the disc. Ideally, rest the machine, clear of the ground, on a suitable cradle.

Always let the disc come to a halt naturally.

Grinding Operation



Cutting Operation



... 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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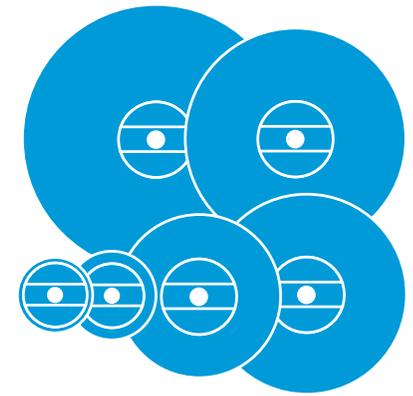
Group Office: 25 Willow Lane, Mitcham, Surrey CR4 4TS

Web Site: <http://www.hss.com>

631/02

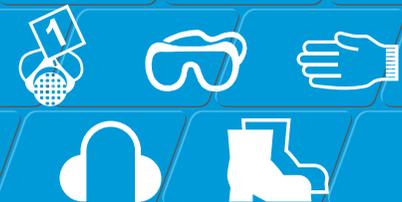
Operating & Safety Guide 631

HSS Hire



Abrasive Discs

Reinforced, flat Cut Off discs.
Reinforced depressed centre
Grinding Discs



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 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.

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

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

 Some materials when cut contain substances which, when inhaled, can be harmful to health. A suitable mask must be worn when using this equipment.

 Grinding and cutting 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 gloves, protective clothing and footwear that covers all exposed skin. Avoid loose garments and jewellery that could catch in moving parts, tie back long hair.

If you sustain an injury while using an abrasive disc, seek medical advice immediately.

Ensure the work area is well lit and ventilated, if in doubt, ask about dust extraction and ventilation equipment at HSS Hire.

Do not work near flammable gasses or liquids, petrol or paint thinner fumes for example. Keep combustible materials at a safe distance - at least 5m.

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

Take special care when cutting into anything containing pipework or electrical cables. If in doubt, hire a cable avoiding tool from HSS Hire, to determine the exact position of such hazards.

Stop the machine if you experience discomfort or numbness during use.

Make sure you know how to switch the machine OFF before you switch it ON in case you get into difficulty.

Always switch OFF and unplug any tool before making adjustments to it.

Check that it is switched OFF and that you have removed all spanners and keys before plugging it back in.

Having switched OFF, always wait for the disc to come to rest before putting the tool down.

Check the condition of the equipment before use.

Ensure side handles and guards are correctly adjusted and secure before starting work.

Watch your footing. Take special care if working other than on firm, level ground.

Information on COSHH regulations is available HSS Hire.

Warning

Abrasive discs operate at very high speeds. If they should break in use, the fragments that fly off can be extremely dangerous. So, always treat them with respect and follow the safety rules.

ELECTRICAL SAFETY

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

MACHINE SAFETY

Make sure you know how to operate your particular grinding or cut-off machine safety and correctly.

If using an HSS MACHINE...

Read the Operating & Safety Guide supplied with it. If you have any queries, contact HSS Hire for advice.

If using your OWN MACHINE have it professionally serviced regularly and tested for electrical safety. In particular, check the tension of any drive belts, and double check that any built-in speed control governor is working correctly.

Have its spindle speed checked regularly. Always have the speed checked if the machine has just been serviced or repaired.

WHATEVER you are using...

Make sure the machine is fitted with an adequate, securely fitted safety guard.

Make sure the safety guard is correctly positioned before switching the machine ON. It should cover at least half the disc and protect the user if the disc should accidentally break up in use.

Check the machine's general condition before use, paying special attention to the state of the disc flange plates. If it shows signs of damage or excessive wear, do not use it! If you have any doubts about the condition of an HSS machine, return it to HSS Hire.

DISC SAFETY

Use the correct disc for your grinding / cut-off machine. In particular, check that the machine's spindle speed does not exceed the maximum at which the disc can safely run.

Use the right abrasive disc for the job. If in doubt, contact HSS Hire for advice.

Handle abrasive discs with care. They are easily cracked if knocked or dropped – cracked discs are potentially dangerous.

Always check the discs for damage before use. Brush off any dust and tap gently with a non metallic object. If the disc sounds 'dull' assume it is cracked.

Never fit or use a disc you think may be damaged.

DISC STORAGE

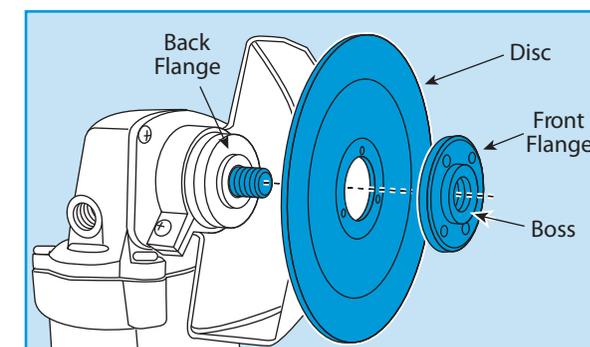
Stack flat cut-off discs one on top of the other, ideally on a flat, level, steel base-plate. Discs with a depressed centre should either be carefully stacked one on top of the other or, better still, left in their original protective packaging.

Never store abrasive discs where they will be exposed to extreme temperatures or damp. Improper storage damages the discs. Always check expiry date.

RULES AND REGULATIONS

Note that the use of abrasives discs in certain conditions (in the work place) are regulated by law. Both the discs themselves, and the way in which they are fitted and used, must conform to BS4481 and BS4581. If in doubt, contact HSS Hire for advice.

DISC FITTING



Abrasive discs should only be fitted by authorised, trained personnel.

Before fitting a disc, switch OFF the grinding / cut-off machine and unplug it if electric.

Use the proper tools to change / fit discs. These are supplied with machines hired from HSS. If using your own machine, consult the manufacturer's instructions.

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



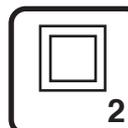
V
Check Power Voltage Data Plate

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