

**Operator's manual**

**K 3000 Vac**

Please read the operator's manual carefully and make sure you understand the instructions before using the machine.



**English**

# KEY TO SYMBOLS

## Symbols on the machine:

**WARNING!** The machine can be a dangerous tool if used incorrectly or carelessly, which can cause serious or fatal injury to the operator or others.

Please read the operator's manual carefully and make sure you understand the instructions before using the machine.

Always wear:

- Approved protective helmet
- Approved hearing protection
- Protective goggles or a visor

This product is in accordance with applicable EC directives.

**WARNING!** Dust forms when cutting, which can cause injuries if inhaled. Use an approved breathing mask. Always provide for good ventilation.

**WARNING!** Sparks from the cutting blade can cause fire in combustible materials such as: petrol (gas), wood, dry grass etc.

**WARNING!** Kickbacks can be sudden, rapid and violent and can cause life threatening injuries. Read and understand the instructions in the manual before using the machine.

**Environmental marking.** Symbols on the product or its packaging indicate that this product cannot be handled as domestic waste. It must instead be submitted to an appropriate recycling station for the recovery of electrical and electronic equipment.

By ensuring that this product is taken care of correctly, you can help to counteract the potential negative impact on the environment and people that can otherwise result through the incorrect waste management of this product.

For more detailed information about recycling this product, contact your municipality, your domestic waste service or the shop from where you purchased the product.

**Other symbols/decals on the machine refer to special certification requirements for certain markets.**



## Explanation of warning levels

The warnings are graded in three levels.

### WARNING!



**WARNING!** Used if there is a risk of serious injury or death for the operator or damage to the surroundings if the instructions in the manual are not followed.

### CAUTION!



**CAUTION!** Used if there is a risk of injury to the operator or damage to the surroundings if the instructions in the manual are not followed.

### NOTICE!

**NOTICE!** Used if there is a risk of damage to materials or the machine if the instructions in the manual are not followed.

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# PRESENTATION

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## Dear Customer,

Thank you for choosing a Husqvarna product!

It is our wish that you will be satisfied with your product and that it will be your companion for a long time. A purchase of one of our products gives you access to professional help with repairs and services. If the retailer who sells your machine is not one of our authorised dealers, ask him for the address of your nearest service workshop.

This operator's manual is a valuable document. Make sure it is always at hand at the work place. By following its content (using, service, maintenance etc) the life span and the second-hand value of the machine can be extended. If you will sell this machine, make sure that the buyer will get the operator's manual.

## More than 300 years of innovation

Husqvarna AB is a Swedish company based on a tradition that dates back to 1689, when the Swedish King Charles XI ordered the construction of a factory for production of muskets. At that time, the foundation was already laid for the engineering skills behind the development of some of the world's leading products in areas such as hunting weapons, bicycles, motorcycles, domestic appliances, sewing machines and outdoor products.

Husqvarna is the global leader in outdoor power products for forestry, park maintenance and lawn and garden care, as well as cutting equipment and diamond tools for the construction and stone industries.

## User responsibility

It is the owner's/employer's responsibility that the operator has sufficient knowledge about how to use the machine safely. Supervisors and operators must have read and understood the Operator's Manual. They must be aware of:

- The machine's safety instructions.
- The machine's range of applications and limitations.
- How the machine is to be used and maintained.

National legislation could regulate the use of this machine. Find out what legislation is applicable in the place where you work before you start using the machine.

## The manufacturer's reservation

All information and all data in the Operator's Manual were applicable at the time the Operator's Manual was sent to print.

Husqvarna AB has a policy of continuous product development and therefore reserves the right to modify the design and appearance of products without prior notice.

## Features

Values such as high performance, reliability, innovative technology, advanced technical solutions and environmental considerations distinguish Husqvarna's products.

Some of the unique features of your product are described below.

### Elgard™

Elgard™ is an electronic overload protection that protects the motor. The protection spares the machine and extends its service life. With the help of Elgard™, the machine indicates when it approaches maximum load.

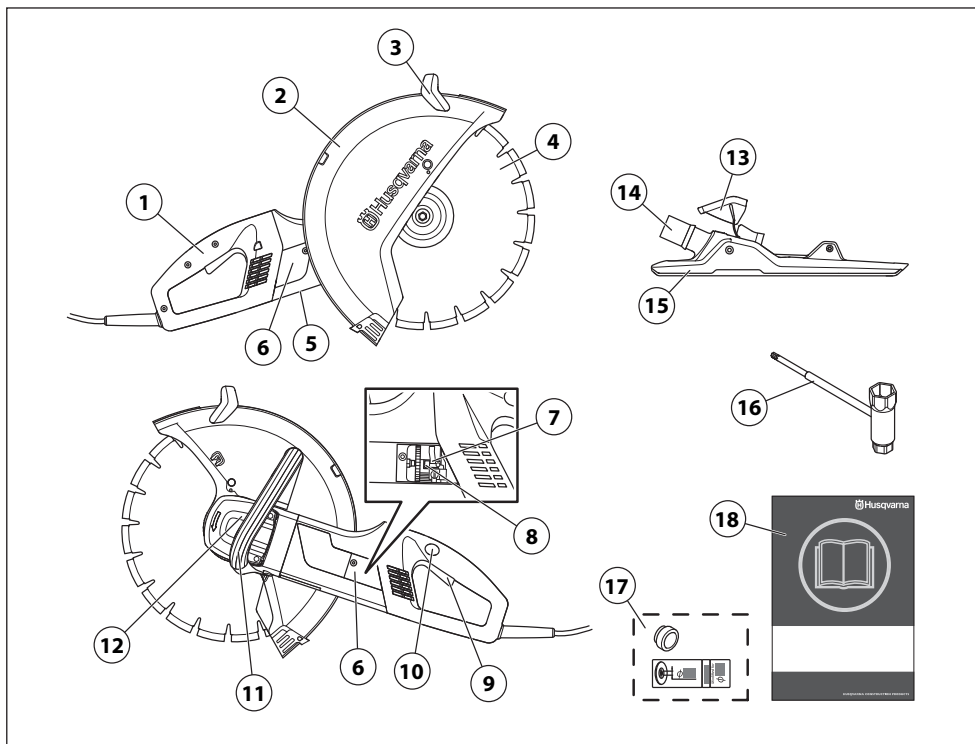
### Softstart™

Softstart™ is an electronic current limiter which provides a softer start.

### Vac attachment

The Vac attachment is easily attached to the machine and connected to the vacuum cleaner/dust collector for effective dust management when dry cutting.

# PRESENTATION



## What is what on the power cutter?

- |                               |                                  |
|-------------------------------|----------------------------------|
| 1 Rear handle                 | 10 Power switch lock             |
| 2 Blade guard 14"             | 11 Front handle                  |
| 3 Adjustment handle for guard | 12 Locking the axle              |
| 4 Cutting blade               | 13 Locking catch                 |
| 5 Rating plate                | 14 Connection for vacuum cleaner |
| 6 Inspection hatch            | 15 Vac attachment                |
| 7 Brush retainer              | 16 Combination spanner           |
| 8 Carbon brushes              | 17 Bushing + decal               |
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# MACHINE'S SAFETY EQUIPMENT

## General



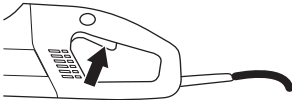
**WARNING! Never use a machine that has faulty safety equipment! If your machine fails any of these checks contact your service agent to get it repaired.**

**To prevent accidental starting, the steps described in this chapter must be performed with the motor off and the power cable removed from the socket, if not otherwise stated.**

This section describes the machine's safety equipment, its purpose, and how checks and maintenance should be carried out to ensure that it operates correctly.

## Power switch

The power switch should be used to start and stop the machine.



## Checking the power switch

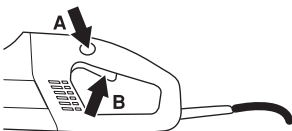
- Start the machine, release the power switch and check that the engine and the cutting blade stop.



- A defective power switch should be replaced by an authorized service workshop.

## Power switch lock

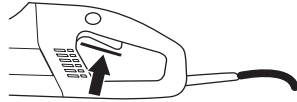
The power switch lock is designed to prevent accidental operation of the switch. When the lock (A) is pressed in the power switch (B) is released.



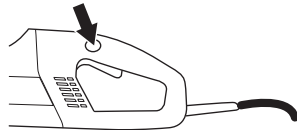
The power switch lock remains depressed as long as the power switch is depressed. When the grip on the handle is released both the power switch and power switch lock are reset. This movement is controlled by two independent return springs. This position results in the machine stopping and the power switch being locked.

## Checking the power switch lock

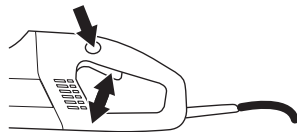
- Make sure the power switch is locked when the power switch lock is in its original position.



- Press in the power switch lock and make sure it returns to its original position when you release it.



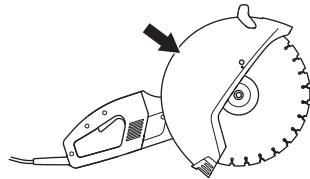
- Check that the power switch and power switch lock move freely and that the return springs work properly.



- Start the machine, release the power switch and check that the engine and the cutting blade stop.

## Blade guard

This guard is fitted above the cutting blade and is designed to prevent parts of the blade or cutting fragments from being thrown towards the user.



## Checking the blade guard



**WARNING! Always check that the guard is correctly fitted before starting the machine. Check that the cutting blade is fitted correctly and does not show signs of damage. A damaged cutting blade can cause personal injury. See instructions under the heading Assembly.**

- Check that the guard is complete and without any cracks or deformations.

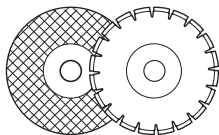
# CUTTING BLADES

## General



**WARNING! A cutting blade may burst and cause injury to the operator.**

- Cutting blades are available in two basic designs; abrasive blades and diamond blades.



- High-quality blades are often most economical. Lower quality blades often have inferior cutting capacity and a shorter service life, which results in a higher cost in relation to the quantity of material that is cut.
- Make sure that the right bushing is used for the cutting blade to be fitted on the machine. See the instructions under the heading Assembling the cutting blade.

## Suitable cutting blades

Cutting blades	K 3000 without a Vac attachment	K 3000 with a Vac attachment
Abrasive blades	Yes	No
Diamond blades	Yes	Yes
Toothed blades	No	No

## Cutting blades for different materials



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

**Cutting plastics with a diamond blade can cause kickback when the material melts due to the heat produced when cutting and sticks to the blade. Never cut plastic materials with a diamond blade!**

**Cutting in metal generates sparks that may cause fire. Do not use the machine near to ignitable substances or gases.**

**Cutting metal is not allowed with the Vac attachment.**

Follow the instructions supplied with the cutting blade concerning the suitability of the blade for various applications, or consult your dealer in case of doubts.

	Concrete	Metal	Plastic	Cast iron
<b>Abrasive blades*</b>	X	X*	X	X
<b>Diamond blades</b>	X	X**	----	X**

\* Only without the Vac attachment.

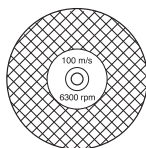
\*\* Only specialty blades. Only without the Vac attachment.

## Hand-held, high-speed machines



**WARNING! Never use a cutting blade at a lower speed rating than that of the power cutter. Only use cutting blades intended for high speed hand-held power cutters.**

- Our cutting blades are manufactured for high-speed, portable power cutters.
- Check that the blade is approved for the same or higher speed according to the approval plate of the engine. Never use a cutting blade with a lower speed rating than that of the power cutter.



## Blade vibration

- The blade can become out-of-round and vibrate if an excessive feed pressure is used.
- A lower feed pressure can stop the vibration. Otherwise replace the blade.

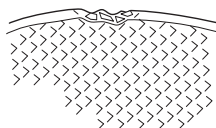
## Abrasive blades



**WARNING! Do not use abrasive blades with water. The strength is impaired when abrasive blades are exposed to water or moisture, which results in an increased risk of the blade breaking.**

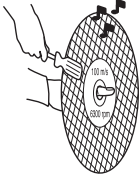
**NOTICE! Cutting with abrasive discs is not allowed with the Vac attachment. Use of abrasive discs causes unnatural wear on the Vac attachment.**

- The cutting material on abrasive blades consists of grit bonded using an organic binder. "Reinforced blades" are made up of a fabric or fibre base that prevents total breakage at maximum working speed if the blade should be cracked or damaged.
- A cutting blade's performance is determined by the type and size of abrasive corn, and the type and hardness of the bonding agent.
- Ensure the blade is not cracked or damaged in any other way.



# CUTTING BLADES

- Test the abrasive blade by hanging it on your finger and tapping it lightly with a screwdriver or the like. If the blade does not produce a resonant, ringing sound it is damaged.



## Abrasive blades for different materials

Blade type	Material
Concrete blade	Concrete, asphalt, stone masonry, cast iron, aluminium, copper, brass, cables, rubber, plastic, etc.
Metal blade	Steel, steel alloys and other hard metals.

## Diamond blades

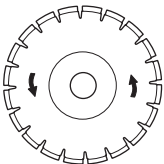
### General



**WARNING!** Cutting plastics with a diamond blade can cause kickback when the material melts due to the heat produced when cutting and sticks to the blade. Diamond blades get very hot when used. An overheated blade is a result of improper use, and may cause deformation of the blade, resulting in damage and injuries.

Cutting in metal generates sparks that may cause fire. Do not use the machine near to ignitable substances or gases. Cutting metal is not allowed with the Vac attachment.

- Diamond blades consist of a steel core provided with segments that contain industrial diamonds.
- Diamond blades ensure lower costs per cutting operation, fewer blade changes and a constant cutting depth.
- When using diamond blades make sure that it rotates in the direction indicated by the arrow on the blade.



## Diamond blades for different materials

- Diamond blades are ideal for masonry, reinforced concrete and other composite materials.
- Diamond blades are available in several hardness classes.
- Special blades should be used when cutting metal. Ask your dealer for help in choosing the right product.

## Sharpening diamond blades

- Always use a sharp diamond blade.
- Diamond blades can become dull when the wrong feeding pressure is used or when cutting certain materials such as heavily reinforced concrete. Working with a blunt diamond blade causes overheating, which can result in the diamond segments coming loose.
- Sharpen the blade by cutting in a soft material such as sandstone or brick.

## Diamond blades for dry cutting

- Diamond blades for dry cutting can be used both with and without water cooling.
- When dry cutting, lift the blade out from the cut every 30–60 seconds and let it rotate in the air for 10 seconds to let it cool. If this is not done, the blade may be overheated.

## Diamond blades for wet cutting

**NOTICE!** Wet cutting should not be performed with the Vac attachment. Wet concrete sludge considerably reduces the suction capacity of the Vac attachment.

- Diamond blades for wet cutting must be water cooled. If this is not done, the blade may be overheated.
- Water cooling cools the blade and increases its service life while also reducing the formation of dust.

## Transport and storage

- Do not store or transport the power cutter with the cutting blade fitted. All blades should be removed from the cutter after use and stored carefully.
- Store cutting blades in dry, frost free conditions. Special care should be taken with abrasive blades. Abrasive blades must be stored on a flat, level surface. If an abrasive blade is stored in humid conditions, this can cause imbalance and result in injury.
- Inspect new blades for transport or storage damage.



# ASSEMBLING AND ADJUSTMENTS

## General



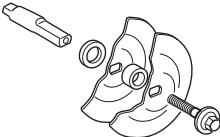
**WARNING! Always pull out the plug from the outlet socket before cleaning, maintenance or assembly.**

Husqvarna's blades are approved for hand-held power cutters.

## Checking the drive shaft and flange washers

When the blade is replaced with a new one, check the flange washers and the drive shaft.

- Check that the threads on the drive shaft are undamaged.
- Check that the contact surfaces on the blade and the flange washers are undamaged, of the correct dimension, clean, and that they run properly on the drive axle.



Do not use warped, notched, indented or dirty flange washers. Do not use different dimensions of flange washers.

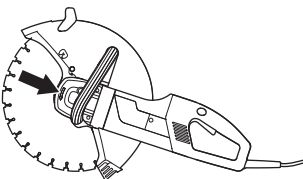
## Checking the bushing

Bushings are used to fit the machine to the centre hole in the cutting blade. The machine is supplied with two different sized bushings, 20 mm (25/32") and 25, 4 mm (1").

- Check that the bushing on the machine's spindle shaft corresponds with the centre hole of the cutting blade. The blades are marked with the diameter of the centre hole.

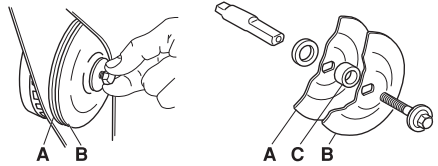
## Checking the direction of the blade rotation

- When using diamond blades make sure that it rotates in the direction indicated by the arrow on the blade. There is an arrow on the machine that indicates the axle's direction of rotation that the blade is mounted on.

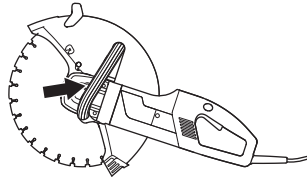


## Fitting the cutting blade

- The blade is placed on the bushing (C) between the inner flange washer (A) and the flange washer (B). The flange washer is turned so that it fits on the axle.



- The cutting blade/axle can be locked by holding in the locking button on the rear of the machine. The button is spring-loaded and is reset when button is released.



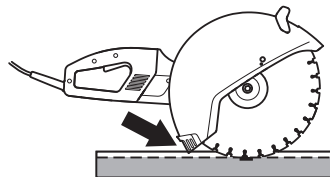
- Tightening torque for the bolt holding the blade is: 15-25 Nm (130-215 in.lb).

## Blade guard

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 up by the guard and led away from the user.

The blade guard is friction locked.

- Press the ends of the guard against the work piece or adjust the guard with the adjustment handle. The guard must always be fitted on the machine.



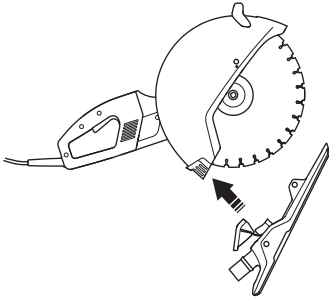
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## ASSEMBLING AND ADJUSTMENTS

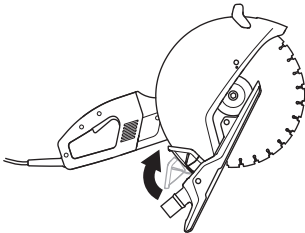
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### Vac attachment

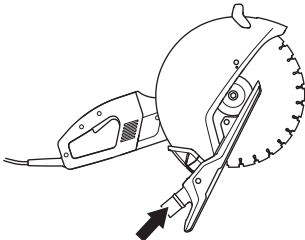
- Slide the Vac attachment into the slots at the back of the cutting blade's protective cover.



- Make sure the locking catch rests upon the lug on the cover. Flip up the locking catch and press it against the protective cover.



- Connect the vacuum cleaner to the machine.



- Recommended dust collector is the Husqvarna DC 3300, DC 5500 or similar.

# OPERATING

## Protective equipment

### General

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

### Personal protective equipment

You must use approved personal protective equipment whenever you use the machine. Personal protective equipment cannot eliminate the risk of injury but it will reduce the degree of injury if an accident does happen. Ask your dealer for help in choosing the right equipment.



**WARNING! The use of products such as cutters, grinders, drills, that sand or form material can generate dust and vapours which may contain hazardous chemicals. Check the nature of the material you intend to process and use an appropriate breathing mask.**

**Long-term exposure to noise can result in permanent hearing impairment. So always use approved hearing protection. Listen out for warning signals or shouts when you are wearing hearing protection. Always remove your hearing protection as soon as the engine stops.**

Always wear:

- Approved protective helmet
- Hearing protection
- Approved eye protection. If you use a face shield then you must also wear approved protective goggles. Approved protective goggles must comply with standard ANSI Z87.1 in the USA or EN 166 in EU countries. Visors must comply with standard EN 1731.
- Breathing mask
- Heavy-duty, firm grip gloves.
- Tight-fitting, heavy-duty and comfortable clothing that permits full freedom of movement.
- Boots with steel toe-caps and non-slip sole.

### Other protective equipment



**CAUTION! Sparks may appear and start a fire when you work with the machine. Always keep fire fighting equipment handy.**

- Fire Extinguisher
- First aid kit

## General safety warnings



**WARNING! Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.**

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

### Work area safety

- Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.
- 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, e.g. slippery surfaces.
- Ensure when cutting that no material can become loose and fall, causing operating injury. Take great care when working on sloping ground.



**WARNING! The safety distance for the power cutter is 15 metres. You are responsible to ensure that animals and onlookers are not within the working area. Do not start cutting until the working area is clear and you are standing firmly.**

### Electrical safety

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce the risk of electric shock.
- Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose the power tool to rain. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of cord suitable for outdoor use reduces the risk of electric shock.

# OPERATING

- Check that the cord and extension cord are intact and in good condition. Never use the machine if the cord is damaged, hand it in to an authorized service workshop for repair.
- To avoid overheating do not use the extension cord while it is rolled up.
- When using an extension cable, use only certified extension cables with sufficient reach. For more information, see "Recommended cable dimensions" in the "Technical data" section. An undersized cable means a risk of reduced machine capacity and overheating.
- The machine should be connected to an earthed outlet socket. Check that the mains voltage corresponds with that stated on the rating plate on the machine.
- Ensure the cord is behind you when you start to use the machine so that the cord will not be damaged.



**WARNING! The machine (Great Britain 110V) is not equipped with a ground fault circuit interrupter. The machine must always be used with an isolating transformer for protection in case an electrical fault should occur.**



**WARNING! Do not wash the machine with water, as water can enter the electrical system or the engine and cause damage to the machine or short circuit.**

## Personal safety

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- Prevent unintentional starting. Ensure the switch is in the OFF-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- If devices are provided for the connection of dust extraction and collection facilities, ensure that these are connected and properly used. Use of dust collection can reduce dust-related hazards.
- Remain at a distance from the blades when the engine is running.

## Power tool use and care

- Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in hazardous situations.
- Never use a machine that has been modified in any way from its original specification.
- Make sure that no pipes or electrical cables are routed in the working area or in the material to be cut.
- Always check and mark out where gas pipes are routed. Cutting close to gas pipes always entails danger. Make sure that sparks are not caused when cutting in view of the risk of explosion. Remain concentrated and focused on the task. Carelessness can result in serious personal injury or death.
- The guard for the cutting equipment must always be on when the machine is running.

# OPERATING

## Service

- Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

## Always use common sense

It is not possible to cover every conceivable situation you can face. Always exercise care and use your common sense. If you get into a situation where you feel unsafe, stop and seek expert advice. Contact your dealer, service agent or an experienced user. Do not attempt any task that you feel unsure of!

## Basic working techniques



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

**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.**

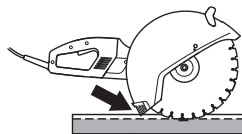
**Cutting plastics with a diamond blade can cause kickback when the material melts due to the heat produced when cutting and sticks to the blade. Never cut plastic materials with a diamond blade!**

**Cutting in metal generates sparks that may cause fire. Do not use the machine near to ignitable substances or gases.**

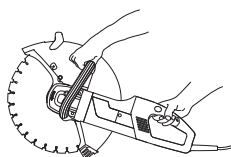
**Cutting metal is not allowed with the Vac attachment.**

- The machine is designed and intended for cutting with abrasive blades or diamond blades intended for high speed handheld machines. The machine shall not be used with any other type of blade, or for any other type of cutting.
- Check that the cutting blade is fitted correctly and does not show signs of damage. See the instructions in the sections "Cutting blades" and "Assembly and settings".
- Check that the correct cutting blade is used for the application in question. See instructions in the section "Cutting blades".
- Never cut asbestos materials!
- Maintain a safe distance from the cutting blade when the engine is running.
- Never leave the machine unsupervised with the motor running.
- Never move the machine when the cutting equipment is rotating.
- 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 up by the guard and led away from the user. The guards for the cutting equipment must always be fitted when the machine is running.



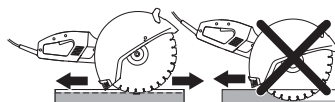
- Never use the kickback zone of the blade for cutting. See instructions under the heading "Kickback".
- Keep a good balance and a firm foothold.
- Never cut above shoulder height.
- Never cut from a ladder. Use a platform or scaffold when working at high altitude.
- Always hold the machine in a firm grip with both hands. Hold it so that the thumbs and fingers grip round the handles.



- Stand at a comfortable distance from the work piece.
- Check that the blade is not in contact with anything when the machine is started
- Apply the cutting blade gently with high rotating speed (full throttle) Maintain full speed until cutting is complete.
- Let the machine work without forcing or pressing the blade.
- Feed down the machine in line with the blade. Pressure from the side can damage the blade and is very dangerous.



- Move the blade slowly forwards and backwards to achieve a small contact area between the blade and the material to be cut. This reduces the temperature of the blade and ensures effective cutting.



# OPERATING

## Managing dust

The Vac attachment is easily attached to the machine and connected to the vacuum cleaner/dust collector for effective dust management when dry cutting.

The amount of dust created when cutting depends on the material being cut. Soft materials produce more dust. Adapt the cutting speed so that the Vac attachment can collect all the dust that is produced.

## Gradual start and overload protection

The machine is equipped with electronically controlled gradual start and overload protection.

The engine starts to pulsate if the machine is loaded above a specific level. If the load is reduced the engine reverts to its normal state and cutting can resume.

The electronics will cut the current after a set time if the machine continues to be run with a pulsating engine. The higher load the faster the shutoff.

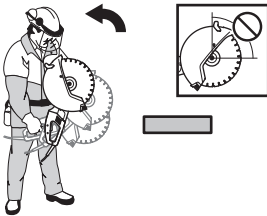
The electronics cut the current immediately if the blade jams.

## Kickback



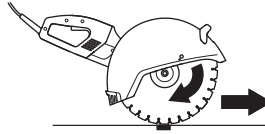
**WARNING! Kickbacks are sudden and can be very violent. The power cutter can be thrown up and back towards the user in a rotating motion causing serious or even fatal injury. It is vital to understand what causes kickback and how to avoid it before using the machine.**

Kickback is the sudden upward motion that can occur if the blade is pinched or stalled in the kickback zone. Most kickbacks are small and pose little danger. However a kickback can also be very violent and throw the power cutter up and back towards the user in a rotating motion causing serious or even fatal injury.



## Reactive force

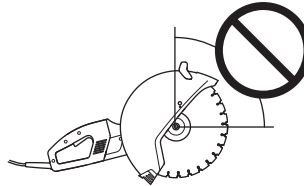
A reactive force is always present when cutting. The force pulls the machine in the opposite direction to the blade rotation. Most of the time this force is insignificant.



If the blade is pinched or stalled the reactive force will be strong and you might not be able to control the power cutter.

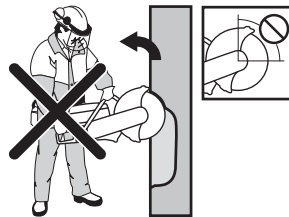
## Kickback zone

Never use the kickback zone of the blade for cutting. If the blade is pinched or stalled in the kickback zone, the reactive force will push the power cutter up and back towards the user in a rotating motion causing serious or even fatal injury.



## Climbing kickback

If the kickback zone is used for cutting the reactive force drives the blade to climb up in the cut. Do not use the kickback zone. Use the lower quadrant of the blade to avoid climbing kickback.



# OPERATING

## Pinching kickback

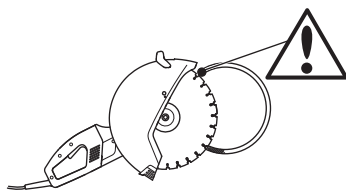
Pinching is when the cut closes and pinches the blade. If the blade is pinched or stalled the reactive force will be strong and you might not be able to control the power cutter.



If the blade is pinched or stalled in the kickback zone, the reactive force will push the power cutter up and back towards the user in a rotating motion causing serious or even fatal injury.

## Pipe cutting and pinching

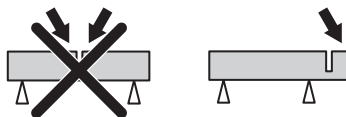
Special care should be taken when cutting in pipes. If the pipe is not properly supported and the cut kept open through out the cut the blade might be pinched in the kickback zone and cause a severe kickback.



## How to avoid kickback

Avoiding kickback is simple.

The work piece must always be supported so that the cut stays open when cutting through. When the cut opens there is no kickback. If the cut closes and pinches the blade there is always a risk of kickback.



Take care when inserting the blade in an existing cut.

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.

## Transport and storage

- Secure the equipment during transportation in order to avoid transport damage and accidents.
- For transport and storage of cutting blades, see the section "Cutting blades".
- For transport and storage of fuel, see the section "Fuel handling".
- Store the equipment in a lockable area so that it is out of reach of children and unauthorized persons.

# STARTING AND STOPPING

## Before starting



**WARNING!** Please read the operator's manual carefully and make sure you understand the instructions before using the machine.

Wear personal protective equipment. See instructions under the heading "Personal protective equipment".

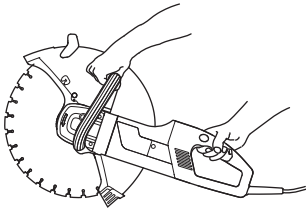
Make sure no unauthorised persons are in the working area, otherwise there is a risk of serious personal injury.

Check that the mains voltage corresponds with that stated on the rating plate on the machine.

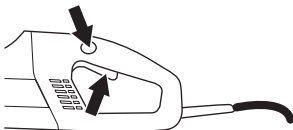
- Perform daily maintenance. See instructions in the section "Maintenance".

## Starting

- Grip the front handle with the left hand.
- Grip the rear handle with your right hand.



- Press in the power switch lock with your right-hand thumb and press in the power switch.



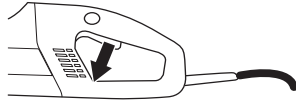
- Run the machine unloaded and in a safe manner for at least 30 seconds.

## Stopping



**WARNING!** The cutting blade continues to rotate up to a minute after the motor has stopped. (Blade coasting.) Make sure that the cutting blade can rotate freely until it is completely stopped. Carelessness can result in serious personal injury.

Stop the motor by releasing the power switch.





# MAINTENANCE

## General



**WARNING!** The user must only carry out the maintenance and service work described in this Operator's Manual. More extensive work must be carried out by an authorized service workshop.

Inspection and/or maintenance should be carried out with the motor switched off and the plug disconnected.

Wear personal protective equipment. See instructions under the heading "Personal protective equipment".

The life span of the machine can be reduced and the risk of accidents can increase if machine maintenance is not carried out correctly and if service and/or repairs are not carried out professionally. If you need further information please contact your nearest service workshop.

- Let your Husqvarna dealer regularly check the machine and make essential adjustments and repairs.

## Maintenance schedule

In the maintenance schedule you can see which parts of your machine that require maintenance, and with which intervals it should take place. The intervals are calculated based on daily use of the machine, and may differ depending on the rate of usage.

\*See instructions in the section "Machine's safety equipment".

\*\* See instructions in the section "Cutting blades" and "Assembly and settings".

	Daily maintenance	Weekly maintenance/40 hours	Every 4 months
Cleaning	External cleaning		
	Cooling air intake		
	Vac attachment		
Functional inspection	General inspection	Carbon brushes	
	Power switch*		
	Power switch lock*		
	Blade guard*		
	Cutting blade**		
Change			Gearbox grease

# MAINTENANCE

## Cleaning

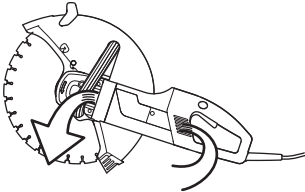
### External cleaning



**WARNING! The machine is not equipped with a ground fault circuit interrupter. Do not wash the machine with water, as water can enter the electrical system or the engine and cause damage to the machine or short circuit.**

### Cooling air intake

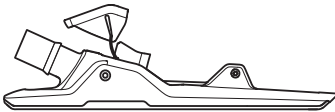
The machine is equipped with an efficient fan to cool the motor. Cooling air which is drawn in through the grille by the machines rear handle passes over the stator and rotor and out through the front of the motor housing.



- In order for the machine to always be cooled sufficiently the cooling air openings must be kept clear and clean. Blow down the machine regularly with compressed air.

### Vac attachment

- Clean off any dust that may have gathered in the Vac attachment.



## Functional inspection

### General inspection



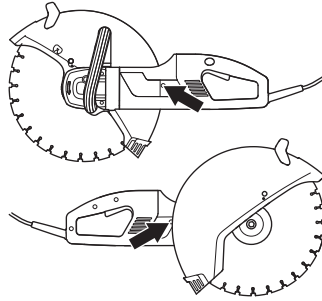
**WARNING! Never use damaged cables. They can cause serious, even fatal, personal injuries.**

- Check that the cord and extension cord are intact and in good condition. Never use the machine if the cord is damaged, hand it in to an authorized service workshop for repair.
- Check that nuts and screws are tight.

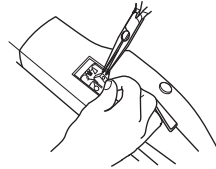
## Carbon brushes

The carbon brushes should be replaced with new brushes if they are worn, cracked or in any other way deformed. All carbon brushes must be replaced when the brushes are replaced.

- Remove both inspection covers by loosening both screws.



- Unscrew the cable holding the carbon brush. Now lift up the spring and then lift out the carbon brush from the brush retainer.



- Clean the brush retainers with a dry brush.
- Carefully blow away the dust.
- Fit the new carbon brushes and, at the same time, check that they slide easily in the brush retainers.
- Fold down the springs and tighten the cable.
- New carbon brushes must be run in for approximately 40 minutes while idling.

# MAINTENANCE

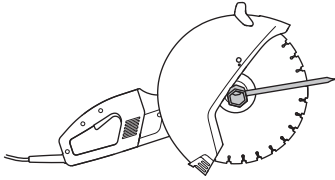
## Gearbox grease

The gear housing must not be filled completely with grease. The grease expands as the machine heats up during operation. If the gear housing was completely filled with grease it could damage the seals and lead to leakage of grease.

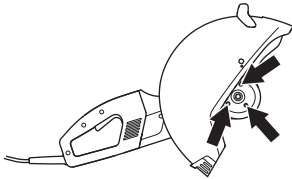
The gear housing should contain 90 g of grease in total. Use high quality gear grease.

The following parts must be dismantled to change the grease in the gear housing:

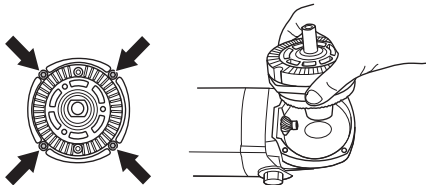
- Flange washers holding the cutting blade



- The sealing ring
- Support flange for the guard



- Blade guard
- The four screws holding the shield. Lift the shield together with the drive wheel unit out of the gear housing.



- Wipe out the grease and fill with new, good quality gear grease. The gear housing should contain 90 g of grease in total.

**NOTICE!** Exercise care when dismantling so as not to damage the gaskets. These are used both as seals and spacers for the gear setting.

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# TECHNICAL DATA

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## K 3000 Vac

### Engine

Protection class	I
Ground fault circuit interrupter	No

### Rated voltage, V

Europe	230
Great Britain	110
USA / Canada / Japan	100-120
Australia	230

### Rated output, W

Europe	2700/12 A
Great Britain	2200/20 A
USA / Canada / Japan	15 A, 50-60 Hz
Australia	2300/10 A

### Weight

Machine with cable packadge, without blade and Vac attachment, kg (lbs)	7,4
Vac attachment, kg (lbs)	1

### Water cooling

Water cooling of blade	No
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### Noise emissions (see note 1)

Sound power level, measured dB(A)	104
Sound power level, guaranteed dB(A)	105

### Sound levels (see note 2)

Sound pressure level at the operators ear, dB(A)	95
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### Vibration levels (see note 3)

Front handle, m/s <sup>2</sup>	3,5
Rear handle, m/s <sup>2</sup>	3,5

Note 1: Noise emissions in the environment measured as sound power ( $L_{WA}$ ) in conformity with EN 60745-2-3.

Note 2: Noise pressure level according to EN 60745-2-3. Reported data for noise pressure level has a typical statistical dispersion (standard deviation) of 1.0 dB(A).

Note 3: Vibration level according to EN EN 60745-2-3. Reported data for vibration level has a typical statistical dispersion (standard deviation) of 1 m/s<sup>2</sup>.

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## TECHNICAL DATA

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### Cutting equipment

Cutting blade, mm/inches	350/14
Max. peripheral speed, m/s	100
Max. blade speed, rpm	4500
Max. cutting depth, mm (inch)	125 (4 59/64)
Max. cutting depth with the Vac attachment, mm (inch)	119 (4 11/16)

### Recommended cable dimensions

Cable area	1,5 mm <sup>2</sup>	2,5 mm <sup>2</sup>
Input voltage 100-120 V	20 m	40 m
Input voltage 220-240 V	30 m	50 m

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# TECHNICAL DATA

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## EC-declaration of conformity

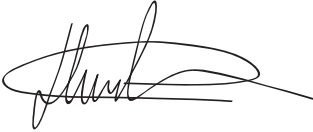
### (Applies to Europe only)

Husqvarna AB, SE-433 81 Göteborg, Sweden, tel: +46-31-949000, declares under sole responsibility that the power cutter **Husqvarna K 3000 Vac** dating from 2010 serial numbers and onwards (the year is clearly stated on the rating plate, followed by the serial number), complies with the requirements of the COUNCIL'S DIRECTIVE:

- of May 17, 2006 "relating to machinery" **2006/42/EC**
- of December 15, 2004 "relating to electromagnetic compatibility" **2004/108/EC**.
- of December 12, 2006 "relating to electrical equipment" **2006/95/EC**.

The following standards have been applied: EN ISO 12100:2003, EN 55014-1:2006, EN 55014-2/A1:2001, EN 61000-3-2:2006, EN 61000-3-3/A1/A2:2005, EN 60745-1:2009, IEC 60745-2-22:2009.

Gothenburg December 29, 2010



Henric Andersson

Vice President, Head of Power Cutters and Construction Equipment

Husqvarna AB

(Authorized representative for Husqvarna AB and responsible for technical documentation.)



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Original instructions



2011-01-16