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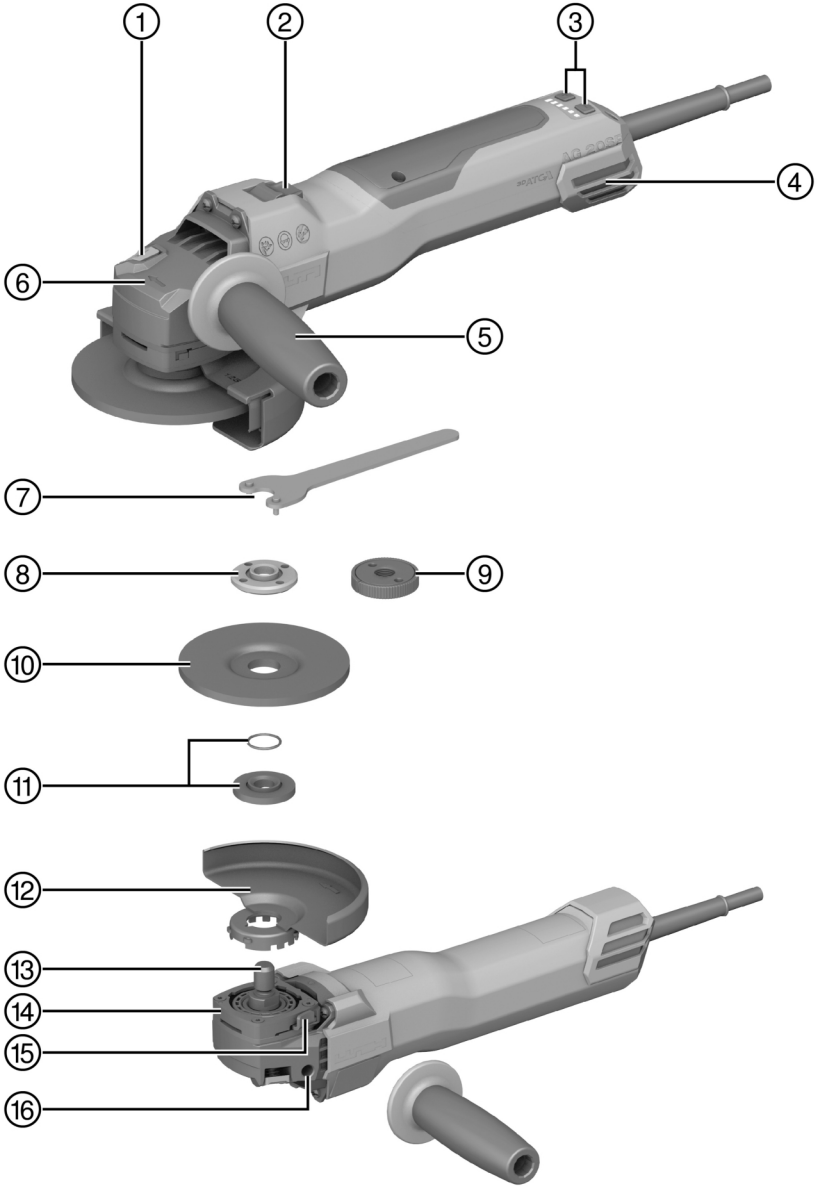
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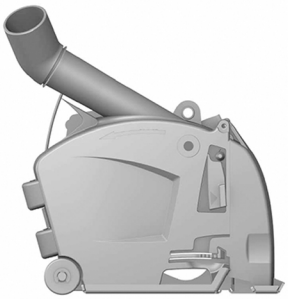

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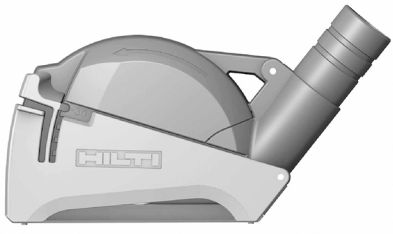

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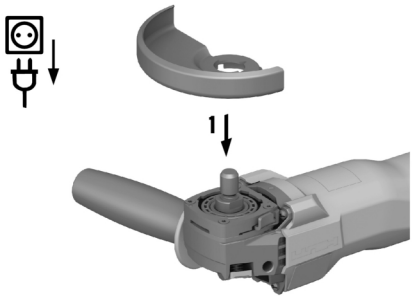

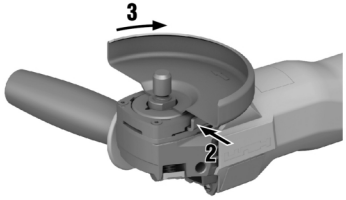

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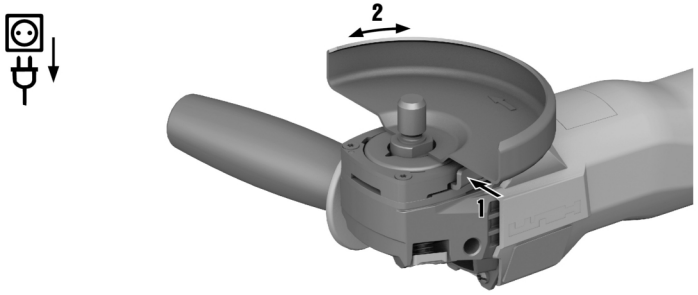

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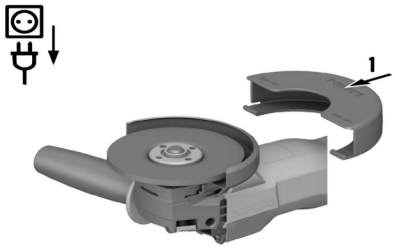

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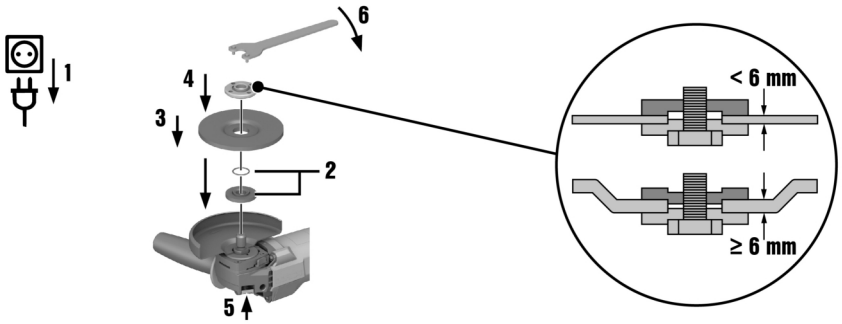

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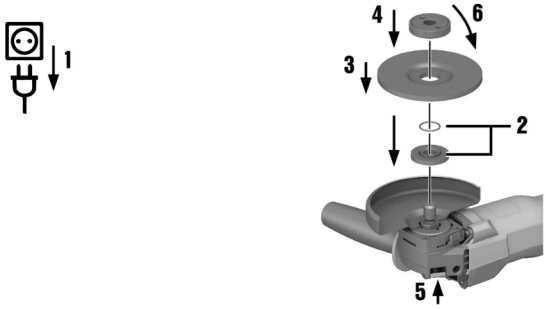

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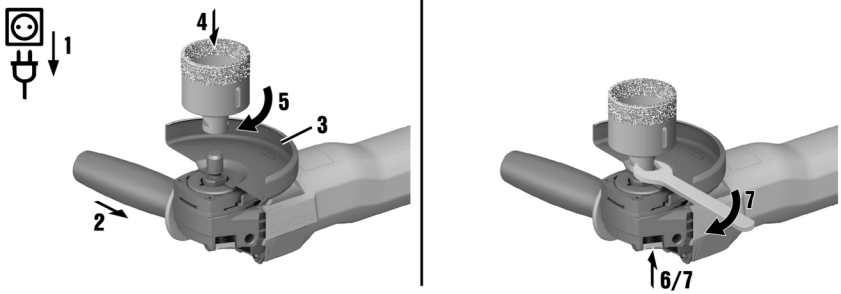

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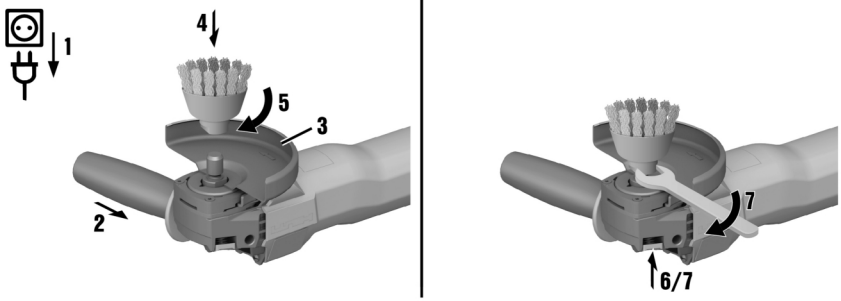

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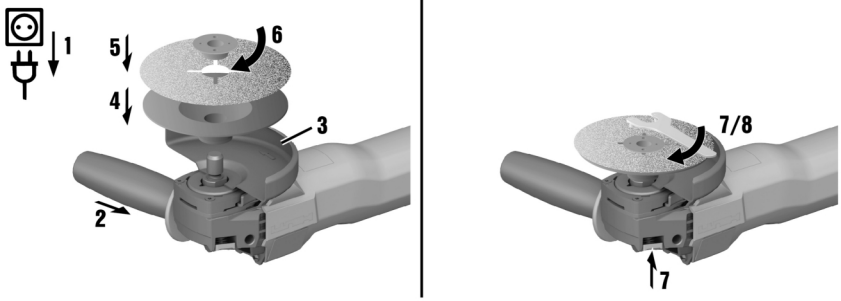

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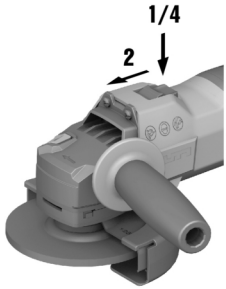


en Original operating instructions

Information about the operating instructions

About these operating instructions

- **Warning!** Read and understand all accompanying documentation, including but not limited to instructions, safety warnings, illustrations, and specifications provided with this product. Familiarize yourself with all the instructions, safety warnings, illustrations, specifications, components, and functions of the product before use. Failure to do so may result in electric shock, fire, serious injury or death. Save all warnings and instructions for future reference.
- HILTI products are designed for professional users and only trained, authorized personnel are permitted to operate, service and maintain the products. This personnel must be specifically informed about the possible hazards. The product and its ancillary equipment can present hazards if used incorrectly by untrained personnel or if used not in accordance with the intended use.
- The accompanying documentation corresponds to the current state of the art at the time of printing. Please always check for the latest version on the product's page on Hilti's website. To do this, follow the link or scan the QR code in this documentation, marked with the symbol .
- The operating instructions must always remain ready to hand at the product. Ensure that these operating instructions are with the product when it is given to other persons.

Explanation of symbols used

Warnings

Warnings alert persons to hazards that occur when handling or using the product. The following signal words are used:

DANGER

DANGER !

- ▸ Draws attention to imminent danger that will lead to serious personal injury or fatality.

WARNING

WARNING !

- ▸ Draws attention to a potential threat of danger that can lead to serious injury or fatality.

CAUTION

CAUTION !

- ▸ Draws attention to a potentially dangerous situation that could lead to personal injury or damage to the equipment or other property.

Symbols in the operating instructions

The following symbols are used in these operating instructions:

	Comply with the operating instructions
	Instructions for use and other useful information
	Dealing with recyclable materials
	Do not dispose of electric equipment and batteries as household waste

Symbols in illustrations

The following symbols are used in illustrations:

2	These numbers refer to the illustrations at the beginning of these operating instructions.
3	The numbering reflects the sequence of operations shown in the illustrations and may deviate from the steps described in the text.
(11)	Item reference numbers are used in the **overview illustration** and refer to the numbers used in the key in the **product overview** section.
	These characters are intended to specifically draw your attention to certain points when handling the product.

Product-dependent symbols

General symbols

Symbols used in relation to the product.

	Always work with both hands.
	Do not work with the standard guard when carrying out cutting work.
n_0	Rated speed under no load

/min	Revolutions per minute
RPM	Revolutions per minute
Ø	Diameter
⧈	Protection class II (double-insulated)
	The product supports near-field communication (NFC) technology compatible with iOS and Android platforms.

Obligation symbols

Obligation symbols indicate "must do" actions.

	Wear eye protection

Safety

General power tool safety warnings

⚠ **WARNING Read all safety warnings, instructions, illustrations and specifications provided with this power tool.** Failure to follow all instructions listed below 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.

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 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 power tools to rain or wet conditions.** 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 a cord suitable for outdoor use reduces the risk of electric shock.
- **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

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 a 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 and clothing 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 these are connected and properly used.** Use of dust collection can reduce dust-related hazards.
- **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

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 remove the battery pack, if detachable, 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 and accessories. 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 a hazardous situation.
- **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

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.

Safety instructions for all operations

Safety warnings common for grinding, sanding, wire brushing, polishing or cutting-off operations:

- **This power tool is intended to function as a grinder, sander, wire brush, polisher, hole cutter or cut-off tool. Read all safety warnings, instructions, illustrations and specifications provided with this power tool.** Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.
- **Do not convert this power tool to operate in a way which is not specifically designed and specified by the tool manufacturer.** Such a conversion may result in a loss of control and cause serious personal injury.
- **Do not use accessories which are not specifically designed and specified by the tool manufacturer.** Just because the accessory can be attached to your power tool, it does not assure safe operation.
- **The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.** Accessories running faster than their rated speed can break and fly apart.
- **The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool.** Incorrectly sized accessories cannot be adequately guarded or controlled.
- **The dimensions of the accessory mounting must fit the dimensions of the mounting hardware of the power tool.** Accessories that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
- **Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, backing pad for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute.** Damaged accessories will normally break apart during this test time.
- **Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments.** The eye protection must be capable of stopping flying debris generated by various applications. The dust mask or respirator must be capable of filtrating particles generated by the particular application. Prolonged exposure to high intensity noise may cause hearing loss.
- **Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment.** Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.
- **Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- **Position the cord clear of the spinning accessory.** If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.
- **Never lay the power tool down until the accessory has come to a complete stop.** The spinning accessory may grab the surface and pull the power tool out of your control.
- **Do not run the power tool while carrying it at your side.** Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
- **Regularly clean the power tool's air vents.** The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
- **Do not operate the power tool near flammable materials.** Sparks could ignite these materials.
- **Do not use accessories that require liquid coolants.** Using water or other liquid coolants may result in electrocution or shock.

Kickback and related warnings

Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation at the point of the binding.

For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions.

Kickback is the result of power tool misuse and / or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- **Maintain a firm grip with both hands on the power tool and position your body and arms to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up.** The operator can control torque reactions or kickback forces, if proper precautions are taken.
- **Never place your hand near the rotating accessory.** Accessory may kickback over your hand.

- **Do not position your body in the area where power tool will move if kickback occurs.** Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.
- **Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory.** Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.
- **Do not attach a saw chain woodcarving blade, segmented diamond wheel with a peripheral gap greater than 10 mm or toothed saw blade.** Such blades create frequent kickback and loss of control.

Safety warnings specific for grinding and cutting-off operations:

- **Use only wheel types that are specified for your power tool and the specific guard designed for the selected wheel.** Wheels for which the power tool was not designed cannot be adequately guarded and are unsafe.
- **The grinding surface of centre depressed wheels must be mounted below the plane of the guard lip.** An improperly mounted wheel that projects through the plane of the guard lip cannot be adequately protected.
- **The guard must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator.** The guard helps to protect the operator from broken wheel fragments, accidental contact with wheel and sparks that could ignite clothing.
- **Wheels must be used only for specified applications. For example: do not grind with the side of cut-off wheel.** Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.
- **Always use undamaged wheel flanges that are of correct size and shape for your selected wheel.** Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage. Flanges for cut-off wheels may be different from grinding wheel flanges.
- **Do not use worn down wheels from larger power tools.** A wheel intended for larger power tool is not suitable for the higher speed of a smaller tool and may burst.
- **When using dual purpose wheels always use the correct guard for the application being performed.** Failure to use the correct guard may not provide the desired level of guarding, which could lead to serious injury.

Additional safety warnings specific for cutting-off operations:

- **Do not "jam" the cut-off wheel or apply excessive pressure. Do not attempt to make an excessive depth of cut.** Overstressing the wheel increases the loading and susceptibility to twisting or binding of the wheel in the cut and the possibility of kickback or wheel breakage.
- **Do not position your body in line with and behind the rotating wheel.** When the wheel, at the point of operation, is moving away from your body, the possible kickback may propel the spinning wheel and the power tool directly at you.
- **When the wheel is binding or when interrupting a cut for any reason, switch off the power tool and hold it motionless until the wheel comes to a complete stop. Never attempt to remove the cut-off wheel from the cut while the wheel is in motion otherwise kickback may occur.** Investigate and take corrective action to eliminate the cause of wheel binding.
- **Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully re-enter the cut.** The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.
- **Support panels or any oversized workpiece to minimize the risk of wheel pinching and kickback.** Large workpieces tend to sag under their own weight. Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.
- **Use extra caution when making a "pocket cut" into existing walls or other blind areas.** The protruding wheel may cut gas or water pipes, electrical wiring or objects that can cause kickback.
- **Do not attempt to do curved cutting.** Overstressing the wheel increases the loading and susceptibility to twisting or binding of the wheel in the cut and the possibility of kickback or wheel breakage, which can lead to serious injury.

Safety warnings specific for sanding operations:

- **Use proper sized sanding disc paper. Follow manufacturers recommendations, when selecting sanding paper.** Larger sanding paper extending too far beyond the sanding pad presents a laceration hazard and may cause snagging, tearing of the disc or kickback.

Safety warnings specific for polishing operations:

- **Do not allow any loose portion of the polishing bonnet or its attachment strings to spin freely. Tuck away or trim any loose attachment strings.** Loose and spinning attachment strings can entangle your fingers or snag on the workpiece.

Safety warnings specific for wire brushing operations:

- **Be aware that wire bristles are thrown by the brush even during ordinary operation. Do not overstress the wires by applying excessive load to the brush.** The wire bristles can easily penetrate light clothing and / or skin.
- **If the use of a guard is specified for wire brushing, do not allow any interference of the wire wheel or brush with the guard.** Wire wheel or brush may expand in diameter due to work load and centrifugal forces.

Additional safety instructions

- Use the product and accessories only when they are in perfect working order.
- Never tamper with or modify the product or accessories in any way.
- Wear ear protectors. Exposure to noise can cause hearing loss.
- Always hold the product with both hands on the grips provided. Keep the grips dry, clean and free from oil and grease.
- Respiratory protection must be worn if the product is used without a dust removal system for work that creates dust.
- Take frequent breaks and do physical exercises to improve the blood circulation in your fingers. High vibration during long periods of work can lead to disorders of the blood vessels and nervous system in the fingers, hands and wrists.
- Do not touch rotating parts. Switch the product on only after it is in position at the workpiece. Touching rotating parts, especially rotating accessory tools, can result in injury.
- The product is not intended for use by debilitated persons who have received no special training. Keep the product out of reach of children.

- Dust produced by grinding, sanding, cutting and drilling can contain dangerous chemicals. Some examples are: lead or lead-based paints; brick, concrete and other masonry products, natural stone and other products containing silicates; certain types of wood, such as oak, beech and chemically treated wood; asbestos or materials that contain asbestos. Determine the exposure of the operator and bystanders by means of the hazard classification of the materials to be worked. Implement the necessary measures to restrict exposure to a safe level, for example by the use of a dust collection system or by the wearing of suitable respiratory protection. The general measures for reducing exposure include:
  - working in an area that is well ventilated,
  - avoidance of prolonged contact with dust,
  - directing dust away from the face and body,
  - wearing protective clothing and washing exposed areas of the skin with water and soap.
- The user and the other persons in the vicinity must wear suitable eye protection, a hard hat and ear protection while the product is in use.
- Risk of injury by falling tools and/or accessories. Before starting work, check that installed accessories are secure.
- Keep the air vents clear at all times. Risk of burn injuries due to blocked air vents!
- Switch the product on only after you have brought it to the working position.
- Wait until the product stops completely before you lay it down.
- Wear protective gloves when changing the accessory tool. Touching the accessory tool can result in cuts and burns.

Power tool use and care

- Grinding wheels must be stored and handled carefully in accordance with the manufacturer's instructions.
- Never use the product without the guard.
- Secure the workpiece. Use clamps or a bench vise to hold the workpiece in position. The workpiece is thus held more securely than by hand and both hands remain free to operate the product.
- Do not use cut-off wheels for grinding.
- Tighten the accessory tool and flange securely. If the accessory tool and flange are not tightened securely, the accessory tool may work loose from the arbor due to the braking effect of the motor after switching off.
- Do not attach a belt hook to this product.

Electrical safety

- Before beginning work, check the working area for concealed electric cables or gas and water pipes. External metal parts of the product could give you an electric shock or cause an explosion if you accidentally damage an electric cable or a gas or water pipe.
- Dirty or dusty products that have been used frequently for work on conductive materials should be checked at regular intervals by **Hilti** Service. Dust (especially dust from conductive materials) or dampness adhering to the surface of the power tool may, under unfavorable conditions, lead to electric shock.

Workplace

- Apply appropriate safety measures at the opposite side of the workpiece in work that involves breaking through. Pieces of debris could drop out and / or fall down and injure other persons.
- Slits cut in load-bearing walls of buildings or other structures may influence the statics of the structure, especially when steel reinforcing bars or load-bearing components are cut through. Consult the responsible structural engineer, architect or person in charge of the building project before beginning the work.

Additional notes on the use of the guards

To avoid the risks below always use the correct guard, see the section headed: "Suitability of wheels for the equipment used".

- If the Standard guard with front cover is used for surface grinding, the guard can touch the workpiece and thus lead to loss of control.
- If a wire brush of a thickness exceeding the maximum permissible thickness is used, the wires can snag on the guard and break.
- If the standard guard is used for cutting off metal with an abrasive cut-off wheel, there is an increased risk of exposure to sparks and particles and to wheel fragments if the wheel breaks.
- If the standard guard is used with or without front cover for cutting or for grinding concrete or masonry, there is a higher dust load and an increased risk of losing control of the product, which can lead to kickbacks.

Description

Product overview 1

①	Spindle lock button	⑨	**Kwik lock** quick-release lock nut (optional)
②	On/off switch	⑩	Abrasive cut-off wheel / abrasive grinding wheel
③	Speed control (with LED indicator)	⑪	Clamping flange with O-ring
④	Dust filter	⑫	Guard
⑤	Vibration-absorbing side handle	⑬	Spindle
⑥	Direction-of-rotation indicator	⑭	Quick locking system
⑦	Pin wrench	⑮	Guard release button
⑧	Clamping nut	⑯	Threaded socket for grip

Intended use

The product described is a hand-held electric angle grinder. It is designed for cutting and grinding metal and mineral materials, brushing, sanding and for hole cutting in tiles, all without use of water.

The tool may be operated only when connected to a power supply providing a voltage and frequency in compliance with the information given on its rating plate.

- The power tool may be used for cutting, slitting and grinding mineral materials only when equipped with the corresponding guard and front cover.

- A dust removal hood together with a suitable **Hilti** vacuum cleaner must be used for working on mineral materials such as concrete or stone.

Items supplied

Angle grinder, side handle, standard guard, front cover, clamping flange, clamping nut, wrench, operating instructions.

Other system products approved for use with this product can be found at your local **Hilti Store** or at: **www.hilti.group**

Adjusting speed

The product features button-adjustable speed control in the 3000 to 9400 rpm range.

Starting current limiter

The electronic starting current limiter reduces the starting current drawn to prevent the line fuse from tripping. This prevents abrupt start-up of the product.

Constant-speed electronics

Electronic speed control keeps running speed almost constant irrespective of whether the power tool is idling or running under load. Constant running speed helps ensure maximum efficiency.

3D Active Torque Control (^{3D}ATC)

The product has **3D Active Torque Control** (^{3D}ATC).

If it detects a sudden, unforeseen movement in operation, the product automatically shuts down immediately.

If ^{3D}**ATC** has tripped, switch the product off and then on again.

Restart interlock

The product does not restart by itself when the on/off switch is locked in the ON position and power is restored after an interruption in the electric supply. The on/off switch must first be released and then pressed again.

Temperature-dependent motor protection

The temperature-dependent motor protection system monitors current draw and motor temperature to prevent the product from overheating.

If the motor is overloaded through application of excessive working pressure, the product's performance drops noticeably or it might stall completely. A standstill should be avoided. The product's permissible overload depends on motor temperature and is not a specific value.

Integrated brake

The integrated brake reduces the time it takes until the accessory tool stops rotating after switching off.

This functions correctly only as long as the product is supplied with electric current.
Braking time varies, depending on the selected accessory tool.

Front cover 2

Use the standard guard with front cover for the applications listed below:

- Grinding with straight grinding wheels
- Cutting with cut-off wheels

DG-EX dust hood for grinding (accessory) 3

The grinding system is suitable only for occasional use with diamond cup wheels for grinding mineral materials.

Use of this guard for working on metal is not permissible.

The dust hood is suitable only for accessory tools with a diameter of max. 125 mm (5″).

DC-EX 125/5"M dust hood for cutting (accessory) 4

The power tool may be used for cutting and slitting work on mineral materials only when fitted with a dust hood.

Use of this guard for working on metal is not permissible.

The dust hood is suitable only for accessory tools with a diameter of max. 125 mm (5″).

DC-EX 125/5"C compact dust hood for cutting (accessory) 5

Use the DC-EX 125/5"C compact hood when working on mineral materials and for the following jobs:

- Cutting with diamond cut-off wheels

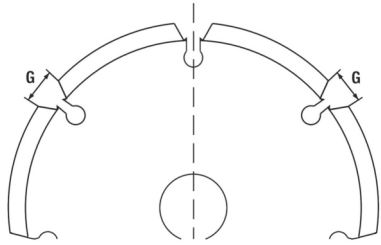
Use of this guard for working on metal is not permissible.

The dust hood is suitable only for accessory tools with a diameter of max. 125 mm (5″).

Dimensions and format of suitable diamond slitting wheels

Diamond slitting wheels must meet the following requirements in terms of dimensions and format.

Technical data	
Slot width between segments (G)	≤ 10 mm
Cutting angle	Negative



Consumables

Use only synthetic-resin-bonded, fiber-reinforced wheels approved for a rotational speed of at least 11000 rpm and a peripheral speed of 80 m/s.

ATTENTION! When cutting or slitting with cut-off wheels always use the standard guard with the additional front cover, or a fully enclosing dust hood.

Accessory tools

	Application	Designation	Material	max. thickness	max. diameter
Abrasive cut-off wheel	Cutting, slitting	AC-D	Metal	2.5 mm	125 mm
Diamond cut-off wheel	Cutting, slitting	DC-TP, DC-D (SPX, SP, P)	Mineral	3 mm	125 mm
Abrasive grinding wheel	Rough grinding	AG-D, AF-D, AN-D	Metal	6.4 mm	125 mm
Diamond grinding wheel	Rough grinding	DG-CW (SPX, SP, P)	Mineral	—	125 mm
Wire cup brush Wheel brush	Wire brushes	3CS, 4CS 3SS, 4SS	Metal	— 27 mm	75 mm 125 mm
Diamond core bit	Hole cutting in tiles	DD-M14	Mineral	—	125 mm
Abrasive resin-fiber wheel	Rough grinding	AP-D	Metal	—	125 mm

Suitability of wheels for the equipment used

•/•	Equipment	AC-D	AP-D	AG-D AF-D AN-D	DG-CW (SPX/SP/P)	DC-TP DC-D (SPX/SP/P)	3CS/4CS 3SS/4SS DD-M14
A	Guard (standard)	✓	✓	✓	—	✓	✓
B	Front cover (in combination with A)	✓	—	—	—	✓	—
C	Dust hood (grinding) DG-EX 125/5"	—	—	—	✓	—	—
D	Dust hood (cutting) DC-EX 125/5"C (in combination with A)	—	—	—	—	✓	—
E	Dust hood (slitting) DC-EX 125/5"M	—	—	—	—	✓	—
F	Side handle (standard)	✓	✓	✓	✓	✓	✓
G	Clamping nut (standard)	✓	—	✓	✓	✓	—
H	Clamping flange (standard)	✓	—	✓	✓	✓	—
I	**Kwik lock** (optional for G)	✓	—	✓	—	✓	—
J	Clamping nut (abrasive resin-fiber wheel)	—	✓	—	—	—	—
K	Support plate (abrasive resin-fiber wheel)	—	✓	—	—	—	—

Product information

For rated voltage, rated current, frequency and/or input power, refer to the rating plate.

If the product is powered by a generator or transformer, the generator or transformer's power output must be at least twice the rated input power shown on the rating plate of the product. The operating voltage of the transformer or generator must always be within +5 % and -15 % of the rated voltage of the product.

ATTENTION! For working with a 150 mm accessory tool, a 150 mm guard (supplied separately) must be used.

	AG 125-20SE
Product generation	01
Rated speed under no load	10,000 /min
Maximum permitted wheel diameter	150 mm If a suitable ⌀ 150 mm Hilti guard is used (supplied separately)
Maximum wheel diameter in accordance with scope of supply	125 mm When the guard supplied with the product is used ⌀ 125 mm.
Drive spindle thread	M14
Spindle length	22 mm
Weight	2.4 kg
Ambient temperature for operation	−17 °C ... 60 °C
Storage temperature	−20 °C ... 70 °C

Noise information and vibration values in accordance with 62841

The sound pressure and vibration values given in these instructions were measured in accordance with a standardized test and can be used to compare one power tool with another. They can also be used for a preliminary assessment of exposure.

The data given represent the main applications of the power tool. However, if the power tool is used for different applications, with different accessory tools, or is poorly maintained, the data can vary. This can significantly increase exposure over the total working period.

An accurate estimation of exposure should also take into account the times when the power tool is switched off, or when it is running but not actually being used for a job. This can significantly reduce exposure over the total working period.

Identify additional safety measures to protect the operator from the effects of noise and/or vibration, for example: maintaining the power tool and accessory tools, keeping the hands warm, organization of work patterns.

Grinding thin sheet metal or other large-area structures prone to vibration can lead to increased noise emissions higher than the stated noise emission values. You can reduce the noise emissions produced in this way by adopting noise-reducing measures such as the application of heavy, flexible insulating mats. Always take these increased values into consideration as well in the hazard assessment of noise exposure and in the choice of suitable hearing protection.

Detailed information on the versions of the **EN 62841** standards applied here is to be found in the reproduction of the declaration of conformity.

Noise information

Sound power level (L_{WA})	103 dB(A)
Emission sound pressure level (L_{pA})	95 dB(A)
Uncertainty (noise values) (L_{pA} and L_{WA})	3 dB(A)

Total vibration

	AG 125-20SE
Cutting ($a_{h,CO}$)	5.9 m/s²
Surface grinding with the vibration-absorbing side handle ($a_{h,AG}$)	6.3 m/s²
Uncertainty (K)	1.5 m/s²

Use of extension cords

WARNING

A damaged supply cord presents a hazard! Do not touch the supply cord or extension cord if damaged while working. Disconnect the supply cord plug from the power outlet.

- ▸ Check the appliance's supply cord at regular intervals and have it replaced by a qualified specialist if found to be damaged.

- Use only extension cords of a type approved for the application and with conductors of adequate gauge (cross section). The power tool may otherwise suffer a drop in performance and the extension cord may overheat.
- Check the extension cord for damage at regular intervals.
- Replace damaged extension cords.
- When working outdoors, use only extension cords that are approved and correspondingly marked for this application.

Information on recommended minimum conductor cross-sections and cable lengths is accessible via a link, in the form of a QR code, at the end of this document.

Preparations at the workplace

CAUTION

Risk of injury! Inadvertent starting of the product.

- Unplug the supply cord before making adjustments to the power tool or before changing accessories.

Observe the safety instructions and warnings in this documentation and on the product.

Fitting the side handle

- Screw the side handle into one of the threaded bushings provided.

Setting speed stage

WARNING

Risk of injury due to change of speed stage when tool is under load. Loss of control over the product.

- Change the speed stage setting only when the product is either switched off or running under no load.
- Hold the product firmly by the grip while changing the speed stage setting with the product running under no load.

The product has 6 speed stages; use the **+** and **-** buttons to select the speed stage you want to use.

You can select a speed stage before you switch on the product or change the speed stage while the product is running.

The LEDs show the current speed stage.

Setting with product switched off

- Press the **+** button or the **-** button.
  - ✓ The indicator for speed stages is activated and shows the stage currently selected.
- Use the **+** / **-** buttons to select the speed stage.
  - ✓ The indicator for the speed stages is deactivated after 15 seconds.
  - ✓ The speed stage you selected is saved in memory.

Setting with product switched on

- Use the **+** / **-** buttons to select the speed stage.
  - ✓ The speed stage you select is set and remains saved in memory when you switch the product off.

Guard

- Observe the instructions for fitting the applicable guard.

Installing the guard 6

The guard is keyed to ensure that only guards of a type suitable for use with the product can be installed. The keyed locating lug also prevents the guard from coming into contact with the tool.

1. Fit the guard on to the arbor collar so that the two triangular marks on the guard and on the product are in alignment.
2. Press the guard on to the drive spindle collar.
3. Press the guard release button and turn the guard until it engages in the desired position.
   - ✓ The guard release button jumps back.

Adjusting the guard 7

- Press the guard release button and turn the guard until it engages in the desired position.

Removing the guard

1. Press the guard release button and turn the guard until the triangular marks on the guard and on the product are in alignment.
2. Lift off the guard.

Fitting or removing the front cover 8

1. Position the front cover with the closed side on the standard guard and push it on until it engages.
2. To remove it, release the catch for the front cover and then lift the front cover away from the standard guard.

Installing or removing wheels

CAUTION

Risk of injury. The accessory tool may be hot.

- Wear protective gloves when changing the accessory tool.

Diamond wheels must be replaced when their cutting or grinding performance drops significantly. This generally is the case when the diamond segments reach a height of less than 2 mm (1/16").

Other wheels must be replaced when their cutting performance drops significantly or other parts of the angle grinder (not the wheel) come into contact with the material you are working on.

Abrasive wheels must be replaced when their expiry date has been reached.

Fitting the grinding wheel 9

WARNING

Risk of injury. The accessory tool may work loose due to the braking effect of the motor.

- ► Wait until the accessory tool has come to a standstill before touching or gripping the accessory tool or the clamping nut.
- ► Secure the accessory tool by tightening the clamping flange and clamping nut firmly so that no parts work loose from the spindle due to the braking effect of the motor.

1. Check that the O-ring is in place in the clamping flange and that it is undamaged.
   Result
   The O-ring is damaged.
   There is no O-ring in the clamping flange.
   - ► Fit a new clamping flange with O-ring.
2. Fit the clamping flange on to the drive spindle.
3. Fit the grinding wheel.
4. Screw on the clamping nut corresponding to the type of accessory tool installed.
5. Press the spindle lock button and hold it in this position.
6. Use the pin wrench to tighten the clamping nut securely, then release the spindle lock button and remove the wrench.

Removing the grinding wheel

WARNING

Risk of breakage and irreparable damage. If the spindle lockbutton is pressed while the spindle is rotating, the accessory tool can detach from the power tool.

- ► Press the spindle lockbutton only when the spindle has stopped rotating.

1. Press the spindle lock button and hold it in this position.
2. Release the clamping nut by gripping it with the wrench and turning the nut counterclockwise.
3. Release the spindle lock button and remove the grinding wheel.

Fitting a grinding wheel with a Kwik lock nut 10

WARNING

Risk of breakage. Heavy wear (abrasion) may cause the **Kwik lock** nut to break.

- ► When working with the power tool, make sure that the **Kwik lock** nut doesn't come into contact with the working surface.
- ► Do not use a damaged **Kwik lock** nut.

The optional **Kwik lock** nut can be used instead of the standard clamping nut. Grinding wheels can then be changed without the need for additional tools.

1. Clean the clamping flange and the quick-release clamping nut.
2. Check that the O-ring is in place in the clamping flange and that it is undamaged.
   Result
   The O-ring is damaged.
   There is no O-ring in the clamping flange.
   - ► Fit a new clamping flange with O-ring.
3. Fit the clamping flange on to the drive spindle.
4. Fit the grinding wheel.
5. Screw on the **Kwik lock** nut until it is seated against the grinding wheel.
   ✔ The name **Kwik lock** should be visible when the nut is screwed on.
6. Press the spindle lock button and hold it in this position.
7. Firmly turn the grinding wheel clockwise by hand until the **Kwik lock** nut is tightened securely and then release the spindle lock button.

Removing a grinding wheel secured with a Kwik lock nut

WARNING

Risk of breakage and irreparable damage. If the spindle lockbutton is pressed while the spindle is rotating, the accessory tool can detach from the power tool.

- ► Press the spindle lockbutton only when the spindle has stopped rotating.

1. Press the spindle lock button and hold it in this position.
2. Release the **Kwik lock** nut by turning it counterclockwise by hand.
3. If the **Kwik lock** nut cannot be released by turning it by hand, use a pin wrench to turn the nut in a counterclockwise direction.
   Never use a pipe wrench! A pipe wrench could damage the **Kwik lock** nut.
4. Release the spindle lock button and remove the grinding wheel.

Fitting the core bit 11

1. Fit the side handle. 9
2. Install the guard. 9
3. Place the core bit in position and tighten it hand-tight.

4. Press the spindle lock button and hold it in this position.
5. Tighten the core bit with a suitable open-end wrench.
6. Then release the spindle lock button and remove the open-end wrench.

Installing wire brush 12

1. Fit the side handle. 9
2. Install the guard. 9
3. Place the wire brush in position and tighten it hand-tight.
4. Press the spindle lock button and hold it in this position.
5. Tighten the wire brush with a suitable open-end wrench.
6. Then release the spindle lock button and remove the open-end wrench.

Fitting the abrasive resin-fiber wheel 13

1. Fit the side handle. 9
2. Install the guard. 9
3. Fit the support plate and the abrasive resin-fiber wheel, screw on the clamping nut and tighten it securely.
4. Press the spindle lock button and hold it in this position.
5. Use the pin wrench to tighten the clamping nut securely, then release the spindle lock button and remove the wrench.

Operation

WARNING

Damaged power cords are a safety hazard! If the supply cord or extension cord is damaged while work is in progress, immediately disconnect the device and the cord from the electricity supply. Do not touch the damaged part of the cord.

- Regularly check all supply cords. Replace defective extension cords. Have damaged power cords replaced by a qualified specialist.

Use of a ground fault circuit interrupter (residual current device, RCD) with a maximum tripping current of 30 mA is recommended.

Switching on 14

WARNING

Risk of injury. The accessory tool may suddenly stick or stall.

- Use the product with the auxiliary handle fitted and always hold the product securely with both hands.

1. Plug the supply cord into the power outlet.
2. Press the rear section of the on/off switch.
3. Slide the on/off switch forward.
4. Lock the on/off switch.
   - The motor runs.

Grinding

Do not allow the accessory tool to jam and avoid excessive pressure on the product.

Cutting

- When cutting, keep the rate of advance moderate and do not tilt the product or the cut-off wheel to either side (working position is at approx. 90° to the cutting plane).
  - For best results when cutting profiles and small rectangular tube, start cutting with the cut-off wheel at the smallest cross-section.

Rough grinding

- Move the product to and fro while maintaining a 5° to 30° angle of attack and applying moderate pressure.
  - This will avoid overheating and discoloration of the workpiece and help ensure an even surface finish.

Switching off

- Press the rear section of the on/off switch.
  - The on/off switch jumps into the off position and the motor stops.

Care and maintenance

Care

DANGER

Electrical hazards. Improper repairs and maintenance on electrical parts as well as improper and insufficient cleaning may lead to serious injuries.

- Electrical parts may be repaired only by trained electrical specialists.
- Never operate the product when the air vents are blocked.
- Do not use spray, steam pressure cleaning equipment or running water for cleaning.
- Keep the product, especially the grips, dry, clean and free from oil and grease.

WARNING

Electrical hazards. Frequent operation in environments where conductive materials are present (e.g. metals, carbon fiber, mineral particulates) may cause hazardous buildup inside the tool. This can lead to electrical malfunction or injury.

- ▸ Users are responsible for determining appropriate cleaning and maintenance intervals based on their specific work conditions, in accordance with workplace safety protocols and applicable regulations.
- ▸ Do not allow foreign objects to enter the interior of the product.
- ▸ Clean the air vents carefully using a dry brush.
- ▸ Use dry, clean cloth to clean the gripping areas of the product.
- ▸ Clean the outer surfaces of the machine regularly using only slightly damp cloth.
- ▸ Only mild dish soap and water applied with a damp rag may be used to clean the tool. Do not soak or immerse the tool in water. Do not use aggressive solvents, penetrating oils, or unknown cleaning agents, as these may damage plastic components or impair tool performance.
- ▸ Frequent work on conductive materials (e.g. metal, carbon fiber) may make shorter maintenance intervals necessary. Take your individual workplace risk assessment and national regulations/occupational health and safety requirements into account.

For New Zealand / Australia: Use of a ground fault circuit interrupter (residual current device, RCD) with a maximum tripping current of 30 mA is recommended.

Maintenance

- Check all visible parts and controls for signs of damage at regular intervals and make sure that they all function correctly.
- Do not use the product if signs of damage are found or if parts malfunction. Immediately have the product repaired by **Hilti** Service.
- After cleaning and maintenance, install all guards and protective devices and check that they are in full working order.

To help ensure safe and reliable operation, use only genuine Hilti spare parts and consumables. Spare parts, consumables and accessories approved by **Hilti** for use with your product can be found at your **Hilti Store** or online at: **www.hilti.group**

Checks after care and maintenance work

- ▸ After carrying out care and maintenance, check that all protective and safety devices are fitted and that they function faultlessly.

Cleaning and replacing dust filter

Clean the dust filter at regular intervals.
It is essential to replace the dust filter if damaged.

1. Insert the tip of a screwdriver underneath the release slot of the dust filter and pry the dust filter off.
2. After cleaning, re-install the dust filter.

Transport and storage

Transport

- ▸ Do not transport this product with an accessory tool installed.
- ▸ Make sure that the equipment is held securely throughout all transport operations.
- ▸ After transporting, always check all visible parts and controls for signs of damage and make sure that they all function correctly.

Storage

- ▸ Always store this product with the electric supply cable unplugged from the electricity supply.
- ▸ Store this product in a dry place, where it cannot be accessed by children or unauthorized persons.
- ▸ After a long period of storage, always check all visible parts and controls for signs of damage and make sure that they all function correctly.

Troubleshooting

If the trouble you are experiencing is not listed in this table or you are unable to rectify the problem by yourself, contact **Hilti** Service.

Trouble or fault	Possible cause	Action to be taken
Product does not start.	Interruption in the electric supply.	▸ Plug in another power tool or appliance and check whether it works.
	The supply cord or plug is defective.	▸ Have the supply cord and plug checked by a trained electrical specialist and replaced if necessary.
Product switches off and the LEDs of the speed control quick-flash.	Product is overloaded.	▸ Release the on/off switch and then press it again. Then allow the product to run under no load for approx. 30 seconds.
Product switches off and the LEDs of the speed control slow-flash.	3D ATC was activated because of a sudden movement.	▸ Switch the product off and then on again.
Product does not develop full power.	The extension cord conductor cross section (gauge) is inadequate.	▸ Use an extension cord with an adequate conductor cross section.
The product can't be switched on.	Product is overloaded.	▸ Release the on/off switch and then press it again. Then allow the product to run under no load for approx. 30 seconds.
The angle grinder gets very hot.	Electrical fault	▸ Switch the product off immediately, keep it under observation, allow it to cool down and contact **Hilti** Service.

Trouble or fault	Possible cause	Action to be taken
The angle grinder gets very hot.	Clogged air vents	▸ Regularly clean the air vents.
Elevated temperatures at the gear housing.	Short braking interval.	▸ Allow the device to run under no load until it has cooled down.
The motor has no braking effect.	Product is momentarily overloaded.	▸ Switch the product off and then on again.
The motor has no braking effect.	Product is momentarily overloaded.	▸ Switch the product off and then on again.

Disposal

Most of the materials from which **Hilti** tools and appliances are manufactured can be recycled. The materials must be correctly separated before they can be recycled. In many countries, your old tools, machines or appliances can be returned to **Hilti** for recycling. Ask **Hilti** Service or your Hilti representative for further information.

▸ Do not dispose of power tools, electronic equipment or batteries as household waste!

Manufacturer's warranty

▸ Please contact your local **Hilti** representative if you have questions about the warranty conditions.

Further information

For more information on operation, technology, environment and recycling, follow this link: **qr.hilti.com/manual/?id=2378689&id=2380409**

This link is also to be found in these operating instructions in the form of a QR code, indicated by the symbol .

es Manual de instrucciones original

Información sobre el manual de instrucciones

Acerca de este manual de instrucciones

- **Advertencia** Asegúrese de haber leído y entendido toda la documentación adjunta, incluidas, entre otras, las instrucciones, advertencias de seguridad, ilustraciones y especificaciones que se proporcionan con este producto. Familiarícese con todas las instrucciones, advertencias de seguridad, ilustraciones, especificaciones, componentes y funciones del producto antes de utilizarlo. De lo contrario, existe peligro de descarga eléctrica, incendio, lesiones graves o muerte. Conserve todas las advertencias e instrucciones para futuras consultas.
- Los productos HILTI han sido diseñados para usuarios profesionales y solo personal autorizado y debidamente formado puede utilizarlos y llevar a cabo su mantenimiento y conservación. Este personal debe estar especialmente instruido en lo referente a los riesgos de uso. La utilización del producto y sus dispositivos auxiliares puede conllevar riesgos para el usuario en caso de manejarse de forma inadecuada por personal no cualificado o utilizarse para usos diferentes a los que están destinados.
- La documentación adjunta corresponde al estado actual de la técnica en el momento de la impresión. Compruebe siempre la última versión en la página del producto de la página web de Hilti. Para ello siga el enlace o escanee el código QR que figura en esta documentación y que se indica con el símbolo .
- El manual de instrucciones siempre debe permanecer a mano junto al producto. No entregue nunca el producto a otras personas sin este manual de instrucciones.

Explicación de símbolos

Avisos

Las advertencias de seguridad advierten de peligros derivados del manejo del producto. Se utilizan las siguientes palabras de peligro:

⚠ PELIGRO

PELIGRO !

▸ Término utilizado para un peligro inminente que puede ocasionar lesiones graves o incluso la muerte.

⚠ ADVERTENCIA

ADVERTENCIA !

▸ Término utilizado para un posible peligro que puede ocasionar lesiones graves o incluso la muerte.

⚠ PRECAUCIÓN

PRECAUCIÓN !

▸ Término utilizado para una posible situación peligrosa que puede ocasionar lesiones o daños materiales.

Símbolos en el manual de instrucciones

En este manual de instrucciones se utilizan los siguientes símbolos:

	Consulte el manual de instrucciones
	Indicaciones de uso y demás información de interés
	Manejo con materiales reutilizables
	No tirar las herramientas eléctricas y las baterías junto con los desperdicios domésticos