1 Information about the documentation

1.1 About this documentation

- Read this documentation before initial operation or use. This is a prerequisite for safe, trouble-free handling and use of the product.
- Observe the safety instructions and warnings in this documentation and on the product.
- Always keep the operating instructions with the product and make sure that the operating instructions are with the product when it is given to other persons.

1.2 Explanation of symbols used

1.2.1 Warnings

Warnings alert persons to hazards that may occur when handling or using the product. The following signal words are used in combination with a symbol:

- **DANGER!** Draws attention to an imminent hazard that will lead to serious personal injury or fatality.
- **WARNING!** Draws attention to a potential hazard that could lead to serious personal injury or fatality.
- **CAUTION!** Draws attention to a potentially dangerous situation that could lead to minor personal injury or material damage.

1.2.2 Symbols in the documentation

The following symbols are used in this document:

- ![Read the operating instructions before use](image)
- ![Instructions for use and other useful information](image)

1.2.3 Symbols in the illustrations

The following symbols are used in illustrations:

- ![These numbers refer to the corresponding illustrations found at the beginning of these operating instructions.](image)
- ![The numbering reflects the sequence of operations shown in the illustrations and may deviate from the steps described in the text.](image)
- ![Item reference numbers are used in the overview illustration and refer to the numbers used in the key in the product overview section.](image)
- ![This symbol is intended to draw special attention to certain points when handling the product.](image)

1.3 Product-dependent symbols

1.3.1 Symbols on the product

The following symbols are used on the product:

- ![Drilling with hammering action (hammer drilling)](image)
- ![Chiseling](image)
- ![Drilling without hammering](image)
- ![Chisel positioning](image)
- ![Alternating current](image)
- ![Protection class II (double-insulated)](image)
- ![Revolutions per minute](image)
1.4 Product information

Hilti products are designed for professional use and may be operated, serviced and maintained only by trained, authorized personnel. This personnel must be informed of any particular hazards that may be encountered. 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 type designation and serial number are stated on the rating plate.

- Write down the serial number in the table below. You will be required to state the product details when contacting Hilti Service or your local Hilti organization to inquire about the product.

<table>
<thead>
<tr>
<th>Product information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breakers</td>
</tr>
<tr>
<td>Generation</td>
</tr>
<tr>
<td>Serial no.</td>
</tr>
</tbody>
</table>

2 Safety

2.1 General power tool 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.

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 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 these are connected and properly used. Use of dust collection can reduce dust‐related hazards.

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 a hazardous situation.

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.

2.2 Additional safety instructions for rotary hammer

Personal safety
▶ Use the product only when it is in technically faultless condition.

▶ Never tamper with or modify the power tool in any way.

▶ Use the auxiliary grips supplied with the tool. Loss of control can cause personal injury.

▶ Apply appropriate safety measures at the opposite side of the workpiece in work that involves breaking through. Parts breaking away could fall out and/or fall down causing injury to other persons.

▶ Always hold the power tool with both hands on the grips provided. Keep the grips clean and dry.

▶ Hold the power tool by the insulated gripping surfaces when performing work in which the accessory tool might come into contact with concealed wiring. If the accessory tool comes into contact with a live wire, metal parts of the power tool can also become live, resulting in an electric shock.

▶ Avoid touching rotating parts – risk of injury!

▶ Wear suitable protective glasses, a hard hat, ear defenders, protective gloves and light respiratory protection while using the power tool.

▶ Wear protective gloves also when changing the accessory tool. Touching the accessory tool presents a risk of injury (cuts or burns).

▶ Wear eye protection. Flying fragments present a risk of injury to the body and eyes.

▶ Before starting work, check the hazard class of the dust that will be produced when working. Use an industrial vacuum cleaner with an officially approved protection class in compliance with the locally applicable dust protection regulations. Dust from materials such as lead-based paint, certain types of wood and concrete/masonry/stone containing quartz, minerals or metal can be harmful to health.

▶ Make sure that the workplace is well ventilated and, where necessary, wear a respirator appropriate for the type of dust generated. Contact with or inhalation of the dust can cause allergic reactions and/or respiratory or other diseases to the operator or bystanders. Certain kinds of dust such as oakwood and beechwood dust are classified as carcinogenic, especially in conjunction with additives for wood
conditioning (chromate, wood preservative). Only specialists are permitted to handle material containing asbestos.

- Take breaks and do physical exercises to improve the blood circulation in your fingers. Exposure to vibration during long periods of work can lead to disorders of the blood vessels and nervous system in the fingers, hands and wrists.

**Electrical safety**
- Before beginning work, check the working area for concealed electric cables, gas pipes and water pipes. External metal parts of the power tool can become live, presenting a risk of electric shock, if you accidentally damage an electric cable.

**Power tool use and care**
- Immediately switch off the power tool if the accessory tool jams. The power tool might twist off-line.
- Wait until the power tool stops completely before you lay it down.
3 Description

3.1 Overview of the product

This Product is Certified
Ce produit est homologué
Producto homologado por
Este producto está registrado

[

English 5

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5

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3.2 Intended use
The product described is an electrically-powered combihammer with pneumatic hammering mechanism. It is designed for drilling in concrete, masonry, wood and metal. The product can also be used for light to medium-duty chiseling on masonry and surface finishing work on concrete.

- Operation is permissible only when connected to a power source providing a voltage and frequency in compliance with the information given on the type identification plate.

3.3 Active Vibration Reduction (AVR)
This product is equipped with an Active Vibration Reduction (AVR) system, which reduces vibration significantly.

3.4 Quick-release chuck (accessory)
The quick-release chuck is suitable for use with accessory tools with a smooth, cylindrical shank or a hexagonal shank, e.g.:
- Drill bits for wood
- Grill bits for metal
- Mixing paddles

The quick-release chuck is fitted in the standard chuck.

3.5 Service indicator
The breaker is equipped with a service indicator LED.

<table>
<thead>
<tr>
<th>Status</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>The service indicator lights red.</td>
<td>• End of service interval – servicing is due.</td>
</tr>
<tr>
<td>The service indicator blinks red.</td>
<td>• The product is faulty. Have the product repaired by a trained electrical specialist.</td>
</tr>
</tbody>
</table>

Note
Bring the product to Hilti Service in good time. This will help to ensure that it’s always ready for use.

3.6 Items supplied
Power tool, side handle, operating instructions, depth gauge, Hilti toolbox, cleaning cloth, grease.

Note
You can find other system products approved for your product at your local Hilti Center or online at www.hilti.com.

4 Technical data

4.1 Combihammer

Note
For details of the rated voltage, current, frequency and input power, please refer to the power tool’s country-specific type identification plate.

If the tool 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 tool. The operating voltage of the transformer or generator must always be within +5% and -15% of the rated voltage of the tool.
5 Operation

5.1 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.

5.2 Fitting the side handle

⚠️ CAUTION
Risk of injury! Loss of control over the combihammer.

- Check that the side handle is fitted correctly and tightened securely. Check that the clamping band is engaged in the groove provided on the tool.

1. Slide the side handle clamping band over the chuck from the front and into the recess provided.
2. Bring the side handle into the desired position.
3. Secure the side handle by turning the knob until the clamping band is tight.

5.3 Fitting / removing the accessory tool

⚠️ WARNING
Risk of injury! The accessory tool becomes hot in use.

- Wear protective gloves when changing the accessory tool.
- Do not place the hot accessory tool on readily flammable materials.
1. Apply a little grease to the connection end of the accessory tool.
2. Push the accessory tool into the chuck as far as it will go (until it engages).
   - The product is ready for use.
3. Pull the chuck back as far as it will go and remove the accessory tool.

**Note**
Use only the recommended grease supplied by Hilti. Use of unsuitable grease may cause damage to the product.

5.4 Removing the accessory tool

**DANGER**
Risk of fire! Risk of contact between the hot accessory tool and highly inflammable materials.
- Do not lay the hot accessory tool down on highly inflammable materials.

**WARNING**
Risk of injury! The accessory tool becomes hot in use.
- Wear protective gloves when changing the accessory tool.
- Do not place the hot accessory tool on readily flammable materials.

- Pull the chuck back as far as it will go and remove the accessory tool.

**Note**
Use only genuine Hilti grease. Use of unsuitable grease may cause damage to the product.
5.5 Chisel positioning

**CAUTION**
Risk of injury! Loss of control over the chisel direction.

- Do not operate the tool when the selector switch is set to “Chisel positioning”. Turn the function selector switch until it engages in the “Chiseling” position.

**Note**
The chisel can be set to 24 different positions (in 15° increments). This ensures that flat chisels and shaped chisels can always be set to the optimum working position.

1. Set the function selector switch to the position.
2. Rotate the chisel to the desired position.
3. Set the function selector switch to the position and make sure the switch engages.
   - The tool is ready for use.

5.6 Fitting the depth gauge (optional)

1. Release the side handle clamping band by turning the handle grip.
2. Slide the depth gauge from the front into the 2 guide holes provided.
3. Tighten the side handle clamping band by turning the handle grip.
   - The depth gauge is fitted. To set the drilling depth:
4. Release the screw at the depth gauge.
5. Adjust the depth gauge to the desired drilling depth.
6. Tighten the screw at the depth gauge.
6 Types of work

WARNING
Risk of electric shock! Severe injury and burns can result if any attempt is made to operate the tool without an earth/ground conductor and ground fault circuit interrupter correctly connected.

▶ Irrespective of whether mains power or generator power is used, always make sure that an earth/ground conductor and ground fault circuit interrupter are present in the power supply and that these are correctly connected.
▶ Do not use the product unless these safety measures are in place and fully operational.

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

6.1 Drilling without hammering

Note
Drilling without hammering action is possible when accessory tools with a special connection end are used. Accessory tools of this kind are available from Hilti.
Alternatively, when the keyless quick-release chuck is fitted, smooth-shank drill bits for wood or steel, for example, can be used to drill without hammering.

▶ Set the function selector switch to the position.

6.2 Drilling with hammering action (hammer drilling)

1. Set the function selector switch to the position.
2. Press the drill bit against the work surface.
3. Press the control switch.
   ◦ The product starts.

6.3 Chiseling

▶ Set the function selector switch to the position.

6.4 Care and maintenance

WARNING
Danger of electric shock! Carrying out care and maintenance while the supply cord is connected to the power outlet presents a risk of serious injuries including burns.

▶ Always unplug the supply cord before carrying out all care and maintenance tasks.

Care
• Carefully remove stubborn dirt from the tool.
• Clean the air vents carefully with a dry brush.
• Use only a slightly damp cloth to clean the casing. Do not use cleaning agents containing silicone as they can attack the plastic parts.

Maintenance

⚠️ WARNING
Danger of electric shock! Improper repairs to electrical components may lead to serious injuries including burns.

▷ Repairs to the electrical section of the tool or appliance may be carried out only by trained electrical specialists.

• At regular intervals, check all visible parts and the controls for signs of damage and make sure that they all function correctly.
• Do not operate the power tool if signs of damage are found or if parts malfunction. Have damage repaired immediately by **Hilti** Service.
• After cleaning and maintenance, refit all guards or protective devices and check that they function correctly.

💡 Note
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 the product can be found at your local **Hilti** Center or online at: **www.hilti.com**

6.5 Transport and storage

• Do not transport electric tools with accessory tools fitted.
• Always unplug the supply cord before storing an electric tool or appliance.
• Store tools and appliances in a dry place where they cannot be accessed by children or unauthorized persons.
• Check electric tools or appliances for damage after long periods of transport or storage.

7 Troubleshooting

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

7.1 Troubleshooting

<table>
<thead>
<tr>
<th>Trouble or fault</th>
<th>Possible cause</th>
<th>Action to be taken</th>
</tr>
</thead>
<tbody>
<tr>
<td>The power tool doesn’t start.</td>
<td>Interruption in the electric supply.</td>
<td>▷ Plug in another power tool or appliance and check whether it works.</td>
</tr>
<tr>
<td></td>
<td>The supply cord or plug is defective.</td>
<td>▷ Have the supply cord or the plug checked by a trained electrical specialist and replaced if necessary.</td>
</tr>
<tr>
<td></td>
<td>The generator is in sleep mode.</td>
<td>▷ Apply a load to the generator by connecting a second power consumer (e.g. worklight).</td>
</tr>
<tr>
<td></td>
<td>Electrical fault.</td>
<td>▷ Have the power tool and supply cables checked by a trained electrical specialist.</td>
</tr>
<tr>
<td></td>
<td>The electronic restart interlock is activated after an interruption in the electric supply.</td>
<td>▷ Switch the power tool off and then on again.</td>
</tr>
<tr>
<td>Power tool does not start and the service indicator shows red.</td>
<td>The carbon brushes are worn out.</td>
<td>▷ Have the power tool checked by a trained electrical specialist and the carbon brushes replaced if necessary.</td>
</tr>
<tr>
<td></td>
<td>Electrical fault.</td>
<td>▷ Have the tool checked by <strong>Hilti</strong> Service.</td>
</tr>
<tr>
<td>Trouble or fault</td>
<td>Possible cause</td>
<td>Action to be taken</td>
</tr>
<tr>
<td>------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>The power tool starts and the service indicator lights red.</td>
<td>End of service interval – servicing is due.</td>
<td>▶ Have the tool repaired only by a Hilti Service Center.</td>
</tr>
<tr>
<td>The power tool doesn’t start and the service indicator blinks red.</td>
<td>A fault has occurred in the tool.</td>
<td>▶ Have the tool repaired by a trained electrical specialist.</td>
</tr>
<tr>
<td>The drill bit doesn’t rotate.</td>
<td>The function selector switch is not engaged or is in the “drilling without hammering” or hammer drilling position.</td>
<td>▶ Set the function selector switch to “Drilling without hammering” or “Hammer drilling”.</td>
</tr>
<tr>
<td>The chisel cannot be released from the chuck.</td>
<td>The chuck is not pulled back fully.</td>
<td>▶ Pull the chuck back as far as it will go and remove the accessory tool.</td>
</tr>
</tbody>
</table>

### 8 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.

### 9 Manufacturer’s warranty

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