<table>
<thead>
<tr>
<th>QualiCut</th>
<th>Holz / Wood / Bois</th>
<th>Kunststoff / Synthetics / Plastiques</th>
<th>Andere / Others / Autre chose</th>
</tr>
</thead>
<tbody>
<tr>
<td>z54</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>z48</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>z42</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>z42-A</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>MultiCut</td>
<td>z24-A</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td></td>
<td>o</td>
<td>o</td>
<td>o</td>
</tr>
<tr>
<td></td>
<td>z42-A</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>QuickCut</td>
<td>z18</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>SpecialCut</td>
<td>z18</td>
<td>o</td>
<td>o</td>
</tr>
<tr>
<td></td>
<td>z14</td>
<td>o</td>
<td>o</td>
</tr>
</tbody>
</table>

...optimal geeignet
ideal
tout indiquée
...geeignet
good
indiquée

AKKU / BATTERY / ACCU / BATERIAS / BATTERI / AKU / AKUMULATORY / AKKumiäüée

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ORIGINAL OPERATING INSTRUCTIONS

WSC 70-A36 cordless circular saw

It is essential that the operating instructions are read before the power tool is operated for the first time.

Always keep these operating instructions together with the power tool.

Ensure that the operating instructions are with the power tool when it is given to other persons.

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<td>29</td>
</tr>
</tbody>
</table>

These numbers refer to the corresponding illustrations. The illustrations can be found on the fold-out cover pages. Keep these pages open while studying the operating instructions.

In these operating instructions, the designation “the power tool” always refers to the battery-powered WSC 70-A36 circular saw.

1 General information

1.1 Safety notices and their meaning

DANGER
Draws attention to imminent danger that will lead to serious bodily injury or fatality.

WARNING
Draws attention to a potentially dangerous situation that could lead to serious personal injury or fatality.

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

NOTE
Draws attention to an instruction or other useful information.

1.2 Explanation of the pictograms and other information

Warning signs

- General warning
- Warning: electricity
- Warning: caustic substances
- Warning: hot surface

Operating controls and parts

1. Battery
2. Release buttons with additional function (charge status display activation)
3. Charge status and fault display (Li-ion battery)
4. On / off switch
5. Switch-on interlock
6. Auxiliary grip
7. Drive spindle lockbutton
8. Hexagon socket wrench
9. Cutting angle scale
10. Clamping lever for cutting angle adjustment
11. Clamping screws for the parallel guide
12. Clamping lever for cutting depth adjustment
13. 45°cutting line indicator
14. 0°cutting line indicator
15. Parallel guide (rip fence)
16. Pivoting guard
17. Riving knife
18. Base plate
19. Guard
20. Rotatable chip ejector
21. Drive spindle
22. Mounting flange
23. Clamping flange
24. Clamping screw
25. Cutting depth scale
26. Riving knife fastening screws
27. Pivoting guard operating lever
28. Chip deflector guard
29. Chip deflector guard release
30. Angle extender for 50° cuts
Obligation signs

- Wear eye protection
- Wear a hard hat
- Wear ear protection
- Wear protective gloves
- Wear breathing protection

Symbols

- Read the operating instructions before use
- Return waste material for recycling
- Volts
- Direct current

Location of identification data on the power tool

The type designation can be found on the type identification plate and the serial number on the side of the motor housing. Make a note of this data in your operating instructions and always refer to it when making an enquiry to your Hilti representative or service department.

<table>
<thead>
<tr>
<th>Type:</th>
<th>en</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial no.:</td>
<td></td>
</tr>
</tbody>
</table>

2 Description

2.1 Use of the product as directed

The power tool is a hand-held, cordless circular saw.

The power tool is designed for cutting wood or wood-like materials, plastics, gypsum plasterboard, gypsum fiberboard and composites with a thickness of up to 70 mm (2 3/8”) and for making bevel cuts at angles between 0° and 50°.

Working on materials hazardous to the health (e.g. asbestos) is not permissible.

The power tool is designed for professional use and may be operated, serviced and maintained only by trained, authorized personnel. This personnel must be informed of any special hazards that may be encountered. The power tool and its ancillary equipment may present hazards when used incorrectly by untrained personnel or when used not as directed.

The working environment may be as follows: construction site, workshop, renovation, conversion or new construction.

Modification of the power tool or tampering with its parts is not permissible.

The use of saw blades not in compliance with the given specification (e.g. diameter, speed of rotation, thickness) or the use of cutting and grinding discs or blades made from high-alloy steel (HSS steel) is not permissible.

Sawing metals is not permissible.

Do not use the power tool to cut tree branches or logs.

Do not use the battery as a power source for other unspecified appliances.

To avoid the risk of injury, use only genuine Hilti accessories and insert tools.

Observe the information printed in the operating instructions concerning operation, care and maintenance.

2.2 Switches

On / off switch with switch-on interlock
2.3 Grips
Grip and auxiliary grip

2.4 Protective device
Blade guard and pivoting guard

2.5 Lubrication
Grease lubrication

2.6 Deep discharge protection
To extend the life of the battery and the motor, the electronic control system is designed to audibly reduce blade drive speed when excessive pressure is applied, up to the point at which the blade stalls completely when pressure is maintained causing activation of the power cut-out.

CAUTION
So long as the on/off switch remains depressed, the power tool runs up to speed again when the pressure applied to it is released, just like a mains-powered tool.

2.7 Li-ion battery charge status
When a Li-ion battery is used, the charge status can be indicated by gently pressing one of the battery release buttons (press until resistance is felt - do not release the battery). The display on the rear of the battery provides the following information:

<table>
<thead>
<tr>
<th>LEDs light constantly</th>
<th>LEDs blink</th>
<th>Charge status C</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED 1, 2, 3, 4</td>
<td>-</td>
<td>C ≥ 75 %</td>
</tr>
<tr>
<td>LED 1, 2, 3</td>
<td>-</td>
<td>50 % ≤ C &lt; 75 %</td>
</tr>
<tr>
<td>LED 1, 2</td>
<td>-</td>
<td>25 % ≤ C &lt; 50 %</td>
</tr>
<tr>
<td>LED 1</td>
<td>-</td>
<td>10 % ≤ C &lt; 25 %</td>
</tr>
<tr>
<td>-</td>
<td>LED 1</td>
<td>C &lt; 10 %</td>
</tr>
</tbody>
</table>

2.8 Items supplied as standard
1. Power tool
2. Saw blade
3. Hexagon socket wrench
4. Operating instructions
5. Hilti toolbox (optional)
6. Cardboard box (optional)

2.9 Additional items required for operating the tool
For WSC 70-A36, one B 36/2.4 NiCd battery or B 363.3 or B 363.9 Li-Ion battery and C4/36-90 or C4/36-350 or C7/36-ACS or C4/36-ACS battery charger.

NOTE
Depending on the version, these items may be supplied with the power tool.
3 Accessories

Accessories for the WSC 70-A36

<table>
<thead>
<tr>
<th>Designation</th>
<th>Short designation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charger</td>
<td>C7/36-ACS</td>
<td></td>
</tr>
<tr>
<td>Charger for Li-ion batteries</td>
<td>C4/36-ACS</td>
<td></td>
</tr>
<tr>
<td>Charger for Li-ion batteries</td>
<td>C4/36-90</td>
<td></td>
</tr>
<tr>
<td>Charger for Li-ion batteries</td>
<td>C4/36-350</td>
<td></td>
</tr>
<tr>
<td>Battery</td>
<td>B36/2.4 Li-ion</td>
<td></td>
</tr>
<tr>
<td>Battery</td>
<td>B36/3.3 Li-ion</td>
<td></td>
</tr>
<tr>
<td>Battery</td>
<td>B36/3.9 Li-ion</td>
<td></td>
</tr>
<tr>
<td>Parallel guide (rip fence)</td>
<td>WPG 370/355</td>
<td></td>
</tr>
<tr>
<td>Guide rail</td>
<td>WGS 1400-2B</td>
<td></td>
</tr>
</tbody>
</table>

4 Technical data

Right of technical changes reserved.

<table>
<thead>
<tr>
<th>Power tool</th>
<th>WSC 70-A36</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage (DC voltage)</td>
<td>36 V</td>
</tr>
<tr>
<td>Weight in accordance with EPTA procedure 01/2003</td>
<td>5.8 kg</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>393 mm x 233 mm x 307 mm</td>
</tr>
<tr>
<td>Base plate</td>
<td>193 mm x 320 mm</td>
</tr>
<tr>
<td>Maximum saw blade diameter</td>
<td>190 mm</td>
</tr>
<tr>
<td>Minimum saw blade diameter</td>
<td>176 mm</td>
</tr>
<tr>
<td>Saw blade disc thickness</td>
<td>0.5...1.4 mm</td>
</tr>
<tr>
<td>Kerf width</td>
<td>1.8...2.2 mm</td>
</tr>
<tr>
<td>Saw blade arbor size</td>
<td>30 mm</td>
</tr>
<tr>
<td>Cutting depth</td>
<td>Cutting angle 90°: 70 mm</td>
</tr>
<tr>
<td></td>
<td>Cutting angle 50°: 45 mm</td>
</tr>
<tr>
<td></td>
<td>Cutting angle 45°: 51 mm</td>
</tr>
<tr>
<td>Riving knife thickness</td>
<td>1.5 mm</td>
</tr>
<tr>
<td>Speed under no load</td>
<td>4,000/min</td>
</tr>
</tbody>
</table>

NOTE

The vibration emission level given in this information sheet has been measured in accordance with a standardised test given in EN 60745 and may be used to compare one tool with another. It may be used for a preliminary assessment of exposure. The declared vibration emission level represents the main applications of the tool. However if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period. An estimation of the level of exposure to vibration should also take into account the times when the tool is switched off or when it is running but not actually doing the job. This may significantly reduce the exposure level over the total working period. Identify additional safety measures to protect the operator from the effects of vibration such as: maintain the tool and the accessories, keep the hands warm, organisation of work patterns.

Noise and vibration information for the WSC 70-A36 (measured in accordance with EN 60745-2-5):

| Typical A-weighted sound power level | 108 dB (A) |
| Typical A-weighted emission sound pressure level | 97 dB (A) |
| Uncertainty for the given sound level | 3 dB (A) |
Triaxial vibration values (vibration vector sum)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sawing in wood, $a_v$</td>
<td>&lt; 2.5 m/s²</td>
</tr>
<tr>
<td>Uncertainty ($\Delta K$)</td>
<td>1.5 m/s²</td>
</tr>
</tbody>
</table>

**Battery**

<table>
<thead>
<tr>
<th></th>
<th>B 36/2.4 NiCd</th>
<th>B 36/3.3 Li-Ion</th>
<th>B 36/3.9 Li-Ion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage</td>
<td>36 V</td>
<td>36 V</td>
<td>36 V</td>
</tr>
<tr>
<td>Capacity</td>
<td>2.4 Ah</td>
<td>3.3 Ah</td>
<td>3.9 Ah</td>
</tr>
<tr>
<td>Energy capacity</td>
<td>86.4 Wh</td>
<td>118.8 Wh</td>
<td>140.4 Wh</td>
</tr>
<tr>
<td>Temperature monitoring</td>
<td>NTC</td>
<td>NTC</td>
<td>NTC</td>
</tr>
<tr>
<td>Weight</td>
<td>2.08 kg</td>
<td>1.65 kg</td>
<td>1.65 kg</td>
</tr>
<tr>
<td>Type of cell</td>
<td>NiCd</td>
<td>Li-Ion</td>
<td>Li-Ion</td>
</tr>
<tr>
<td>No. of cells</td>
<td>30</td>
<td>30</td>
<td>30</td>
</tr>
</tbody>
</table>

### 5 Safety instructions

**NOTE**

The safety rules in section 5.1 contain all general safety rules for power tools which, in accordance with the applicable standards, must be listed in the operating instructions. Accordingly, some of the rules listed may not be relevant to this tool.

**5.1 General power tool safety warnings**

#### a) 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.

**5.1.1 Work area safety**

#### a) Keep work area clean and well lit. Cluttered or dark areas invite accidents.

#### b) 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.

#### c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

**5.1.2 Electrical safety**

#### a) 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.

#### b) 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.

#### c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

#### d) 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.

#### e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of an RCD reduces the risk of electric shock.

#### f) 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.

**5.1.3 Personal safety**

#### a) 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.

#### b) Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-slip safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

#### c) 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.

#### d) 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.
e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
f) 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.
g) 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.

5.1.4 Power tool use and care

a) 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.
b) 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.
c) 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.
d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with power tools or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
e) 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.
f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
g) 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.

5.1.5 Battery tool use and care

a) Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
b) Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
c) When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
d) Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

5.1.6 Service

a) 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.

5.2 Cutting procedures

a) **DANGER**

Keep hands away from cutting area and the blade. Keep your second hand on auxiliary handle, if any, or motor housing. If both hands are holding the saw, they cannot be cut by the blade.
b) Do not reach underneath the workpiece. The guard cannot protect you from the blade below the workpiece.
c) Adjust the cutting depth to the thickness of the workpiece. Less than a full tooth of the blade teeth should be visible below the workpiece.
d) Never hold piece being cut in your hands or across your leg. Secure the workpiece to a stable platform. It is important to support the work properly to minimize body exposure, blade binding, or loss of control.
e) Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting tool may contact hidden wiring. Contact with a “live” wire will also make exposed metal parts of the power tool “live” and could give the operator an electric shock.
f) When ripping always use a rip fence or straight edge guide. This improves the accuracy of cut and reduces the chance of blade binding.
g) Always use blades with correct size and shape (diamond versus round) of arbour holes. Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.
h) Never use damaged or incorrect blade washers or bolt. The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.

5.3 Further safety instructions for all saws

Kickback causes and related warnings

Kickback is a sudden reaction to a pinched, bound or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator; when the blade is pinched or bound tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator; if the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator.
Kickback is the result of saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

a) Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade. Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator, if proper precautions are taken.

b) When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur. Investigate and take corrective actions to eliminate the cause of blade binding.

c) When restarting a saw in the workpiece, centre the saw blade in the kerf and check that saw teeth are not engaged into the material. If saw blade is binding, it may walk up or kickback from the workpiece as the saw is restarted.

d) Support large panels to minimise the risk of blade pinching and kickback. Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.

e) Do not use dull or damaged blades. Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.

f) Blade depth and bevel adjusting locking levers must be tight and secure before making cut. If blade adjustment shifts while cutting, it may cause binding and kickback.

Riving knife function

a) Use the appropriate saw blade for the riving knife. For the riving knife to function, the body of the blade must be thinner than the riving knife and the cutting width of the blade must be wider than the thickness of the riving knife.

b) Adjust the riving knife as described in this instruction manual. Incorrect spacing, positioning and alignment can make the riving knife ineffective in preventing kickback.

c) Always use the riving knife except when plunge cutting. Riving knife must be replaced after plunge cutting. Riving knife causes interference during plunge cutting and can create kickback.

d) For the riving knife to work, it must be engaged in the workpiece. The riving knife is ineffective in preventing kickback during short cuts.

e) Do not operate the saw if riving knife is bent. Even a light interference can slow the closing rate of a guard.

5.5 Additional safety instructions for all saws with riving knife

b) When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur. Investigate and take corrective actions to eliminate the cause of blade binding.

c) When restarting a saw in the workpiece, centre the saw blade in the kerf and check that saw teeth are not engaged into the material. If saw blade is binding, it may walk up or kickback from the workpiece as the saw is restarted.

d) Support large panels to minimise the risk of blade pinching and kickback. Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.

e) Do not use dull or damaged blades. Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.

f) Blade depth and bevel adjusting locking levers must be tight and secure before making cut. If blade adjustment shifts while cutting, it may cause binding and kickback.

g) Use extra caution when sawing into existing walls or other blind areas. The protruding blade may cut objects that can cause kickback.

5.4 Safety instructions for circular saws with outer pendulum guard

Lower guard function

a) Check lower guard for proper closing before each use. Do not operate the saw if lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position. If saw is accidentally dropped, lower guard may be bent. Raise the lower guard with the retracting handle and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.

b) Check the operation of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use. Lower guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.

c) Lower guard may be retracted manually only for special cuts such as “plunge cuts” and “compound cuts.” Raise lower guard by retracting handle and as soon as blade enters the material, the lower guard must be released. For all other sawing, the lower guard should operate automatically.

d) Always observe that the lower guard is covering the blade before placing saw down on bench or floor. An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after switch is released.

5.6 Additional safety instructions

5.6.1 Personal safety

a) Wear ear protectors. Exposure to noise can cause hearing loss.

b) Always hold the power tool securely with both hands on the grips provided. Keep the grips dry, clean and free from oil and grease.

c) Breathing protection must be worn if the power tool is used without a dust removal system for work that creates dust.

d) Do not operate the power tool without the protective devices that belong to it.

e) Operate the power tool only as intended and when it is in faultless condition.

f) Improve the blood circulation in your fingers by relaxing your hands and exercising your fingers during breaks between working.

g) Switch the power tool on only after bringing it into position at the workpiece.

h) Remove the battery before storing or transporting the power tool.

i) Always guide the power tool away from your body when working with it.

j) Do not work with the power tool overhead.
k) Do not attempt to brake the speed of the saw blade by pressing it to the side.
l) Do not touch the clamping flange or the clamping screw while the power tool is running.
m) The kerf must be free of obstructions. Do not saw into screws and nails etc.
n) Never press the drive spindle lock button while the saw blade is rotating.
o) Never direct the power tool toward persons.
p) Adjust the pressure applied to the saw blade and the material being cut so that the blade doesn’t stall, possibly causing the power tool to kick back.
q) Avoid overheating the tips of the saw blade teeth.
r) When cutting plastics, melting of the plastic should be avoided.
s) Before beginning the work, check the hazard classification of the dust that will be produced. Use an industrial vacuum cleaner with an officially approved protection classification in compliance with locally applicable dust protection regulations.
t) Children must be instructed not to play with the power tool.
u) The power tool is not intended for use by children, by debilitated persons or those who have received no instruction or training.
v) Dust from material such as paint containing lead, some wood species, minerals and metal may be harmful. Contact with or inhalation of the dust may cause allergic reactions and/or respiratory diseases to the operator or bystanders. Certain kinds of dust are classified as carcinogenic such as oak and beech dust especially in conjunction with additives for wood conditioning (chromate, wood preservative). Material containing asbestos must only be treated by specialists. Where the use of a dust extraction device is possible it shall be used. To achieve a high level of dust collection, use a suitable vacuum cleaner of the type recommended by Hilti for wood dust and/or mineral dust together with this tool. Ensure that the workplace is well ventilated. The use of a dust mask of filter class P2 is recommended. Follow national requirements for the materials you want to work with.

### 5.6.2 Power tool use and care

a) Secure the workpiece. Use clamps or a vice to secure the workpiece. The workpiece is thus held more securely than by hand and both hands remain free to operate the power tool.
b) Check that the insert tools used are compatible with the chuck system and that they are secured in the chuck correctly.

c) Electrical safety

> Before beginning work, check the working area (e.g. using a metal detector) to ensure that no concealed electric cables or gas and water pipes are present. External metal parts of the power tool may become live, for example, when an electric cable is damaged accidentally. This presents a serious risk of electric shock.

### 5.6.4 Battery use and care

a) Observe the special instructions applicable to the transport, storage and use of Li-ion batteries.
b) Do not expose batteries to high temperatures or fire. This presents a risk of explosion.
c) Do not disassemble, squash or incinerate batteries and do not subject them to temperatures over 80°C. This presents a risk of fire, explosion or injury through contact with caustic substances.
d) Use only batteries that are approved for use with the applicable tool or appliance. Use of unapproved batteries or use of the batteries for areas of application for which they are not approved presents a risk of fire and explosion.
e) Do not charge or continue to use damaged batteries (e.g. batteries with cracks, broken parts, bent or pushed-in and/or pulled-out contacts).
f) If the battery gets too hot to touch, this may indicate that it is faulty. Place the tool in a location where it can be kept under observation, well away from flammable materials, and allow it to cool down. Contact Hilti Service after the battery has been allowed to cool.

### 5.6.5 Work area

a) Ensure that the workplace is well lit.
b) Ensure that the workplace is well ventilated. Exposure to dust at a poorly ventilated workplace may result in damage to the health.

### 5.6.6 Personal protective equipment

The user and any other persons in the vicinity must wear suitable eye protection, a hard hat, ear protection, protective gloves and breathing protection while the tool is in use.

### 5.6.7 Safety precautions

Do not switch the power tool on if the saw blade, the blade guard, the pivoting guard or the riving knife are not fitted correctly.
## 6 Before use

### 6.1 Battery use and care

**NOTE**
Battery performance drops at low temperatures. Never use the battery until the cells become fully discharged. Change to the second battery as soon as a drop in performance is noticed. Recharge the battery immediately so that it is ready for reuse.

Store the battery in a cool, dry place. Never store the battery where it is exposed to the heat of the sun, on a radiator or behind glass, e.g. at a window. Batteries that have reached the end of their life must be disposed of safely and correctly to avoid environmental pollution. Insert the battery in the corresponding charger.

### 6.2 Charging the battery

**CAUTION**
Use only the Hilti chargers listed under “Accessories”.

**DANGER**
Ensure that the outer surfaces of the battery are clean and dry before inserting it in the corresponding charger. Read the operating instructions for the charger for further information about the charging procedure.

#### 6.2.1 Charging a new battery for the first time

A new battery must be charged correctly for the first time before use. This will ensure that the cells form correctly. Incorrect initial charging may have a permanent, negative effect on battery capacity. Please refer to the applicable battery charger’s operating instructions for information about initial charging.

#### 6.2.2 Recharging a NiCd battery

NiCd batteries should be charged fully each time they are charged.

#### 6.2.3 Recharging Li-ion batteries

Li-ion batteries are ready for use for any time, even when only partly charged. Charging progress is indicated by the LED display (see charger operating instructions).

### 6.3 Fitting the battery

**DANGER**
Use only the Hilti batteries and Hilti chargers listed under “Accessories”.

**CAUTION**
Check that the power tool is switched off and the switch interlock activated before fitting the battery. Use only the Hilti batteries approved for use with this power tool.

1. Push the battery into the power tool from the rear as far as it will go and until it is heard to engage with a double click.
2. **CAUTION** A falling battery may present a risk of injury to yourself and others. Check that the battery is seated securely in the power tool.

### 6.4 Removing the battery

1. Press one or both release buttons.
2. Pull the battery out of the power tool toward the rear.

### 6.5 Transport and storage of batteries

Pull the battery out of the locked position (working position) and move it into the first click-stop position (transport position).

If you disconnect a battery from the power tool for transport or storage, make sure that the battery contacts are not short-circuited. Remove loose metal parts such as screws, nails, clamps, loose screwdriving bits, wires or metal swarf from the case, toolbox or transport container, or prevent these parts from coming into contact with the battery.

Observe national and international transport regulations when shipping batteries (transportation by road, rail, sea or air).
7 Operation

NOTE
If the blade is stalled for a long time, the tool will not restart by itself when the pressure applied to it is released. The switch-on interlock and the on/off switch must be pressed again.

CAUTION
Wear protective gloves. The cutting edges of the saw blade teeth are sharp. The cutting edges may present a risk of injury.

CAUTION
Wear protective glasses and a dust mask. The sawing operation swells up dust and wood chips into the air. The dust and wood chips may be harmful to the eyes and respiratory system.

CAUTION
Wear ear protectors. The power tool and the sawing operation generate noise. Exposure to noise can cause loss of hearing.

7.1 Changing the saw blade

CAUTION
Wear protective gloves when changing insert tools. The blade, the clamping flange and the clamping screw get hot.

CAUTION
Check that the blade to be fitted complies with the technical requirements and that it is well sharpened. A sharp saw blade is an essential requirement for a perfect cut.

7.1.1 Removing the saw blade
1. Pull the battery out of the power tool.
2. Press the drive spindle lockbutton.
3. Turn the saw blade clamping screw with the hex. socket wrench until the locking pin engages fully.
4. Use the hex. socket wrench to release the clamping screw by turning it counterclockwise.
5. Remove the clamping screw from the outer clamping flange.
6. Open the pivoting guard by swinging it to the side and then remove the saw blade.

7.1.2 Fitting the saw blade
1. Pull the battery out of the power tool.
2. Clean the mounting flange and the clamping flange.
3. Fit the mounting flange.
4. Open the pivoting guard.
5. CAUTION Observe the direction-of-rotation arrow on the saw blade. Fit the new saw blade.
6. Fit the outer clamping flange.
7. Secure the clamping flange by tightening the clamping screw in a clockwise direction. When doing so, press the spindle lockbutton as before (see “Removing the blade”).
8. Before using the power tool, check that the saw blade is securely attached.

7.2 Adjusting the riving knife

Check to ensure that the riving knife is adjusted correctly. The gap between the riving knife and the teeth of the blade should be no more than 5 mm and the teeth should project no more than 5 mm below the lower edge of the riving knife.

The riving knife prevents the blade sticking when making longitudinal cuts. The saw may therefore be used only when the riving knife is correctly fitted and adjusted.

1. Pull the battery out of the power tool.
2. Release the hex. socket screw with a hex. socket wrench.
3. Adjust the riving knife as shown in the illustration.
4. Tighten the hex. socket screw with a hex. socket wrench.

7.3 Adjusting the cutting depth

NOTE
The cutting depth set should always be approx. 5 to 10 mm greater than the thickness of the material to be cut.

The cutting depth can be adjusted steplessly between 0 and 70 mm (2 5/8”).

1. Pull the battery out of the power tool.
2. Place the power tool on a supporting surface.
3. Release the cutting depth adjustment clamping lever. The depth set can be read from the scale at the arrow on the guide.
4. Lift the power tool in a scissor movement and set the desired cutting depth by closing the clamping lever.

7.4 Adjusting the cutting angle

The power tool can be set to any angle between 0 and 45° for bevel cuts. Angles of up to 50° can be set after lifting the angle extender.

1. Pull the battery out of the power tool.
2. Release the cutting angle adjustment clamping lever.
3. Pivot the power tool into the desired position or, respectively, lift the angle extender to allow angles up to 50° to be set.
4. Tighten the cutting angle adjustment clamping lever.
7.5 Sawing along a line
There is a cutting line indicator for straight cuts or bevel cuts (0° and 45°) at the front section of the base plate of the power tool. This permits precise cuts to be made at the selected cutting angle. The edge of the line indicator corresponds to the inside of the saw blade. The viewing window provides a better view of the cutting line and thus ensures a better cut. Additional cutting line indicators are located at the front opening for the saw blade and at the end of the base plate.

1. Secure the workpiece so that it cannot move.
2. Position the workpiece so that the saw blade is free to move under the workpiece.
3. Check to ensure that the switch on the power tool is in the off-position.
4. Fit the battery into the power tool.
5. Place the power tool with the base plate on the workpiece in such a way that the blade still has no contact with the workpiece.
6. Switch the power tool on by pressing the switch-on interlock and then pressing the on/off switch while the switch-on interlock is depressed.
7. Guide the power tool along the cutting line on the workpiece at a suitable speed.

7.6 Sawing using the parallel guide (accessory)
Use of the two-arm parallel guide allows precise cuts to be made along the edge of the workpiece or, respectively, strips of even width to be cut.
The parallel guide can be fitted on either side of the base plate.

7.7 Fitting / adjusting the parallel guide
1. Pull the battery out of the power tool.
2. Release the clamping screws on the base plate.
3. Slide both arms of the parallel guide under the clamping screws.
4. Set the desired cutting width.
5. Tighten the clamping screws.

7.8 Using the saw on the guide rail
7.8.1 Longitudinal cuts at 0 °
Place the saw on the guide rail so that the rib fits into the groove in the base plate.

7.8.2 Longitudinal cuts at up to 50 °
Guide the saw so that the outer edge of the base plate runs along the rib on the guide rail. The saw blade will otherwise come into contact with the guide rail.

7.8.3 Cuts at an angle across the surface of the workpiece
NOTE
The cutting angle indicated is the angle of deviation from a straight, right-angled cut.

7.9 Trimming to size
1. Secure the guide rail from below with two screw clamps.
NOTE The saw must be placed on the guide rail behind the workpiece.
2. CAUTION Take care to ensure that the saw blade is not in contact with the workpiece.
Position the saw on the guide rail a short distance from the starting point of the cut.
3. Switch the power tool on.
4. Push the saw steadily across the workpiece.
The pendulum guard opens as it contacts the actuating edge at the side of the guide rail and subsequently closes at the end of the rail as the cut is completed.

7.10 Cleaning the chip ejector channel
CAUTION
The battery must not be inserted into the power tool.
1. Press the plastic tab at the rear underside of the guard and remove the guard.
2. Clean the chip ejector channel in the guard.
3. Refit and secure the guard, making sure that the plastic tab engages.
4. Check that moving parts on the power tool are working properly and not jamming. Check also whether parts are broken or damaged in such a way that impairs proper functioning of the power tool.

7.11 Using the saw with a dust and chip removal system
NOTE
The circular saw is equipped with a hose connector suitable for use with common types of vacuum cleaner hose. In order to connect the vacuum cleaner hose to the saw, use of a suitable adapter may be necessary.

CAUTION
Dusts are hazardous to the health and can cause respiratory or skin diseases and allergic reactions.

WARNING
Certain dusts are considered to be carcinogenic (cause cancer). These include mineral dust as well as oak and/or beech wood dust, particularly in conjunction with additional substances used for the treatment of wood (chromate, wood preservatives).
**CAUTION**

Wherever possible, use a suitable mobile vacuum dust removal system such as the WVC 40-M (wood) or VCU 40-M (wood and mineral materials) for the application concerned. Use a respiratory protector of the P2 filter class with half-mask facepiece if no dust removal system is available or its use is impossible. In addition, to keep the concentration of dust low, always ensure good ventilation.

**CAUTION**

Commercial and industrial users must consult the responsible trade association to clarify the situation regarding special requirements applicable to working on other materials.

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### 7.12 Using the saw without a dust and chip removal system

**NOTE**

The power tool can also be used with a push-on chip deflector. Turn the nozzle to the desired direction of ejection so that the chips and dust are deflected away from you.

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### 8 Care and maintenance

**CAUTION**

Before beginning cleaning, remove the battery from the power tool in order to prevent unintentional starting.

#### 8.1 Care of insert tools

Clean off dirt and dust deposits adhering to the insert tools and protect them from corrosion by wiping the insert tools from time to time with an oil-soaked rag.

#### 8.2 Care of the power tool

**CAUTION**

Keep the power tool, especially its grip surfaces, clean and free from oil and grease. Do not use cleaning agents which contain silicone.

The outer casing of the power tool is made from impact-resistant plastic. Sections of the grip are made from a synthetic rubber material. Never operate the power tool when the ventilation slots are blocked. Clean the ventilation slots carefully using a dry brush. Do not permit foreign objects to enter the interior of the power tool. Clean the outside of the power tool at regular intervals with a slightly damp cloth. Do not use a spray, steam pressure cleaning equipment or running water for cleaning. This may negatively affect the electrical safety of the power tool.

#### 8.3 Cleaning the safety devices

1. Remove the saw blade before cleaning the safety devices.
2. Clean the safety devices carefully with a dry brush.
3. Use a suitable tool to remove deposits or wood chips from the inside surfaces of the safety devices.
4. Fit the saw blade.

#### 8.4 Care of the NiCd battery

Avoid entrance of moisture. Keep the electrical contacts free from dust, oil and grease. If necessary, use a clean cloth to clean the contact surfaces. The battery must be recharged as soon as the power tool’s performance drops noticeably or when the deep discharge prevention system becomes active.

**NOTE**

Please refer to the operating instructions for the charger for further information about charging the battery.

#### 8.5 Care of the Li-ion battery

Avoid ingress of moisture. Charge the battery fully before using it for the first time. In order to achieve maximum battery life, stop discharging the battery as soon as a significant drop in battery performance is noticed.

**NOTE**

If use continues, further battery discharge will be stopped automatically before the battery cells suffer damage.

Charge the battery using an approved charger from Hilti designed for use with Li-ion batteries.

- A conditioning charge (as is required with NiCd or NiMH batteries) is not necessary.
- Interruption of the charging procedure has no negative effect on battery life.
- Charging can be started at any time with no negative effect on battery life. There is no memory effect (as with NiCd or NiMH batteries).
- For best results, batteries should be stored fully charged in a cool dry place. Storing the battery in places subject to high ambient temperatures (e.g. at a window) has an adverse effect on battery life and increases the rate of self-discharge.
- If the battery no longer reaches full charge, it may have lost capacity due to aging or overpressuring. It is still possible to work with this battery. You should, however, soon replace the battery with a new one.

#### 8.6 Maintenance

**WARNING**

Repairs to the electrical section of the power tool may be carried out only by trained electrical specialists.
Check all external parts of the power tool for damage at regular intervals and check that all controls operate faultlessly. Do not operate the power tool if parts are damaged or when the controls do not function faultlessly. Have the power tool repaired by Hilti Service.

### 8.7 Checking the power tool after care and maintenance

After carrying out care and maintenance work on the power tool, check that all protective and safety devices are fitted and that they function faultlessly. To check the pivoting guard, open the guard fully by moving the guard operating lever. The pivoting guard must close quickly and completely when the guard operating lever is released.

### 9 Troubleshooting

<table>
<thead>
<tr>
<th>Fault</th>
<th>Possible cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>The power tool doesn’t run.</td>
<td>The battery is discharged or fitted incorrectly.</td>
<td>The battery must be heard to engage with a double click or, respectively, needs to be charged.</td>
</tr>
<tr>
<td></td>
<td>Electrical fault.</td>
<td>Remove the battery from the power tool and contact Hilti Service.</td>
</tr>
<tr>
<td></td>
<td>The battery is discharged/hot.</td>
<td>Deep discharge prevention / the electronics switch off. Insert the battery in the charger or allow it to cool down.</td>
</tr>
<tr>
<td>The on / off switch can’t be pressed, i.e.</td>
<td>Not a fault (safety function).</td>
<td>Press the switch-on interlock.</td>
</tr>
<tr>
<td>the switch is locked.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Running speed suddenly drops considerably.</td>
<td>The battery is discharged or the feed pressure applied to the power tool is too high.</td>
<td>Change the battery and recharge the discharged battery. Reduce the feed pressure applied to the power tool.</td>
</tr>
<tr>
<td>The battery runs down more quickly than usual.</td>
<td>Battery condition is not optimal.</td>
<td>Only NiCd batteries should be given a conditioning charge. (Please refer to the operating instructions for the charger.)</td>
</tr>
<tr>
<td>The power tool doesn’t restart by itself after the saw blade has stalled.</td>
<td>The deep discharge prevention system has switched off after the blade has stalled a second time.</td>
<td>Press the switch-on interlock and the on/off switch again.</td>
</tr>
<tr>
<td>The battery doesn’t engage with an audible double click.</td>
<td>The retaining lugs on the battery are dirty.</td>
<td>Clean the retaining lugs and check that the battery engages securely. Contact Hilti Service if the problem persists.</td>
</tr>
<tr>
<td>The tool or the battery become very warm.</td>
<td>Electrical fault.</td>
<td>Switch the power tool off immediately, remove the battery and contact Hilti Service.</td>
</tr>
<tr>
<td></td>
<td>The power tool has been overloaded (application limits exceeded).</td>
<td>Use the right power tool for the job (don’t use a low-powered tool for heavy work).</td>
</tr>
<tr>
<td></td>
<td>Chip ejector channel blocked.</td>
<td>Clean out the chip ejector channel.</td>
</tr>
</tbody>
</table>

### 10 Disposal

**CAUTION**

Improper disposal of the equipment may have serious consequences: the burning of plastic components generates toxic fumes which may present a health hazard. Batteries may explode if damaged or exposed to very high temperatures, causing poisoning, burns, acid burns or environmental pollution. Careless disposal may permit unauthorized and improper use of the equipment. This may result in serious personal injury, injury to third parties and pollution of the environment.
CAUTION
Dispose of defective batteries without delay. Keep them out of reach of children. Do not attempt to open or dismantle batteries and do not dispose of them by incineration.

CAUTION
Dispose of the batteries in accordance with national regulations or return them to Hilti.

Most of the materials from which Hilti power tools or appliances are manufactured can be recycled. The materials must be correctly separated before they can be recycled. In many countries, Hilti has already made arrangements for taking back your old power tools or appliances for recycling. Please ask your Hilti customer service department or Hilti representative for further information.

For EC countries only
Disposal of electric tools together with household waste is not permissible.

In observance of the European Directive on waste electrical and electronic equipment and its implementation in accordance with national law, electrical appliances that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

11 Manufacturer’s warranty - tools
Please contact your local Hilti representative if you have questions about the warranty conditions.

12 EC declaration of conformity (original)
Designation: Cordless circular saw
Type: WSC 70-A36
Year of design: 2006
We declare, on our sole responsibility, that this product complies with the following directives and standards: 2006/42/EC, 2004/108/EC, 2006/66/EC, 2011/65/EU, EN 60745-1, EN 60745-2-5, EN ISO 12100.

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01/2012  01/2012

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