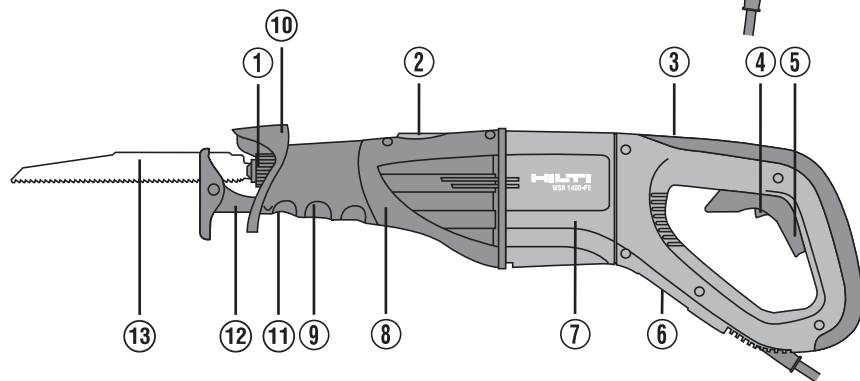
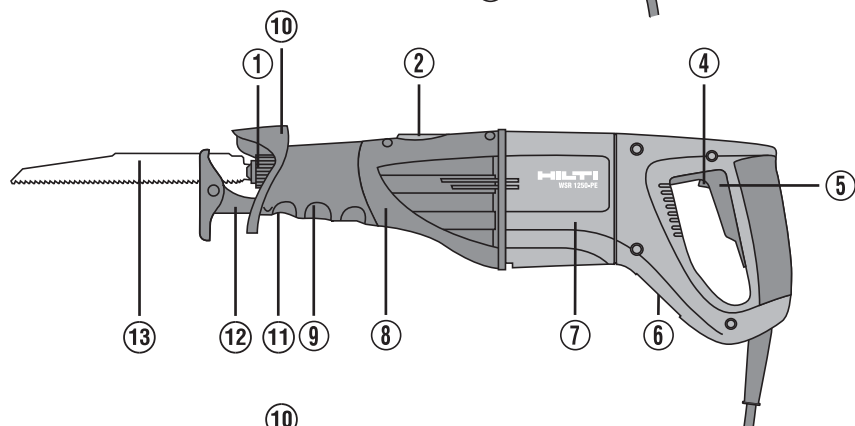
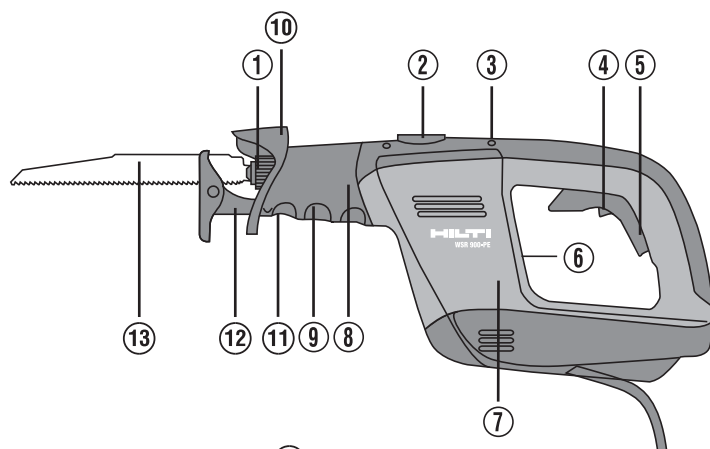




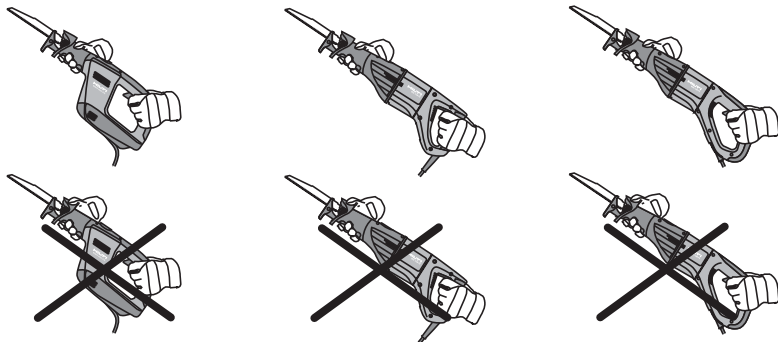
# **WSR 900-PE / WSR 1250-PE / WSR 1400-PE**

<b>Bedienungsanleitung</b>	<b>de</b>
<b>Operating instructions</b>	<b>en</b>
<b>Mode d'emploi</b>	<b>fr</b>
<b>Istruzioni d'uso</b>	<b>it</b>
<b>Gebruiksaanwijzing</b>	<b>nl</b>
<b>Manual de instruções</b>	<b>pt</b>
<b>Manual de instrucciones</b>	<b>es</b>
<b>Brugsanvisning</b>	<b>da</b>
<b>Käyttöohje</b>	<b>fi</b>
<b>Bruksanvisning</b>	<b>no</b>
<b>Bruksanvisning</b>	<b>sv</b>
<b>Οδηγίες χρήσεως</b>	<b>el</b>
<b>دليل الاستعمال</b>	<b>ar</b>
<b>Kasutusjuhend</b>	<b>et</b>
<b>Instrukcija</b>	<b>lt</b>
<b>Lietošanas pamācība</b>	<b>lv</b>

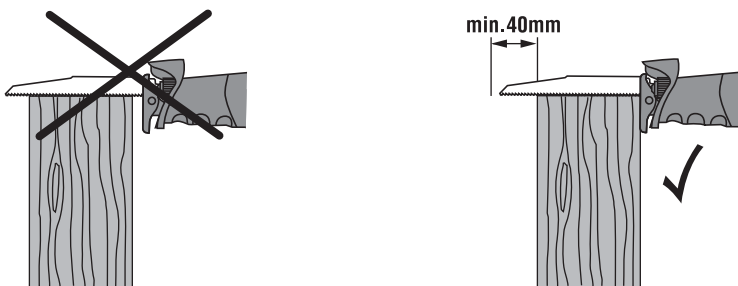




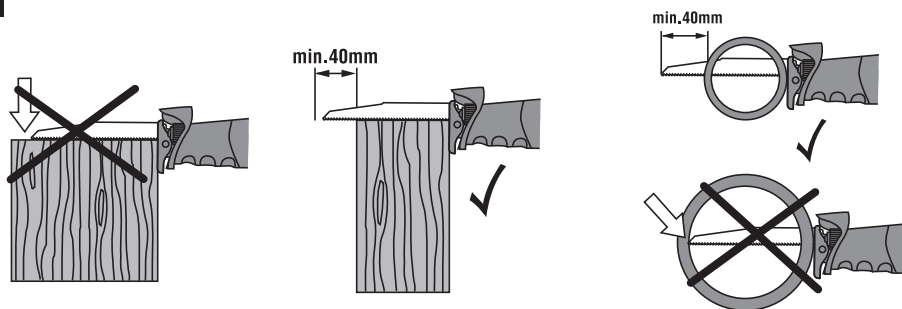
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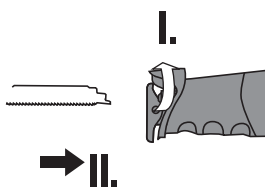
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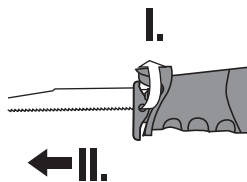
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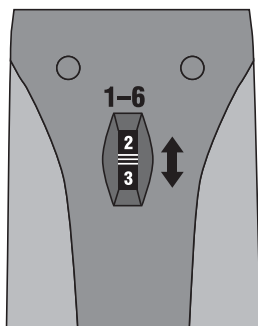
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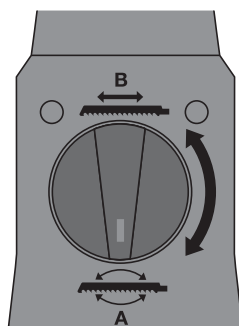
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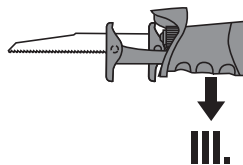
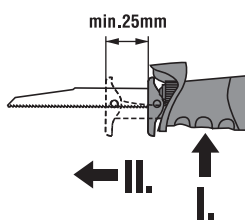
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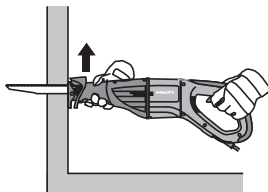
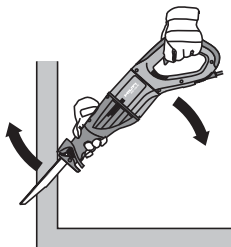
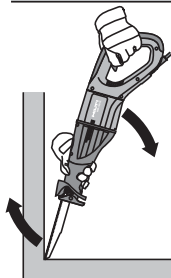
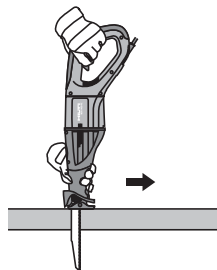
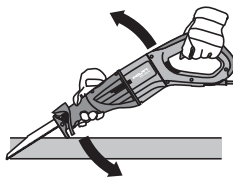
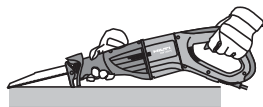
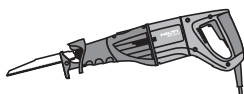
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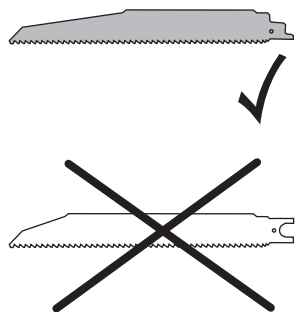
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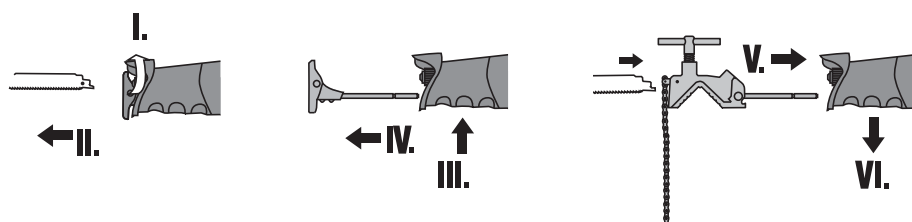
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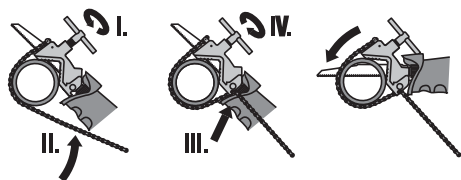
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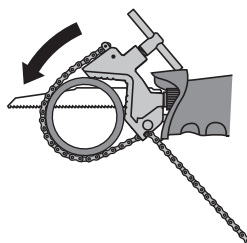
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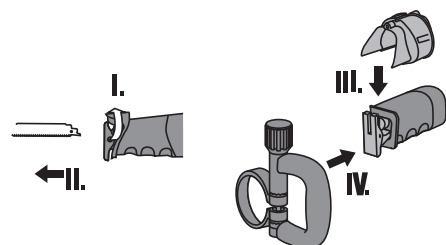
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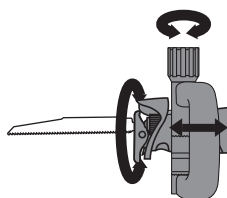
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# WSR 900-PE / WSR 1250-PE / WSR 1400-PE

## reciprocating saw

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

***Always keep these operating instructions together with the tool.***

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

### Operating controls and parts 1

- ① Blade clamp / blade holder
- ② Orbital action selector switch
- ③ Stroke rate regulator  
(only WSR 900-PE / WSR 1400-PE)
- ④ Transport lock
- ⑤ Control switch
- ⑥ Type plate
- ⑦ Motor
- ⑧ Gearing section
- ⑨ Front-end grip area (hand guard)
- ⑩ Hand guard with blade holder cover
- ⑪ Lockbutton for adjusting the contact shoe
- ⑫ Contact shoe
- ⑬ Saw blade

Contents	Page
1. General information	13
2. Description	14
3. Blades and accessories	15
4. Technical data	15
5. Safety rules	16
6. Before use	18
7. Operation	19
8. Care and maintenance	21
9. Troubleshooting	21
10. Disposal	22
11. Manufacturer's warranty – tools	22
12. EC declaration of conformity (original)	22

## 1. General information

### 1.1 Signal words and their meaning

#### -WARNING-

The word WARNING is used to draw attention to a potentially dangerous situation which could lead to severe personal injury or death.

#### -CAUTION-

Used to draw attention to a potentially dangerous situation which could lead to minor personal injury or damage to the equipment or other property.

#### -NOTE-

Used to draw attention to an instruction or other useful information.

### 1.2 Pictograms

#### Warning signs



General warning



Warning: electricity



Warning: hot surface

#### Obligation signs



Wear eye protection



Wear ear protection



Wear protective gloves



Wear breathing protection



Wear a hard hat

#### Symbols



Read the operating instructions before use.



Return waste material for recycling

**1** 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 WSR 900-PE / WSR 1250-PE / WSR 1400-PE reciprocating saw is referred to as "the tool".

## Location of identification data on the tool

The type designation and serial number can be found on the rating plate on the tool. 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.

Type: \_\_\_\_\_

Serial no.: \_\_\_\_\_

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## 2. Description

### 2.1 Use of the WSR 900-PE as directed

- Typical working environments include rescue services, public authorities, farming and forestry, general construction, renovation and conversion work, metal construction, plumbing / heating / air-conditioning installation trades, in workshops and on construction sites.
- The tool may be used for cutting wood, wood-like materials, metals and plastics.
- The tool must be used in a dry environment.
- The tool may be powered only by an electric supply voltage in compliance with the information given on the type plate.
- The tool is designed for two-handed operation.
- Use only the blades and accessories listed in the operating instructions.



- Do not use the tool to cut bricks, concrete, cellular concrete, natural stone or tiles.
- Do not use the tool in a damp environment.
- Do not use the tool in environments where there is a risk of explosion.
- Do not use the tool to cut pipes that still contain liquids.
- Do not cut into unknown materials.
- Use the tool within its intended cutting performance range and with suitable blades (do not use blades of the wrong size or reciprocating saw blades not equipped with a 1/2" connection end).
- Cutting materials containing asbestos is not permissible.
- Changes or modifications to the tool are not permissible.
- To avoid the risk of injury, use only original Hilti accessories and additional equipment.
- Observe the information printed in the operating instructions concerning operation, care and maintenance.
- The tool is intended for professional use.
- The tool may be operated, serviced and repaired only by authorized, trained personnel. This personnel must be informed of any special hazards that may be encountered.
- The tool and its ancillary equipment may present hazards when used incorrectly by untrained personnel or when used not as directed.

### -WARNING-

Before cutting pipes, always first ensure that the pipes

contain no liquids. Empty the pipes if necessary. The tool is not water or moisture proof. Liquids running out may cause a short circuit in the tool resulting in an electric shock being received. When cutting pipes, hold the tool so that it is higher than the pipe being cut.

### 2.2 Use of the WSR 1250-PE / WSR 1400-PE as directed

- Typical working environments include general construction, renovation and conversion work, metal construction, plumbing / heating / air-conditioning installation trades, rescue services, public authorities, farming and forestry, in workshops and on construction sites.
- The tool may be used for cutting wood, wood-like materials, metals, plastics, bricks, cellular concrete and tiles.
- The tool must be used in a dry environment.
- The tool may be powered only by an electric supply voltage in compliance with the information given on the type plate.
- The tool is designed for two-handed operation.
- Use only the blades and accessories listed in the operating instructions.



- Do not use the tool to cut concrete or natural stone.
- Do not use the tool in a damp environment.
- Do not use the tool in environments where there is a risk of explosion.
- Do not use the tool to cut pipes that still contain liquids.
- Do not cut into unknown materials.
- Use the tool within its intended cutting performance range and with suitable blades (do not use blades of the wrong size or reciprocating saw blades not equipped with a 1/2" connection end).
- Cutting materials containing asbestos is not permissible.
- Changes or modifications to the tool are not permissible.
- To avoid the risk of injury, use only original Hilti accessories and additional equipment.
- Observe the information printed in the operating instructions concerning operation, care and maintenance.
- The tool is intended for professional use.
- The tool may be operated, serviced and repaired only by authorized, trained personnel. This personnel

must be informed of any special hazards that may be encountered.

- The tool and its ancillary equipment may present hazards when used incorrectly by untrained personnel or when used not as directed.

#### **-WARNING-**

Before cutting pipes, always first ensure that the pipes contain no liquids. Empty the pipes if necessary. The tool is not water or moisture proof. Liquids running out

may cause a short circuit in the tool resulting in an electric shock being received. When cutting pipes, hold the tool so that it is higher than the pipe being cut.

#### **2.3 The items supplied include:**

- Reciprocating saw including contact shoe and saw blade
- Operating instructions
- Toolbox

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## **3. Blades and accessories**

Saw blades

Pipe cutting adaptor

Side handle / Side handle adaptor

## **4. Technical data**

<b>Tool</b>	<b>WSR 900-PE</b>	<b>WSR 1250-PE</b>	<b>WSR 1400-PE</b>
Nominal power rating	900 W	1250 W	1400 W
Nominal voltage *	110 V / 8.5 A	110 V / 12.5 A	110 V / 13.4 A
Nominal current input *	120 V / 8.5 A	120 V / 12 A	120 V / 13 A
	220 V / 4.3 A	220 V / 6 A	220 V / 6.4 A
	230 V / 4.1 A	230 V / 6 A	230 V / 6.4 A
	240 V / 4.2 A	240 V / 5.8 A	240 V / 6.2 A
Mains frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Weight in accordance with EPTA procedure 01/2003	3.6 kg	4.5 kg	4.8 kg
Dimensions (L×B×H)	442×88×211 mm	493×101×180 mm	574×101×188 mm
Stroke rate	0–2700 min <sup>-1</sup>	0–2700 min <sup>-1</sup>	0–2700 min <sup>-1</sup>
Stroke	32 mm	32 mm	32 mm
Stroke rate regulation	Constant-speed electronics with variable stroke rate, stroke rate regulator with 6 pos.	Constant-speed electronics with variable stroke rate	Constant-speed electronics with variable stroke rate, stroke rate regulator with 6 pos.
Blade clamp	Keyless, for standard 1/2" blades		
Orbital action	on / off		
Double insulated (in accordance with EN 60745)	Protection class II (double insulated) 		

#### **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 (measured in accordance with EN 60745):

Typical A-weighted sound power level ( $L_{WA}$ ):	$\leq 100$ dB (A)	$\leq 100$ dB (A)	$\leq 100$ dB (A)
Typical A-weighted sound pressure level ( $L_{pA}$ ):	$\leq 89$ dB (A)	$\leq 89$ dB (A)	$\leq 89$ dB (A)

For the given sound power level as per EN 60745, the tolerance is 3 dB.

Triaxial vibration values (vibration vector sum)	Measured in accordance with EN 60745-2-11		
Sawing wood sheets, $a_{h,B}$	16.0 m/s <sup>2</sup>	22.0 m/s <sup>2</sup>	20.0 m/s <sup>2</sup>
Uncertainty (K) when sawing wood sheets	2.5 m/s <sup>2</sup>	2.5 m/s <sup>2</sup>	2.5 m/s <sup>2</sup>
Sawing wood beams, $a_{h,WB}$	23.0 m/s <sup>2</sup>	26.5 m/s <sup>2</sup>	28.0 m/s <sup>2</sup>
Uncertainty (K) when sawing wood beams	3.5 m/s <sup>2</sup>	3.5 m/s <sup>2</sup>	3.5 m/s <sup>2</sup>

### Vibration-absorbing grip

\* The tool is offered in different versions for various mains voltages. Please refer to the information on the type plate for the nominal voltage and nominal current input of your tool.


Right of technical changes reserved

## 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, require to 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

- 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.

#### 5.1.2 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.

### 5.1.3 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.

#### 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 the power tool 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 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 Additional safety precautions

#### 5.2.1 Personal safety

- a) **Hold power tool by insulated gripping surfaces, 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.
- b) **Wear ear protectors.** Exposure to noise can cause hearing loss.
- c) **Use auxiliary handle(s), if supplied with the tool.** Loss of control can cause personal injury.
- d) **Wear respiratory protection when the work causes dust.**
- e) **Exercise your fingers during pauses between work to improve the blood circulation in your fingers.**
- f) **Switch the tool on only once it has been brought into the working position close to the workpiece.**
- g) **To avoid tripping and falling when working, always lead the supply cord, extension cord and dust extraction hose away from the rear.**

- h) **The insert tool may become hot during use.** *There is a risk of burning the hands. Wear protective gloves when changing insert tools.*

- i) **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.*
- j) **The tool is not intended for use by children, by debilitated persons or those who have received no instruction or training.**
- k) **Children must be instructed not to play with the tool.**

#### 5.2.2 Work area

- a) **Ensure that the workplace is well lit.**
- b) **Ensure that the workplace is well ventilated.** *Poorly ventilated workplaces may be injurious to the health due to exposure to dust.*

#### 5.2.3 Electrical safety

- a) **Before beginning work, check the working area (e.g. with a metal detector) to ensure that no concealed electric cables or gas and water pipes are present.** *External metal parts of the tool may become live if, for example, an electric cable is damaged inadvertently. This presents a serious risk of electric shock.*
- b) **Check the condition of the supply cord and its plug connections and have it replaced by a qualified electrician if damage is found. Check the condition of the extension cord and replace it if damage is found. Do not touch the supply in the event of it suffering damage while working. Disconnect the supply cord plug from the socket. Damaged supply cords and extension cords present a risk of electric shock.**
- c) **Dirty or dusty electric tools should thus be checked at a Hilti service center at regular intervals, especially if used frequently for working on conductive materials. Dust (especially dust from conductive materials) or dampness adhering to the surface of the tool may, under unfavorable conditions, present a risk of electric shock.**
- d) **When working outdoors with an electric tool it must be ensured that the tool is connected to the electric supply by way of a ground fault circuit breaker (RCD) with a maximum rating of 30 mA (max. 30 mA tripping current). Use of a ground fault circuit breaker reduces the risk of electric shock.**

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e) It is recommended that a ground fault circuit breaker (RCD) with a maximum rating of 30 mA (max. 30 mA tripping current) is always used.

#### 5.2.4 Power tool use and care

- a) **Secure the workpiece.** Use clamps or a vice to hold the workpiece in place. *The workpiece is thus held more securely than by hand and both hands remain free to operate the tool.*
- c) **Ensure that the insert tools used are equipped with the appropriate connection end system and that they are properly fitted and secured in the chuck.**
- d) **In the event of a power failure, switch the tool off and unplug the supply cord.** *This prevents inadvertent starting when the power returns.*
- e) **Avoid using extension cords with multiple sockets and the simultaneous use of several electric tools connected to one extension cord.**

#### 5.2.5 Special safety precautions for reciprocating saws

- a) **When cutting, always guide the tool away from the body.**
- b) **Never place your hands in front of or on the saw blade.**
- c) **Do not cut unknown base materials.** *The blade may cause the tool to kick back if it strikes a hidden object.*
- d) **To ensure efficient and safe operation, the contact shoe of the tool must be pressed against the workpiece.**
- e) **Switch the tool off before transporting it.**

- f) **Always use saw blades of adequate length.** *To avoid kick-back while sawing, the blade must always project at least 40 mm beyond the workpiece during the stroke cycle.*
- g) **When using the pipe cutting adaptor (accessory), especially when cutting large-diameter pipes, apply only moderate pressure and select a suitable cutting speed in order to avoid overheating the tool (see 7.2.2).**
- h) **The cutting produced when sawing, especially metal cuttings, may be hot.** Wear suitable protective clothing.
- i) **Never use the tool without the hand guard fitted.**
- j) **Before beginning work, find out the hazard class of the dust produced by the work.** *Use only an industrial vacuum cleaner with an officially approved protection classification in compliance with your local dust control regulations for work with the tool.*

#### 5.2.6 Personal protective equipment

The user and any other persons in the vicinity must wear suitable eye protection, ear protection and protective gloves. They must also wear respiratory protection if no dust removal system is used.




## 6. Before use



### -NOTE-

The electric supply voltage must comply with the information on the type plate.

-CAUTION-	
	<ul style="list-style-type: none"> <li>● The cutting edges of the saw blade are sharp.</li> <li>● The cutting edges may present a risk of injury.</li> <li>● Moving parts may present a risk of injury.</li> <li>● Wear protective gloves.</li> </ul>

If extension cords are used: Use only extension cords of a type approved for the intended purpose and of adequate cross section. Failure to observe this point may result in reduced performance and may cause the cord to overheat. Replace damaged extension cords. Use only correspondingly marked and approved extension cords for working outdoors. Recommended minimum cross sections and max. cord lengths:

Mains voltage	Conductor cross section	
	1.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
110–120 V	20 m	40 m
230 V	50 m	100 m

### 6.1 Fitting the saw blade 5

1. Unplug the supply cord from the electric socket.
2. Check that the connection end of the blade is clean. The blade clamp should also be kept clean. Use only saw blades with 1/2" connection ends 11.
3. Turn the blade clamp locking sleeve in a counter-clockwise direction and hold it in this position.
4. Push the saw blade into the blade clamp.
5. Release the locking sleeve and allow it to move back. It should be heard to engage.
6. Check that the clamp has engaged by pulling on the blade.

### 6.2 Removing the saw blade 6

1. Unplug the supply cord from the electric socket.
2. Turn the blade clamp locking sleeve in a counter-clockwise direction and hold it in this position.
3. Pull the blade out of the clamp toward the front of the tool.
4. Release the locking sleeve.

### 6.3 Adjusting the contact shoe

The contact shoe can be adjusted to ensure optimum use of the blade length and to improve access in corners.

1. Unplug the supply cord from the electric socket.
2. Remove the saw blade (see 6.2).
3. Press the contact shoe lockbutton and hold it in this position.
4. Slide the contact shoe forward or back into the desired position.
5. Release the lockbutton.
6. Pull on the contact shoe to check that it has engaged.

### 6.4 Using the pipe cutting adaptor (accessory)

1. Unplug the supply cord from the electric socket.
2. Remove the saw blade (see 6.2).
3. Press the contact shoe lockbutton and hold it in this position.
4. Pull the contact shoe away from the tool toward the front.
5. Push the pipe cutting adaptor into the tool from the front until it is in the desired position.

6. Release the lockbutton.
  7. Pull on the pipe cutting adaptor to check that it has engaged.
  8. Open the screw clamp to the maximum position.
  9. Place the adapter chain around the pipe, locking the chain to the fitting.
- NOTE-** The handle should be at a 45° angle.

### 6.5 Fitting the side handle (accessory)


1. Unplug the supply cord from the electric socket.
2. Remove the saw blade (see 6.2).
3. Place the adaptor around the front grip section from above and close the adaptor.
4. Slide the side handle onto the adaptor from the front.
5. Secure the side handle by turning the screw knob on the handle.



### 6.6 Positioning the side handle (accessory)


1. Unplug the supply cord from the electric socket.
2. Slacken the screw knob on the side handle.
3. Bring the side handle into the desired position.
4. Secure the side handle by turning the screw knob on the handle.

## 7. Operation



	<b>-CAUTION-</b>
	<ul style="list-style-type: none"> <li>• The cutting edges of the saw blade are sharp.</li> <li>• The cutting edges may present a risk of injury.</li> <li>• Wear protective gloves.</li> </ul>

	<b>-CAUTION-</b>
 	<ul style="list-style-type: none"> <li>• The sawing operation swirls up dust and wood chips into the air.</li> <li>• The dust and wood chips may be harmful to the eyes and respiratory system.</li> <li>• Wear protective goggles and breathing protection.</li> </ul>

	<b>-CAUTION-</b>
	<ul style="list-style-type: none"> <li>• Operation of the tool creates noise.</li> <li>• Excessive noise may damage the hearing.</li> <li>• Wear ear protection.</li> </ul>



#### **-NOTE-**

- To ensure good cutting performance and ease the load on the tool, use only saw blades that are in good condition.
  - Do not overload the tool.
- #### **-CAUTION-**
- When working, always guide the tool away from the body.
  - Lift the tool away from the workpiece only once the blade has come to a standstill.
  - Do not lay the tool down before the blade has come to a standstill.



#### **-CAUTION-**

- The saw blade becomes hot when used for long periods.
- There is a risk of burning if the blade is touched.
- Wear protective gloves.

### 7.0 Safe operation

#### **-DANGER-**

**The power tool must be pressed against the workpiece until the contact shoe makes firm contact.** This helps ensure maximum safety and good performance.

**-DANGER-**

Always use saw blades that project at least 40 mm beyond the workpiece over the entire length of the blade stroke. This will help to avoid violent kickback.

**-WARNING-**

Always hold the power tool securely with both hands on the grips provided. Never use the power tool without the hand guard fitted. Do not use the blade holder cover as a grip. The blade holder presents a risk of injury.

**7.1 Switching on/off**

1. Plug the supply cord into the electric socket.
2. Press the transport lock and then press the control switch.

**7.2 Stroke rate**

**7.2.1 Adjusting the stroke rate 7**

The recommended stroke rate can be selected by turning the stroke rate regulator. When the control switch is pressed the tool will then run up to the pre-selected speed. The electronic speed control system maintains an almost constant stroke rate even under load. The recommended stroke rate settings and information concerning the correct choice of saw blade can be found in the product information and in the corresponding table of applications.

**7.2.2 Recommended stroke rates**

(1 = low stroke rate, 6 = high stroke rate)

Material to be cut	Recommended stroke rate
Wood	5–6
Wood with embedded nails	5–6
Interior finishing, drywall	3–4
Plastic	3–4
Steel	2–3
Non-ferrous metals	2–3
Aluminum	2–3
Stainless steel	1

The above settings are recommendations intended to ensure optimum cutting performance. These also apply when the pipe cutting adapter (accessory) is used. The optimum setting may differ from these recommendations depending on the saw blade used, the electric supply voltage and on how the tool is used. Setting the wrong stroke rate may cause the saw blade to wear more quickly and could damage the tool.

**7.3 Orbital action 8**

Use of the orbital action can increase cutting performance in certain materials such as wood or wood materials. The orbital action can be switched on or off by moving the orbital action selector switch as far as it will

go in each position. Move the switch only when the motor has stopped.

**7.3.1 Orbital action off**



Orbital action off

**7.3.2 Orbital action on**



Orbital action on

**7.4 Plunge sawing 10**

The plunge sawing technique should be used only on soft materials and when the orbital action is switched off. A little practice is required in order to be able to plunge the blade into the material while the tool is running and thus make cut-outs without first drilling a hole. Plunge sawing is possible only with short saw blades. Plunge cuts may be started with the tool in one of two different positions:

- in the normal position
  - or in the reversed position
1. Hold the tool with the front edge of the contact shoe against the workpiece.
  2. Press the transport lock and then press the control switch.
  3. Press the tool firmly against the workpiece and begin the plunge movement by reducing the angle of the tool (contact shoe) to the workpiece. It is important to ensure that the tool is running before the blade is brought into contact with the workpiece. The tool may otherwise stall.
  4. Once the blade has passed through the workpiece, bring the tool into the normal working position (the entire surface of the shoe in contact) and then continue sawing along the line.

## 8. Care and maintenance

Unplug the supply cord from the mains socket.

### 8.1 Care of blades

Clean off dirt and dust deposits and protect your blades from corrosion by wiping them from time to time with an oil-soaked rag.

### 8.2 Care of the tool

- Keep the blade clamp clean.
- The tool was lubricated adequately when it was manufactured. After long periods of heavy use it is recommended that the tool is inspected at a Hilti workshop. This will increase the life expectancy of the tool and avoid unnecessary repair costs.
- Repairs to the electrical section of the tool may be carried out only by a trained electrical specialist.

### 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 tool is made from impactresistant plastic. Sections of the grip are made from a synthetic rubber material. Never operate the 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 tool. Clean the outside of the 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 tool.



### 8.3 Maintenance

Check all external parts of the tool for damage at regular intervals and check that all controls operate faultlessly. Do not operate the tool if parts are damaged or when the controls do not function faultlessly. If necessary, your electric tool should be repaired at a Hilti repair center. Repairs to the electrical section of the tool may be carried out only by trained electrical specialists.

### 8.4 Checks after care and maintenance

After care and maintenance, check that the hand guard and contact shoe are fitted and that they function faultlessly.

## 9. Troubleshooting

Fault	Possible cause	Remedy
The tool doesn't start.	Fault in mains supply.	Plug in another electric appliance and check whether it works.
	Supply cord or plug defective.	The cord should be checked and, if necessary, replaced by an electrical specialist.
	Control switch defective.	The switch should be checked and, if necessary, replaced by an electrical specialist.
The tool does not achieve full power.	Extension cord with inadequate cross section used.	Use an extension cord with adequate cross section. (See "Before use".)
	Low stroke rate selected.	Set the stroke rate regulator to the setting recommended for the material to be cut (see section "Before use").
	Control switch not pressed fully.	Press the control switch as far as it will go.
No orbital action.	Orbital action selector switch not set to  .	Set the orbital action selector switch to  . The orbital action can be felt only when sawing.
Saw blade cannot be removed from the blade clamp.	Locking sleeve not turned as far as it will go.	Turn the locking sleeve as far as it will go and remove the saw blade.
Contact shoe or pipe clamp cannot be removed from the tool.	Obstructed by blade.	Remove the saw blade (see 6.2) and then remove the contact shoe.
	Lockbutton is not fully pressed.	Press the lockbutton fully and remove the blade.

## 10. Disposal



Most of the materials from which Hilti electric tools 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 electric tools for recycling. Please ask your Hilti customer service department or Hilti representative for further information.

en



Only for EU countries

Disposal of electric tools together with household waste is not permissible!

In observance of European Directive on waste electrical and electronic equipment and its implementation in accordance with national law, electric tools 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:	Reciprocating saw
Type:	WSR 900-PE / WSR 1250-PE / WSR 1400-PE
Year of design:	2003 / 2004

We declare, on our sole responsibility, that this product complies with the following directives and standards: until 19th April 2016: 2004/108/EC, from 20th April 2016: 2014/30/EU, 2006/42/EC, 2011/65/EU, EN 60745-1, EN 60745-2-11, EN ISO 12100.

**Hilti Corporation, Feldkircherstrasse 100,  
FL-9494 Schaan**

A handwritten signature in black ink, appearing to read 'Paolo Luccini'.

**Paolo Luccini**  
Head of BA  
Quality and Process Management  
Business Area  
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06/2015

**Tassilo Deinzer**  
Executive Vice President  
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