

SID 14-A SID 22-A SIW 14-A SIW 22-A

English

en





1 Information about the documentation

1.1 About this documentation

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

1.2 Explanation of symbols used

1.2.1 Warnings

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



DANGER! Draws attention to an imminent hazard that will lead to serious personal injury or fatality.



WARNING! Draws attention to a potential hazard that could lead to serious personal injury or fatality.



CAUTION! Draws attention to a potentially dangerous situation that could lead to minor personal injury or material damage.

1.2.2 Symbols in the documentation

The following symbols are used in this document:



Read the operating instructions before use



Instructions for use and other useful information

1.2.3 Symbols in the illustrations

The following symbols are used in illustrations:

- 2
- These numbers refer to the corresponding illustrations found at the beginning of these operating instructions.
 - The numbering reflects the sequence of operations shown in the illustrations and may deviate from the steps described in the text.
- Item reference numbers are used in the **overview illustration** and refer to the numbers used in the key in the **product overview** section.
- This symbol is intended to draw special attention to certain points when handling the product.

1.3 Product-dependent symbols

1.3.1 Symbols on the product

The following symbols are used on the product:

n ₀	Rated speed under no load
/min	Revolutions per minute
	Direct current (DC)

1.4 Product information

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

The type designation and serial number are printed on the type identification plate.

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

Product information

Type:	SID 14-A, SID 22-A
	SIW 14-A, SIW 22-A
Generation:	01
Serial no.:	

2 Safety

2.1 General safety precautions for power tools

⚠ WARNING! Read all safety precautions and other instructions. Failure to observe the safety precautions and other instructions may result in electric shock, fire and/or serious injury.

Keep all safety precautions and instructions for future reference.

Working area safety

- Keep your working area clean and well lit. Cluttered or dark working areas can cause accidents.
- Do not operate the power tool 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 bystanders, children and visitors away while operating the power tool. Distractions may cause
 you to lose control of the tool.

Electrical safety

- Do not expose the power tool to rain or wet conditions. Water entering a power tool will increase the
 risk of electric shock.
- Do not allow your body to come into contact with grounded surfaces such as pipes, radiators, ovens and refrigerators. There is an increased risk of electric shock if your body is grounded.

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 the power tool may result in serious personal injury.
- Adopt the correct posture when working. Maintain proper footing and balance at all times. This
 will allow you to control the power tool better, even in unexpected situations.
- ▶ Wear your personal protective equipment and always wear protective glasses. Depending on the type of power tool you are using and its purpose, wearing safety equipment such as a dust mask, slip-resistant safety shoes, a hard hat or hearing protection will reduce the risk of injury.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair may be caught in moving parts.
- Avoid starting the tool accidentally. Make sure that the power tool is switched off before connecting it to the battery and before picking it up or carrying it. Carrying power tools with your finger on the switch or plugging in power tools that are already switched on may cause accidents.
- Remove accessory tools or wrenches before switching the power tool on. An accessory tool or a wrench left attached to a rotating part of the power tool may cause personal injury.
- If devices are provided for connecting dust extraction and collection equipment, make sure these are connected and used correctly. The use of a dust extraction system can reduce dust-related hazards.

Using and handling the power tool

- ▶ Do not overload the tool. Use the correct power tool for your application. The correct power tool will do the job better and more safely within the performance range for which it is designed.
- Do not use a power tool if it has a faulty on/off switch. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Remove the battery from the power tool before making any adjustments, changing accessories or storing the tool. This precaution reduces the risk of the power tool starting accidentally.
- Store power tools out of reach of children when not in use. Do not allow persons who are not familiar with the tool or these instructions to operate it. Power tools are dangerous in the hands of untrained users.
- Maintain power tools properly. Check that moving parts are in correct working order and do not jam, and check whether any parts are broken or so damaged that correct operation of the power

tool cannot be guaranteed. If any parts are damaged, have these parts repaired before using the tool. Many accidents are caused by poorly maintained power tools.

Keep cutting tools sharp and clean. Properly maintained tools with sharp cutting edges are less likely
to jam and are easier to control.

Using and handling the cordless power tool

- Use only the specified batteries in the power tools. Use of any other batteries may present a risk of injury and fire.
- ► Recharge the batteries only with the chargers specified by the manufacturer. A charger that is suitable for a certain type of battery may present a risk of fire when used with other types of battery.
- When the battery is not in use, keep it away from other metal objects such as paper clips, coins, keys, nails, screws, or other small metal objects that could cause bridging between the terminals. A short circuit between the battery terminals may cause burns or a fire.
- Liquid may leak from the battery if used incorrectly. Avoid contact with this liquid. Liquid leaking from the battery may cause skin irritation or burns. If contact accidentally occurs, rinse with water. Seek medical attention if the liquid comes into contact with the eyes.

2.2 Additional safety precautions for screwdrivers

Personal safety

- ▶ Only use the product if it is in perfect working order.
- Never tamper with or modify the tool in any way.
- Use the auxiliary grip supplied with the tool. Loss of control can cause personal injury.
- Always hold the power tool with both hands on the grips provided. Keep the grips clean and dry.
- Hold the power tool by the insulated gripping surfaces when performing an operation where the accessory tool may come into contact with concealed wiring. If the accessory tool comes into contact with a live wire, metal parts of the power tool may also become live, causing the operator to receive an electric shock.
- Avoid touching rotating parts risk of injury!
- Wear suitable protective glasses, a hard hat, ear protection, protective gloves and light respiratory protection while using the tool.
- ► Wear protective gloves also when changing the accessory tool. Touching the accessory tool presents a risk of injury (cuts or burns).
- ▶ Wear eye protection. Flying fragments present a risk of injury to the body and eyes.
- Before starting work, check the hazard class of the dust that will be produced when working. Use an industrial vacuum cleaner with an officially approved protection class in compliance with the locally applicable dust protection regulations. Dust from materials such as lead-based paint, certain types of wood and concrete/masonry/stone containing quartz, minerals or metal may be harmful to health.
- Make sure that the working area is well ventilated and, where necessary, wear a respirator appropriate for the type of dust generated. Contact with or inhalation of dust may cause allergic reactions and/or respiratory or other diseases to the operator or bystanders. Certain kinds of dust, such as oak and beech dust, are classified as carcinogenic, especially in conjunction with additives for treating wood (chromate, wood preservative). Materials containing asbestos may only be handled by specialists.
- Take breaks between working and do physical exercises to improve the blood circulation in your fingers. Exposure to vibration during long periods of work can lead to disorders of the blood vessels and nervous system in the fingers, hands and wrists.

Electrical safety

 Before starting work, check the working area for concealed electric cables or gas and water pipes. If you damage an electric cable accidentally, external metal parts of the power tool may become live and present a risk of electric shock.

Careful handling and use of power tools

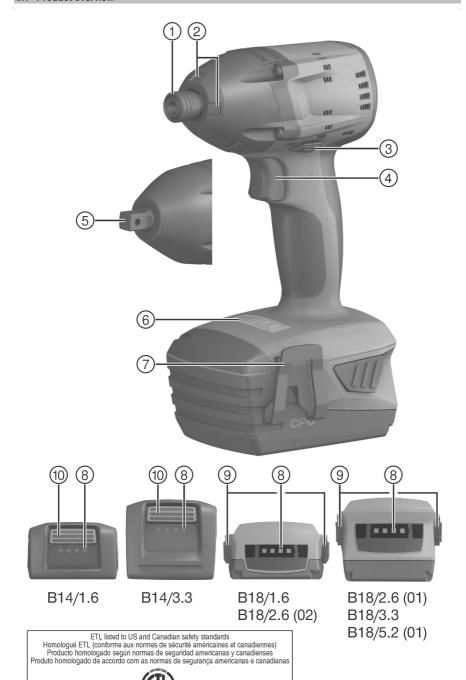
- Switch the power tool off immediately if the accessory tool jams. The power tool may go off course and veer to the side.
- ▶ Wait until the power tool has come to a complete stop before setting it down.

2.3 Careful handling and use of batteries

- ▶ Observe the special guidelines applicable to the transport, storage and use of lithium-ion batteries.
- ▶ Do not expose batteries to high temperatures, direct sunlight or fire.
- ▶ Do not take apart, squash or incinerate batteries and do not subject them to temperatures over 80 °C.
- ▶ Do not attempt to charge or continue to use damaged batteries.

If the battery is too hot to touch, it may be defective. In this case, place the power tool in a non-flammable location, well away from flammable materials, where it can be kept under observation and left to cool

3.1 Product overview



- 1 Hex. socket (SID)
- (2) Illumination
- Forward/reverse selector switch with safety lock
- Control switch (with electronic speed control)
- Square drive (SIW)
- ⑤ Torque selector button
- Belt hook (optional)
- 8 Battery state of charge indicator
- (9) Release buttons (B18/B22 battery)
- 10 Release button (B14 battery)

3.2 Intended use

The product described is a hand-held cordless impact screwdriver. It is designed for driving and removing screws and for tightening and releasing nuts and bolts in wood, metal, masonry and concrete.

- For this product use only Hilti Li-ion batteries of the B14 (SID/SIW 14-A) or, as applicable, the B18 or B22 (SID/SIW 22-A) series.
- ▶ Use only the Hilti battery chargers of the C4/36 series for these batteries.

3.3 Charge status display

The charge status of the Li-ion battery is displayed after pressing one of the release buttons lightly (press only until slight resistance is felt).

Status	Meaning	
4 LEDs light.	Charge status: 75 % to 100 %	
3 LEDs light.	Charge status: 50 % to 75 %	
2 LEDs light.	Charge status: 25 % to 50 %	
1 LED lights.	Charge status: 10 % to 25 %	
1 LED blinks.	Charge status: < 10 %	



Note

Battery charge status cannot be displayed while the control switch is pressed and for up to 5 seconds after releasing the control switch.

3.4 Items supplied

Impact screwdriver/wrench, operating instructions.



Note

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

4 Technical data

4.1 Impact screwdriver/wrench

		SID 14-A	SIW 14-A
Rated voltage		14.4 V	14.4 V
Weight (including battery and chuck)		2.9 lb	2.9 lb
		(1.3 kg)	(1.3 kg)
Rated speed under no	Setting I	0 Hz16.7 Hz	0 Hz16.7 Hz
load		(0 /min1,000 /min)	(0 /min 1,000 /min)
	Setting II	0 Hz25.0 Hz	0 Hz25.0 Hz
		(0 /min1,500 /min)	(0 /min 1,500 /min)
	Setting III	0 Hz41.7 Hz	0 Hz38.3 Hz
		(0 /min2,500 /min)	(0 /min2,300 /min)
Impact speed		≤ 3,100 bpm	≤ 3,400 bpm
Torque adjustment		3 settings	3 settings
Large standard bolts		M8 to M16	M8 to M16

	SID 14-A	SIW 14-A
Large high-strength bolts	M6 to M12	M6 to M12
Socket/bit drive	1/4" hex. socket with locking ring	1/2" square drive with ball-notch retention or 3/8" square drive with locking ring

		SID 22-A	SIW 22-A
Rated voltage		21.6 V	21.6 V
Weight (including battery	Weight (including battery and chuck)		3.3 lb
		(1.5 kg)	(1.5 kg)
Rated speed under no	Setting I	0 Hz16.7 Hz	0 Hz16.7 Hz
load		(0 /min 1,000 /min)	(0 /min 1,000 /min)
	Setting II	0 Hz25.0 Hz	0 Hz25.0 Hz
		(0 /min 1,500 /min)	(0 /min 1,500 /min)
	Setting III	0 Hz41.7 Hz	0 Hz38.3 Hz
		(0 /min2,500 /min)	(0 /min2,300 /min)
Impact speed		≤ 3,450 bpm	≤ 3,500 bpm
Torque adjustment		3 settings	3 settings
Large standard bolts		M8 to M16	M8 to M16
Large high-strength bolts	3	M6 to M12	M6 to M12
Socket/bit drive		1/4" hex. socket with locking ring	1/2" square drive with ball-notch retention or 3/8" square drive with locking ring

4.2 Setting the torque

The torque is selected by way of the torque selector button.

Model SID ...

SID 14-A SID 22-A

		Model		
		SID 14-A SID 22-A		
Torque	Setting I	37 ftlb _f	44 ftlb _f	
		(50 Nm)	(60 Nm)	
	Setting II	74 ftlb _f	81 ftlb _f	
		(100 Nm)	(110 Nm)	
	Setting III	111 ftlb _f	122 ftlb _f	
		(150 Nm)	(165 Nm)	

Model SIW ...

SIW 14-A SIW 22-A

		SIW 14-A		SIW 22-A	
		1/2" square drive with ball- notch reten- tion	3/8" square drive with locking ring	1/2" square drive with ball- notch reten- tion	3/8″ square drive with locking ring
Torque	Setting I	59 ftlb _f	48 ftlb _f	66 ftlb _f	55 ftlb _f
		(80 Nm)	(65 Nm)	(90 Nm)	(75 Nm)
	Setting II	89 ftlb _f	85 ftlb _f	100 ftlb _f	89 ftlb _f
		(120 Nm)	(115 Nm)	(135 Nm)	(120 Nm)
	Setting III	136 ftlb _f	118 ftlb _f	148 ftlb _f	129 ftlb _f
		(185 Nm)	(160 Nm)	(200 Nm)	(175 Nm)

5 Operation

5.1 Inserting the battery



WARNING

Risk of injury! Inadvertent starting of the impact screwdriver.

 Before fitting the battery, check that the cordless impact screwdriver is switched off and that the forward/reverse switch is in the middle position (i.e. safety lock engaged).



WARNING

Electrical hazards! Risk of short circuiting.

 Before inserting the battery, check to ensure that the battery terminals and the contacts in the impact screwdriver are free from foreign objects.



WARNING

Risk of injury! Hazard presented by a falling battery.

► A falling battery may present a risk of injury to yourself and others. Check that the battery is securely seated in the power tool.





Fit the battery and make sure that it is heard to engage.

5.2 Fitting the belt hook (optional)



WARNING

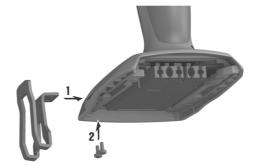
Risk of injury! Hazard presented by a falling power tool.

 A falling power tool may present a risk of injury to yourself and others. Check that the belt hook is fitted securely before beginning work.



Note

The belt hook allows the power tool to be attached to a belt worn by the operator. The belt hook can be fitted to allow attachment on the left or right side of the body.





► Fit the belt hook

5.3 Fitting an accessory tool

SID 14-A SID 22-A





1. Check that the connection end of the accessory tool is clean.

Result

The connection end is dirty.

- Clean the connection end.
- 2. Set the forward/reverse switch to the middle position or remove the battery from the power tool.
- 3. Push the accessory tool into the chuck as far as it will go (until it engages).

5.4 Removing the accessory tool

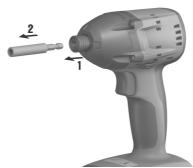
SID 14-A SID 22-A



CAUTION

Risk of injury. The accessory tool may be hot or have sharp edges.

Wear protective gloves when using the power tool and when changing accessory tools.

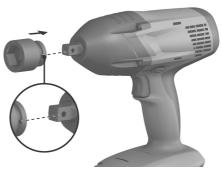




- 1. Set the forward/reverse switch to the middle position or remove the battery from the power tool.
- 2. Pull the chuck ring forward and hold it in this position.
- 3. Pull the accessory tool out of the chuck.
- 4. Release the chuck ring.

5.5 Fitting an accessory tool

SIW 14-A SIW 22-A





1. Check that the connection end of the accessory tool is clean.

Result

The connection end is dirty.

- ► Clean the connection end.
- 2. Set the forward/reverse switch to the middle position or remove the battery from the power tool.
- 3. Bring the notch in the accessory tool into alignment with the ball on the square drive.
- 4. Push the accessory tool onto the square drive until it engages.

5.6 Removing the accessory tool

SIW 14-A

SIW 22-A



CAUTION

Risk of injury. The accessory tool may be hot or have sharp edges.

▶ Wear protective gloves when using the power tool and when changing accessory tools.





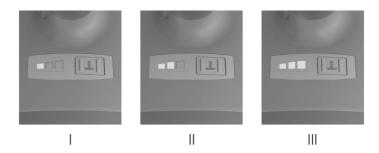
- 1. Set the forward/reverse switch to the middle position or remove the battery from the power tool.
- 2. Pull the accessory tool off the square drive.

5.7 Setting the torque



Technical data

- Model SID ... (SID 14-A OR SID 22-A) ?? → page 9
- Model SIW ... (SIW 14-A OR SIW 22-A) ?? → page 9



Press the torque selector button as many times as necessary until the desired torque setting is indicated
to the left of the button.

SID 14-A SID 22-A

Model SID ... ?? → page 9

SIW 14-A SIW 22-A

Model SIW ... ?? → page 9

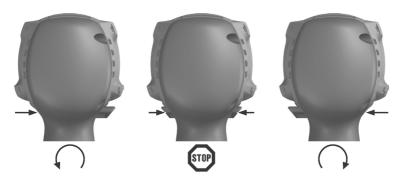
5.8 Setting forward or reverse rotation



Note

An interlock prevents switching while the motor is running.

The control switch is locked when the forward/reverse switch is in the middle position (safety lock).



Set the forward/reverse switch to the desired direction of rotation.

5.9 Screwdriving



WARNING

Risk of injury and damage. Screws/bolts or the workpiece may be damaged by excessively high torque; this may also lead to serious injury.

- ▶ Ensure that the fastener and attachment will withstand the level of torque generated by the tool.
- 1. Set the forward/reverse switch to the middle position or remove the battery from the power tool.
- 2. Use the torque selector button to set the desired torque. → page 13

5.10 Switching on

- Press the control switch.
 - Speed of rotation is regulated by the distance the control switch is pressed in.

5.11 Switching off

Release the control switch.

5.12 Removing the battery



Remove the battery.

6 Care, maintenance, transport and storage

6.1 Care and maintenance of cordless tools



WARNING

Danger of electric shock! Carrying out care and maintenance while the battery is fitted presents a risk of serious physical injury and burning injury.

▶ Always remove the battery before carrying out all care and maintenance tasks.

Care and maintenance of the tool

- Carefully remove any dirt that may be adhering to parts.
- · Clean the air vents carefully with a dry brush.
- Use only a slightly damp cloth to clean the casing. Do not use cleaning agents containing silicone as these may attack the plastic parts.

Care of the lithium-ion batteries

- · Keep the battery free from oil and grease.
- Use only a slightly damp cloth to clean the casing. Do not use cleaning agents containing silicone as
 these may attack the plastic parts.
- Avoid ingress of moisture.

Maintenance

- Check all visible parts and controls for signs of damage at regular intervals and make sure that they all function correctly.
- Do not operate the cordless tool if signs of damage are found or if parts malfunction. Have the tool
 repaired by Hilti Service immediately.
- · After cleaning and maintenance, fit all guards or protective devices and check that they function correctly.



Note

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

6.2 Transport and storage of cordless tools

Transport



CAUTION

Inadvertent starting during transport. Uncontrolled starting during transport may occur if the battery is fitted, thereby resulting in damage to the tool.

- ▶ Always remove the battery before transporting the tool.
- Remove the battery.
- Transport the tool and batteries individually packaged.
- Never transport batteries in bulk form (loose, unprotected).
- Check the tool and batteries for damage before use after long periods of transport.

Storage



△ CAUTION

Inadvertent damage caused by defective battery. A leaking battery may damage the tool.

- Always remove the battery before storing the tool.
- Store the tool and batteries in a place that is as cool and dry as possible.
- ▶ Never store batteries in direct sunlight, on heating units or behind a window pane.
- Store the tool and batteries in a place where they cannot be accessed by children or unauthorized persons.
- ▶ Check the tool and batteries for damage before use after long periods of storage.

7 Troubleshooting

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

Trouble or fault	Possible cause	Action to be taken
The power tool doesn't run.	The battery is not fully inserted.	Push the battery in until it engages with an audible double click.
	Low battery.	Change the battery and charge the empty battery.
The control switch can't be pressed, i.e. the switch is locked.	The forward/reverse selector switch is in the middle position.	Push the forward/reverse switch to the left or right.
Running speed suddenly drops considerably.	Low battery.	 Change the battery and charge the empty battery.
The battery runs down more quickly than usual.	Very low ambient temperature.	 Allow the battery to warm up slowly to room temperature.
The battery doesn't engage with an audible double click.	The retaining lugs on the battery are dirty.	Clean the retaining lugs and push the battery in until it engages. Contact Hilti Service if the problem persists.
The power tool or the battery becomes very warm.	Electrical fault.	Switch the power tool off immediately, remove the battery, keep it under observation, allow it to cool down and contact Hilti Service.
	The tool is overloaded (application limits exceeded).	 Select a suitable power tool for the application.

8 Disposal



WARNING

Risk of injury. Hazards presented by improper disposal.

- Improper disposal of the equipment may have the following 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.
- Dispose of defective batteries right away. Keep them out of reach of children. Do not disassemble
 or incinerate the batteries.
- Batteries that have reached the end of their life must be disposed of in accordance with national regulations or returned to Hilti.

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

9 Manufacturer's warranty

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





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