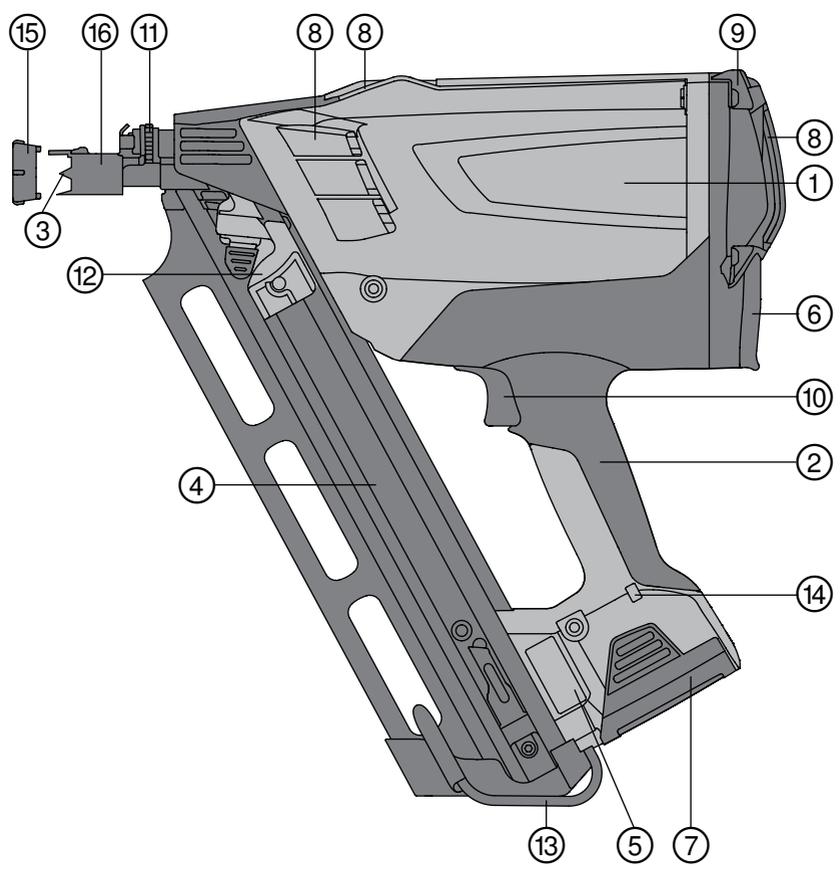


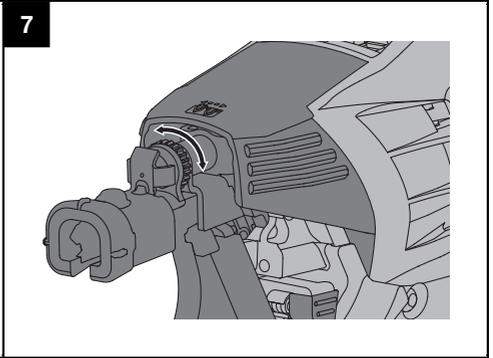
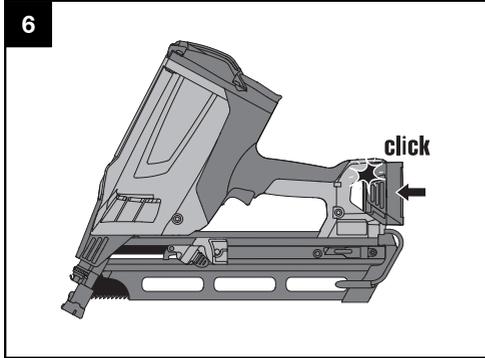
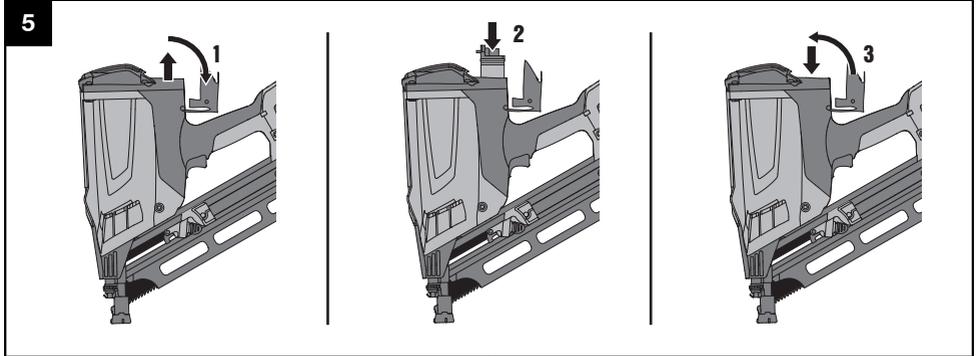
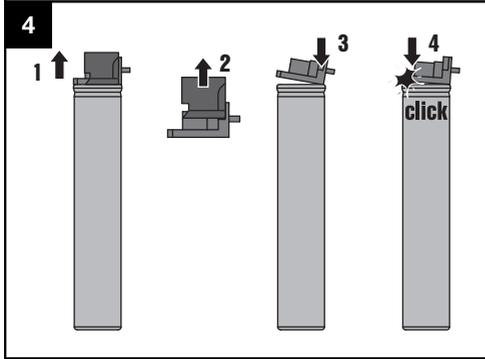
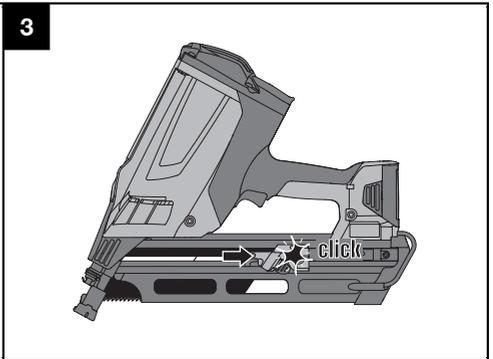
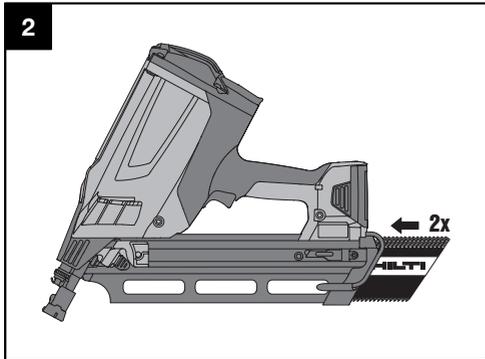
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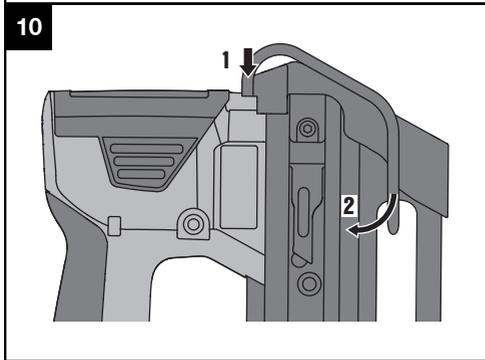
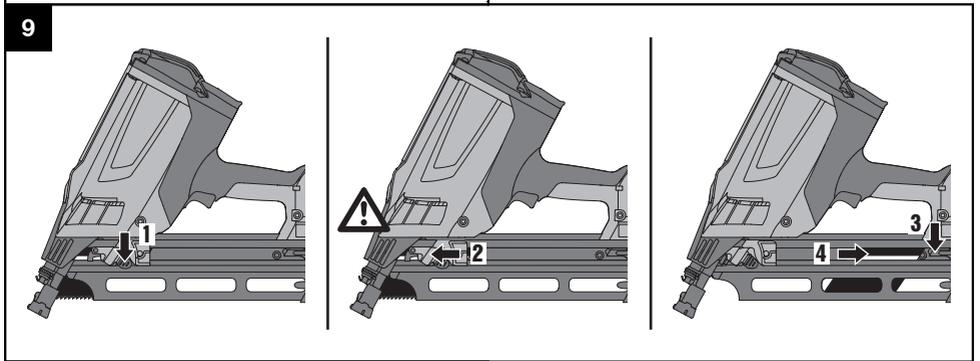
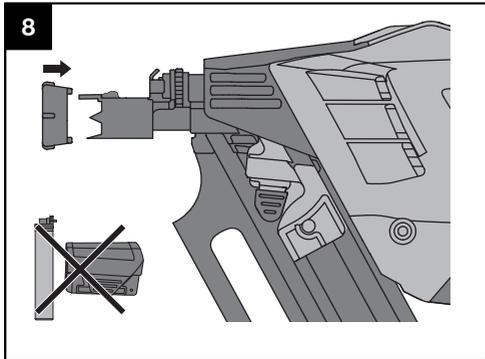
## GX 90-WF

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<b>Operating instructions</b>	<b>en</b>
<b>Mode d'emploi</b>	<b>fr</b>
<b>Istruzioni d'uso</b>	<b>it</b>
<b>Manual de instrucciones</b>	<b>es</b>
<b>Manual de instruções</b>	<b>pt</b>
<b>Gebruiksaanwijzing</b>	<b>nl</b>
<b>Brugsanvisning</b>	<b>da</b>
<b>Bruksanvisning</b>	<b>sv</b>
<b>Bruksanvisning</b>	<b>no</b>
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<b>Οδηγίες χρήσεως</b>	<b>el</b>
<b>Kullanma Talimatı</b>	<b>tr</b>
<b>Lietošanas pamācība</b>	<b>lv</b>
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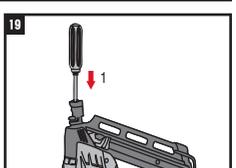
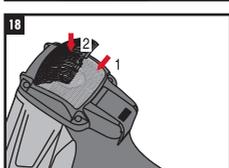
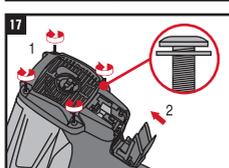
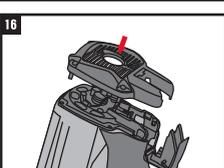
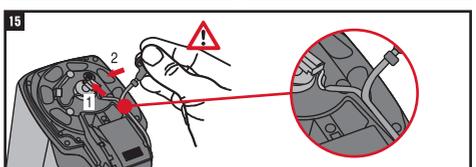
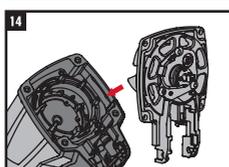
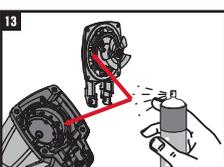
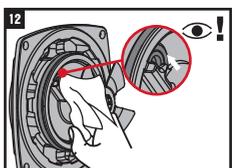
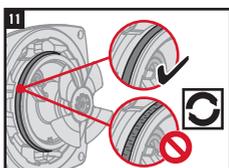
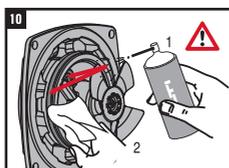
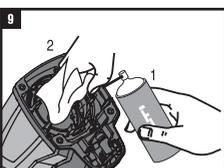
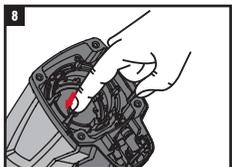
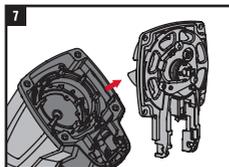
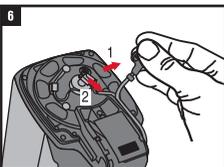
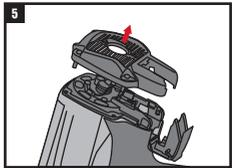
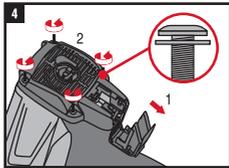
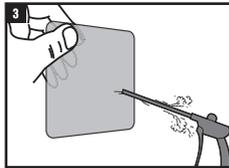
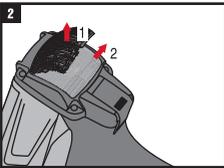
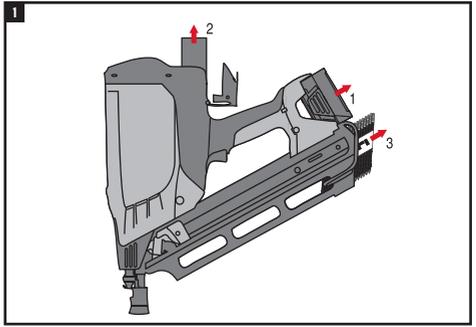
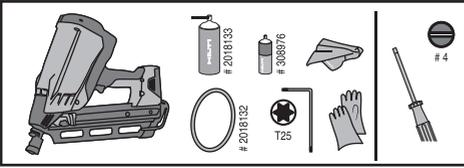




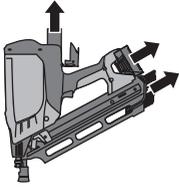




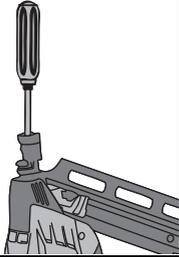
Cleaning instruction / Reinigungsanleitung / Instruction de nettoyage



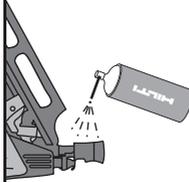
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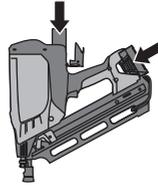
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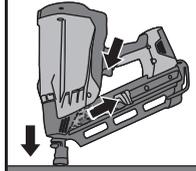
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# ORIGINAL OPERATING INSTRUCTIONS

## GX 90-WF gas-driven fastening tool

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**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.**

Contents	Page
1 General information	12
2 Safety instructions	13
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**1** These numbers refer to the illustrations. You can find the illustrations at the beginning of the operating instructions.

In these operating instructions, "the tool" always refers to the GX 90-WF gas-driven fastening tool.

### Tool parts, operating controls and indicators **1**

- 1 Tool body
- 2 Grip
- 3 Nosepiece
- 4 Magazine
- 5 Type identification plate
- 6 Gas can compartment
- 7 Battery
- 8 Ventilation slots
- 9 Casing cover
- 10 Trigger
- 11 Adjusting wheel
- 12 Nail pusher
- 13 Belt hook
- 14 LED
- 15 Adapter for surface protection
- 16 Sliding sleeve

## 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

#### Obligation signs



Read the operating instructions before use.

### Location of identification data on the tool

The type designation and serial number can be found on the type identification 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: \_\_\_\_\_

Generation: 01 \_\_\_\_\_

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

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## 2 Safety instructions

### 2.1 Basic information concerning safety

In addition to the information relevant to safety given in each of the sections of these operating instructions, the following points must be strictly observed at all times.

#### 2.1.1 Requirements to be met by users

- a) The tool is intended for professional use.
- b) The appliance may be operated, serviced and repaired only by authorized, trained personnel. This personnel must be informed of any special hazards that may be encountered.

#### 2.1.2 Personal safety

- a) Stay alert, watch what you are doing and use common sense when operating a direct fastening tool. Don't use the tool when you are tired or under the influence of drugs, alcohol or medication. Stop using the tool if you experience pain or do not feel well. A moment of inattention while operating the tool may result in serious personal injury.
- b) Avoid unfavorable body positions. Make sure you work from a safe stance and stay in balance at all times.
- c) Wear non-skid shoes.
- d) Never point the tool toward yourself or other persons.
- e) Never press the nosepiece of the tool against your hand or against any other part of your body (or other person's hand or part of their body).
- f) Do not place your free hand directly behind the material being fastened.
- g) Keep other persons, especially children, away from the area in which the work is being carried out.
- h) Keep the arms slightly bent while operating the tool (do not straighten the arms).
- i) Both the user and any other persons in the vicinity must wear suitable personal protective equipment including adequate eye protection, ear protectors and a hard hat.

#### 2.1.3 Fastening tool use and care

- a) Use the right tool for the job. Do not use the tool for purposes for which it was not intended. Use it only as directed and when in faultless condition.
- b) Never leave a loaded tool unattended.
- c) Remove the gas can from the tool before transporting the tool.

- d) Always unload the tool (remove the battery, gas can and nails) before cleaning, servicing, and repair work, before a break in your work, and for storing the tool.
- e) Store unused gas cans and tools that are not currently being used in a dry place where they are not exposed to moisture and high temperatures.
- f) Check the tool or machine and its accessories for damage and ensure that they function faultlessly and as intended. Check that moving parts function correctly without sticking and that no parts are damaged. All parts must be fitted correctly and fulfill all conditions necessary for correct operation of the tool. Damaged guards and parts that are not integral elements of the service pack that is available as an accessory (see "Care of the tool") must be professionally repaired or replaced by the Hilti Service Team unless otherwise specified in the operating instructions.
- g) Always hold the tool firmly when making a fastening. This will reduce the possibility of the fastener being deflected by the material into which it is driven.
- h) Never attempt to re-drive a fastener. Never drive a fastener on top of another previously-driven fastener. This may lead to fastener breakage and jamming.
- i) Always observe the application guidelines. For more information, consult the Hilti Fastening Technology Manual.
- j) Do not pull the nosepiece back with your hand or with another object. This can prime the tool in certain circumstances. When the tool is ready to fire, fasteners could be driven inadvertently into parts of the body.

#### 2.1.4 Work area safety

- a) Ensure that the workplace is well lit.
- b) Operate the tool only in well-ventilated working areas.
- c) Drive fasteners only into wood and other suitable wood materials (see "Use of the product as directed"): Driving a fastener into other materials may cause the fastener to break, shatter or to be driven right through.
- d) Before driving fasteners, check that no one is present immediately behind or below the working surface.
- e) Keep the workplace tidy. Objects which could cause injury should be removed from the work-

ing area. Untidiness at the workplace can lead to accidents.

- f) **Keep the grips dry, clean and free from oil and grease.**
- g) **Take the influences of the surrounding area into account. Do not expose the tool to rain or snow and do not use it in damp or wet conditions. Do not use the tool where there is a risk of fire or explosion.**
- h) **Concealed electric cables or gas and water pipes present a serious hazard if damaged while you are working. Accordingly, check the area in which you are working beforehand (e.g. using a metal detector).** External metal parts of the tool or machine may become live, for example, when an electric cable is damaged accidentally.
- i) **Only hold the tool by its insulated gripping surfaces if carrying out work where the insert tool may come into contact with concealed wiring.** Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and shock the operator.

#### 2.1.5 Thermal hazards

- a) **If the tool overheats, remove the gas can and allow the tool to cool down. Do not exceed the recommended fastener driving rate.**
- b) **Always wear gloves if the tool has to be dismantled for cleaning or maintenance before it has been allowed to cool down.**

#### 2.1.6 Careful handling and use of gas cans

Read the safety data sheet for the gas can for information about use, care and maintenance and first-aid measures.

#### 2.1.7 Careful handling and use of batteries

- a) **Use only batteries of the type approved by the manufacturer for use with the applicable tool.** Use of other batteries or use of the batteries for purposes for which they are not intended presents a risk of fire and explosion.
- b) **Recharge only with the charger 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.
- c) **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.
- d) **Observe the special guidelines applicable to the transport, storage and use of Li-ion batteries.**
- e) **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.
- f) **Keep the battery and the charger away from paper clips, coins, keys, nails, screws or other small metal objects that could cause a short circuit at the battery terminals or the charging contacts.** A short circuit at the battery terminals or charging contacts could result in personal injury (burns) or fire.
- g) **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).**
- h) **If the battery is too hot to touch it may be defective. 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 cooled down.**

## 3 Description

### 3.1 Use of the product as directed

The tool is for fastening wood to wood using specially manufactured fasteners. The tool is suitable for use with solid wood, laminated timber, plywood, chipboard materials (e.g. coarse oriented-strand board), fiberboard materials (e.g. medium density fiberboard), and veneer materials (e.g. Multiplex).

The tool is intended for use by professionals in the timber construction industry. For usage recommendations, please consult the Hilti Fastening Technology Manual.

The tool, gas can and fasteners form a single technical unit. This means that the tool can ensure optimum fastening performance only when used in conjunction with the Hilti nails and gas cans that are specially manufactured for it. The fastening and application recommendations

given by Hilti apply only when these conditions are observed.

The tool is for hand-held use only.

Modification of the tool is not permissible.

### 3.2 Items included in the delivery

- 1 Tool in plastic case
- 2 Batteries
- 1 Charger
- 1 Cleaning cloth
- 1 Operating instructions

### 3.3 System components for operating the tool

The following items are required to use the tool: Tool, charged B7/1.5 Li-Ion battery, GC 31 or GC 32 gas can and GX-WF nails for wood joints.

## 4 Technical data

Right of technical changes reserved.

### Tool

Weight (including battery)	3.7 kg (8.16 lbs)
Dimensions (L x W x H)	384 mm x 134 mm x 381 mm

### Gas can

Gas can type <sup>1</sup>	GC 31, GC 32
Operating temperature / ambient temperature with GC 31 gas can	-5...+45°C (23 °F to 113 °F)
Operating temperature / ambient temperature with GC 32 gas can	-10...+45°C (14°F to 113°F)

<sup>1</sup> Contains: 1-butene, propene

Battery	B 7/1.5 Li-Ion
Rated voltage	7.2 V
Capacity	1.5 Ah
Energy capacity	10.8 Wh
Weight	0.19 kg

### Maximum fastener driving rate

Work with interruptions:	up to 3 fastenings per second
Continuous operation:	1,200 fastenings per hour

### Suitable fasteners

Nail length	50...90 mm
Nail diameter	2.8...3.1 mm
Magazine capacity	75 (max.)
Magazine angle	34°

### Noise measurement conditions

**Operation and set-up conditions:** Set-up and operation of the fastening tool in accordance with E DIN EN 15895-1 in the semi-anechoic test room of Müller-BBM GmbH. The ambient conditions in the test room conform to DIN EN ISO 3745. **Test method:** Enveloping surface method in anechoic room on reflective surface area in accordance with E DIN EN 15895, DIN EN ISO 3745 and DIN EN ISO 11201.

Caliber	Gas can 40 g
Power regulation	None
Application	Fastening to squared timber 500 x 100 x 100 mm using nail with smooth shank 75 x 2.8 mm

### Declared measured values of noise characteristics according to 2006/42/EC Machinery Directive in conjunction with DIN EN 15895

Sound power level, $L_{WA, 1s}^1$	108 dB (A)
Emission sound pressure level at the workplace, $L_{pA, 1s}^2$	106 dB (A)
Peak sound pressure emission level, $L_{pC, peak}^3$	138 dB (C)

<sup>1</sup> ± 2 dB (A)

<sup>2</sup> ± 2 dB (A)

<sup>3</sup> ± 2 dB (C)

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**NOTE**

The sound pressure and vibration values given in these instructions have been measured in accordance with a standardized test and may be used to compare one fastening tool with another. They may be used for a preliminary assessment of exposure. The data given represents the main applications of the fastening tool. However, if the fastening tool is used for different applications, with different accessories or is poorly maintained, the data may vary. This may significantly increase the level of exposure over the total working period. An estimation of the level of exposure should also take into account the periods of time when the tool is not actually in use. This may significantly reduce the level of exposure over the total working period. Prescribe additional safety measures to protect the operator from the effects of noise and/or vibration, such as: maintaining the fastening tool and its additional equipment or accessories, keeping the hands warm, reorganization of work patterns.

**Recoil**Energy-equivalent acceleration,  $a_{nw, RMS(3)}$ Results for nail size 90 x 3.1 mm on solid wood (spruce)  
<2.5 m/s<sup>2</sup>**5 Before use****5.1 Inserting nails 2 3****WARNING**

In this tool use only fasteners of a suitable type with the correct collation angle. Use of unsuitable fasteners may cause tool malfunctions or present a risk of injury.

1. Insert the fasteners into the magazine from below, pointing in the right direction.

**NOTE** There is a retention spring in the bottom of the magazine. If the maximum number of nails in the magazine is exceeded, the last strip of nails to be inserted cannot be held back by this spring. Remove the strip of nails that was last inserted.

2. Push the nails as far as they will go in the direction of the nosepiece.
3. **CAUTION Move the nail pusher with care.** There is a risk of your fingers being trapped. Pull the nail pusher back over the nails, keeping a firm hold of it, until it snaps into place at the bottom end of the nail strip.

**NOTE** The nail pusher must engage in this position.

**NOTE** The nail strip could suffer damage if the nail pusher is allowed to strike it with force. Do not allow the nail pusher to strike the nail strip with force.

**5.2 Preparing the gas can****WARNING**

Escaping gas can damage the lungs, skin, and eyes. **Keep the metering valve away from your face and eyes.**

**WARNING**

**Never attempt to remove the metering valve of an already prepared gas can or a gas can that is currently in use.** Relatively large quantities of pressurized liquefied gas can escape, endangering you and other persons.

**NOTE**

The gas can is fitted with a transport lock. Remove the lock before inserting the gas can into the tool.

**5.2.1 Removing the transport lock 4**

1. Lift the safety cap and metering valve off the gas can.
2. Disconnect the safety cap from the metering valve.
3. Insert the metering valve with the front hooking groove into the gas can notch.  
**NOTE** The metering valve has a front and a rear hooking groove.
4. Press the rear hooking groove firmly over the lip of the gas can until the metering valve snaps into place on the can.

**5.2.2 Inserting the gas can 5**

1. Open the cover of the gas can compartment by pressing it upwards and to the rear.
2. Push the gas can and metering valve into the red adapter.
3. Close the cover by pressing it downwards with your thumb and allow the clasp to snap into place.

**5.3 Inserting the battery 6****WARNING**

**Read the operating instructions for the C 7 charger regarding charging the battery and for further instructions on use and care of the battery.**

**WARNING**

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

**WARNING**

**Take care when inserting the battery.** There is a risk of pinching the skin.

**NOTE**

Charge the battery fully before using the tool for the first time.

- Before inserting the battery, make sure that the battery contacts and the contacts in the tool are free of foreign bodies.
- From below, push the battery into the opening at the end of the grip until it snaps into place. The LED briefly lights up in green to signal that the tool is ready for use.

#### 5.4 Battery charge state

##### NOTE

Battery performance drops at low temperatures.

Green LED	Lights	The battery is ready for use.
	Flashing	Falling battery voltage. Change the battery soon.
Red LED	Lights	The battery voltage is no longer sufficient to operate the device. Change the battery. <b>NOTE</b> You must switch to the second battery, at the latest, when the LED lights up in red on the tool. Recharge the battery immediately so that it is ready for reuse.
	Flashing	The battery is too cold (< -15°C/< 5°F) or too hot (> 60°C/> 140°F) and the fan doesn't start. Remove the battery and allow it to warm up or cool down to the required temperature.
No signal	No LED lit up or flashing	The battery voltage is below the threshold value. Charge the battery.

#### 5.5 Deep discharge protection and battery reset function

##### NOTE

The tool has a deep sleep mode to protect the Li-ion battery from deep discharge.

The tool switches itself off completely, automatically, if unused for 120 minutes.

Make the tool ready for operation again by removing the battery for a moment and then refitting it (battery reset).

## 6 Guidelines

#### 6.1 Fastening guidelines

##### NOTE

Always observe the usage guidelines and instructions on the nail packaging. Observe any applicable national technical regulations.

##### NOTE

For detailed information, request the Hilti Fastening Technology Manual from your regional Hilti office.

## 7 Operation

##### NOTE

When holding the tool steady with the second hand, the hand must be positioned in such a way that no ventilation slots or openings are covered.

##### WARNING

Parts of the tool outside the grip area may get hot when fasteners are driven at a rapid rate over a long period of time. **Wear protective gloves.**

#### 7.1 Settings at the nosepiece 7

The depth of penetration of the nails can be controlled via the position of the nosepiece.

Use the adjusting wheel to change the depth of penetration.

#### 7.2 Protecting sensitive surfaces 8

##### WARNING

**Remove the battery and gas can before fitting or removing the surface protector.**

If working on visible sensitive surfaces such as facades, use the surface protection adapter.

The surface protection adapter reduces the possibility of the nosepiece leaving marks on the surface of the wood.

### 7.3 Unintentional firing safety device

#### WARNING

Do not use the tool if the sliding sleeve has been removed.

The tool is equipped with a safety device to prevent it from being triggered accidentally. The sliding sleeve prevents the nosepiece from being pushed back deliberately or unknowingly. This prevents accidental releases.

### 7.4 Driving nails

#### NOTE

You can drive nails only if there are more than 5 nails in the magazine.

#### NOTE

Hold the tool securely. Avoid resilient materials.

#### NOTE

Pull the trigger only after the tool has been fully pressed against the working surface.

#### NOTE

Do not release the trigger until the nail is driven fully.

1. Position the nosepiece on the working surface and press the tool against the surface until the nosepiece is fully compressed.
2. Drive the fastener by pulling the trigger.
3. Once the nail has been driven, release the trigger and lift the tool completely away from the working surface.

## 8 Unloading the tool

### 8.1 Removing the battery

#### NOTE

Store the battery in a cool and dry place. Never store the battery where it is exposed to direct sunlight or sources of heat, e.g. on heaters / radiators or behind glass. Batteries that have reached the end of their life must be disposed of safely and correctly to avoid environmental pollution.

Press both battery release buttons.

Pull the battery downwards out of the power tool.

### 8.2 Removing the gas can

1. Open the cover of the gas can compartment.
2. Remove the gas can.
3. Close the cover of the gas can compartment.

### 8.3 Unloading nail strips 9

1. Release the catch on the nail pusher by pressing the black button.

2. **CAUTION Move the nail pusher with care.** There is a risk of your fingers being trapped.  
Allow the pusher to slowly slide back towards the nosepiece until it stops.
3. Allow the nails in the magazine to slide downwards.
4. Press the internal pawl on the bottom end of the magazine.  
You can now completely remove the nails from the magazine.

### 8.4 Tool hook 10

#### WARNING

A falling tool can endanger you and/or other persons. **Make sure that the tool is firmly secured when hung up.**

You can use the tool hook to attach the tool to your belt, a ladder, or a roof batten.

Press the belt hook towards the tool in the direction of the longitudinal axis of the magazine.

This releases the belt hook from its locked position and it can then be pivoted in or out.

## 9 Care and maintenance

#### WARNING

**The tool must be unloaded (gas can and fasteners removed from the tool) before carrying out cleaning or maintenance.** Completely remove the battery, gas can and nail strip from the tool.

### 9.1 Care of the tool

1. Clean the outside of the tool at regular intervals with a slightly damp cloth.
2. Never operate the tool when the ventilation slots are blocked. Clean the ventilation slots carefully using a dry brush.

3. Do not allow moisture or foreign bodies to enter inside the tool or battery.
4. Remove the tool from its toolbox and allow it to dry out if moisture has entered the tool. To do this, remove the battery and keep the gas can compartment cover at the rear in the open position.
5. Always keep the grip surfaces of the tool free from oil and grease.
6. Do not use a spray, steam pressure cleaning equipment or running water for cleaning.
7. Do not use cleaning agents which contain silicone.

8. Make sure that there is no oil or grease on the battery contacts.

## 9.2 Tool repair

### WARNING

If your tool is damaged, only have it repaired by the Hilti Service Team.

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.

## 9.3 Cleaning the tool 11

### NOTE

The tool must be cleaned and serviced regularly. We recommend that the tool is cleaned, at the latest, after making 40,000 fastenings. The tool should also be cleaned if malfunctions occur frequently, e.g. misfiring or firing without a nail being driven.

You can arrange for Hilti to carry out the required servicing work for you. To do so, contact your local Hilti Center or sales and service office.

Alternatively, you can do the cleaning service yourself. The required materials, tools, and documentation are available from Hilti as accessories. Use only Hilti products or products of equivalent quality to clean the tool.

### 9.3.1 Cleaning the piston 12

Dirt and remains of the nail collation strip may hinder piston movement. Malfunctions occur increasingly, i.e. the tool is triggered but no fastener is driven. In this case, the piston should be cleaned as follows:

1. Remove the battery, gas can and fasteners from the tool (see section "Unloading the tool").
2. Use a screwdriver to push the piston back as far as it will go.
3. Spray cleaning fluid generously into the tool nosepiece.
4. First replace the battery and then the gas can.
5. Pull the nail pusher back by hand and then trigger the tool five times, without driving fasteners, with the tool nosepiece pressed against a suitable surface (see "Use of the product as directed").
6. Reload the fasteners and continue working with the tool in the usual way.

**NOTE** If necessary, repeat steps 1-6.

## 10 Troubleshooting

Fault	Possible cause	Remedy
The tool is fired frequently without a fastener loaded.	Working speed is too high.	Observe the maximum nail-driving frequency (see Technical Data section).
	The tool is not pressed fully against the working surface and/or the trigger is not pulled fully.	Press the tool fully against the working surface and don't release it until the nail has been fully driven. See section: 7.4 Driving nails
	The tool requires a cleaning service.	Carry out a cleaning service. See section: 9.3 Cleaning the tool 11
	Jammed piston (paper, nail or wood debris in the tool)	Carry out a piston cleaning service. See section: 9.3.1 Cleaning the piston 12
Irregular nail stand-off.	The tool requires a cleaning service.	Carry out a cleaning service. See section: 9.3 Cleaning the tool 11
	Hard and/or knotty wood.	Change the nails or, if possible, use a different supporting material.
	Empty gas can	Insert a new gas can. See section: 5.2 Preparing the gas can See section: 5.2.2 Inserting the gas can 5
	Inadequate support / material is resilient.	Increase the pressure applied to the tool and/or the working surface: adapt the optimum working position; avoid resilient materials. See section: 7.4 Driving nails
	Working speed is too high.	Observe the maximum nail-driving frequency (see Technical Data section).

Fault	Possible cause	Remedy
The piston is incorrectly positioned.	Jammed piston (paper, nail or wood debris in the tool)	Carry out a piston cleaning service. See section: 9.3.1 Cleaning the piston <b>12</b>
The tool doesn't fire: The tool indicates that it's ready for use but doesn't fire when the trigger is pulled.	The tool is not pressed fully against the working surface.	Press the tool fully against the working surface and then pull the trigger. See section: 7.4 Driving nails
Nail jam.	A nail is jammed in the tool nosepiece.	Remove the battery and the gas can. Removed the jammed nail. Use a screwdriver to push the piston back all the way.
Gas can capacity sufficient for < 1000 nails	Gas loss due to frequent pressing of the tool against the surface without firing.	Press the tool against the surface only when you intend to drive a fastener.
The gas can compartment will not close (when the gas can has been inserted).	Transport lock on gas can not removed.	Remove the safety cap on the gas can. See section: 5.2.1 Removing the transport lock <b>4</b>
Nail driven in too far	Nosepiece too far back	Move the nosepiece forward using the adjusting wheel. See section: 7.1 Settings at the nosepiece <b>7</b>
Protruding nail	Nosepiece too far forward	Move the nosepiece backwards by moving the adjusting wheel. See section: 7.1 Settings at the nosepiece <b>7</b>
	Very flat application angle	Press the tool against the base material at an angle that is as near as possible to a right angle.
The tool slips out of position on the surface.	The adapter on the surface protector is fitted to the tool nosepiece.	Remove the adapter and expose the teeth on the tool nosepiece. See section: 7.2 Protecting sensitive surfaces <b>8</b>
The fan doesn't start, the LED blinks red.	The battery is too cold (<-15°C) or too hot (>60°C).	Remove the battery and allow it to warm up / cool down. Fit another battery.
The fan doesn't start, no LED lights.	The tool is in deep sleep mode.	Carry out a battery reset. See section: 5.5 Deep discharge protection and battery reset function
	If the problem remains: No battery power.	Fit another battery. Charge the battery.
	Water or moisture in the tool.	Allow the tool to dry out. See section: 9.1 Care of the tool
The fan does not start, the LED lights up in red	The battery voltage is not sufficient to operate the tool.	Fit another battery. Charge the battery.
The fan doesn't start, the LED lights green.	The plug connector to the fan is disconnected.	Remove the battery and the gas can. Plug in the fan connector.
	The fan connector is fitted correctly but the fan still doesn't start.	Have the power tool repaired by Hilti Service.
The fan is running, the tool does not fire	Empty gas can	Insert a new gas can. See section: 5.2 Preparing the gas can See section: 5.2.2 Inserting the gas can <b>5</b>

Fault	Possible cause	Remedy
The fan is running, the tool does not fire	The tool requires a cleaning service.	Carry out a cleaning service. See section: 9.3 Cleaning the tool <b>11</b>
The tool can not be pressed against the work surface	Less than 5 nails in the magazine	Add more nail strips. See section: 5.1 Inserting nails <b>2 3</b>
	Nails jammed.	Remove the battery and the gas can. <b>WARNING</b> N.B.: Do not carry out any maintenance work without fully unloading the tool. Remove the jammed nails.
Frequent transport malfunctions with nails in plastic strips.	Damaged magazine strip.	Hold the nail pusher securely when it is operated.

## 11 Disposal



Most of the materials from which Hilti 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 old tools and appliances for recycling. Ask Hilti customer service or your Hilti representative for further information. If you wish to bring the tool to a materials separation facility yourself: Regional and international directives and regulations must be observed.

## 12 Manufacturer's warranty - tools

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

### NOTE

Observe the gas can expiry date printed on the edge of the can.

## 13 EC declaration of conformity (original)

Designation:	Gas-driven fastening tool
Type:	GX 90-WF
Generation:	01
Year of design:	2011

We declare, on our sole responsibility, that this product complies with the following directives and standards: 2006/42/EC, until 19th April 2016: 2004/108/EC, as of 20th April 2016: 2014/30/EU, 2011/65/EU, 2006/66/EC, EN ISO 12100, EN 792-13.

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