

GAZELLE®

GH2970

Demolition Hammer
User Manual





ORIGINAL INSTRUCTIONS

Before using this Gazelle Demolition Hammer, please carefully read though these **INSTRUCTIONS**.


Ensure that you know how the machine works, and how it should be operated. Maintain the machine in accordance with the instructions, and make certain that the machine work correctly, please store this instriation and other enclosed documents with the machine together.



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General Power Tool Safety Warnings

 **WARNING** Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool.

1. Work area safety

- a. **Keep work area clean and well lit.***Cluttered or dark areas invite accidents.*
- b. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.***Power tools create sparks which may ignite the dust or fumes.*
- c. **Keep children and bystanders away while operating a power tool.***Distractions can cause you to lose control.*

2. Electrical safety

- a. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.***Unmodified plugs and matching outlets will reduce risk of electric shock.*
- b. **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.***There is an increased risk of electric shock if your body is earthed or grounded.*
- c. **Do not expose power tools to rain or wet conditions.***Water entering a power tool will increase the risk of electric shock.*
- d. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.***Damaged or entangled cords increase the risk of electric shock.*
- e. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.***Use of a cord suitable for outdoor use reduces the risk of electric shock.*

- f. **If operating a power tool in a damp location is unavoidable, use a residual current device(RCD) protected supply.***Use of an RCD reduces the risk of electric shock.*

3. Personal safety

- a. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.***A moment of inattention while operating power tools may result in serious personal injury.*
- b. **Use personal protective equipment. Always wear eye protection.***Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.*
- c. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.***Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.*
- d. **Remove any adjusting key or wrench before turning the power tool on.***A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*
- e. **Do not overreach. Keep proper footing and balance at all times.***This enables better control of the power tool in unexpected situations.*
- f. **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.***Loose clothes, jewelry or long hair can be caught in moving parts.*
- g. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.***Use of dust collection can reduce dust-related hazards.*

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 powersource 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. 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.*

Special requirements for Demolition hammer

- **Wear ear protectors.***Exposure to noise can cause hearing loss.*
- **Use auxiliary handle(s), if supplied with the tool.***Loss of control can cause personal injury.*
- **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.*
- **Wear a dust mask.** Do not inhale the harmful dusts generated in drilling or chiseling operation. The dust can endanger the health of yourself and bystanders.
- **When working with the power tool, always hold it firmly with both hands and provide for a secure stance.** The power tool is guided more secure with both hands
- **Do not work materials containing asbestos.** Asbestos is considered carcinogenic.
- **Always wait until the power tool has come to a complete stop before placing it down.** The tool insert can jam and lead to loss of control over the power tool.
- **Do not use the power tool with a damaged cord. Do not touch the damaged cord and pull the plug from the outlet when the cord is damaged while working.** Damaged cords increase the risk of an electric shock.
- **Connect power tools that are used in the open via a Ground Fault Circuit Interrupter (GFCI).**
- **Ear hearing protection.** Exposure to noise can cause hearing loss.
- **Use the auxiliary handle supplied with the power tool.** Loss of control over the power tool can cause personal injury.
- **Use suitable detectors to determine if utility lines are hidden in the work area or call the local utility company for assistance.** Contact with electric lines can lead to fire and electric shock. Damaging a gas line can lead to explosion. Penetrating a water line causes property damage or may cause an electric shock.
- **Hold the power tool only by the insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own power cord.** Contact with a "live" wire will also make exposed metal parts of the power tool "live" and shock the operator.
- **Do not touch the bit during or immediately after operation. The bit becomes very hot during operation and could cause serious burns.**
- If the replacement of the supply cord is necessary, this has to be done by the manufacturer or his agent in order to avoid a safety hazard.

CAUTION:

The insert tool may become hot During Use. There is a risk of burning the hands. Wear Protective gloves when changing insert

Residual risks

Even when the power tool is used as prescribed it is not possible to eliminate all residual risk factors. The following hazards may arise in connection with the power tool's construction and design:







1. Damage to lungs if an effective dust mask is not worn.
2. Damage to hearing if effective hearing protection is not worn.
3. Damages to health resulting from vibration emission if the power tool is being used over longer period of time or not adequately managed and properly maintained.

WARNING!

This power tool produces an electromagnetic field during operation. This field may under some circumstances interfere with active or passive medical implants. To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their physician and the medical implant manufacturer before operating this machine.

Safety instructions

In this operator's manual/or machine's labels following symbols are used:

	Double insulation		Read the operating instructions before use.
	General Warning		Indicate electrical shock hazard.
	Wear ear and eye protection.		Immediately unplug the plug from the main electricity in the case that the cord gets damage and during maintenance.

Application



Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

The power tool is intended for chiseling work in concrete, brick, masonry and asphalt as well as for driving in and compacting, when using the respective accessories.

The tool is to be used only for its prescribed purpose. Any other use is deemed to be a case of misuse.

Machine information

Technical Data

Machine Type	GH2970
Rated Voltage	AC 220-240V
Frequency	50Hz
Input power	1500W
Impact frequency	1000-1900/min
Impact energy	6-18J
Chisel positions	12
Tool holder	SDS-max
Weight	10.5kg
Vibration	
"Chiseling" ah,Cheq	19.93 m/s ² , k=1.5m/s ²
Noise:	
Sound pressure level L _{pA}	92.19dB(A)
Sound power level L _{WA}	103.19dB(A)
Uncertainty K	3 dB(A)
Guaranteed sound power level (according to 2000/14/EC) "Chiseling mode":	105 dB(A)
Protection class	II

The values given are valid for nominal voltages[U] of 220-240V. For lower voltages and models for specific countries, these values can vary.



Wear hearing protection while operating the power tool.

The declared vibration total value has been measured in accordance with a standard test method and may be used for comparing one tool with another.

The declared vibration total value may also be used in a preliminary assessment of exposure.

Warning !

The vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used.

There is the need to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

Standard accessories

One bottle of grease	60g
Bull point chisel	1 piece
flat chisel	1 piece
Carbon brush	1 couple

OPTIONAL ACCESSORIES (sold separately)

Notice: Optional accessories (sold separately) are recommended only for Gazelle tool for specified purpose in manual, any other brand accessories or attachments used may present risk of injury.

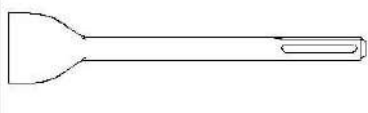
1. Tine Chisel: 18*350mm(SDS max)



2. Flat Chisel :18*350mm (SDS max)



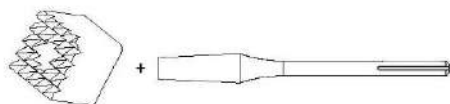
3. Big Flat Chisel :18*400mm (SDS max)



4. Goose Chisel :18*400mm (SDS max)

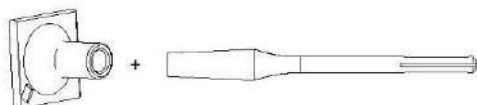


5. Surface Roughing (Hammering)



- (1) Bushing Tool (2) Shank

6. Tamping (Hammering)

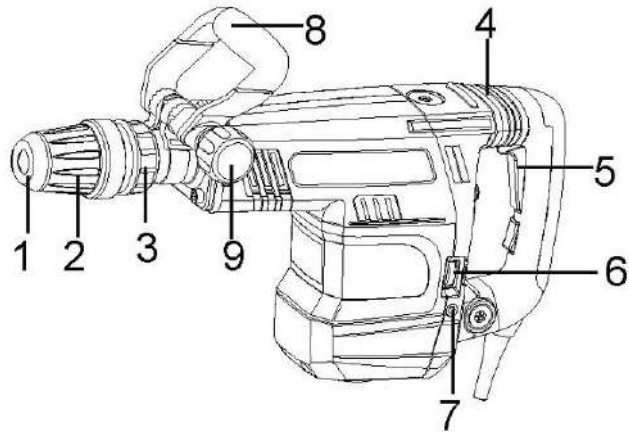


- (1) Rammer (2) Shank (150 x 150 mm)

Optional accessories are subject to change without notice.

Name of the parts

1. Hammer rod protector
2. Protective lining
3. Limited ring
4. Shock Absorption Jacket
5. Switch
6. Speed AdjusterFunction Knob
7. Indicator
8. Side Handle
9. Function Knob



Assembly

Auxiliary Handle

Operate your power tool **only with the Side Handle 8**.

The Side Handle **8** can be set to any position for a secure and low-fatigue working posture.

Loosen the Function Knob **9**, rotate the Side Handle **8** around the axis of the power tool to the required position and tighten the Function Knob **9** again.

The Side Handle **8** can be mounted to a different position. For this, completely unscrew the Function Knob **9** and then pull out the hexagon bolt upward. Pull off the Side Handle **8** to the side and turn around the remaining clamping element by 180°. Mount the Side Handle **8** in reverse order.

Changing the tool

Before any work on the power tool itself, pull the mains plug.

With the SDS-max tool holder. Simpler and easier tool changing is possible without additional aids. The Hammer rod protector **1** largely prevents the entry of drilling dust into the tool holder during operation. When inserting the tool, take care that the Hammer rod protector **1** is not damaged.

A damaged Hammer rod protector should be changed immediately. We recommend having this carried out by an after-sales service.

Inserting(see figure A)

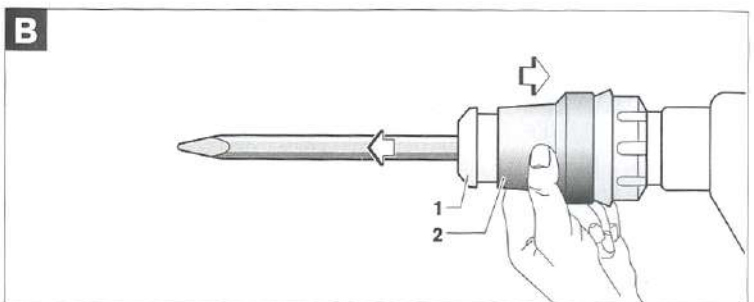
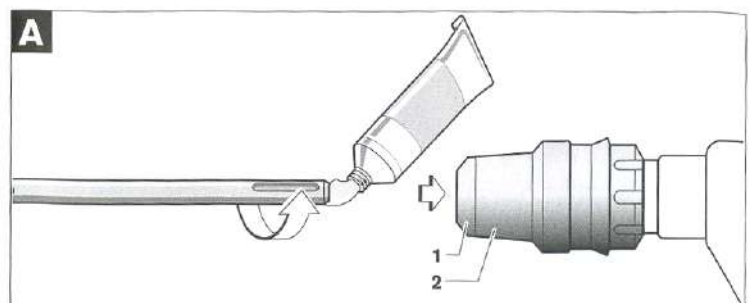
Clean and lightly grease the shank end of the tool. Insert the tool in a twisting manner into the tool holder until it latches itself. Check the latching by pulling the tool.

Removing (see figure B)

Push back the Protective lining **2** and remove the tool.

CAUTION:

The insert tool may become hot During Use. There is a risk of burning the hands. Wear Protective gloves when changing insert



Operation

Prior to operation

1. Power source

Ensure that the power source to be utilized conforms to the power requirements which specified on the name plate of the hammer.

2. Power switch

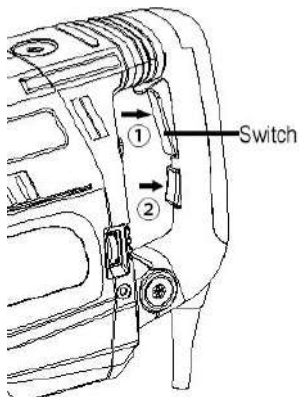
Ensure that the power switch is in the position of OFF. If the plug is connected to power receptacle while the power switch is in ON position, the demolition hammer will start operation immediately, which can cause serious accident!

3. Extension cord

When the work area is removed from the power source, use an extension cord of sufficient thickness and rated capacity. The extension cord should be kept as short as practicable.

Starting Operation

Observe correct mains voltage! The voltage of the power source must agree with the voltage specified on the type plate of the power tool.



Switch on	Press the switch towards①direction
Switch off	Press the switch towards②direction

For low temperatures, the power tool reaches the full impact rate only after a certain time. This start-up time can be shortened by striking the chisel in the power tool against the floor one time.

Shock absorption Equipment 4

The is equipped with an active vibration reduction system, which cuts vibration of that of the without Active Vibration Reduction. This may significantly reduce the exposure level over the total working period. protect the operator form the effects of vibration.

Setting the Impact Rate

The electronic control enables stepless speed preselection in accordance with the material to be worked.

The constant electronic control keeps the preselected impact rate nearly constant between no-load and load conditions.

Select the impact rate with the Speed Adjuster Function Knob6 according to the material.

Changing the Chiseling Position (Vario-lock)

The chisel can be locked in 12 positions. In this manner, the optimum working position can be set for each application.

Insert the chisel into the tool holder.

Push the **limited ring 3** forward and turn the chisel to the required position with the **limited ring 3**.

Release the Move limited ring **backward 3** and turn the chisel until it latches.

Maintenance and Service

Before any work on the power tool itself, pull the mains plug.

For safe and proper working, always keep the power tool and the ventilation slots clean.

A damaged hammer rod protector should be changed immediately. We recommend having this carried out by an after-sales service.

Indicator 7

When the carbon brushes are worn out, the power tool switches itself off. This is indicated approx. **8** hours beforehand by the lighting or blinking of the indicator **7**. The power tool must then be sent to an after-sales service agent.

If the power tool should fail despite the care taken in manufacturing and testing procedures, repair should be carried out by an after-sales service center for Gazelle power tools.

Clean the machine regularly with a soft cloth, preferably after each use. Solvent such as gasoline, thinner, alcohol etc.. These kind of chemical materials are not allowed to use, water or soap are recommended!

Protecting the Environment



Do not dispose of power tools together with household waste material!

The machine, accessories and packaging should be sorted for environmental friendly recycling. 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.

CAUTION:

Repair, modification and inspection of Gazelle Power tools must be carried out by a Gazelle Authorized Service Center. In the operation and maintenance of power tools, the safety regulations and standards prescribed in each country must be observed.

MODIFICATIONS:

Gazelle Power Tools are constantly being improved and modified to incorporate the latest technological advancements. Accordingly, some parts (i.e. code numbers and/or design) may be changed without prior notice.

NOTE:

Due to Gazelle's continuing program of research and development, the specifications herein are subject to change without prior notice.

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