

Robert Bosch GmbH
Power Tools Division
70745 Leinfelden-Echterdingen

www.bosch-pt.com

1 619 929 732 (2007.08) O / 101

GBH 7-46 DE Professional



de Originalbetriebsanleitung

en Original instructions

fr Notice originale

es Manual original

pt Manual original

it Istruzioni originali

nl Oorspronkelijke
gebruiksaanwijzing

da Original brugsanvisning

sv Bruksanvisning i original

no Original driftsinstruks

fi Alkuperäiset ohjeet

el Πρωτότυπο οδηγιών χρήσης

tr Orijinal işletme talimatı

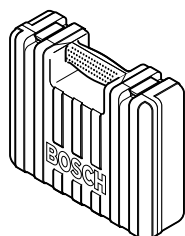
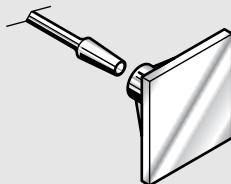




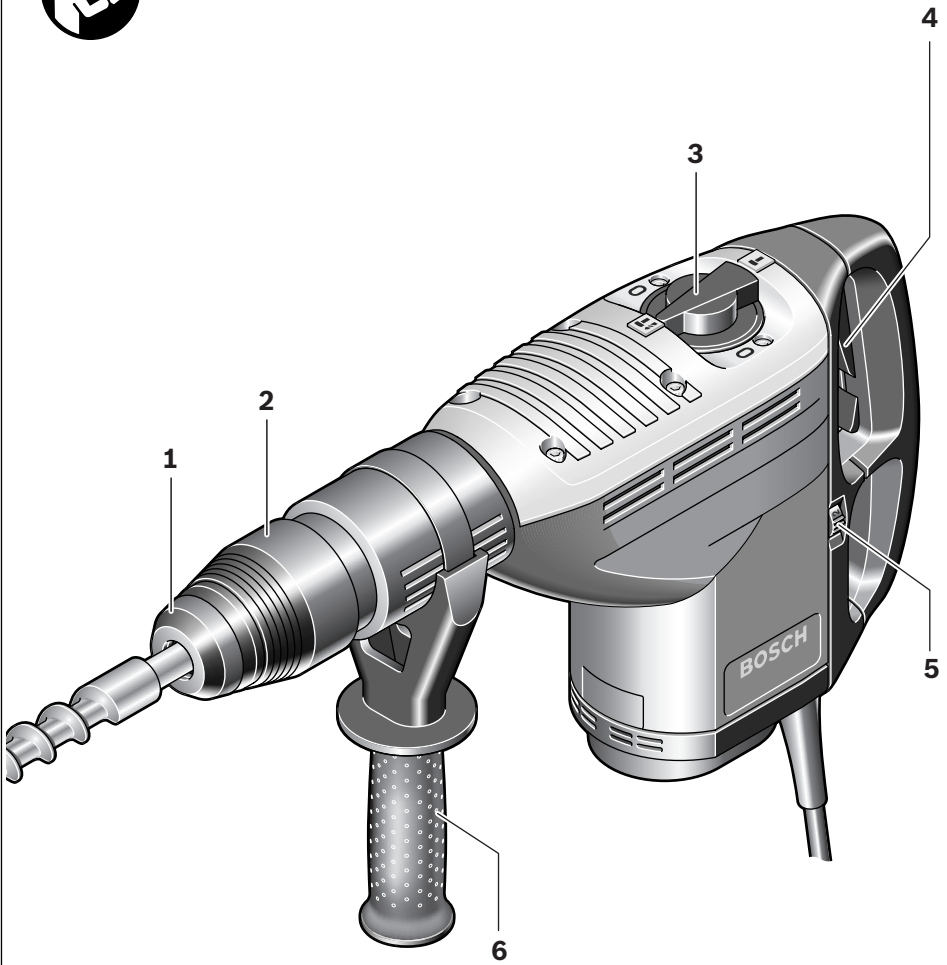
5 x 5



7 x 7

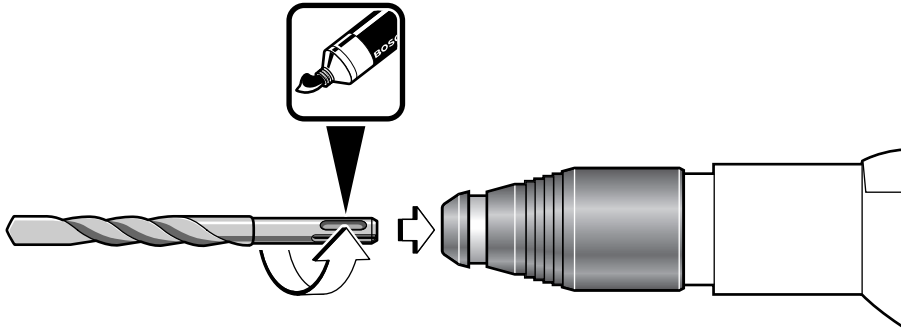


2 605 438 190

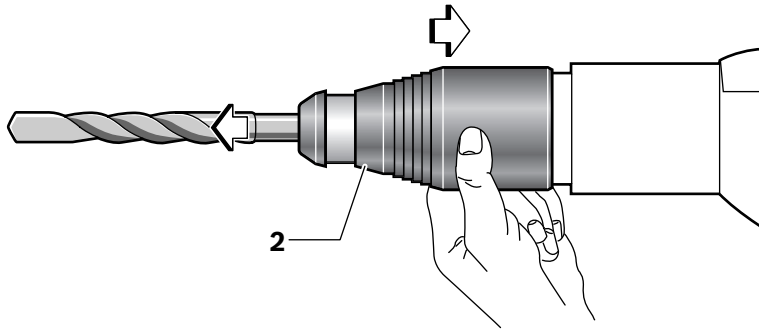


**GBH 7-46 DE
Professional**

A



B



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 or battery-operated (cordless) 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 and 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 jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.

- g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.
- 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) 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.

Machine-specific Safety Warnings

- ▶ **Wear hearing protection.** Exposure to noise can cause hearing loss.
- ▶ **Always use the auxiliary handle supplied with the machine.** Loss of control 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 cord.** Contact with a "live" wire will also make exposed metal parts of the power tool "live" and shock the operator.
- ▶ **When working with the machine, always hold it firmly with both hands and provide for a secure stance.** The power tool is guided more secure with both hands.
- ▶ **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
- ▶ **Do not work materials containing asbestos.** Asbestos is considered carcinogenic.
- ▶ **Take protective measures when dust can develop during working that is harmful to one's health, combustible or explosive.** Example: Some dusts are regarded as carcinogenic. Wear a dust mask and work with dust/chip extraction when connectable.
- ▶ **Keep your workplace clean.** Blends of materials are particularly dangerous. Dust from light alloys can burn or explode.

- ▶ **Always wait until the machine 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.
- ▶ **Never use the machine with a damaged cable. Do not touch the damaged cable and pull the mains plug when the cable is damaged while working.** Damaged cables increase the risk of an electric shock.

Functional Description



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

While reading the operating instructions, unfold the graphics page for the machine and leave it open.

Intended Use

The machine is intended for hammer drilling in concrete, brick and stone as well as for chiselling.

Product Features

The numbering of the product features refers to the illustration of the machine on the graphics page.

- 1 Dust protection cap
- 2 Locking sleeve
- 3 Mode selector switch
- 4 On/Off switch
- 5 Thumbwheel for speed preselection/impact frequency preselection
- 6 Auxiliary handle

The accessories illustrated or described are not included as standard delivery.

Technical Data

Rotary Hammer		GBH 7-46 DE Professional
Article number		0 611 263 7..
Rated power input	W	1350
Rated speed	rpm	145 – 280
Impact rate		
– Drilling mode	bpm	1375 – 2700
– Chiselling mode	bpm	1375 – 2800
Impact energy per stroke		
– Drilling mode	J	2 – 13
– Chiselling mode	J	2 – 15
Chisel positions		12
Tool holder		SDS-max
Lubrication		Central permanent lubrication
Max. drilling dia.		
– Concrete (with twist drill)	mm	45
– Concrete (with break-through drill bit)	mm	80
– Brickwork (with core bit)	mm	150
Weight according to EPTA-Procedure 01/2003	kg	8.2
Protection class		□/II

The values given are valid for nominal voltages [U] of 230/240 V. For lower voltage and models for specific countries, these values can vary.

Please observe the article number on the type plate of your machine. The trade names of the individual machines may vary.

Noise/Vibration Information

Measured values determined according to EN 60745.

Typically the A-weighted noise levels of the product are: Sound pressure level 95 dB(A); Sound power level 106 dB(A). Uncertainty K=3 dB.

Wear hearing protection!

Vibration total values (triax vector sum) determined according to EN 60745:

Hammer drilling into concrete: Vibration emission value $a_{rh}=21 \text{ m/s}^2$, Uncertainty $K=1.5 \text{ m/s}^2$,
Chiselling: Vibration emission value $a_{rh}=18 \text{ m/s}^2$, Uncertainty $K=1.5 \text{ m/s}^2$.

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.

Declaration of Conformity

We declare under our sole responsibility that the product described under "Technical Data" is in conformity with the following standards or standardization documents: EN 60745 according to the provisions of the directives 2004/108/EC, 98/37/EC (until Dec. 28, 2009), 2006/42/EC (from Dec. 29, 2009 on).

Technical file at:

Robert Bosch GmbH, PT/ESC,
D-70745 Leinfelden-Echterdingen

Dr. Egbert Schneider	Dr. Eckerhard Strötgen
Senior Vice President	Head of Product
Engineering	Certification

ppa. [Signature] *i.V. [Signature]*

03.07.2007, Robert Bosch GmbH, Power Tools Division
D-70745 Leinfelden-Echterdingen

Assembly

- ▶ **Before any work on the machine itself, pull the mains plug.**

Auxiliary Handle

- ▶ **Operate your machine only with the auxiliary handle 6.**

The auxiliary handle **6** can be set to any position for a secure and low-fatigue working posture.

Turn the bottom part of the auxiliary handle **6** in counterclockwise direction and swivel the auxiliary handle **6** to the desired position. Then retighten the bottom part of the auxiliary handle **6** by turning in clockwise direction.

Changing the Tool

With the SDS-max tool holder, simpler and easier tool changing is possible without additional aids.

The dust protection cap **1** largely prevents the entry of drilling dust into the tool holder during operation. When inserting the tool, take care that the dust protection cap **1** is not damaged.

- ▶ **A damaged dust protection cap 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 locking sleeve **2** and remove the tool.

Operation

Starting Operation

- ▶ **Observe correct mains voltage! The voltage of the power source must agree with the voltage specified on the nameplate of the machine. Power tools marked with 230 V can also be operated with 220 V.**

Setting the Operating Mode

The operating mode of the power tool is selected with the mode selector switch **3**.

Note: Change the operating mode only when the machine is switched off! Otherwise, the machine can be damaged.

Turn the mode selector switch **3** to the requested position.



Position for **hammer drilling**

When the drilling tool does not immediately rotate upon switching on, allow the machine to run slowly until the drilling tool rotates.



Vario-Lock position for adjustment of the chiselling position



Position for **chiselling**

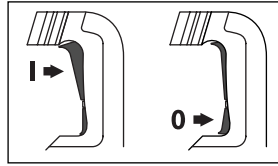
In the “**chiselling**” position, the impact rate preselected with the thumbwheel **5** is automatically increased when switching on; this causes the power tool to operate with increased capacity when chiselling.

Switching On/Off in Drilling Mode

To **start** the machine, press the On/Off switch **4** and keep it depressed.

To switch off the machine, **release** the On/Off switch **4**.

Switching On/Off in Chiselling Mode



To **start** the machine, press the On/Off switch **4** at the top (**I**) until it locks.

To switch **off** the machine, press the On/Off switch **4** at the bottom (**0**) and release it.

For low temperatures, the power tool reaches the full hammer/impact capacity only after a certain time.

Setting the Speed/Impact Rate

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

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

The maximum hammering capacity is achieved when the thumbwheel **5** is set to position “6”. For lower speed settings, the hammering capacity is lower due to technical reasons.

Select the speed with the thumbwheel **5** according to the material.

The data in the following table are recommended values.

Operating Mode	Hammer Drilling	Chiselling	
Thumb-wheel 5	Rated Speed (rpm)	Impact Rate (bpm)	Impact Rate (bpm)
1	145	1350	1375
2	170	1625	1650
3	200	1975	2025
4	225	2175	2225
5	255	2475	2550
6	280	2700	2800

Overload Clutch

- ▶ **If the tool insert becomes caught or jammed, the drive to the drill spindle is interrupted. Because of the forces that occur, always hold the power tool firmly with both hands and provide for a secure stance.**
- ▶ **If the power tool jams, switch the machine off and loosen the tool insert. When switching the machine on with the drilling tool jammed, high reaction torques can occur.**

Changing the Chiselling 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.

Turn the mode selector switch **3** to the “Vario-Lock” position (see “Setting the Operating Mode”, page 18).

Turn the tool holder to the desired chiselling position.

Turn the mode selector switch **3** to the “chiselling” position. The tool holder is now locked.

- ▶ **The mode selector switch 3 must always be locked in the “Chiselling” position when chiselling.**

Maintenance and Service

Maintenance and Cleaning

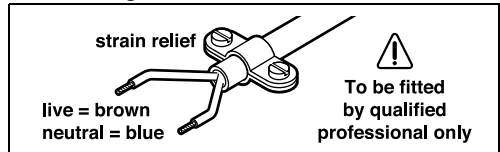
- ▶ **Before any work on the machine itself, pull the mains plug.**
- ▶ **For safe and proper working, always keep the machine and ventilation slots clean.**
- ▶ **A damaged dust protection cap should be changed immediately. We recommend having this carried out by an after-sales service.**

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

In all correspondence and spare parts order, please always include the 10-digit article number given on the type plate of the machine.

WARNING! Important instructions for connecting a new 3-pin plug to the 2-wire cable.

The wires in the cable are coloured according to the following code:



Do **not** connect the blue or brown wire to the earth terminal of the plug.

Important: If for any reason the moulded plug is removed from the cable of this power tool, it must be disposed of safely.

After-sales service and customer assistance

Our after-sales service responds to your questions concerning maintenance and repair of your product as well as spare parts. Exploded views and information on spare parts can also be found under:

www.bosch-pt.com

Our customer consultants answer your questions concerning best buy, application and adjustment of products and accessories.

Great Britain

Robert Bosch Ltd. (B.S.C.)
 P.O. Box 98
 Broadwater Park
 North Orbital Road
 Denham
 Uxbridge
 UB 9 5HJ
 Tel. Service: +44 (0844) 736 0109
 Fax: +44 (0844) 736 0146
 E-Mail: SPT-Technical.de@de.bosch.com

Ireland

Origo Ltd.
 Unit 23 Magna Drive
 Magna Business Park
 City West
 Dublin 24
 Tel. Service: +353 (01) 4 66 67 00
 Fax: +353 (01) 4 66 68 88

Australia, New Zealand and Pacific Islands

Robert Bosch Australia Pty. Ltd.

Power Tools

Locked Bag 66

Clayton South VIC 3169

Customer Contact Center

Inside Australia:

Phone: +61 (01300) 307 044

Fax: + 61 (01300) 307 045

Inside New Zealand:

Phone: +64 (0800) 543 353

Fax: +64 (0800) 428 570

Outside AU and NZ:

Phone: +61 (03) 9541 5555

www.bosch.com.au

Disposal

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

Only for EC countries:



Do not dispose of power tools into household waste!

According the European Guideline 2002/96/EC for Waste Electrical and Electronic Equipment and its implementation into national right,

power tools that are no longer usable must be collected separately and disposed of in an environmentally correct manner.

Subject to change without notice.