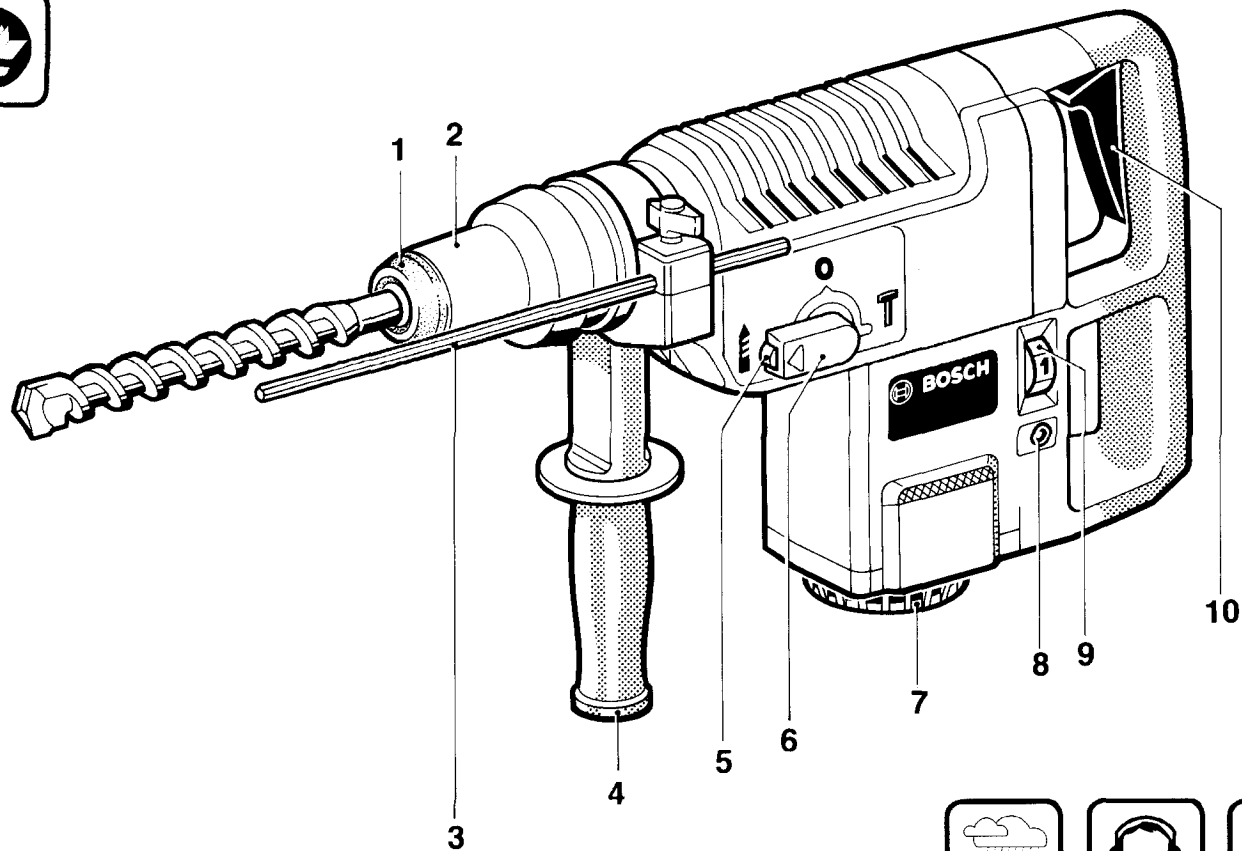


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	69...71



# BOSCH



## Tool Specifications

### Percussion drill

Part number	0 611 230 7..
Power input	950 W
Power output	560 W
Rated speed	180 - 360 R.P.M.
Impact rate	1 600 - 3 200/min
Impact energy per stroke	1.5 - 6.0 J
Chiseling capacity in medium-hardness concrete	440 cm <sup>3</sup> /min
Chisel adjustment	12 x 30°
Tool mount	SDS-max (Special Direct System)
Lubrication	Permanent central lubrication
Weight (without accessories)	approx. 5.9 kg
Degree of protection	□ / II

## Noise/vibration information

Measured values determined according to EN 50 144.

Typically the A-weighted noise levels of the tool are: Sound pressure level: 90 dB (A). Sound power level: 103 dB (A).

### Wear ear protection!

84/537/EEC: Noise level is lower than 108 dB (A).

The typical weighted acceleration is 13 m/s<sup>2</sup>.

## Operating controls

- |                    |                               |
|--------------------|-------------------------------|
| 1 Dust cap         | 6 Mode selector switch        |
| 2 Locking sleeve   | 7 Cooling vent                |
| 3 Depth stop       | 8 Service display             |
| 4 Auxiliary handle | 9 Impact rate & speed control |
| 5 Release button   | 10 ON/OFF switch              |

Illustrated and described accessories are not always included in standard delivery!

GB



## For your safety



Safe operation of this machine is possible only when the operating instructions and the safety precautions are read completely and the instructions contained therein are strictly observed. Before operating the machine, ask for a practical demonstration.



Always inspect cable and plug before using machine. Only have damage repaired by a qualified professional.



The machine must not be used when damp and must not be operated in a wet environment.



Use ear protectors and protective goggles.

- Always remove the plug from the power supply socket before carrying out any work on the machine, when interrupting work and when not using the machine.
- Put the plug into the mains socket only when the machine is switched off.
- Always lay the cable away from the machine towards the rear.
- Do not carry the machine by the cable.
- Wear protective gloves and sturdy footwear.
- Do not use machine without auxiliary handle 4.
- Always hold the machine with both hands during operation and make sure you have a firm foothold.
- When working outdoors, only use an extension cable and plug which are authorized for outdoor use.
- Persons under the age of 16 must not operate the machine unsupervised.
- Only use original accessories.
- Read the "Safety instructions" enclosed with this manual.

## Initial operation



Before starting work always examine the working area for concealed electric lines, gas and water pipes, e. g. with a metal detector.

**Always use the correct supply voltage:** The voltage specifications on the rating plate must correspond with the mains voltage. Equipment marked with 230 V can also be connected to 220 V.

## Switching ON/OFF

Switching on: Press ON/OFF switch **10** and keep pressed.

Switching off: Release ON/OFF switch **10**.

**Working in temperatures below 10 °C:** At low temperatures it is possible that the equipment only starts to function after approx. 3 minutes. This run-up time can be reduced by tapping the chisel once on the floor.

## Controlling the speed and the number of impacts

The Control Electronic System enables the speed and the number of impacts to be smoothly preselected in accordance with the material. The setting is carried out with speed control **9**.

The Constant Electronic System keeps the preselected speed and number of impacts almost constant between no-load and load speed.

The speed must be selected in accordance with the material. Recommended values can be found in the speed table.

Area of application	Control setting	Rotat. speed	Impact rate
Plasterwork/ lightweight materials	1 - 2	180-220 R.P.M.	1600-1900/min
Removing tiles	3	250 R.P.M.	2200/min
Brickwork	4	300 R.P.M.	2600/min
Concrete	5 - 6	330-360 R.P.M.	2800-3200/min

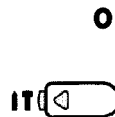
Above values are intended as a guide.

## Mode selector switch

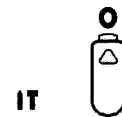
The mode selector switch **6** may only be operated when the appliance is switched off.

Press the release button **5** on the mode selector switch **6** and move the button to the desired position.

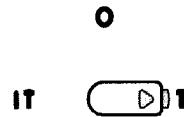
### Percussion drilling



### Chisel adjustment (Vario-lock)



### Chiseling (Rotation OFF)



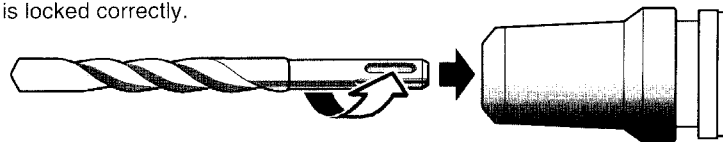
## Changing the tool (SDS-max)

The dust cap **1** prevents drilling dust entering the machine during operation. Make sure that the dust cap **1** is not damaged when inserting the tool.

## Inserting tools

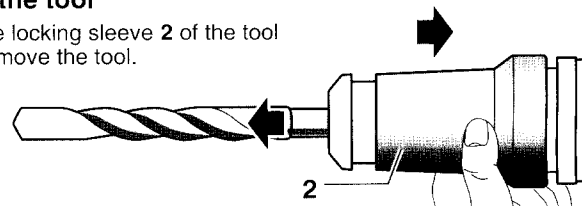
Clean and lightly grease the tool before insertion.

Twist the dust-free tool into the tool mount and push it in until it engages. The tool locks in position automatically. Pull the tool to check that it is locked correctly.



## Removing the tool

Push back the locking sleeve **2** of the tool mount and remove the tool.



## Setting the chisel position (Vario-lock)

The vario-lock chisel positions enable the percussion drill to be used in the best possible and most comfortable working position.

The chisel can be locked in 12 positions.

**Wear protective goggles and protective gloves.**

Insert the chisel into the tool-holding fixture.

Press release button 5 and simultaneously rotate mode selector switch 6 to "chisel adjustment" (Vario-lock).

Rotate tool-holding fixture to the desired chisel position.

Allow mode selector switch 6 to engage in the chisel position. The tool-holding fixture is now locked in this position.

**Mode selector switch 6 must always be in the chisel position for chiselling.**

## Auxillary handle/Bit stop



**For reasons of safety the percussion drill must only be used with tight-fitting auxiliary handle 4.**

Loosen handle by rotating anti-clockwise. Swivel auxiliary handle 4 and adjust the working position

**The handle must then be retightened.**

The drilling depth can be set with bit stop 3.

## Overload Clutch

If the drill becomes caught or jammed, the drive to the drill spindle is interrupted.

Because of the forces that occur as a result, always hold the machine securely with both hands and take a firm stance.

## Services display

The machine automatically switches off when the carbon brushes are worn. Approximately eight hours before this occurs, service display 8 lights up or flickers, indicating worn brushes.

The machine must be forwarded to customer service for maintenance.

## Intergrated dust cap

The tool holder is equipped with a dust cap 1. The dust cap 1 prevents dust from entering the tool holder when working. It is checked by customer service when the carbon brushes are changed and is replaced if necessary.

## Sharpening chisels

Since good results can only be achieved using sharp chisels, it is important to sharpen tools in good time. This prolongs the life of your tools and ensures high efficiency.

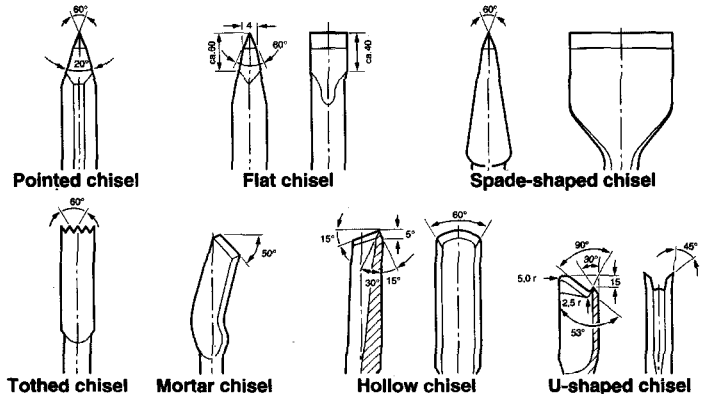
### Regrinding

Grind chisels using grinding wheels (e.g. corundum). Keeping the chisels wet using a steady supply of water. Refer to the drawings below for recommended values. Make sure that no annealing colour appears on the cutting edges, otherwise the hardness of the chisel will be impaired.

### Forging and hardening


**Forging:** Heat chisel to 850 to 1050 °C (bright red to yellow) and forge.

**Hardening:** Heat chisel to 900 °C (bright red) and quench in oil, then anneal in oven for approx. one hour at 320 °C (annealing colour = light blue).



## Cleaning and Maintenance

Always disconnect the plug from the power socket before carrying out any work on the appliance.

 Always keep the machine and the ventilation slots clean for proper and safe working.

Keep the tool mount always clean.

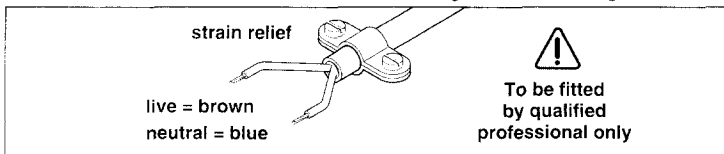
If, despite careful production and rigorous quality assurance, damage is found, the appliance may only be repaired by an authorised service workshop for Bosch electrical tools.

For all correspondence and spare parts orders, always include the 10 digit order number 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 plug is cut off of the cable of this machine, it must be disposed of safely and not left unattended.

## Environmental protection



### Recycling raw materials instead of waste disposal

Machine, accessories and packaging should be sorted for environment-friendly recycling.

These instructions are printed on recycled paper manufactured without chlorine.

The plastic components are labelled for categorized recycling.

## Guarantee

We guarantee BOSCH appliances in accordance with statutory/country-specific regulations (proof of purchase by invoice or delivery note).

Damage attributable to normal wear and tear, overload or improper handling will be excluded from the guarantee.

In case of complaint please send the machine, **undismantled**, to your dealer or the BOSCH Service Centre for electric power tools.

## Service

### Great Britain

Robert Bosch Ltd. (B.S.C.)  
P.O. Box 98  
Broadwater Park  
North Orbital Road  
Denham-Uxbridge  
GB-Middlesex UB 9 5HJ

☎ Service .....(08 95) 83 86 81  
☎ Advice line .....(08 95) 83 84 02  
FAX .....(08 95) 83 87 89

### Ireland

Beaver Distribution Ltd.  
Greenhills Road  
IRL-Tallaght-Dublin 24

☎ Service .....(01) 45 15 211  
FAX .....(01) 45 17 127

## CE Declaration of conformity

We declare under our sole responsibility that this product is in conformity with the following standards or standardization documents: EN 50 144, EN 55 014, EN 60 555, HD 400 according to the provisions of the regulations 73/23/EEC, 89/336/EEC (as of 1/96), 89/392/EEC.

CE 94

Dr. Eckerhard Strötgen

Dr. Alfred Odendahl



Robert Bosch GmbH, Geschäftsbereich Elektrowerkzeuge

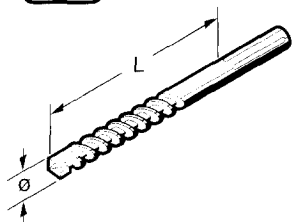
Subject to change

## Safety instructions

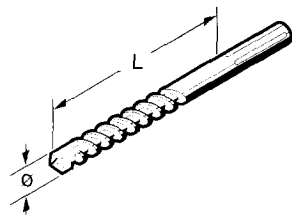
**Warning!** When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury, including the following. Read all these instructions before attempting to operate this product and save these instructions.

For safe operation:

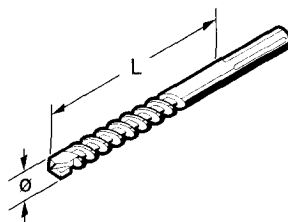
- 1. Keep work area clean**  
Cluttered areas and benches invite injuries.
- 2. Consider work area environment**  
Don't expose power tools to rain. Don't use power tools in damp or wet locations. Keep work area well lit. Don't use power tools in presence of flammable liquids or gases.
- 3. Guard against electric shock**  
Prevent body contact with grounded surfaces (e. g. pipes, radiators, ranges, refrigerators).
- 4. Keep children away**  
Do not let visitors contact tool or extension cord. All visitors should be kept away from work area.
- 5. Store idle tools**  
When not in use, tools should be stored in dry, high, or locked-up place, out of the reach of children.
- 6. Don't force tool**  
It will do the job better and safer at the rate for which it was intended.
- 7. Use right tool**  
Don't force small tools or attachments to do the job of a heavy duty tool. Don't use tools for purposes not intended; for example, don't use circular saw for cutting tree limbs or logs.
- 8. Dress properly**  
Do not wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and nonskid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
- 9. Use safety glasses**  
Also use face or dust mask if cutting operation is dusty.
- 10. Don't abuse cord**  
Never carry tool by cord or yank it to disconnect it from receptacle. Keep cord from heat, oil and sharp edges.
- 11. Secure work**  
Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
- 12. Don't overreach**  
Keep proper footing and balance at all times.
- 13. Maintain tools with care**  
Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and, if damaged, have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean and free from oil and grease.
- 14. Disconnect tools**  
When not in use, before servicing, and when changing accessories such as blades, bits and cutters.
- 15. Remove adjusting keys and wrenches**  
Form the habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
- 16. Avoid unintentional starting**  
Don't carry plugged-in tool with finger on switch. Be sure switch is off when plugging in.
- 17. Outdoors use extension cords**  
When tool is used outdoors, use only extension cords intended for use outdoors and so marked.
- 18. Stay alert**  
Watch what you are doing. Use common sense. Do not operate tool when you are tired.
- 19. Check damaged parts**  
Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation.  
A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual.  
Have defective switches replaced by an authorized service center. Do not use tool if switch does not turn it on and off.
- 20. Warning!**  
The use of any other accessory or attachment other than recommended in this operating instruction or the Bosch catalog may present a risk of personal injury.
- 21. Have your tool repaired by an expert**  
This electric appliance is in accordance with the relevant safety rules. Repairing of electric appliances may be carried out only by experts otherwise it may cause considerable danger for the user.



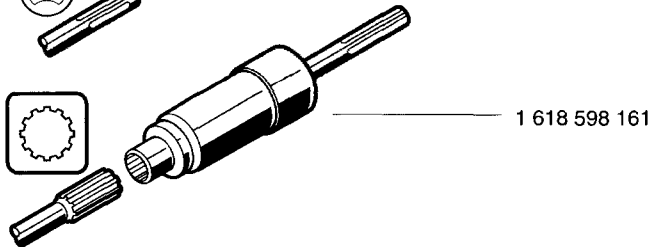
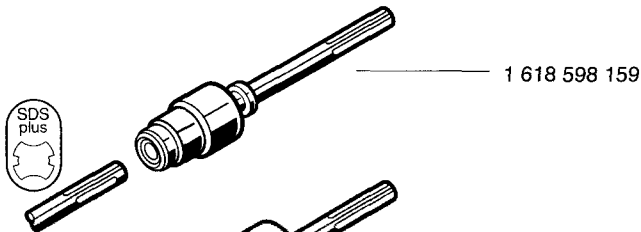
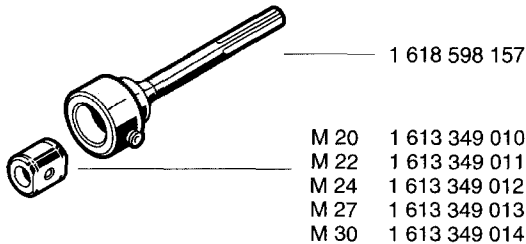
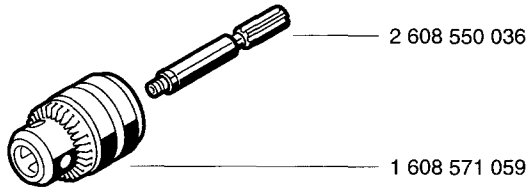
$\varnothing$ (mm)	L (mm)	
12	x 200	1 618 596 415
12	x 400	1 618 596 416
12	x 550	1 618 596 417
14	x 200	1 618 596 418
14	x 400	1 618 596 419
15	x 200	1 618 596 420
15	x 400	1 618 596 421



16	x 200	1 618 596 422
16	x 400	1 618 596 423
18	x 200	1 618 596 424
18	x 400	1 618 596 425
20	x 200	1 618 596 426
20	x 400	1 618 596 427
20	x 800	1 618 596 428
22	x 200	1 618 596 429
22	x 400	1 618 596 430
22	x 800	1 618 596 431
24	x 200	1 618 596 432
24	x 400	1 618 596 433



$\varnothing$ (mm)	L (mm)	
25	x 200	1 618 596 434
25	x 400	1 618 596 435
25	x 800	1 618 596 436
28	x 250	1 618 596 437
28	x 450	1 618 596 438
28	x 550	1 618 596 439
30	x 250	1 618 596 440
30	x 450	1 618 596 441
32	x 250	1 618 596 442
32	x 450	1 618 596 443
32	x 800	1 618 596 444
35	x 250	1 618 596 445
35	x 450	1 618 596 446
35	x 550	1 618 596 447
38	x 250	1 618 596 448
38	x 450	1 618 596 449
40	x 250	1 618 596 450
40	x 450	1 618 596 451
40	x 800	1 618 596 452



	ø (mm)	L (mm)	
	45 x	450	1 618 596 455
	45 x	850	1 618 596 456
	55 x	450	1 618 596 457
	55 x	850	1 618 596 458
	65 x	450	1 618 596 459
	65 x	850	1 618 596 460

	40 x	170	1 618 550 131
	40 x	430	1 618 550 136
	52 x	170	1 618 550 132
	52 x	430	1 618 550 137
	66 x	170	1 618 550 133
	66 x	430	1 618 550 138
	80 x	170	1 618 550 134
	80 x	430	1 618 550 139
	90 x	170	1 618 550 135
	90 x	430	1 618 550 140
	100 x	170	1 618 550 141
100 x	430	1 618 550 142	
	11 x	120	1 618 598 151

	L =	225	1 618 598 156
	L =	570	1 618 598 155
	40 x	70	1 618 550 079
	50 x	70	1 618 550 080
	65 x	70	1 618 550 081
	80 x	70	1 618 550 082
	90 x	70	1 618 550 083
	100 x	70	1 618 550 084
	12 x	120	1 618 596 255



# **BOSCH**



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