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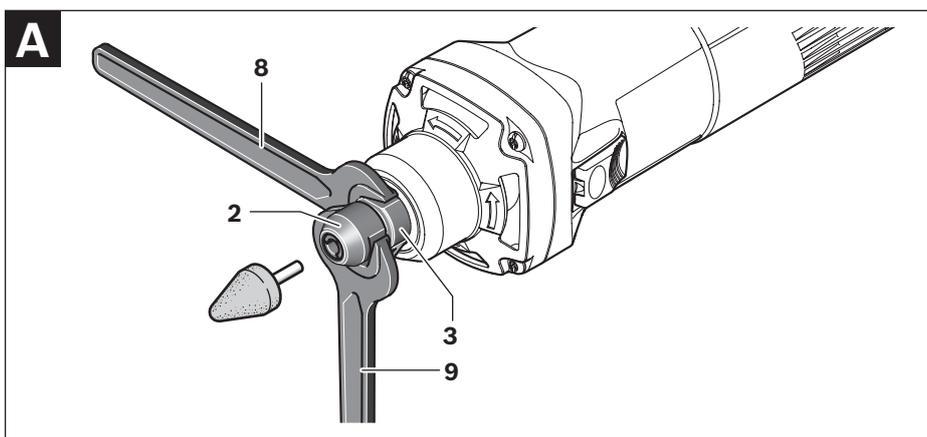
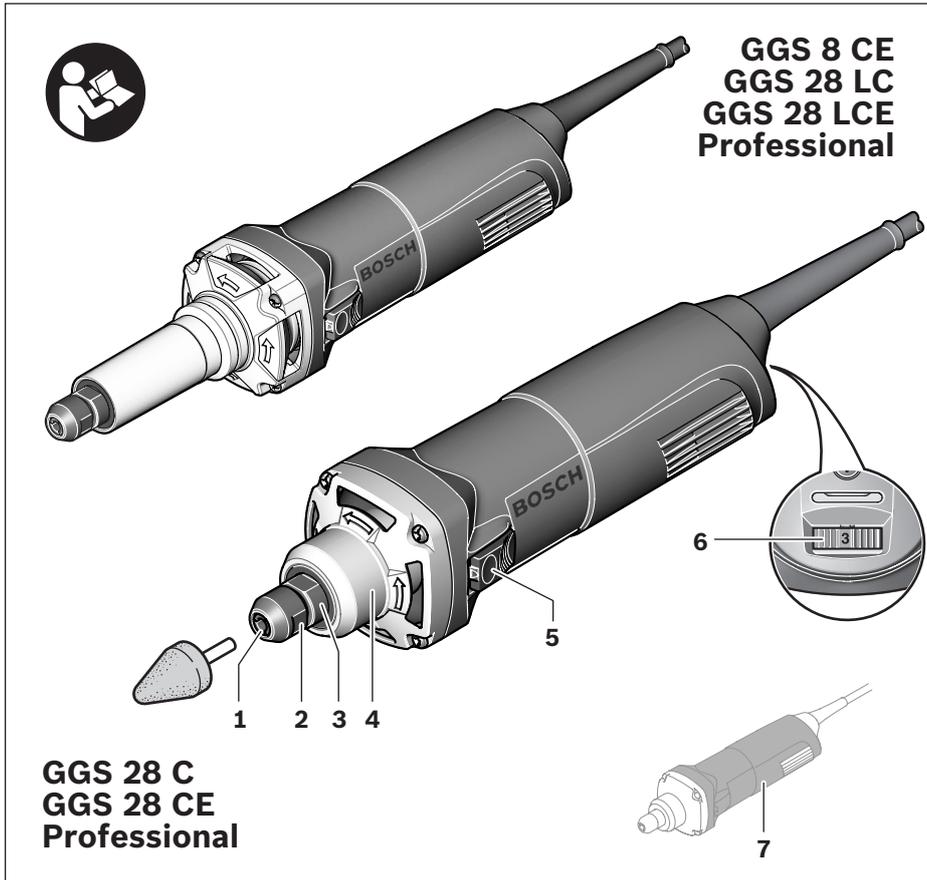
## GGs Professional

8 CE | 28 C | 28 CE | 28 LC | 28 LCE



<b>de</b> Originalbetriebsanleitung	<b>el</b> Πρωτότυπο οδηγιών χρήσης	<b>sr</b> Originalno uputstvo za rad
<b>en</b> Original instructions	<b>tr</b> Orijinal işletme talimatı	<b>sl</b> Izvirna navodila
<b>fr</b> Notice originale	<b>pl</b> Instrukcja oryginalna	<b>hr</b> Originalne upute za rad
<b>es</b> Manual original	<b>cs</b> Původní návod k používání	<b>et</b> Algupärane kasutusjuhend
<b>pt</b> Manual original	<b>sk</b> Pôvodný návod na použitie	<b>lv</b> Instrukcijas oriģinālvalodā
<b>it</b> Istruzioni originali	<b>hu</b> Eredeti használati utasítás	<b>lt</b> Originali instrukcija
<b>nl</b> Oorspronkelijke gebruiksaanwijzing	<b>ru</b> Оригинальное руководство по эксплуатации	<b>ar</b> تعليمات التشغيل الأصلية
<b>da</b> Original brugsanvisning	<b>uk</b> Оригінальна інструкція з експлуатації	<b>fa</b> راهنمای طرز کار اصلی
<b>sv</b> Bruksanvisning i original	<b>ro</b> Instrucțiuni originale	
<b>no</b> Original driftsinstruks	<b>bg</b> Оригинална инструкция	
<b>fi</b> Alkuperäiset ohjeet		





## Safety Notes

### 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.

### Safety Warnings for Straight Grinders

#### Safety Warnings Common for Grinding, Wire Brushing, Polishing or Carving:

▶ **This power tool is intended to function as a grinder, carving tool, polisher (GGS 8 CE) or wire brush (GGS 8 CE). Read all safety warnings, instructions, illustrations and specifications provided with this power tool.** Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

▶ **Do not use accessories which are not specifically designed and recommended by the tool manufacturer.** Just because the accessory can be attached to your power tool, it does not assure safe operation.

▶ **The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.** Accessories running faster than their rated speed can break and fly apart.

▶ **The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool.** Incorrectly sized accessories cannot be adequately controlled.

▶ **The arbour size of wheels, sanding drum or any other accessory must properly fit the spindle or collet of the power tool.** Accessories that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.

▶ **Mandrel mounted wheels, sanding drums, cutters or other accessories must be fully inserted into the collet or chuck. The "overhang" or the length of the mandrel from the wheel to the collet must be minimal.** If the mandrel is insufficiently held and/or the overhang of the wheel is too long, the mounted wheel may become loose and ejected at high velocity.

- ▶ **Do not use a damaged accessory.** Before each use inspect the accessory such as abrasive wheels for chips and cracks, sanding drum for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute. Damaged accessories will normally break apart during this test time.
- ▶ **Wear personal protective equipment.** Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments. The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
- ▶ **Keep bystanders a safe distance away from work area.** Anyone entering the work area must wear personal protective equipment. Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.
- ▶ **Hold power tool by insulated gripping surfaces only, 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.
- ▶ **Always hold the tool firmly during the start-up.** The reaction torque of the motor, as it accelerates to full speed, can cause the tool to twist.
- ▶ **Use clamps to support workpiece whenever practical.** Never hold a small workpiece in one hand and the tool in the other hand while in use. Clamping a small workpiece allows you to use both hands to control the tool. Round material such as dowel rods, pipes or tubing have a tendency to roll while being cut, and may cause the bit to bind or jump toward you.
- ▶ **Position the cord clear of the spinning accessory.** If you lose control of the power tool, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.
- ▶ **Never lay the power tool down until the accessory has come to a complete stop.** The spinning accessory may grab the surface and pull the power tool out of your control.
- ▶ **After changing the bits or making any adjustments, make sure the collet nut, chuck or any other adjustment devices are securely tightened.** Loose adjustment devices can unexpectedly shift, causing loss of control, loose rotating components will be violently thrown.
- ▶ **Do not run the power tool while carrying it at your side.** Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
- ▶ **Regularly clean the power tool's air vents.** The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
- ▶ **Do not operate the power tool near flammable materials.** Sparks could ignite these materials.
- ▶ **Do not use accessories that require liquid coolants.** Using water or other liquid coolants may result in electrocution or shock.

#### Kickback and related warnings

- ▶ Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation at the point of the binding.

For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions.

Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- ▶ **Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces.** The operator can control kickback forces, if proper precautions are taken.
  - ▶ **Use special care when working corners, sharp edges, etc. Avoid bouncing and snagging the accessory.** Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.
  - ▶ **Do not attach a thin toothed saw blade.** Such blades create frequent kickback and loss of control.
  - ▶ **Always feed the bit into the material in the same direction as the cutting edge is exiting from the material (which is the same direction as the chips are thrown).** Feeding the tool in the wrong direction causes the cutting edge of the bit to climb out of the work and pull the tool in the direction of this feed.
  - ▶ **When using cut-off wheels, high-speed cutters or tungsten carbide cutters, always have the work securely clamped.** These wheels will grab if they become slightly canted in the groove, and can kickback. When a cut-off wheel grabs, the wheel itself usually breaks. When the steel saw, high-speed cutters or tungsten carbide cutter grab, it may jump from the groove and you could lose control of the tool.
- Additional safety instructions for grinding**
- ▶ **Use only wheel types that are recommended for your power tool and only for recommended applications. For example: do not grind with the side of a cut-off wheel.** Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.
  - ▶ **For threaded abrasive cones and plugs use only undamaged wheel mandrels with an unrelieved shoulder flange that are of correct size and length.** Proper mandrels will reduce the possibility of breakage.
  - ▶ **Do not "jam" the cut-off wheel or apply excessive pressure. Do not attempt to make an excessive depth of cut.** Overstressing the wheel increases the loading and susceptibility to twisting or binding of the wheel in the cut and the possibility of kickback or wheel breakage.
  - ▶ **Do not position your hand in line with and behind the rotating wheel.** When the wheel, at the point of operation, is moving away from your hand, the possible kickback may propel the spinning wheel and the power tool directly at you.
  - ▶ **When wheel is binding or when interrupting a cut for any reason, switch off the power tool and hold the power tool motionless until the wheel comes to a complete stop. Never attempt to remove the cut-off wheel from the cut while the wheel is in motion otherwise kickback may occur.** Investigate and take corrective action to eliminate the cause of wheel binding.
  - ▶ **Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully reenter the cut.** The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.
  - ▶ **Support panels or any oversized workpiece to minimize the risk of wheel pinching and kickback.** Large workpieces tend to sag under their own weight. Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.

- ▶ **Use extra caution when making a “pocket cut” into existing walls or other blind areas.** The protruding wheel may cut gas or water pipes, electrical wiring or objects that can cause kickback.

#### Safety warnings specific for polishing operations (GGS 8 CE)

- ▶ **Do not allow any loose portion of the polishing bonnet or its attachment strings to spin freely. Tuck away or trim any loose attachment strings.** Loose and spinning attachment strings can entangle your fingers or snag on the workpiece.

#### Safety warnings specific for wire brushing operations (GGS 8 CE)

- ▶ **Be aware that wire bristles are thrown by the brush even during ordinary operation. Do not overstress the wires by applying excessive load to the brush.** The wire bristles can easily penetrate light clothing and/or skin.
- ▶ **Allow brushes to run at operating speed for at least one minute before using them. During this time no one is to stand in front or in line with the brush.** Loose bristles or wires will be discharged during the run-in time.
- ▶ **Direct the discharge of the spinning wire brush away from you.** Small particles and tiny wire fragments may be discharged at high velocity during the use of these brushes and may become imbedded in your skin.

#### Additional safety warnings



**Wear safety goggles.**

- ▶ **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.

- ▶ **Release the On/Off switch and set it to the off position when the power supply is interrupted, e. g., in case of a power failure or when the mains plug is pulled.** This prevents uncontrolled restarting.

- ▶ **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more secure than by hand.

**Products sold in GB only:** Your product is fitted with an BS 1363/A approved electric plug with internal fuse (ASTA approved to BS 1362).

If the plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place by an authorised customer service agent. The replacement plug should have the same fuse rating as the original plug.

The severed plug must be disposed of to avoid a possible shock hazard and should never be inserted into a mains socket elsewhere.

**Products sold in AUS and NZ only:** Use a residual current device (RCD) with a rated residual current of 30 mA or less.

## Product Description and Specifications



**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 designed for grinding and deburring metal using corundum grinding tools, as well as for working with sanding wheels.

GGS 8 CE: The machine is additionally intended for brushing and polishing metal.

## 20 | English

**Product Features**

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

- 1 Collet chuck
- 2 Clamping nut
- 3 Grinder spindle
- 4 Spindle collar

- 5 On/Off switch
  - 6 Thumbwheel for speed preselection (GGS 8 CE/GGS 28 CE/GGS 28 LCE)
  - 7 Handle (insulated gripping surface)
  - 8 Open-end spanner on the grinder spindle\*
  - 9 Open-end spanner applied to clamping nut\*
- \*Accessories shown or described are not part of the standard delivery scope of the product. A complete overview of accessories can be found in our accessories program.

**Noise/Vibration Information**

Measured sound values determined according to EN 60745.

GGS ... Professional		28 C 28 CE	28 LC 28 LCE	8 CE
Typically the A-weighted noise levels of the product are				
Sound pressure level	dB(A)	78	77	82
Sound power level	dB(A)	89	88	93
Uncertainty K=	dB	3	3	3
<b>Wear hearing protection!</b>				
Vibration total values (triax vector sum) determined according to EN 60745:				
Surface grinding (with wheel diameter of 25 mm):				
Vibrational emission value $a_h$	$m/s^2$	3	6	≤2.5
Uncertainty K=	$m/s^2$	1.5	1.5	1.5
Vibration total values (triax vector sum) determined according to EN 60745:				
Surface grinding (with wheel diameter of 50 mm (max.):				
Vibrational emission value $a_h$	$m/s^2$	8	14	≤2.5
Uncertainty K=	$m/s^2$	1.5	1.5	1.5

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.

**Technical Data**

Straight grinder	GG5 ... Professional	8 CE	28 C	28 CE	28 LC	28 LCE
Article number	3 601 ...	B22 1..	B20 0..	B20 1..	B21 0..	B21 1..
Rated power input	W	750	600	650	650	650
Output power	W	420	350	380	380	380
Rated speed	min <sup>-1</sup>	8000	28000	28000	28000	28000
Speed control adjustment	min <sup>-1</sup>	2500 -8000	-	10000 -28000	-	10000 -28000
Collet chuck diameter, max.	mm	8	8	8	8	8
Spanner size of						
– clamping nut	mm	19	19	19	19	19
– grinder spindle	mm	13	19	19	13	13
Spindle collar dia.	mm	43	43	43	43	43
Grinding tool diameter, max.	mm	50	50	50	50	50
Polishing tool diameter, max.	mm	80	-	-	-	-
Constant electronic control		●	●	●	●	●
Speed preselection		●	-	●	-	●
Weight according to EPTA-Procedure 01/2003	kg	1.7	1.4	1.4	1.6	1.6
Protection class		□/II	□/II	□/II	□/II	□/II

The values given are valid for a nominal voltage [U] of 230 V. For different voltages 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.

**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, 2006/42/EC.

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25.11.2010

## Assembly

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

### Mounting the Grinding Tools (see figure A)

- ▶ **Only use properly fitting and undamaged open-end spanners (see "Technical Data").**
  - Clean the grinder spindle **3** and all parts to be mounted.
  - Hold the grinder spindle **3** with open-end spanner **8** by the spanner flats. Loosen the clamping nut **2** with open-end spanner **9** by applying it to the spanner flats and turning in anticlockwise direction.
  - Insert the clamping shaft of the grinding tool to the stop into the collet chuck **1**.
  - Hold the grinder spindle **3** firmly with open-end spanner **8** and clamp the tool bit with open-end spanner **9** by the spanner flats, turning in clockwise direction.

The grinding tools must run completely concentric. Do not continue to use out-of-round grinding accessories, instead, replace before continuing to work.

- ▶ **Do not tighten the collet chuck of the clamping nut as long as no grinding accessory is mounted.** Otherwise, the collet chuck can become damaged.

### Dust/Chip Extraction

- ▶ Dusts from materials such as lead-containing coatings, some wood types, minerals and metal can be harmful to one's health. Touching or breathing-in the dusts can cause allergic reactions and/or lead to respiratory infections of the user or bystanders. Certain dusts, such as oak or beech dust, are considered as carcinogenic, especially in connection with wood-treatment additives (chromate, wood preservative). Materials containing asbestos may only be worked by specialists.

- Provide for good ventilation of the working place.
- It is recommended to wear a P2 filter-class respirator.

Observe the relevant regulations in your country for the materials to be worked.

- ▶ **Prevent dust accumulation at the work-place.** Dusts can easily ignite.

## 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.**

### Switching On and Off

To **start** the power tool, push the On/Off switch **5** forwards.

To **lock** the On/Off switch **5**, press the On/Off switch **5** down at the front until it latches.

To **switch off** the power tool, release the On/Off switch **5** or, if it is locked, briefly push down the back of the On/Off switch **5** and then release it.

### Kickback stop

In case of a sudden drop in speed, e.g., caused by a jammed disc while cutting, the power supply to the motor is electronically interrupted.

To **restart the operation**, switch the On/Off switch **5** to the Off position and start the machine again.

### Constant Electronic Control

Constant electronic control holds the speed constant at no-load and under load, and ensures uniform working performance.

### Speed preselection (GG5 8 CE/GG5 28 CE/GG5 28 LCE)

The required speed can be preselected with the thumbwheel **6** (also while running).

The required speed depends on the material being worked and the diameter of the application tool. Observe the maximal allowable speed of the application tool.

Thumbwheel Position	No-load speed (min <sup>-1</sup> )	
	GG5 28 CE	GG5 8 CE
1	10000	2500
2	12700	3600
3	16700	4600
4	19700	5700
5	23500	6800
6	28000	8000

### Working Advice

Optimum grinding results are achieved when the grinding tool is moved uniformly back and forth with light pressure. Pressure that is too strong reduces the performance capability of the machine and causes the grinding tool to wear more quickly.

## 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.**
- ▶ **In extreme conditions, always use dust extraction as far as possible. Blow out ventilation slots frequently and install a residual current device (RCD).** When working metals, conductive dust can settle in the interior of the power tool. The total insulation of the power tool can be impaired.

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.

### 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](http://www.bosch-pt.com)**

Our customer service representatives can answer your questions concerning possible applications and adjustment of products and accessories.

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### Disposal

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

Do not dispose of power tools into household waste!

#### Only for EC countries:



According to 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.**