BOSCH

Professional HEAVY DUTY

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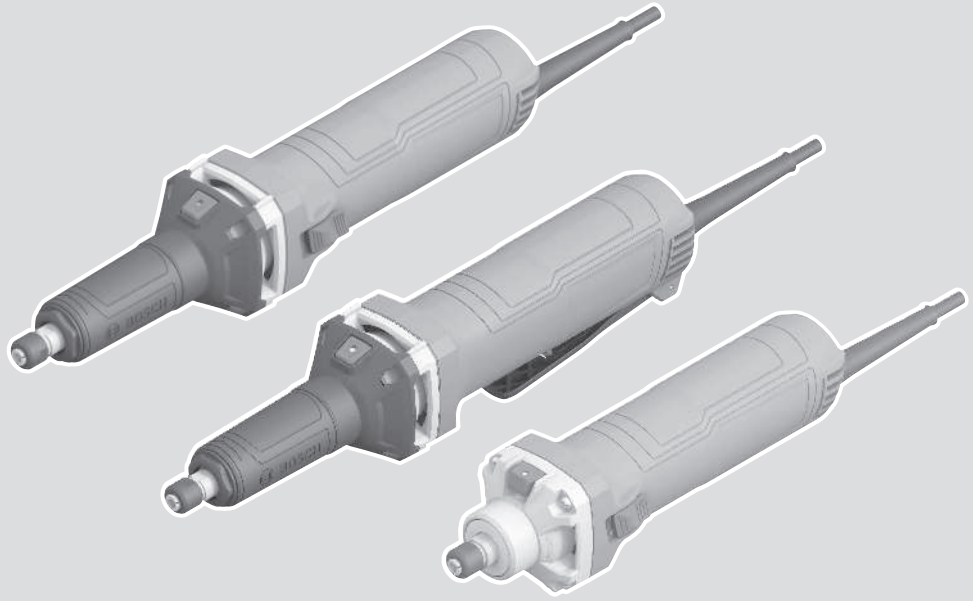

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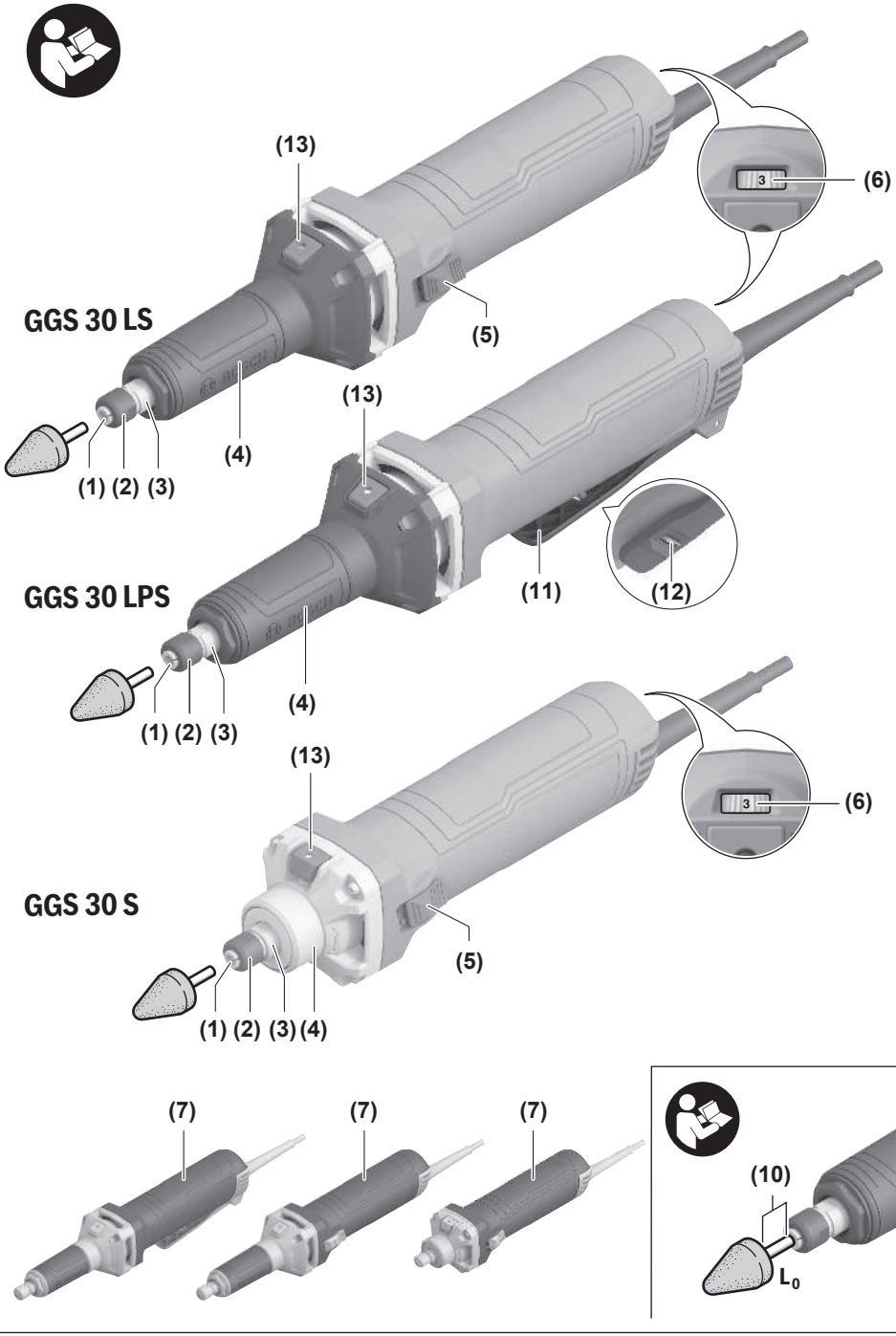
en Original instructions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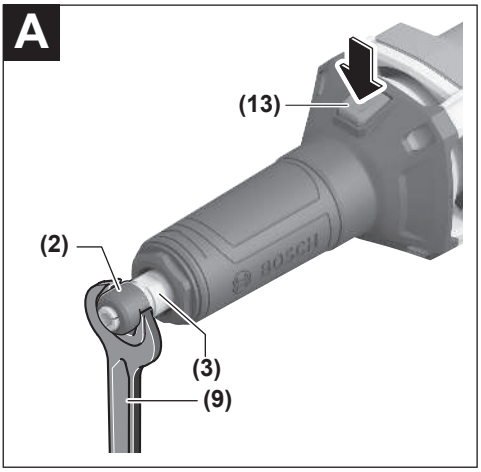
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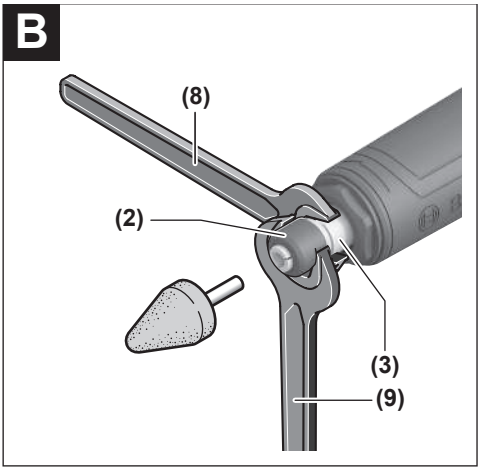
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English

Safety Instructions

General Power Tool Safety Warnings

⚠ WARNING **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.

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.

Work area safety

- **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- **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.
- **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

Electrical safety

- **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.
- **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.
- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- **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.
- **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.
- **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.

Personal safety

- **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.
- **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- **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.
- **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.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- **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.
- **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

Power tool use and care

- **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.
- **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.
- **Disconnect the plug from the power source and/or remove the battery pack, if detachable, 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.
- **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.
- **Maintain power tools and accessories. 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.

- ▶ **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- ▶ **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.
- ▶ **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

Service

- ▶ **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 instructions for all operations

Safety warnings common for grinding, sanding or carving:

- ▶ **This power tool is intended to function as a grinder, sander or carving tool. 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.
- ▶ **Operations such as wire brushing, polishing or cutting-off are not recommended to be performed with this power tool.** Operations for which the power tool was not designed may create a hazard and cause personal 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 grinding accessories must be at least equal to the maximum speed marked on the power tool.** Grinding 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 drums 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.** If the mandrel is insufficiently held and/or the overhang of the wheel is too long, the mounted wheel may become loose and be 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 the 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 in your hand(s) 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 your hand(s) 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, 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, sanding band, 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.

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 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 rotary files, 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 the rotary file, high-speed cutter or tungsten carbide cutter grab, it may jump from the groove and you could lose control of the tool.

Safety warnings specific for grinding and abrasive cutting-off operations

- ▶ **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" a 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 snagging 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 pinched, snagged 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 pinching or snagging.
- ▶ **Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully re-enter 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.

Additional safety information

Wear safety goggles.

Wear hearing protection. Exposure to noise can cause hearing loss.

- ▶ **Do not touch grinding discs until they have cooled down.** The discs can become very hot while working.
- ▶ **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.
- ▶ **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
- ▶ **Hold the power tool firmly with both hands and make sure you have a stable footing.** The power tool can be more securely guided with both hands.

- ▶ **This power tool is not suitable for bench-mounted use.** It must not be clamped into a vice or fastened to a workbench, for example.
- ▶ **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.

Product Description and Specifications

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

Please observe the illustrations at the beginning of this operating manual.

Intended Use

The power tool is intended for grinding and deburring metal with corundum grinding tools, as well as for working with sanding belt tools, sanding with sanding discs and carving.

Product Features

The numbering of the product features refers to the diagram of the power tool on the graphics page.

(1) Collet
(2) Clamping nut
(3) Grinding spindle
(4) Spindle collar (insulated gripping surface)
(5) On/off switch (GGS 30 LS / GGS 30 S)
(6) Speed preselection thumbwheel
(7) Handle (insulated gripping surface)
(8) Open-ended spanner on the grinding spindle[a)]
(9) Open-ended spanner on the clamping nut[a)]
(10) Inner shank dimension L_0
(11) On/off switch (GGS 30 LPS)
(12) Lock-off function for on/off switch (GGS 30 LPS)
(13) Spindle lock

a) **This accessory is not part of the standard scope of delivery.**

Technical Data

Die grinder		GGS 30 LS	GGS 30 LPS	GGS 30 S
Article number		**3 601 BB5 0..**	**3 601 BB5 2..**	**3 601 BB5 1..**
Rated power input	W	750	750	750
Power output	W	400	400	400
Rated speed	min^{-1}	33000	33000	33000
Speed adjustment range	min^{-1}	7000–33000	7000–33000	7000–33000
Max. collet diameter	mm	8	8	8
Spanner flat on the				
– Clamping nut	mm	17	17	17
– Grinding spindle	mm	15	15	17
Spindle collar diameter	mm	43	43	43
Max. grinding tool diameter	mm	50	50	45
Max. inner shank dimension L_0	mm	10	10	10
Max. shank length	mm	35	35	35
Constant electronic control		●	●	●
Speed preselection		●	●	●
KickBack Control		●	●	●
Restart protection		●	●	●
Soft start		●	●	●
Weight[A)]	kg	1.7	1.8	1.5

Die grinder	GGS 30 LS	GGS 30 LPS	GGS 30 S
Protection class	⧈ / II	⧈ / II	⧈ / II

A) Without mains connection cable

The specifications apply to a rated voltage [U] of 230 V. These specifications may vary at different voltages and in country-specific models.

Values can vary depending on the product, scope of application and environmental conditions. To find out more, visit www.bosch-professional.com/wac.

Noise/Vibration Information

		GGS 30 LS	GGS 30 LPS	GGS 30 S
		3 601 BB5 0..	**3 601 BB5 2..**	**3 601 BB5 1..**
Noise emission values determined according to **EN IEC 62841-2-23**.				
Typically, the A-weighted noise level of the power tool is				
Sound pressure level	dB(A)	**83**	**83**	**82**
Sound power level	dB(A)	**91**	**91**	**90**
Uncertainty K	dB	**3.0**	**3.0**	**3.0**
Wear hearing protection!				
Vibration values a_h (continuous vibrations), p_F (repeated shock vibrations) and uncertainty K determined according to **EN IEC 62841-2-23**:				
Surface grinding (roughing with grinding tool diameter of 25 mm):				
a_h (K)	m/s^2 (m/s^2)	**5.3** (**1.5**)	**6.7** (**1.5**)	**2.7** (**1.5**)
p_F (K)	m/s^2 (m/s^2)	**186** (**32**)	**231** (**1**)	**96** (**6**)
Surface grinding (roughing with grinding tool diameter of 50 mm):				
a_h (K)	m/s^2 (m/s^2)	**19.4** (**1.5**)	**14.4** (**1.5**)	–
p_F (K)	m/s^2 (m/s^2)	**1045** (**181**)	**669** (**9**)	–

The vibration level and noise emission value given in these instructions have been measured in accordance with a standardised measuring procedure and can be used to compare power tools. They can also be used for a preliminary estimation of vibration and noise emissions.

The stated vibration level and noise emission value represent the main applications of the power tool. However, if the power tool is used for other applications, with different accessories or is poorly maintained, the vibration level and noise emission value can differ. This can significantly increase the vibration and noise emissions over the total working period.

To estimate vibration and noise emissions accurately, the times when the tool is switched off or when it is running but not actually being used should also be taken into account. This can significantly reduce vibration and noise emissions over the total working period.

Implement additional safety measures to protect the operator from the effects of vibration, such as servicing the power tool and accessories, keeping their hands warm, and organising workflows correctly.

Fitting

▶ **Pull the plug out of the socket before carrying out any work on the power tool.**

Fitting Abrasive Tools Using an Open-Ended Spanner and Spindle Lock (see figure A)

▶ **Only use open-ended spanners that are suitable and undamaged (see "Technical Data").**

– Clean the grinding spindle **(3)** and all the parts to be fitted.

– Press the spindle lock **(13)** and turn the clamping nut **(2)** by hand until locked.

– Press and hold the spindle lock and loosen the clamping nut **(2)** with the open-ended spanner **(9)** by turning it anticlockwise.

– Insert the straight shank of the grinding tool all the way into the collet **(1)**.

– Press the spindle lock **(13)** and tighten the application tool by placing the open-ended spanner **(9)** on the spanner flat and turning it clockwise.

The grinding tools must run completely concentrically. Do not continue to use damaged grinding tools that are out of balance. If the grinding tools are out of balance, they should be replaced.

▶ **Do not, under any circumstances, tighten the collet with the clamping nut until a grinding tool has been fitted.** The collet may otherwise become damaged.

▶ **Only use mounted points with an appropriate shank diameter.** A mounting point with a shank diameter which

does not correspond to the tool holder of the power tool (see "Technical data") cannot be held properly and will damage the collet chuck.

▶ **The application tool must be clamped at least 10 mm.** The inner shank dimension L_0 can be used to calculate the maximum permitted speed of the application tool from the specifications provided by the manufacturer of the application tool. It must not be less than the maximum speed of the power tool.

Fitting Abrasive Tools Using Two Open-Ended Spanners (see figure B)

▶ **Only use open-ended spanners that are suitable and undamaged (see "Technical Data").**

– Clean the grinding spindle **(3)** and all the parts to be fitted.

– Use an open-ended spanner **(8)** on the spanner flat of the grinder spindle **(3)** to hold it in place.
Loosen the clamping nut **(2)** by placing an open-ended spanner **(9)** on the spanner flat and turning it counterclockwise.

– Insert the straight shank of the grinding tool all the way into the collet **(1)**.

– Hold the grinding spindle **(3)** with the open-ended spanner **(8)** and tighten the application tool by placing the open-ended spanner **(9)** on the spanner flat and turning it clockwise.

The grinding tools must run completely concentrically. Do not continue to use damaged grinding tools that are out of balance. If the grinding tools are out of balance, they should be replaced.

▶ **Do not, under any circumstances, tighten the collet with the clamping nut until a grinding tool has been fitted.** The collet may otherwise become damaged.

▶ **Only use mounted points with an appropriate shank diameter.** A mounting point with a shank diameter which does not correspond to the tool holder of the power tool (see "Technical data") cannot be held properly and will damage the collet chuck.

▶ **The application tool must be clamped at least 10 mm.** The inner shank dimension L_0 can be used to calculate the maximum permitted speed of the application tool from the specifications provided by the manufacturer of the application tool. It must not be less than the maximum speed of the power tool.

Dust/Chip Extraction

Dust 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 dust can cause allergic reactions and/or lead to respiratory infections of the user or bystanders.

Certain dust, such as oak or beech dust, is considered 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.

▶ **Avoid dust accumulation at the workplace.** Dust can easily ignite.

Operation

Starting operation

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

▶ **Pay attention to the mains voltage.** The voltage of the power source must match the voltage specified on the rating plate of the power tool.

▶ **Check whether there is visible damage to the collet (1) and clamping nut (2) before each use.**

Switching On and Off

GGS 30 LS/GGS 30 S

To **start** the power tool, slide the on/off switch **(5)** forwards.

To **lock** the on/off switch **(5)** in position, push the on/off switch **(5)** forwards and down until it clicks into place.

To **switch off** the power tool, release the on/off switch **(5)**; or, if the switch is locked, briefly push the on/off switch **(5)** backwards and down and then release it.

Switching On and Off

GGS 30 LPS

To **start** the power tool, **first** slide the lock-off button **(12)** to the rear, **then** press and hold the on/off switch **(11)**.

To **switch off** the power tool, release the on/off switch **(11)**.

Constant Electronic control

The Constant Electronic keeps the speed at no load and under load virtually consistent, guaranteeing uniform performance.

Speed preselection

You can preselect the required speed using the speed preselection thumbwheel **(6)**, even during operation.

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.

GGS 30 LS/GGS 30 LPS

At maximum speed, the maximum permitted diameter of the accessory is 40 mm.

GGS 30 S

At maximum speed, the maximum permitted diameter of the accessory is 45 mm.

If you are using an accessory with a diameter of 50 mm, make sure that the speed is not greater than 30000 min^{-1}.

Thumbwheel position	No-load speed (min^{-1})
1	7000

Thumbwheel position	No-load speed (min^{-1})
2	9500
3	15000
4	19000
5	25000
6	33000

Kickback Control

If there is a sudden kickback in the power tool, e.g. jamming when carving, the power supply to the motor will be interrupted electronically. To **restart** the tool, set the on/off switch **(5)/(11)** to the "off" position and then switch the power tool on again.

Restart Protection

The restart protection feature prevents the power tool from uncontrolled starting after the power supply to it has been interrupted.
To **restart** the tool, set the on/off switch **(5)/(11)** to the "off" position and then switch the power tool on again.

Note: Rapidly switching the power tool off and on again may trigger the restart protection, meaning the power tool may not start up even if the on/off switch **(5)/(11)** is pressed. Set the on/off switch **(5)/(11)** to the off position and then switch the power tool on again.

Soft start

The electronic soft start limits the torque when the power tool is switched on and increases the service life of the motor.

Practical advice

- ▶ **Pull the plug out of the socket before carrying out any work on the power tool.**
- ▶ **Protect the grinding tools against impact.**
- ▶ **Do not load the power tool so heavily that it comes to a stop.**
- ▶ **If the power tool has been subjected to a heavy load, continue to run it at no-load for several minutes to cool down the accessory.**
- ▶ **Grinding tools can become very hot while working. Do not touch them until they have cooled down.**

Move the grinding tool evenly back and forth with light pressure to achieve an optimum work result. Pressure that is too strong reduces the performance capability of the power tool and causes the grinding tool to wear more quickly.

Maintenance and Service

Maintenance and Cleaning

- ▶ **Pull the plug out of the socket before carrying out any work on the power tool.**
- ▶ **To ensure safe and efficient operation, always keep the power tool and the ventilation slots clean.**
- ▶ **In extreme conditions, always use a dust extractor if possible. Blow out ventilation slots frequently and install a residual current device (RCD) upstream.** When machining metals, conductive dust can settle inside the power tool, which can affect its protective insulation.

Store and handle the accessories carefully.

In order to avoid safety hazards, if the power supply cord needs to be replaced, this must be done by **Bosch** or by an after-sales service centre that is authorised to repair **Bosch** power tools.

After-Sales Service and Application Service

Great Britain
Tel. Service: (0344) 7360109

GB Importer:
Robert Bosch Ltd.
Broadwater Park
North Orbital Road
Uxbridge
UB9 5HJ

You can find the link to our service addresses and warranty conditions on the last page.

In all correspondence and spare parts orders, please always include the 10-digit article number given on the nameplate of the product.

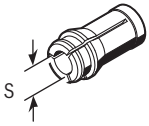
Disposal

The power tool, accessories and packaging should be recycled in an environmentally friendly manner.

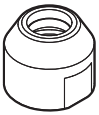
Do not dispose of power tools along with household waste.

Only for EU countries and United Kingdom:

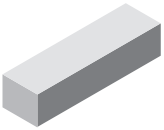
Electrical and electronic equipment that is no longer suitable for use must be collected separately and disposed of in an environmentally friendly manner. Use the designated collection systems.Incorrect disposal may cause harmful effects on the environment and human health, due to the potential presence of hazardous substances.



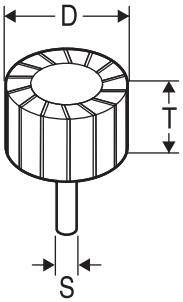
S	
3 mm	2 608 570 136
1/8"	2 608 570 139
6 mm	2 608 570 137
1/4"	2 608 570 140
8 mm	2 608 570 138



M15 2 608 570 141 (19 mm)

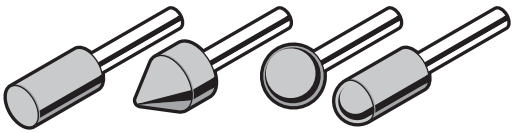


1 607 929 000



S	D	T	min^{-1}	
6 mm	15 mm	30 mm	36 000	2 608 620 035

blue:Metal top



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