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1 619 P09 071 (2010.06) O / 297 UNI



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GPO 14 CE Professional

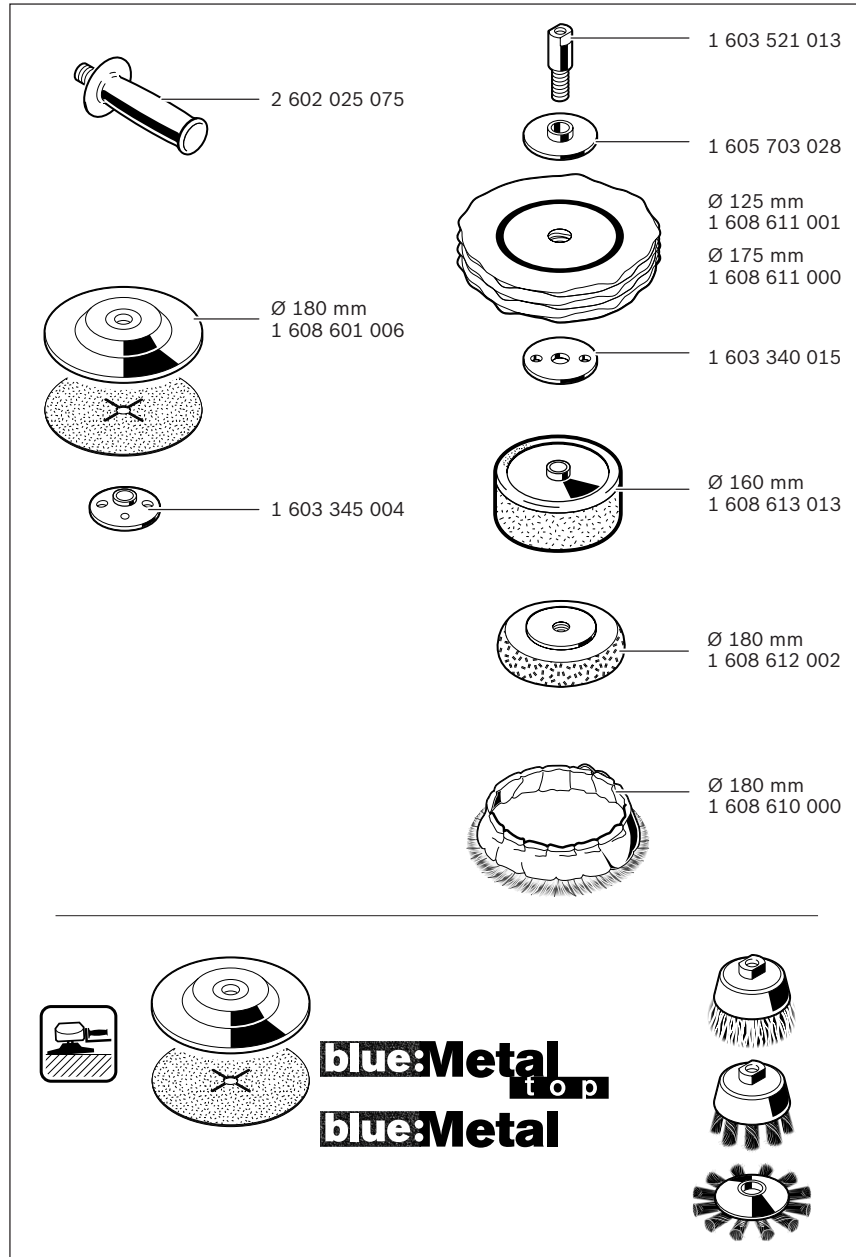


de Originalbetriebsanleitung
en Original instructions
fr Notice originale
es Manual original
pt Manual original
it Istruzioni originali
nl Oorspronkelijke
gebruiksaanwijzing
da Original brugsanvisning
sv Bruksanvisning i original
no Original driftsinstruks
fi Alkuperäiset ohjeet

el Πρωτότυπο οδηγίων χρήσης
tr Orijinal işletme talimatı
pl Instrukcja oryginalna
cs Původní návod k používání
sk Pôvodný návod na použitie
hu Eredeti használati utasítás
ru Оригинальное руководст-
во по эксплуатации
uk Оригінальна інструкція з
експлуатації
ro Instrucțiuni originale
bg Оригинална инструкция

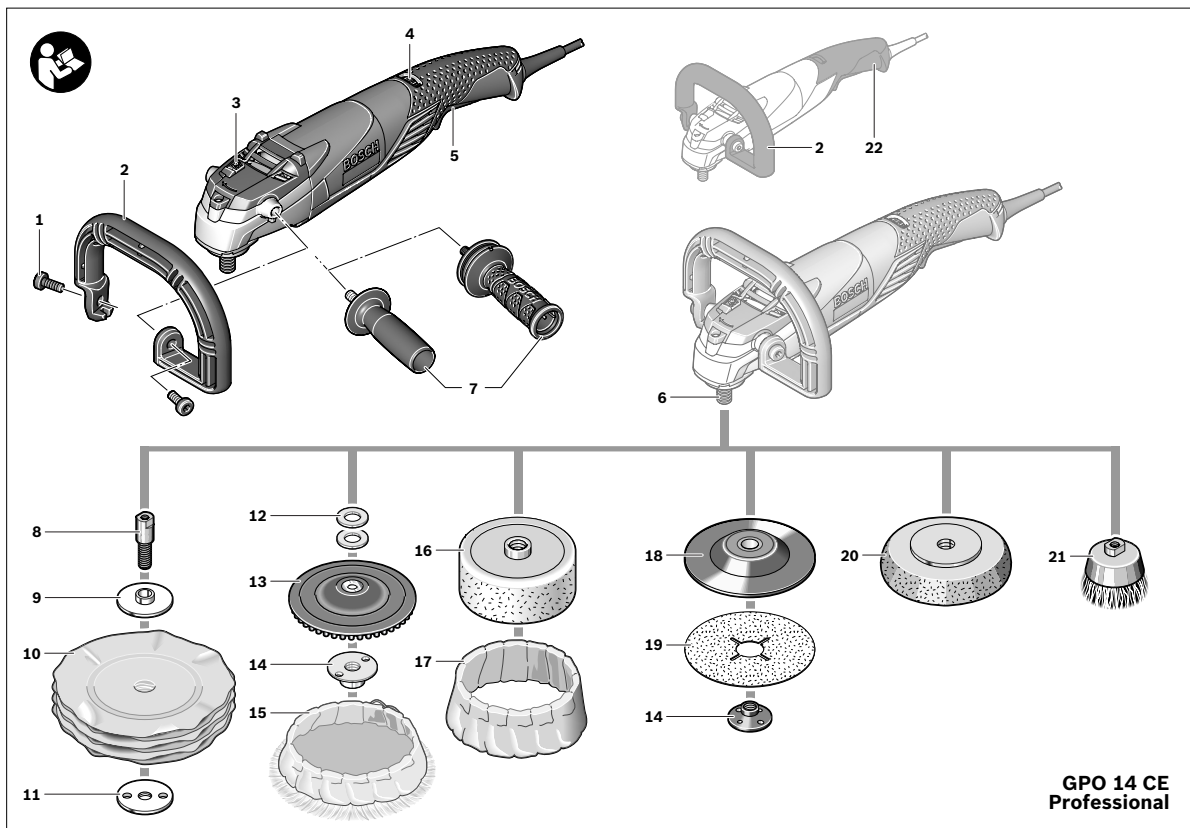
sr Originalno uputstvo za rad
sl Izvirna navodila
hr Originalne upute za rad
et Algupärane kasutusjuhend
lv Instrukcijas oriģinālvalodā
lt Originali instrukcija
ar تعليمات التشغيل الأصلية
fa راهنمای طرز کار اصلی





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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 Polishers

Safety warnings common for sanding with sanding discs, working with wire brushes and polishing

- ▶ **This power tool is intended to function as a sander, wire brush and polisher. 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 grinding 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 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 guarded or controlled.
- ▶ **The arbor size of wheels, flanges, backing pads or any other accessory must properly fit the spindle of the power tool.** Accessories with arbor holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.

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- ▶ **Do not use a damaged accessory.** Before each use inspect the accessory such as abrasive wheels for chips and cracks, backing pad 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 filtering 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 shock the operator.
- ▶ **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.
- ▶ **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. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up.** The operator can control torque reactions or kickback forces, if proper precautions are taken.
- ▶ **Never place your hand near the rotating accessory.** Accessory may kickback over your hand.
- ▶ **Do not position your body in the area where power tool will move if kickback occurs.** Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.
- ▶ **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 saw chain woodcarving blade or toothed saw blade.** Such blades create frequent kickback and loss of control over the power tool.

Safety warnings specific for sanding operations

- ▶ **Do not use excessively oversized sanding disc paper. Follow manufacturers recommendations, when selecting sanding paper.** Larger sanding paper extending beyond the sanding pad presents a laceration hazard and may cause snagging, tearing of the disc, or kickback.

Safety warnings specific for polishing operations

- ▶ **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

- ▶ **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.
- ▶ **If the use of a guard is recommended for wire brushing, do not allow any interference of the wire wheel or brush with the guard.** Wire wheel or brush may expand in diameter due to work load and centrifugal forces.

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.
- ▶ **When working stone, use dust extraction. The vacuum cleaner must be approved for the extraction of stone dust.** Using this equipment reduces dust-related hazards.
- ▶ **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.

- **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.

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.

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 polishing and brushing metal and coated surfaces as well as for polishing stone without the use of water.

Product Features

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

- 1 Fastening screw for bow handle
- 2 Bow handle (insulated gripping surface)
- 3 Spindle lock button
- 4 Thumbwheel for speed preselection
- 5 On/Off switch
- 6 Grinder spindle
- 7 Auxiliary handle (insulated gripping surface)*
- 8 Clamping mandrel*
- 9 Clamping flange*
- 10 Buffing disc*
- 11 Clamping nut*
- 12 Spacer discs*
- 13 Polishing plate*
- 14 Round nut*
- 15 Lamb's wool bonnet for polishing plate*
- 16 Polishing sponge*
- 17 Lambskin polishing bonnet for polishing sponge*
- 18 Rubber sanding plate*
- 19 Sanding sheet*
- 20 Felt polishing disc*
- 21 Cup brush*
- 22 Handle (insulated gripping surface)

***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.**

Technical Data

Polisher	GPO 14 CE Professional	
Article number		3 601 C89 0..
Rated power input	W	1400
Output power	W	800
Rated speed	min ⁻¹	3000
Speed control adjustment	min ⁻¹	750 – 3000
Sanding pad diameter, max.	mm	180
Thread of grinder spindle		M 14
Max. spindle length	mm	21
Weight according to EPTA-Procedure 01/2003	kg	2.5
Protection class		□/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.

Noise/Vibration Information

Measured sound values determined according to EN 60745.

Typically the A-weighted noise levels of the product are: Sound pressure level 91 dB(A); Sound power level 102 dB(A). Uncertainty K=3 dB.

Wear hearing protection!

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

Polishing: Vibration emission value $a_h = 6.0 \text{ m/s}^2$, Uncertainty K=1.5 m/s^2 .

Disk sanding: Vibration emission value $a_h = 4.5 \text{ m/s}^2$, Uncertainty K=1.5 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, 2006/42/EC.

Technical file at:
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27.05.2010

Assembly

Mounting the Protective Devices

- ▶ **Before any work on the machine itself, pull the mains plug.**
- ▶ **Operate your machine only with the auxiliary handle 7 or bow handle 2.**

Auxiliary Handle

Screw the auxiliary handle 7 on the right or left of the machine head depending on the working method.

Bow Handle

Fasten the bow handle 2 to the gear case as shown in the figure.

Mounting the Grinding Tools

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

Clean the grinder spindle 6 and all parts to be mounted.

For clamping and loosening the grinding tools, lock the grinder spindle with the spindle lock button 3.

- ▶ **Actuate the spindle lock button only when the grinder spindle is at a standstill.** Otherwise, the machine may become damaged.

See graphics page for the mounting sequence.

Buffing Disc

Screw the clamping mandrel 8 firmly onto grinder spindle 6 and tighten it via the spanner surfaces with an open-end spanner.

Mount the clamping flange 9 and the buffing disc 10 onto the clamping mandrel 8. Screw on the clamping nut 11 and tighten with the two-pin spanner.

Polishing Plate

Mount the two spacer discs 12 and the polishing plate 13 onto the spindle 6.

Screw on the round nut 14 and tighten with the two-pin spanner.

Pull the lamb's wool bonnet 15 over the polishing plate 13 and tighten the attachment strings.

Polishing Sponge

Screw the polishing sponge 16 firmly onto the grinder spindle 6. The lambskin polishing bonnet 17 can be pulled over the polishing sponge 16.

Rubber Sanding Plate

Place the rubber sanding plate 18 onto the grinder spindle 6.

Screw on the round nut 14 and tighten with the two-pin spanner.

Firmly press the sanding sheet 19 onto the bottom side of the rubber sanding plate 18.

Felt Polishing Disc

Firmly screw the felt polishing disc 20 onto the grinder spindle 6.

Cup Brush/Disc Brush



The cup brush/disc brush must be able to be screwed onto the grinder spindle until it rests firmly against the grinder spindle flange at the end of the grinder spindle threads. Tighten the cup brush/disc brush with an open-end spanner.

Approved Grinding Tools

All grinding tools mentioned in these operating instructions can be used.

The permissible speed [min^{-1}] or the circumferential speed [m/s] of the grinding tools used must at least match the values given in the table.

Therefore, observe the permissible **rotation-
al/circumferential speed** on the label of the grinding tool.

	max. [mm]				
	D	b	d	[min^{-1}]	[m/s]
	180	-	-	3000	80
	100	30	M 14	3000	45

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, press the On/Off switch 5 forward and then down.

To **lock-on** the pressed On/Off switch 5, push the On/Off switch 5 further forward.

To **switch off** the power tool, release the On/Off switch 5, or when it is locked, briefly press the On/Off switch 5 and then release it.

- **Check grinding tools before using. The grinding tool must be mounted properly and be able to move freely. Carry out a test run for at least one minute with no load. Do not use damaged, out-of-centre or vibrating grinding tools.** Damaged grinding tools can burst and cause injuries.

Speed preselection

The required speed can be preselected with the thumbwheel 4 (also while running).

The required speed depends on the material and the working conditions and can be determined through practical testing.

Thumbwheel 4	No-load speed (min^{-1})
1	750
2	1200
3	1600
4	2000
5	2400
6	3000

Constant Electronic Control

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

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Working Advice

- ▶ **Clamp the workpiece if it does not remain stationary due to its own weight.**
- ▶ **Do not strain the machine so heavily that it comes to a standstill.**
- ▶ **After heavily straining the power tool, continue to run it at no-load for several minutes to cool down the accessory.**

For sanding applications on soft materials, e. g., gypsum or paint, it is recommended to use the rubber sanding plate **18** with sanding sheet **19**. Cup brushes **21** and wheel brushes are suitable for rust removal.

Polishing

For the polishing of weathered paint or buffing out scratches (e.g., acrylic glass), the machine can be equipped with appropriate polishing accessories such as lamb's wool bonnet, polishing felt or sponge (accessories).

Select a low speed for polishing (stage 1 – 2) in order to avoid excessive heating of the surface. Apply polishing agent crosswise or in a circular motion with a polishing sponge and moderate pressure, and then allow it to dry lightly.

Polish the partially dried polishing agent with crosswise or circular motions using a lamb's wool polishing bonnet.

Clean the polishing accessories regularly to ensure good polishing results. Wash out polishing accessories with a mild detergent and warm water; do not use paint thinner.

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.

Please store and handle the accessory(-ies) carefully.

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

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.