



Professional GEX 125

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en Original instructions





<https://eu-doc.bosch.com/>



<https://gb-doc.bosch.com/>







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 inatten-

tion 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 Warnings for Sander

- ▶ **Only use the power tool for dry sanding.** Water entering a power tool will increase the risk of electric shock.
- ▶ **Ensure that no persons are at risk due to flying sparks. Remove combustible materials from the surrounding area.** Flying sparks are created when sanding metals.
- ▶ **Warning: Danger of fire! Avoid overheating the workpiece and the sander. Always empty the dust collector before taking a break from work.** Sanding dust in the dust bag, microfilter, paper bag (or in the filter bag or vacuum cleaner filter) can spontaneously combust under certain conditions, for example if flying sparks are created when sanding metals. This risk is increased if the sanding dust is mixed with paint or polyurethane residue or with other chemical substances and if the workpiece is hot as a result of prolonged work.
- ▶ **Clean the air vents on your power tool regularly.** The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
- ▶ **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.
- ▶ **Always wait until the power tool has come to a complete stop before placing it down.**
- ▶ **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more secure than by hand.

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 dry sanding of wood, plastic, artificial wood, metal, filler and varnished surfaces.

Product Features

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

- (1) On/off switch
- (2) Orbital stroke rate preselection thumbwheel
- (3) Sanding pad
- (4) Complete dust bag
- (5) Handle (insulated gripping surface)
- (6) Sanding sheet^{a)}
- (7) Screws for sanding pad
- (8) Sanding pad holder
- (9) Extraction outlet
- (10) Extraction hose^{a)}

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

Technical Data

Random orbit sander		GEX 125
Article number		3 601 CA8 0..
Orbital stroke rate preselection		●
Rated power input	W	290
No-load speed n_0	min ⁻¹	7500–12000
No-load orbital stroke rate	min ⁻¹	15000–24000
Orbit diameter	mm	2.6
Sanding pad diameter	mm	125
Weight ^{A)}	kg	1.4
Protection class		□/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

Noise emission values determined according to **EN 62841-2-4**.

Typically, the A-weighted noise level of the power tool is: Sound pressure level **81 dB(A)**; sound power level **89 dB(A)**. Uncertainty K = **3 dB**.

Wear hearing protection!

Vibration values a_h (continuous vibrations), p_f (repeated shock vibrations) and uncertainty K determined according to **EN 62841-2-4**:

$a_h = 3.1 \text{ m/s}^2$ ($K = 1.5 \text{ m/s}^2$), $p_f = 95 \text{ m/s}^2$ ($K = 13 \text{ m/s}^2$)

The vibration level and noise emission value given in these instructions have been measured in accordance with a standardised measuring procedure and may be used to compare power tools. They may 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 may differ. This may 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 may 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.

Assembly

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

Selecting the Sanding Sheet

Different sanding sheets are available, depending on the material you are working with and the required surface removal rate:

	Material	Application	Grit	
best for Paint	– Paint – Varnish	For sanding down paint	Coarse	40
				60
	– Filler – Bodyfiller	For sanding undercoats (e.g. removing brush-strokes, paint drips and paint runs)	Medium	80
				100
				120
	For final sanding of primers prior to painting	Fine	180	
240				
320				
400				
expert for Wood best for Wood	Expert for Wood – All wood and wood-based materials (e.g. hardwood, softwood, chipboard, construction boards)	For pre-sanding, e.g. of rough and uneven beams and boards	Coarse	40
				60
	Best for Wood – Hardwood – Chipboard – Construction boards – Metal materials	For surface sanding and levelling of slight irregularities	Medium	80
				100
				120
				180
For finish-sanding and fine sanding of wood	Fine	240		
		320		
		400		
best for Stone	– Car paint – Stone – Marble	For pre-sanding	Coarse	80
				100
	– Granite – Ceramic – Glass – Perspex	For shaping and edge chamfering	Medium	120
				180
				240
	– Fibreglass reinforced plastics	For fine sanding during shaping	Fine	320
400				
600				
Buffing and edge rounding	Very fine	1200		

Changing the sanding sheet (see figure A)

To remove the sanding sheet (6), lift it from the side and pull it from the sanding pad (3).

Remove dirt and dust from the sanding pad (3), e.g. with a paintbrush, before attaching a new sanding sheet.

The surface of the sanding pad (3) is fitted with a hook-and-loop fastening, allowing sanding sheets with a hook-and-loop backing to be secured quickly and easily.

Press the sanding sheet (6) firmly onto the underside of the sanding pad (3).

To ensure optimum dust extraction, make sure that the punched holes in the sanding sheet (6) are aligned with the drilled holes in the sanding pad (3).

Selection of the Sanding Pad

The power tool can be fitted with sanding pad of various hardnesses, depending on the application:

- Soft sanding pad: Suitable for sensitive sanding even on curved surfaces
- Medium-hard sanding pad: Suitable for all sanding work, universal application
- Hard sanding pad: Suitable for heavy sanding on flat surfaces

Changing the Sanding Pad (see figure B)

Note: Replace damaged sanding pads (3) immediately.

Pull off the sanding sheet. Unscrew the four screws completely (7) and remove the sanding pad (3). Attach the new sanding pad (3) and retighten the screws.

Note: When attaching the sanding pad, make sure that the teeth of the catch mate with the recesses in the sanding pad.

Note: Damaged sanding pad holders (8) must only be replaced by an after-sales service centre authorised to work with **Bosch** power tools.

Dust/Chip Extraction

Do not perform work without taking dust-reducing measures. Using a suitable dust extraction attachment will reduce exposure to harmful dust. Provide good ventilation at the workplace. Always use suitable breathing protection. Use a dust extraction system that is suitable for the material wherever possible. The regulations on the materials being machined that apply in the country of use must be observed.

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

Requirements for the Dust Extractor		
Recommended hose nominal diameter	mm	35
Required vacuum pressure ^{A)}	mbar	≥ 230
	hPa	≥ 230
Required flow rate ^{A)}	l/s	≥ 36
	m ³ /h	≥ 129.6

Requirements for the Dust Extractor

Recommended filter efficiency Dust class M^{B)}

- A) Power value at the power tool's dust extractor connection
- B) According to IEC/EN 60335-2-69

Refer to the dust extractor's instructions. If there is reduced suction power, stop working and eliminate the cause.

Self-generated dust extraction with dust bag (see figures C–G)

To empty the dust bag, pull the complete dust bag (4) away from the extraction outlet (9).

Unscrew the cap of the dust bag. Empty the dust bag and screw the cap back on.

Place and move the complete dust bag (4) onto the extraction outlet (9) until it lines up precisely with the power tool.

Note: Empty the dust bag (4) in good time to ensure optimum dust extraction.

When working vertical surfaces, hold the power tool in such a manner that the dust bag (4) faces downward.

External dust extraction (see figure H)

Fit a dust extraction hose (10) onto the extraction outlet (9).

Connect the dust extraction hose (10) to an extractor. You will find an overview of connecting to various dust extractors at the end of these operating instructions.

The dust extractor must be suitable for the material being worked.

When extracting dry dust that is especially detrimental to health or carcinogenic, use a special dust extractor.

When working on vertical surfaces, hold the power tool with the dust extraction hose facing downwards.

Operation

Starting Operation

- ▶ **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.
- ▶ **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.

Switching On/Off

- ▶ **Make sure that you are able to press the On/Off switch without releasing the handle.**

To **switch on** the power tool, tilt the on/off switch (1) toward the right to the "I" position.

To **switch off** the power tool, tilt the on/off switch (1) toward the left to the "O" position.

Preselecting the orbital stroke rate

You can even preselect the orbital stroke rate during operation using the necessary orbital stroke rate preselection thumbwheel (2).

- 1–2 Low orbital stroke rate
- 3–4 Medium orbital stroke rate

5–6 High orbital stroke rate

The required orbital stroke rate is dependent on the material and the work conditions and can be determined using practical tests.

After working at a low orbital stroke rate for an extended period, you should operate the power tool at the maximum orbital stroke rate for approximately three minutes without load to cool it down.

Sanding Plate Brake

An integrated sanding pad brake reduces the orbital stroke rate when running without load to prevent scoring when the power tool is placed on the workpiece.

If the no-load orbital stroke rate constantly increases over time, this means that the sanding pad is damaged and must be replaced, or that the sanding pad brake is worn. A worn sanding pad brake must be replaced by an after-sales service centre authorised to work with Bosch power tools.

Working Advice

- ▶ **Pull the plug out of the socket before carrying out any work on the power tool.**
- ▶ **Always wait until the power tool has come to a complete stop before placing it down.**
- ▶ **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.

Hold the power tool from above during work (as shown in the figure 1).

Sanding Surfaces

Switch the power tool on, place the entire sanding surface against the surface of the workpiece and apply moderate pressure as you move the sander over the workpiece.

The material removal rate and sanding finish are primarily determined by the choice of sanding sheet, the preselected orbital stroke rate level and the contact pressure.

Only immaculate sanding sheets achieve good sanding performance and make the power tool last longer.

Be sure to apply consistent contact pressure in order to increase the lifetime of the sanding sheets.

Excessively increasing the contact pressure will not lead to increased sanding performance; rather, it will cause more severe wear of the power tool and premature failure of the sanding plate.

Do not use a sanding sheet for other materials after it has been used to work on metal.

Use only original **Bosch**-sanding accessories.

Rough Sanding

Attach a coarse grit sanding sheet.

Apply only light pressure to the power tool so that it runs at a higher orbital stroke rate and a higher material removal rate is achieved.

Fine Sanding

Attach a fine grit sanding sheet.

You can reduce the sanding plate orbital stroke rate by lightly varying the contact pressure or changing the orbital stroke rate level; the random orbit motion will be retained.

Move the power tool with moderate pressure flat on the workpiece in a circular motion or alternately along and across it. Do not tilt the power tool in order to avoid sanding through the workpiece, e.g. veneers.

Switch the power tool off after completing operation.

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 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

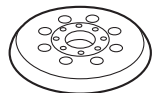
The power tool, accessories and packaging should be recycled in an environmentally friendly manner.



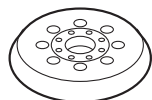
Do not dispose of power tools along with household waste.

Only for EU countries and United Kingdom:

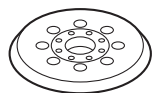
Electrical and electronic equipment that is no longer suitable for use must be collected separately and disposed of in an environmentally friendly manner. Use the designated collection systems. Incorrect disposal may cause harmful effects on the environment and human health, due to the potential presence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



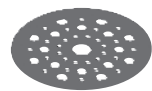
2 608 000 714 (medium)
1 619 PB8 582 (medium)
1 600 A01 CU1 (medium)



2 608 000 351 (soft)



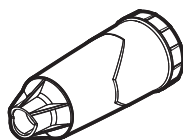
2 608 000 352 (hard)



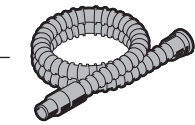
2 608 000 689 (pad saver)



1 619 PC1 337



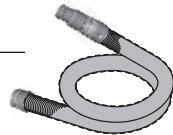
2 605 411 233



Ø 28 mm:
2 608 000 772 (3.2 m)



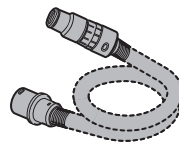
GAS 18V-12 MC



Ø 28 mm:
2 608 000 885 (4 m)



GAS 12-40 MA



Ø 22 mm:
2 608 000 567 (5 m)
Ø 35 mm:
2 608 000 565 (5 m)



GAS 35 M AFC



GAS 55 M AFC



Ø 22 mm:
2 608 000 568 (5 m)
Ø 35 mm:
2 608 000 566 (5 m)

Servicekontakte
Service Contacts
Contacts de Service
Contactos de Servicio



<https://www.bosch-pt.com/serviceaddresses>

Garantiebedingungen
Guarantee Conditions
Conditions de Garantie
Condiciones de Garantía



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