



说明书材质要求：105g 有光铜版纸	说明书成品尺寸：105*143mm
第一：专色用6级防晒油墨+CMYK油墨要求： 1.PANTONE137C专色油墨（专色用6级防晒油墨）： 如果自己配色，油墨配比为：酒联中黄（防晒）2000g 酒联金红（防晒）225g 2.C色油墨：酒联天蓝墨 3.M色油墨：酒联金红墨 4.Y色油墨：pantone123C专色油墨 5.K色油墨：酒联黑墨	第二：特别注意： 1.印刷时看样请参考我司提供的实物样品颜色。不得偏色 2.137C的专色不得参考C=0,M=35,Y=90,K=0对应的四色 色谱颜色来看样印刷 Pantone 137C Black（两色印刷）
折叠方式：风琴折（20P以下用风琴折） 特殊情况：16P/20P：风琴折 + 对折	备注：

特别注意：此页内容不印刷

风琴折 + 对折 页面顺序

16P 页面顺序

9	10	11	封面
12	13	14	封底

1	2	3	4
5	6	7	8

20P 页面顺序

11	12	13	14	封面
15	16	17	18	封底

1	2	3	4	5
6	7	8	9	10

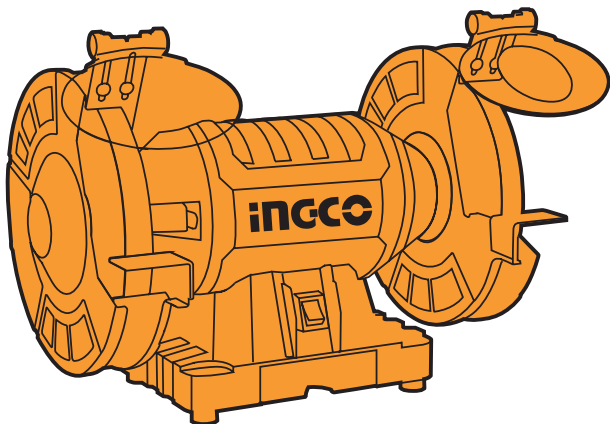
更改记录	1. 加 BG83502-5P			1. 封面加 BG83502-5P			1. 更新安规，增加-9货号		
	0524.V12	2024.5.10	xi	0924.V13	2024.9.10	LY	0826.V14	2026.8.5	LYD
	版本号	日期	设计师	版本号	日期	设计师	版本号	日期	设计师

INGCO

www.ingco.com

**PRODUCT
MANUAL**

BENCH GRINDER



BG83502 BG83502xy

UBG83502 UBG83502xy

x(blank,1,2,3,4,5,6,7,8,9,E,S,A,M,P)

y(blank,-1,-2,-3,-4,-5,-6,-7,-8,-9,E,S,A,M,P)



SCAN FOR VIDEO

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.

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 or 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 a 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 and clothing 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.*
- h) **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.*

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 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.*
- 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 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.*

- 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.*
- h) **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.*

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.*

THE SYMBOLS IN INSTRUCTION MANUAL

	Read the instruction manual before using.
	CE conformity.
	Safety alert. Please only use the accessories supported by the manufacturer.
	Wear safety glasses, hearing protection and dust mask.
	Always wear eye protection
	Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

ADDITIONAL SAFETY WARNINGS

Bench grinder safety warnings

- a) **Do not use a damaged accessory.** Before each use, inspect the accessory such as abrasive wheels for chips and cracks. 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.*
- b) **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.*
- c) **Never grind on the sides of a grinding wheel.** *Grinding on the side can cause the wheel to break and fly apart.*
- d) **Always use the manufacturer-supplied guards, work rests, and spark deflectors.** *Modifying or removing them increases the risk of injury from flying debris.*
- e) **Maintain the work rest gap at ≤ 2 mm and adjust as the wheel wears.** *A larger gap may jam the workpiece and cause wheel breakage or ejection.*
- f) **Use only the manufacturer's flanges and elastic washers for mounting.** *Do not use adapters, reducers, or modify grinding wheels in any way.*
- g) **Never touch a rotating grinding wheel or spindle.** *Allow the wheel to come to a complete stop before handling the workpiece or making adjustments.*
- h) **Keep the grinding area free of flammable materials.** *Sparks can ignite liquids, gases, or dust and cause fire or explosion.*
- i) **Wear appropriate personal protective equipment (PPE).** *Always use impact-rated eye protection; wear hearing and respiratory protection when needed.*
- j) **Disconnect the power supply before any maintenance, wheel change, or cleaning.** *This prevents accidental start-up and severe injury.*

RESIDUAL RISKS

Even with correct use and full compliance with safety instructions, the following residual risks cannot be eliminated:

Wheel fragment ejection. High-velocity fragments may be ejected if the wheel breaks.

Contact with rotating parts. Direct contact can cause severe lacerations, avulsions, or amputations.

Ignition by sparks. Sparks may ignite flammable liquids, gases, dust, or fibers—especially in confined spaces.

Dust exposure. Fine dust is generated during grinding; it may remain in the

breathing zone even with dust extraction.

Noise hazard. Noise levels may exceed 85 dB; prolonged exposure can cause permanent hearing damage.

Hand-arm vibration. Prolonged use may lead to vibration-related disorders and circulatory issues.

Electric shock risk. Risk remains if insulation is damaged, moisture enters, or components fail.

Electromagnetic fields. The motor generates fields that may interfere with implanted medical devices.

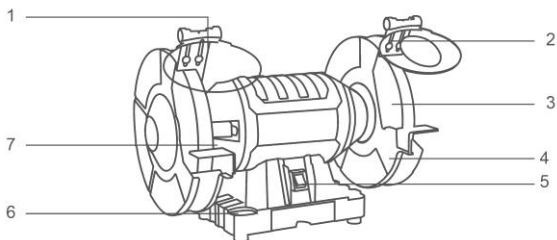
INTENDED USE

This bench grinder is intended for dry peripheral grinding and tool sharpening of metals in stationary workshop conditions.

Use only compatible abrasive wheels as specified by the manufacturer.

Not for wet grinding, cutting, wire brushing, polishing, or continuous heavy-duty operation.

SPECIFICATIONS



Components

- | | |
|--------------------------------------|-------------------|
| 1. Eye shield | 5. Switch |
| 2. Spark arrester/eye shield bracket | 6. Mounting holes |
| 3. Grinding wheel | 7. Work rest |
| 4. Work rest fixing knob | |

Accessories

1. Eye shields 1 set
2. Tool storage box 1 pcs

Technical specifications

Model No.	BG83502 BG83502-4	UBG83502
Rated power input	350W	350W
Rated voltage	220-240V~50Hz	110-120V~60Hz
No-load speed	2950rpm	3450rpm
Wheel size	200mm (8") x 20xØ16mm	200mm (8") x 20xØ16mm
Protection class	I	I
Net weight	9.8kg	9.8kg

Technical specifications

Model No.	BG83502.8	UBG83502-9
Rated power input	350W	350W
Rated voltage	220-240V~60Hz	127V~60Hz
No-load speed	3450rpm	3450rpm
Wheel size	200mm (8") x 20xØ16mm	200mm (8") x 20xØ16mm
Protection class	I	I
Net weight	9.8kg	9.8kg

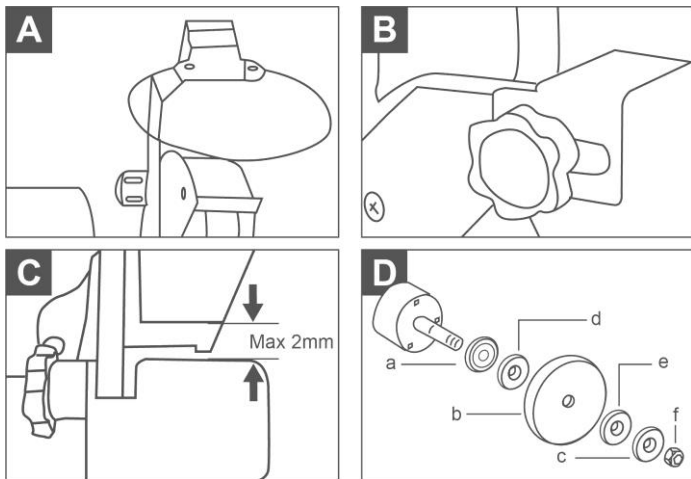
Technical specifications

Model No.	BG83502-5 BG83502-5P	BG83502-85
Rated power input	350W	350W
Rated voltage	220-240V~60Hz	220-240V~60Hz
No-load speed	3450rpm	3450rpm
Wheel size	200mm (8") x 20xØ16mm	200mm (8") x 20xØ16mm
Protection class	I	I
Net weight	9.8kg	9.8kg

Model No. NOTE: x (blank, 1,2,3,4,5,6,7,8,9,E,S,A,M); y (blank, -1,-2,-3,-4,-5,-6,-7,-8,-9,E,S,A,M)

- Due to our continuing program of research and development, the specifications herein are subject to change without notice.

OPERATION PICTURE



OPERATION

Before use

⚠ WARNING! Read all safety instructions and warnings before use. Wear ANSI Z87.1-rated safety goggles; avoid loose clothing, jewelry, and long hair near rotating parts. Keep the power cord away from the working area and moving parts.

Assembly (see Figure A)

Fit the eye shields/spark arresters: position over the mounting brackets (flanges facing away), secure with provided screw and washer; do not fully tighten at this stage.

⚠ WARNING! Never operate the grinder without properly installed and adjusted guards.

Work rest adjustment (see Figure B, C)

Mount the work rest with provided knob and washer (Figure B).

Set the gap between rest and wheel $\leq 2\text{mm}$; loosen knobs, adjust, then fully tighten (Figure C). Re-check and maintain this gap as the wheel wears.

⚠ WARNING! A gap $> 2\text{mm}$ increases the risk of workpiece jamming and wheel breakage. Always re-check the gap after wheel wear or adjustment.

Operating

- Secure the grinder to a stable surface using the mounting holes in the base (screws not provided).
- Confirm wheel integrity: inspect for chips, cracks, or other defects. Do not use a damaged wheel.
- Verify rated speed: ensure the wheel's rated speed is at least equal to the maximum speed marked on the grinder.
- Confirm correct rotation: the arrow on the wheel must match the arrow on the housing.
- Plug in, then push the On/Off switch to the on position.
- Run the grinder idle for 30–60 s, standing clear of the wheel plane.

⚠ WARNING! If abnormal noise, excessive vibration, or imbalance occurs, stop immediately. Do not proceed until the cause is identified and corrected.

- For grinding/sharpening, apply light, steady pressure; use only the peripheral surface of the wheel. Never grind on the side of the wheel.
- Switch off and unplug the grinder when not in use or before any adjustment.

⚠ WARNING!

- Never grind on the side of a grinding wheel: this can cause the wheel to break and fly apart.**
- Do not exceed recommended pressure or apply lateral loads to the wheel.**

Changing grinding wheels (see Figure D)

⚠ WARNING! Always unplug the grinder from the mains supply before changing wheels or adjusting any components. Failure to do so can result in accidental start-up and severe injury.

- Unplug from mains supply.
- Remove eye shield brackets, then undo the three screws holding the wheel guard covers; remove the cover.
- Undo and remove the wheel retaining nuts (f). If needed, hold the wheel and tap the spanner with a soft-headed hammer to release the nut.
- Remove the large domed washer (c), paper washer (e), and the wheel (b).
- Install a new wheel only if undamaged and rated for the grinder's maximum speed. Position paper washer and domed washer correctly. Tighten retaining nuts firmly.
- Reinstall guard covers and eye shield brackets; ensure all fasteners are fully tightened.
- Before first use with a new wheel, stand clear of the wheel plane and run the

grinder at maximum no-load speed for one minute. If the wheel breaks or shows instability, stop and do not use it.

⚠ WARNING! Only use manufacturer-specified flanges and washers. Do not modify wheels or use improvised spacers.

MAINTENANCE&MALFUNCTIONS

Cleaning

⚠ CAUTION!

- Always be sure that the tool is switched off and unplugged before cleaning or performing any maintenance.
- Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

Ventilation openings and switch levers must be kept clean and free of foreign matter. Regularly clean the tool's air vents or whenever the vents start to become obstructed. The tool may be cleaned most effectively with compressed dry air.

⚠ WARNING!

- Always wear safety goggles when cleaning tools with compressed air.
- Do not attempt to clean by inserting pointed objects through openings.

Maintenance

⚠ CAUTION!

- Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.
- Preventive maintenance performed by unauthorized personnel may result in misplacing of internal wires and components which could cause serious hazard.

Only use original spare parts / accessories from the manufacturer or authorized and qualified workshops.

Repairs should only be carried out by qualified technicians or by an authorized service center. Qualified technicians must have relevant training and experience, be familiar with the design and construction requirements of the product and understand and follow the safety regulations.

Replacing the carbon brushes

The carbon brushes may only be replaced by an authorized specialist workshop or by qualified skilled personnel.

Replacing the mains cable/plug

Damaged mains cables/plug may only be replaced with genuine replacement cables/plugs available from the manufacturer.

Main's cables/plugs may only be replaced by the manufacturer, an authorized service center or a qualified person.

Protecting the Environment



Products marked with this symbol must not be disposed of with normal household waste. Recycle in accordance with local regulations. Batteries and electronic components must be disposed of separately

Optional accessories

⚠ CAUTION!

Accessories or attachments are recommended for use with your tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose.

If you need any assistance for more details regarding these accessories, ask your local Authorized Service Center.

NOTE: Some Accessories or attachments may be included in the tool package as standard accessories. They may differ from country to country

Transportation and storage safety

- a) **Packaging:** during transportation, the product must be packed in the original protective packaging to prevent damage from impact, extrusion, and vibration.
- b) **Handling:** do not use clamping technologies for loading/unloading that may crush the packaging.
- c) **Sea/air transport:** use moisture-proof and shockproof materials to protect against humidity and turbulence.
- d) **Stacking:** do not stack heavy goods on the packaged product.
- e) **Storage:** keep the product in a dry, cool, well-ventilated place at 0°C–30°C. Avoid contact with corrosive gases, liquids, and sharp objects.

⚠ WARNING!

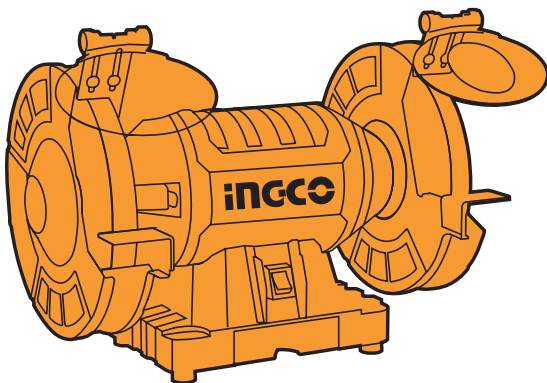
Never store the tool with the battery installed for extended periods. Follow the battery manufacturer's recommendations for long-term storage temperature.

Troubleshooting

⚠ WARNING!

Before any inspection or troubleshooting, switch off the tool and unplug it from the mains supply. Do not attempt repairs beyond those described in this table. Servicing must be performed only by an authorized service center.

Symptom	Probable causes	Actions
Excessive vibration or noise	Imbalance of the wheel, damaged flanges, or loose fasteners	Stop the machine. Check and tighten fasteners. Inspect the wheel and flanges for defects; replace if necessary.
Wheel does not rotate or rotates erratically	Drive issue (motor, gearbox) or workpiece jamming	Unplug the machine. Check mechanical components. If mechanical obstruction is cleared and the issue persists, consult a qualified service technician.
Sparks or burning smell	Overload, workpiece jamming, or worn motor brushes	Immediately stop use. Check if the workpiece is jammed. Inspect motor brushes. Do not resume operation until the cause is resolved.
Power switch malfunction	Damaged switch or loose contacts	Unplug the machine. Do not use the tool until repaired by a qualified service technician.
Damaged guard or work rest	Mechanical damage from use or transport	Replace the damaged component. Do not operate the machine without properly installed and adjusted protective devices.



MADE IN CHINA 0826.V14

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