

WOKIN

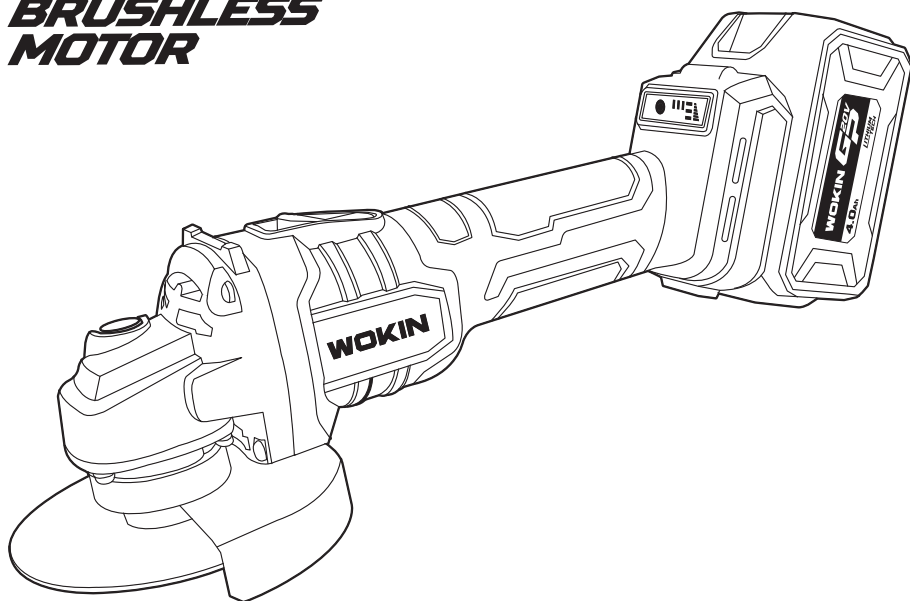
621411

INDUSTRIAL

LI-ION CORDLESS ANGLE GRINDER INSTRUCTION MANUAL

20V

BL
BRUSHLESS
MOTOR



GP^{20V}

**LITHIUM
TECH**



SAVE THIS MANUAL!

You will need this manual for safety instructions, operating procedures and warranty.
Put it and the original sales receipt in a safe dry place for future reference.

IMPORTANT SAFETY INFORMATION

General Safety

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.

WARNING:

This appliance is not intended for use by persons (including children) with reduced, physical or mental capabilities or lack of experience or knowledge unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children must be supervised to ensure that they do not play with the appliance.

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

1. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
2. 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.
3. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Electrical safety

1. 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.
2. 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.
3. **DO NOT** expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
4. **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.
5. 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.
6. If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) or ground fault circuit interrupter (GFCI) protected supply. Use of an RCD or GFCI reduces the risk of electric shock.
7. Power tools can produce electromagnetic fields [EMF] that are not harmful to the user. However, users

of pacemakers and other similar medical devices should contact the maker of their device and/or doctor for advice before operating this power tool.

Personal safety

1. 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.
2. 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.
3. 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.
4. 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.
5. **DO NOT** overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
6. 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.
7. 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.
8. 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

1. **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.
2. **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.
3. 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.
4. 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.
5. 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.

6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. 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.
8. 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.

Battery Tool Use and Care

1. Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
2. Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
3. When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
4. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
5. Do not use a battery pack or tool that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
6. Do not expose a battery pack or tool to fire or excessive temperature. Exposure to fire or temperature above 130 °C may cause explosion.
7. Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions. Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

Service

1. 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.
2. Never service damaged battery packs. Service of battery packs should only be performed by the manufacturer or authorized service providers.
3. Follow instruction for lubricating and changing accessories.

Battery Charger Safety

Use the battery charger correctly

1. Refer to the section of this manual relating to use of the battery charger before attempting to charge the battery.
2. Do not attempt to use the charger with any batteries other than those supplied. Keep your battery charger clean; foreign objects or dirt may cause a short or block air vents. Failure to follow these instructions may cause overheating or fire.
3. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

WARNING:

This charger can only be used to charge the batteries which has WOKIN GP20V symbol. If it is used to charge other kinds of batteries, there is a risk of explosion.

DO NOT attempt to recharge non-rechargeable batteries.

SAVE THESE INSTRUCTIONS

WARNING:

DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to safety rules for the subject product. MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

Note: Symbology

Pay attention to all the signs and symbols shown in these instructions and on your tool. Make a note of these signs and symbols. If you interpret the signs and symbols correctly, your work with the machine will be safer and better.

	Read the instructions for use before starting the machine.
	Wear safety goggles.
	Wear ear protection.
	Wear good quality, strong gloves.
	Always use breathing apparatus when machining materials which generate dust.
	Operating environmental temperature.
	Keep away from fire
	Do not throw it into water

	WARNING
	Battery pack is part of the recyclable resources
	Class II
	For indoor use only
	Polarity
	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.
	Batteries and rechargeable batteries are not household waste! As a consumer, you are required by law to dispose of all batteries and accumulators, whether or not they contain harmful substances*, at a collection point in your municipality / neighborhood or in commerce so that they can be disposed of in an environmentally sound manner.

SPECIFICATIONS

LI-ION CORDLESS ANGLE GRINDER

Voltage	20V 
Disc diameter	115mm[4.5"]
Bore diameter	22.2mm
Max.Wheel thickness	6mm[1/4"]
No load speed	3500/5500/7500 min ⁻¹
Spindle thread	M14



*Not all the accessories illustrated or described are included in standard delivery.

OPERATION GUIDELINE

Installation and removal of battery pack [See figure A]

Press the lock buttons of battery pack and pull it out.

To insert the battery pack, simply push it into the machine.

Avoid the excessive force



ASSEMBLY

⚠ WARNING:

When installing or replacing the accessories, turn off the switch and remove the battery pack. Otherwise the serious injury may occur.

1. Installation of side handle [Figure B]

⚠ WARNING:

Note:

Be sure to install the side handle securely before operation.

Align the side handle with the threaded hole in the gearbox and turn them clockwise until the side handle is tightened;



2. Installation of shield and wheel [Figure C]

⚠ WARNING:

The cut-off wheel is equipped with a fully-closed shield and the grinding wheel blade is equipped with a semi-closed shield. Moreover, the diameter of wheel shall match that of shield.

The thickness of inner pressure plate disk is greater than 3MM external pressure plate

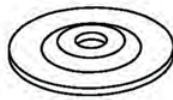
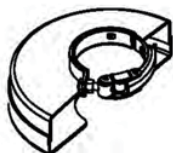
The thickness of inner pressure plate disk is less than 3MM external pressure plate

Cutting piece shield

Grinding piece shield

Cutting piece

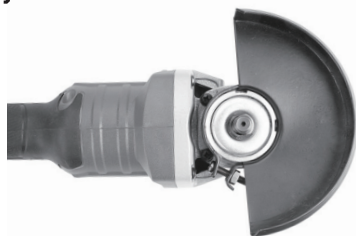
Cutting piece



3. Installation or removal of shield (See figure D)

⚠ WARNING:

When the tool is used, the shield shall be mounted on the tool and the closed side of shield shall always face the operator!



4. Installation of shield

Step 1: open the shield lock 1 ;

Step 2: Align the bump 2 on the shield with the notch on the gearbox;

Step 3: Press down the shield until the shield is inserted into the gearbox, and the bump 2 is engaged in the groove on the gearbox 3 ;

Step 4: Rotate the shield between the output shaft and the operator. Select an appropriate angle, and then lock the buckle 1 .

5 Adjustment of shield(Figure E)

When the shield is delivered, it has been pre-adjusted to a position where it can be tightened. If the shield becomes loose after a period of use, tighten the screw 1 in the figure with the shield tighte



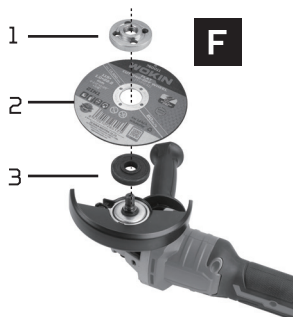
6 Removal of shield:

In reverse order of installation: first loosen the buckle, rotate the shield, and align the bump on the shield with the notch on the gearbox and pull out the shield vertically

7 Installation and removal of wheel see Figure F.G.H :

⚠ WARNING:

When the tool is equipped with a wheel, be sure to use the wheel shield. The wheel may be crushed during use. The shield may help reduce the risk of personal injury



8 Installation of wheel:

Step 1: Turn off the switch and pull out the battery pack

Step 2: Install the inner pressure plate without thread on the spindle, with a side with step downwards, and get it caught on the spindle

Step 3: Install the wheel on the inner pressure plate

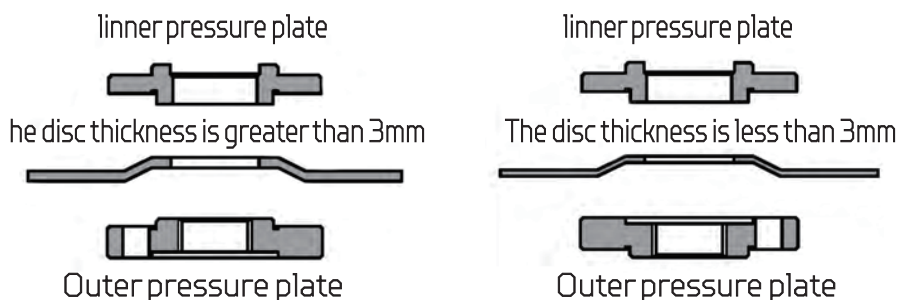
Step 4: Drive the threaded outer pressure plate clockwise into the spindle

Step 5: Press and hold the spindle lock button I in Figure G to prevent the spindle from rotating.

Tighten the outer pressure plate clockwise with the locking wrench Figure H .

⚠ Note:

When the thickness of wheel is greater than 3 mm, the side of outer pressure plate with the center boss is in contact with the wheel; when the thickness of wheel is less than or equal to 3 mm, the side of the outer pressure plate with the center groove is in contact with the wheel. See Figure I.J



9 Removal of wheel:

⚠ WARNING:

The axis lock can only be used when the spindle stops rotating. After confirming the shutdown and unplugging the battery pack, repeat the above steps in reverse order.

OPERATION

⚠ WARNING:

Do not operate the tool too hard. Excessive pressure may cause damage to the wheel.

If the tool falls during the operation, be sure to replace the wheel.

Never hit the workpiece with a backing pad or grinding wheel.

The bounce and blockage of wheel shall be avoided to prevent the wheel from rebounding, especially for the processing of corner or sharp edge. Timber saw blade and other saw blades are strictly prohibited.

The angle grinder with these saw blades . will frequently bounce up, and it is prone to runaway and cause personal injury.

⚠ Note:

The maximum cutting depth is 5mm. Adjust the pressure on the tool so that the tool does not slow down during operation.

After the operation, be sure to close the tool and lower the tool only after the wheel has completely stopped.

When the tool keeps operating until the battery is exhausted, leave the tool for 15 min before replacing the new battery pack.

Switch [See figure K]

Slide the switch pushbutton from position "0" to position "1."

**Grinding operation [Figure L]****⚠ Note:**

According to the material of workpiece, the wheel of different material shall be selected, and the recommended diameter is adopted. The maximum rotating speed of wheel shall be more than 13000 rpm. The inner hole shall fit the pressure plate tightly.

Keep the working environment and workpiece clean and tidy.

Place one hand on the outer casing, and the other on the side handle, hold and start the tool, wait for the tool to reach the maximum rotating speed, slowly place the wheel on the workpiece, and then move the wheel smoothly.

Usually the edge of wheel shall be at an angle of about 20 degrees to the surface of workpiece. When the work is finished, separate the machine from the workpiece and then release the switch.

If the grinding lasts too long at one place on the surface of workpiece, or if the angle between the machine and workpiece is too large, the groove will be ground on the surface of workpiece.

⚠ WARNING:

During the operation, do not squeeze the wheel or press the machine excessively. Otherwise the wheel has the risk of rupture and may cause the injury; Always use the accompanied guard, and do not use the guard or be sure to carry the guard;

Never use the cut-off wheel for grinding.

Cutting operation see [Figure M]

⚠ Note:

According to the material of workpiece, the wheel of different material shall be selected, and the recommended diameter is adopted. The maximum rotating speed of wheel shall be more than 13000 rpm. The inner hole shall fit the pressure plate tightly.

Keep the working environment and workpiece clean and tidy.

Place one hand on the outer casing, and the other on the side handle, hold and start the tool, wait for the tool to reach the maximum rotating speed, slowly place the wheel on the workpiece, and exert a slight force to improve the cutting efficiency.

Once the incision is formed, do not change the cutting angle. Otherwise, the wheel will be easily deformed and broken, causing a risk of injury. When the work is finished, separate the machine from the workpiece and then release the switch.

⚠ WARNING:

Do not squeeze the wheel or apply an excessive pressure. Avoid the deep cutting, which will increase the load, make the wheel easy to twist or stick and increase the possibility of rebound or damage to the wheel.

The wheel may break and the motor may overheat.

Always use the accompanied guard, and do not use the guard or be sure to carry the guard;

Never use the cut-off wheel for grinding.

Never initiate a cutting operation in the workpiece. Please carefully insert the wheel into the surface of cutting workpiece after it reaches the full speed. If the electric tool starts in the workpiece, the wheel may stick, move or rebound.

Do not change the angle of wheel during the cutting operation. Applying a side pressure to the cut-off wheel will cause the wheel to crack and break, resulting in the serious personal injury.



Battery level indication:

When the machine switch is pressed, the battery indicator will stay on for 5s. The remaining capacity of battery pack may be determined according to the following table.

LED display	Remaining battery
	0-25%
	25-50%
	50-75%
	75-100%

QUESTION AND ANSWER**1. Why does the machine not operate after the switch is pressed?**

Check if the level of battery pack is too low.

Check if the battery pack is installed properly.

2 Why does the machine stop when it is not tightened?

The machine has low-voltage protection. When the level of battery pack is too low, the machine will not work. Please confirm the level of battery pack.

The machine has temperature protection. When the battery is working at full load for a long time, the battery pack will overheat and the temperature protection system will start to stop the machine. Cool the machine to normal temperature before resumption.

The machine is equipped with overload protection. When the load is excessive, the protection system will start. Stop working.

⚠ WARNING:

Please keep the wheel floating when the machine is turned on and not touch the workpiece. Otherwise, the wheel will be damaged and the machine will rebound.

3 Why is the service life of same kind of battery pack is different?

If a battery pack is left unused for a long time, its service life may be shortened. This is the matter of charging frequency. Repeated charging and application may improve the situation. In case of heavy work, the battery pack will run out soon. Do not charge in a temperature below 0 C or above 35 . Otherwise, the performance of battery pack will be affected.

Maintenance:

Be sure to pull off the plug before repairing or replacing the machine:

The electric tool does not require additional lubrication or other maintenance. Do not wash the electric tool with the water or chemical cleaner.

Wipe it off with a dry cloth. Tool shall be stored under the dry conditions and kept clean at the vent of motor.

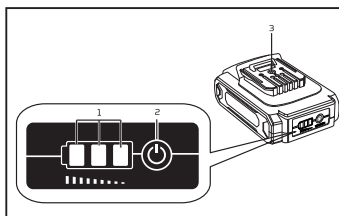
Try not to use it in a dusty environment.

To prolong the service life of battery pack:

1 Store the battery pack below 26 C after charging it to 30%-50%.

2 Charge the battery pack fully once in less than 6 months.

INDICATING THE REMAINING BATTERY PACK



1. Indicator lamps 2. Check button. 3. DC port

Indicator lamps		Remaining capacity
Lighted	Off	
■ ■ ■	□	75% to 100%
■ ■ □	□	35% to 75%
■ □ □	□	5% to 35%

Press the check button on the battery pack to indicate the remaining battery capacity. The indicator lamps light up for a few seconds.

NOTE: Depending on the conditions of use and the ambient temperature, the indication may differ slightly from the actual capacity.

MAINTENANCE

WARNING: ALWAYS disconnect from the mains power supply, before carrying out any maintenance/cleaning of the charger. Remove the battery before carrying out any maintenance/cleaning of the appliance.

Note: Both the appliance and the charger contain no user-serviceable parts. If the device does not perform as outlined in this manual, return it to an authorised service centre for repair.

General Inspection

1. Regularly check that all the fixing screws are tight.
2. Inspect the supply cord of the tool, prior to each use, for damage or wear. Repairs should be carried out by an authorised service centre. This advice also applies to extension cords used with this too.

Cleaning

1. Keep your tool clean at all times. Dirt and dust will cause internal parts to wear quickly, and shorten the machine's service life. Clean the body of your machine with a soft brush, or dry cloth. If available, use clean, dry, compressed air to blow through the ventilation holes.
2. Clean the tool casing with a soft damp cloth using a mild detergent. Do not use alcohol, petrol or strong cleaning agents.
3. Never use caustic agents to clean plastic parts.

Lubrication

1. Slightly lubricate all moving parts at regular intervals with a suitable spray lubricant.

Storage

1. Store this tool carefully in a secure, dry place out of the reach of children.
2. Do not store the tool and battery pack in locations where the temperature may reach or exceed 40 °C.

Disposal

Always adhere to national regulations when disposing of power tools that are no longer functional and are not viable for repair.

1. Do not dispose of power tools, or other waste electrical and electronic equipment (WEEE), with household waste.
2. Contact your local waste disposal authority for information on the correct way to dispose of power tools

TROUBLESHOOTING

Problem	Possible causes	Likely solutions
Tool will not start.	1. Battery Pack not properly connected. 2. Battery Pack not properly charged. 3. Battery Pack worn out. 4. Internal damage or wear. (Carbon brushes or Trigger, for example.) 5. Contact chips of switch or battery pack deformed. 6. Battery is not suitable for WOKIN GP20V lithium-ion power platform system 7. Overload operation	1. Remove Battery Pack, make sure there are no obstructions, clean battery contacts on tool, reinsert the Battery Pack according to its shape (it should only fit one way), and press firmly until the Battery Pack locks in place. 2. Make sure Charger is connected and operating properly. Give enough time for Battery Pack to recharge properly. 3. Dispose of old Battery Pack properly or recycle. Replace Battery Pack. 4. Have technician service tool. 5. Replace switch or Battery Pack 6. Replace the battery of WOKIN GP20V 7. Stop to use and restart the machine after cooling.
Tool operates slowly.	1. Excess pressure applied to workpiece. 2. Battery Pack wearing out. 3. Low battery	1. Decrease pressure, allow tool to do the work. 2. Dispose of old Battery Pack properly or recycle. Replace Battery Pack. 3. Recharge or replace a fully charged battery
Performance-decreases over time.	1. Chuck damaged. 2. Battery Pack worn out.	1. Have qualified technician replace brushes. 2. Dispose of old Battery Pack properly or recycle. Replace Battery Pack.
Excessive noise or rattling.	Internal damage or wear. (gear or bearings, for example.)	Have technician service tool.
Overheating.	1. Forcing tool to work too fast. 2. Blocked motor housing vents.	1. Allow tool to work at its own rate. 2. Clean the Blocked motor housing vents

CE DECLARATION OF CONFORMITY

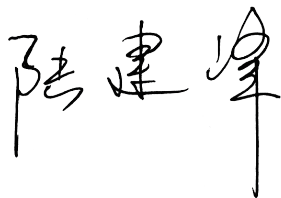
WE
ZJG WOKIN INDUSTRIAL CO.,LTD.
350 YANGJIN ROAD, ZHANGJIAGANG,
JIANGSU, CHINA

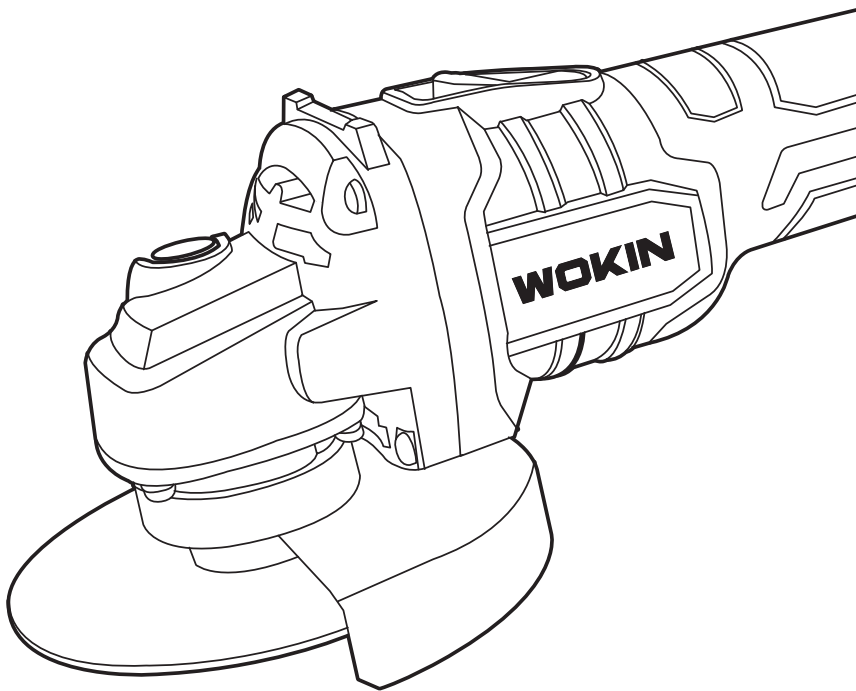
Declare that the product
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LI-ION CORDLESS ANGLE GRINDER

Complies with the essential health and safety requirements of the following Directives:
council directive 2006/42/EC

Standards and technical specifications referred to:
EN 60745-1: 2009 + A11: 2010
EN 60745-2-3: 2011+A2:2013+A11:2014+A12:2014+A13:2015
EN 55014-1:2017+A11:2020
EN 55014-2:2015

Authorised Signatory and technical file holder
Signed for and on behalf of:
ZJG WOKIN INDUSTRIAL CO.,LTD.
350 YANGJIN ROAD, ZHANGJIAGANG,
JIANGSU, CHINA.
WANG QING
Group Quality Director
on:06/05/2025

A handwritten signature in black ink, appearing to read '陆建峰' (Lu Jianfeng), which is likely the name of the authorized signatory, Wang Qing.



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