



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)/骑马钉(20P以上用骑马钉) 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

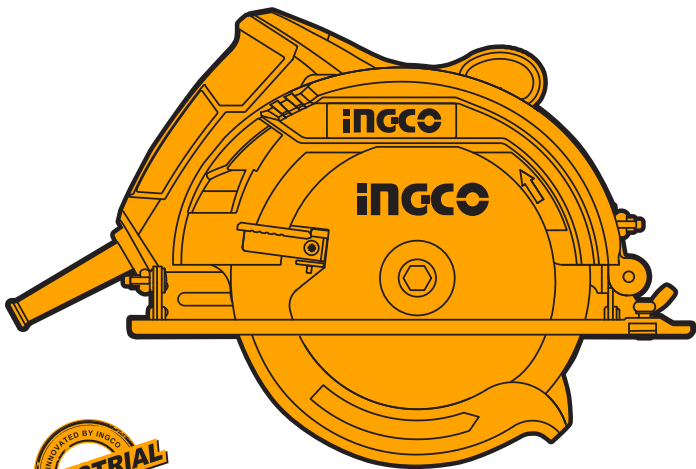
更改记录	1.更新封面封底线稿 删除专业款标记			1.新风格 2.增加专业款标记 3.货号改为通用			添加U款-9衍生货号		
	0124.V07	2024.1.3	CH	0824.V08	2024.8.12	MZH	0825.V09	2025.8.6	Earl
	版本号	日期	设计师	版本号	日期	设计师	版本号	日期	设计师

INGCO

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PRODUCT MANUAL

CIRCULAR SAW



CS18538 UCS18538

CS18538xy UCS18538xy

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)



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

	Double insulated for additional protection
	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.
	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.

SAFETY WARNING ON USING

Safety instructions for all saws

Cutting procedures

- a) **DANGER! Keep hands away from cutting area and the blade. Keep your second hand on auxiliary handle, or motor housing.** *If both hands are holding the saw, they cannot be cut by the blade.*
- b) **Do not reach underneath the workpiece.** *The guard cannot protect you from the blade below the workpiece.*
- c) **Adjust the cutting depth to the thickness of the workpiece.** *Less than a full tooth of the blade teeth should be visible below the workpiece.*
- d) **Never hold the workpiece in your hands or across your leg while cutting. Secure the workpiece to a stable platform.** *It is important to support the work properly to minimise body exposure, blade binding, or loss of control.*
- e) **Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting tool may contact hidden wiring or its own cord.** *Contact with a "live" wire will also make exposed metal parts of the power tool "live" and could give the operator an electric shock.*
- f) **When ripping, always use a rip fence or straight edge guide.** *This improves the accuracy of cut and reduces the chance of blade binding.*
- g) **Always use blades with correct size and shape (diamond versus round) of arbour holes.** *Blades that do not match the mounting hardware of the saw will run off-centre, causing loss of control.*
- h) **Never use damaged or incorrect blade washers or bolt.** *The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.*

Further safety instructions for all saws

Kickback causes and related warnings

- kickback is a sudden reaction to a pinched, jammed or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator;
- when the blade is pinched or jammed tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator;
- if the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to

climb out of the kerf and jump back toward the operator.

Kickback is the result of saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- a) **Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade.** *Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator, if proper precautions are taken.*
- b) **When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur.** *Investigate and take corrective actions to eliminate the cause of blade binding.*
- c) **When restarting a saw in the work piece, center the saw blade in the kerf so that the saw teeth are not engaged into the material.** *If a saw blade binds, it may walk up or kickback from the workpiece as the saw is restarted.*
- d) **Support large panels to minimize the risk of blade pinching and kickback.** *Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.*
- e) **Do not use dull or damaged blades.** *Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.*
- f) **Blade depth and bevel adjusting locking levers must be tight and secure before making the cut.** *If blade adjustment shifts while cutting, it may cause binding and kickback.*
- g) **Use extra caution when sawing into existing walls or other blind areas.** *The protruding blade may cut objects that can cause kickback.*

Safety instructions for saws with pendulum guard and saws with tow guard.

Lower guard function

- a) **Check the lower guard for proper closing before each use. Do not operate the saw if the lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position.** *If the saw is*

accidentally dropped, the lower guard may be bent. Raise the lower guard with the retracting handle and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.

- b) **Check the operation of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use. Lower guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.**
- c) **The lower guard may be retracted manually only for special cuts such as "plunge cuts" and "compound cuts". Raise the lower guard by the retracting handle and as soon as the blade enters the material, the lower guard must be released. For all other sawing, the lower guard should operate automatically.**
- d) **Always observe that the lower guard is covering the blade before placing the saw down on bench or floor. An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after switch is released.**

Additional safety warnings

Working with the hand-held circular saw

- a) **Always hold the circular saw firmly. The lower guard will be pushed back automatically by the workpiece.**
- b) **Never apply force! Advance the circular saw gently and steadily.**
- c) **The off-cut piece should be to the right of the circular saw so that the wide part of the base plate is supported over its entire surface.**
- d) **When sawing along a marked line, guide the circular saw along the corresponding groove. Clamp small pieces of wood securely before sawing. Never hold them in your hand.**
- e) **Always observe the safety regulations! Wear goggles!**
- f) **Do not use defective saw blades or blades with cracks or flaws.**
- g) **Do not use flanges or flange nuts with a hole which is larger or smaller than that of the saw blade used.**
- h) **Do not try to stop the saw blade with your hand or by applying pressure to the side of the blade. The lower guard must not jam and must return to its original position once work is completed. Before plugging in the circular saw, check that the lower guard is functioning properly.**

- i) **Before each use, always check that the safety devices - the lower guard, flanges and adjustment devices - are functioning properly and have been adjusted and secured correctly.** *The lower guard is not to be wedged in the retracted guard hood when sawing.*

RESIDUAL RISKS

Even when the power tool is used as prescribed it is not possible to eliminate all residual risk factors. The following hazards may arise in connection with the power tool's construction and design:

- a) Health defects resulting from vibration emission if the power tool is being used over longer period of time or not adequately managed and properly maintained.
- b) Injuries and damage to property due to broken accessories that are suddenly dashed.

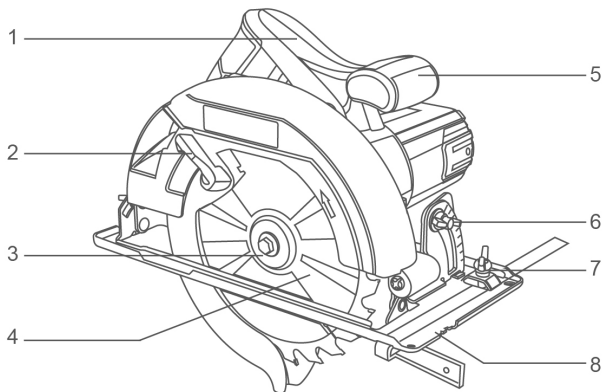
WARNING!

This power tool produces an electromagnetic field during operation. This field may under some circumstances interfere with active or passive medical implants. To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their physician and the medical implant manufacturer before operating this power tool.

INTENDED USE

This circular saw is intended to cut wood products by lengthways and crossways straight cuts and miter cuts with angles while in firm contact with the workpiece.

SPECIFICATIONS



Components

- | | |
|----------------|-------------------------------------|
| 1. Handle | 5. Additional handle |
| 2. Lower guard | 6. Lock screw for mitre cuts |
| 3. Flange | 7. Lock screw for the parallel stop |
| 4. Saw blade | 8. Parallel guide |

Accessories

1. Parallel guide 1pcs
2. Wrench 1pcs
3. TCT blade 1pcs
4. Carbon brushes 1set

Technical specifications

Mode No.	CS18538 CS18538xy	CS18538-9
Rated voltage	220-240V~50/60Hz	220-240V~60Hz
Rated power input	1400W	1400W
No-load speed	4800rpm	4800rpm
Cutting depth at 45°	45mm	45mm
Cutting depth at 90°	65mm	65mm
Saw blade size	185mm	185mm
Protection class	□ / II	□ / II

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

- Due to our continuing program of research and development, the specifications herein are subject to change without notice.
- Specifications and battery cartridge may differ from country to country.

Mode No.	UCS18538 UCS18538xy	UCS18538-9 (INMETRO Plug)
Rated voltage	110-120V~50/60Hz	127V~60Hz
Rated power input	1400W	1400W
No-load speed	4800rpm	4800rpm
Cutting depth at 45°	1-3/4"	1-3/4"
Cutting depth at 90°	2-9/16"	2-9/16"
Saw blade size	7-1/4"	7-1/4"
Protection class	□ / II	□ / II

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

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

The noise emission, measured in accordance with EN62841-2-5:

Sound pressure level	L_{pA}	105,0 dB (A)
Sound power level	L_{wA}	113,0 dB (A)
Uncertainty	K	3 dB (A)

Wear hearing protection!

The vibration total value and its uncertainty determined according to EN62841-2-5:

Cutting wood

Vibration emission value (cutting wood)	$a_{h,W}$	3,5 m/s ²
Uncertainty	K	1,5 m/s ²

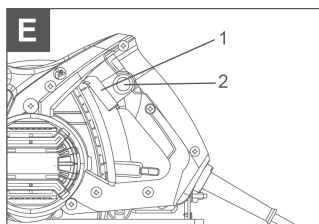
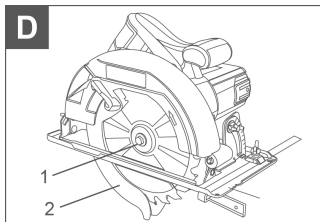
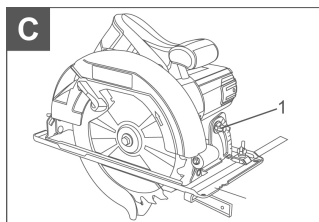
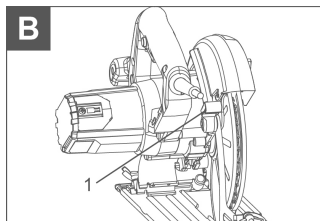
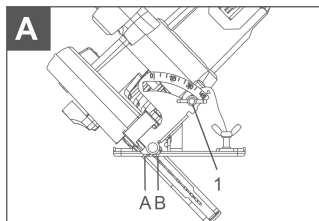
That the declared vibration total value has been measured in accordance with a standard test method and may be used for comparing one tool with another.

That the declared vibration total value may also be used in a preliminary assessment of exposure.

WARNING!

- That the vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used;
- Identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

OPERATION PICTURE



OPERATION

Parallel cuts (see Figure A)

IMPORTANT!

Wear ear muffs and goggles.

- Release the lock screw (1).
- For 90° cuts, adjust the parallel guide (8) using the scale on groove A, for 45° cuts adjust the parallel guide (8) using the scale on groove B. Observe the saw blade width.
- Tighten the lock screw.

IMPORTANT!

First make a trial cut.

Adjustment of the cutting depth (see Figure B)

- Release the locking lever (1).
- Swing the shoe downwards.
- Adjust the cutting depth using the scale. The saw teeth must project approx. 2mm out of the wood.
- Push the locking lever down

Adjustment of the cutting angle (see Figure C)

- Release the lock screw (1).
- Adjust the cutting angle to the desired angle between 0° and 45°.
- Tighten the lock screw (1).

Changing the saw blade (see Figure D)

IMPORTANT!

Pull out the plug before making any changes to the circular saw!

- Open the lower guard (2) and hold.
- Press the lock button.
- Undo the screw
- Remove the flange (1) and the saw blade by dropping down and out.
- Clean the flange and insert a new blade. Note the direction of rotation (see arrow on the guard hood).
- Tighten the screw and check for concentricity.

Switching On

Before pressing the switch, check that the saw blade is properly fitted, that the moving parts run smoothly and that the clamping screws are tight.

Switching On and Off (see Figure E)

To switch On: Press the lock button (2) and the switch (1) simultaneously.

To switch Off: Release the lock button and the switch.

Operation

Hold the tool firmly. The tool is provided with both a front grip and rear handle. Use both to best grasp the tool. If both hands are holding saw, they cannot be cut by the blade. Set the base on the workpiece to be cut without the blade making any contact. Then turn the tool on and wait until the blade attains full speed. Now simply move the tool forward over the workpiece surface, keeping it flat and advancing smoothly until the sawing is completed.

To get clean cuts, keep your sawing line straight and your speed of advance uniform. If the cut fails to properly follow your intended cut line, do not attempt to turn or force the tool back to the cut line. Doing so may bind the blade and lead to dangerous kickback and possible serious injury. Release switch, wait for blade to stop and then withdraw tool. Realign tool on new cut line, and start cut again. Attempt to avoid positioning which exposes operator to chips and wood dust being ejected from saw. Use eye protection to help avoid injury

MAINTENANCE&MALFUNCTIONS

Possible malfunctions and methods of their eliminations

Malfunction	Probable causes	Actions
When the machine is turned on, the electric motor does not work.	● Switch failure ● The power cord or wiring is broken, power cord plug malfunction; ● No brush contact with the collector; ● Wear/damage of brushes	Disconnect the machine from the mains and contact a qualified specialist.
Formation of a circular fire on the collector	● Brush wear/damage of the brush holder; ● Malfunction in the armature coil	Disconnect the machine from the mains and contact a qualified specialist. Please don't repair the machine by your own.
When working, smoke or the smell of burning insulation appears from the ventilation openings.	● Malfunction in the electric motor coil; ● Malfunction of the electrical part of the tool.	
Increased noise in the gearbox	● Wear/breakage of gears or bearings	
When the machine is turned on, the spindle does not rotate	● Gearbox failure.	

Critical state criteria

Critical state criteria	Probable causes	Actions
Cracks on the surfaces of bearing and housing parts	Fatigue deformation of metal	Disconnect the machine from the mains and contact a qualified specialist. Please don't repair the machine by your own.
The power cord or plug is damaged	Overload or breakage	
Excessive wear or damage to the motor or reductor mechanism, or a combination of signs	Fatigue deformation of metal	

Critical state criteria

List of critical failures	Actions
Electric motor sparking	It is necessary to contact a qualified specialist
The appearance of extraneous noise	It is necessary to contact a qualified specialist
If the above malfunctions are detected, it is necessary to disconnect the machine from the mains and contact a qualified specialist	



MADE IN CHINA 0825.V09

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