

# ozito

## BENCH GRINDER

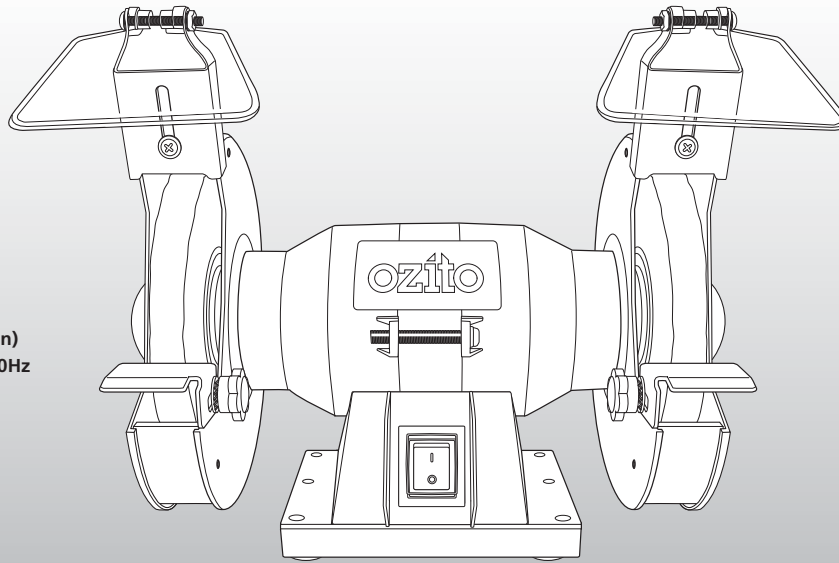
**150W 150mm**

### INSTRUCTION MANUAL

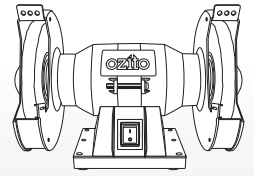
#### SPECIFICATIONS

Motor:	120W; 150W (S2 30min)
Input:	230 – 240V ~ 50Hz
No Load Speed:	2,980/min
Wheel Diameter:	150mm
Accessory Thickness:	16mm Max.
Wheel Bore Diameter:	12.7mm
Wheel Grit:	36 & 60
Weight:	5.5 kg

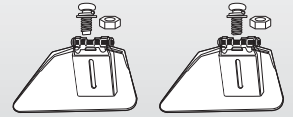
ozito.com.au



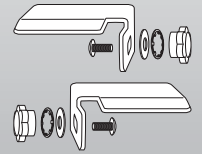
#### STANDARD EQUIPMENT



Bench Grinder



Eye Shield Assembly x 2



Tool Rest Assembly x 2

# 3 YEAR REPLACEMENT WARRANTY

**OZBG150WA**

## WARRANTY

IN ORDER TO MAKE A CLAIM UNDER THIS WARRANTY YOU MUST RETURN THE PRODUCT TO YOUR NEAREST BUNNINGS WAREHOUSE WITH YOUR BUNNINGS REGISTER RECEIPT. PRIOR TO RETURNING YOUR PRODUCT FOR WARRANTY PLEASE TELEPHONE OUR CUSTOMER SERVICE HELPLINE:

**Australia 1800 069 486**

**New Zealand 0508 069 486**

TO ENSURE A SPEEDY RESPONSE PLEASE HAVE THE MODEL NUMBER AND DATE OF PURCHASE AVAILABLE. A CUSTOMER SERVICE REPRESENTATIVE WILL TAKE YOUR CALL AND ANSWER ANY QUESTIONS YOU MAY HAVE RELATING TO THE WARRANTY POLICY OR PROCEDURE.

The benefits provided under this warranty are in addition to other rights and remedies which are available to you at law.

Our goods come with guarantees that cannot be excluded at law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Generally you will be responsible for all costs associated with a claim under this warranty, however, where you have suffered any additional direct loss as a result of a defective product you may be able to claim such expenses by contacting our customer service helpline above.

### 3 YEAR REPLACEMENT WARRANTY

Your product is guaranteed for a period of 36 months from the original date of purchase and is intended for DIY (Do It Yourself) use only. If a product is defective it will be replaced in accordance with the terms of this warranty. Warranty excludes consumable parts, for example: grinding wheels, etc.

### WARNING

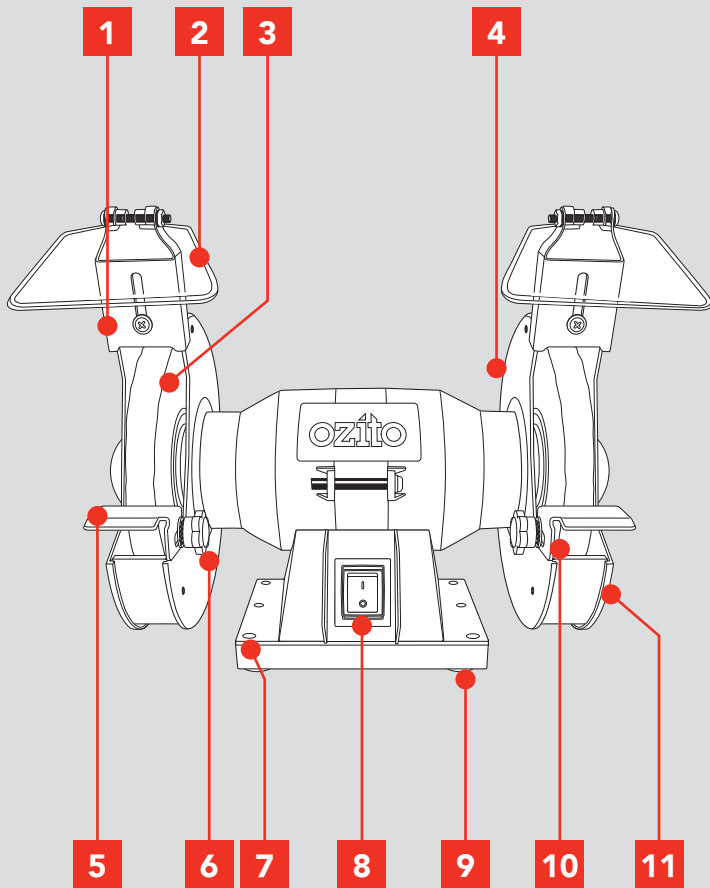
The following actions will result in the warranty being void.

- i If the tool has been operated on a supply voltage other than that specified on the tool.
- i If the tool shows signs of damage or defects caused by or resulting from abuse, accidents or alterations.
- i Failure to perform maintenance as set out within the instruction manual.
- i If the tool is disassembled or tampered with in any way.
- i Professional, industrial or high frequency use.

# KNOW YOUR PRODUCT

## BENCH GRINDER

1. Eye Shield Bracket
2. Eye Shield
3. Grinding Wheel
4. Wheel Guard
5. Tool Rest
6. Tool Rest Adjusting Knob
7. Mounting Hole
8. On/Off Switch
9. Rubber Foot
10. Tool Rest Bar
11. Wheel Guard Cover



### ONLINE MANUAL

Scan this QR Code with your mobile device to take you to the online manual.



# SETUP & PREPARATION

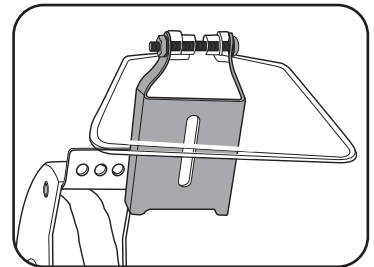
## 1. ASSEMBLY

**⚠ WARNING!** TURN OFF THE BENCH GRINDER AT THE MAINS OUTLET AND UNPLUG BEFORE ATTEMPTING ASSEMBLY. FAILURE TO DO SO MAY CAUSE SERIOUS PERSONAL INJURY.

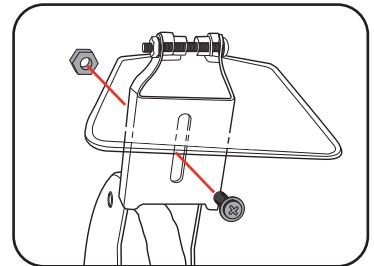
Remove the bench grinder and contents from within the carton. Sit the bench grinder down on a table or bench with the switch side facing towards you.

### Fitting The Eye Shields

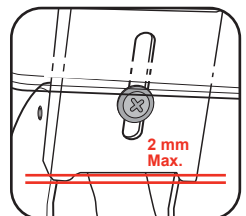
1. Assemble the eye shields by placing the raised metal sides of the eye shield bracket onto the upper wheel guard. Align the central hole in the upper wheel guard with the slot in the eye shield bracket.



2. Fix the eye shield bracket to the upper wheel guard using the screws supplied with a flat washer and spring washer. Fasten in place with a nut at the rear of the upper wheel guard.



3. Adjust the eye shield using the adjusting screw so that the distance between the grinding wheel and the eye shield bracket is as small as possible and does not exceed 2 mm.



**Note:** Adjust the eye shields periodically to compensate for wear on the grinding wheels.

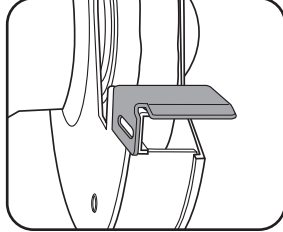
**⚠ WARNING!** THE GRINDING WHEEL MUST BE REPLACED IF THE 2mm SPACING CANNOT BE MAINTAINED.

**3** YEAR REPLACEMENT WARRANTY

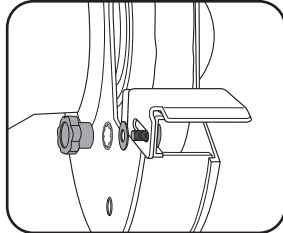
# OPERATION

## Fitting The Tool Rests

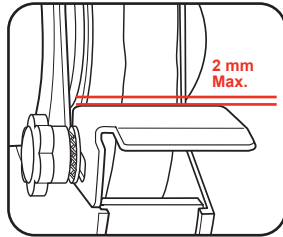
1. Assemble the tool rest by placing it over the tool rest bar. The smaller, slightly angled portion of the tool rest should be closest to you and facing down. The angle of the tool rest should be adjusted according to the application.



2. Feed one of the supplied bolts through the tool rest bar and tool rest. Place a flat washer and star washer over the threaded end of the bolt and secure by fastening tool rest adjusting knob.



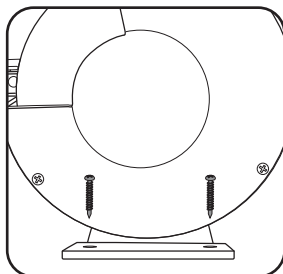
**Note:** For the tool rest to work effectively, it should be no more than 2 mm away from the grinding wheel. This will also aid in the deflection of stray sparks. As the wheel wears with use adjust the tool rest accordingly.



**WARNING!** THE GRINDING WHEEL MUST BE REPLACED IF THE 2mm SPACING CANNOT BE MAINTAINED.

## Mounting The Bench Grinder

For extra stability, we recommend securing the bench grinder using the mounting holes provided on the corners of the base. Secure to a bench or table using bolts or long screws (not supplied).



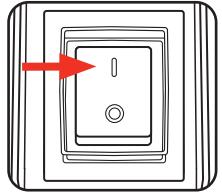
**WARNING!** ENSURE THE BENCH GRINDER IS ALWAYS STABLE AND SECURE BEFORE STARTING OPERATION.

## 2. CONTROLS

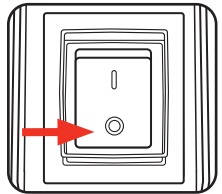
**WARNING!** THE POWER SUPPLY FOR THIS PRODUCT SHOULD BE PROTECTED BY A RESIDUAL CURRENT DEVICE (RATED AT 30MA OR LESS). A RESIDUAL CURRENT DEVICE REDUCES THE RISK OF ELECTRIC SHOCK.

### On/Off Switch

1. Turn the bench grinder on by pushing the On/Off switch to the "I" (On) position. Once depressed it will remain on.



2. Turn the bench grinder off by pushing the On/Off switch to the "O" (Off) position.



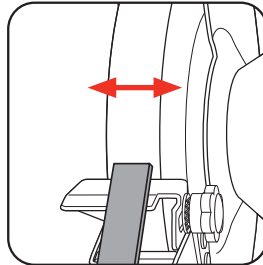
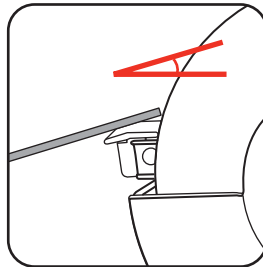
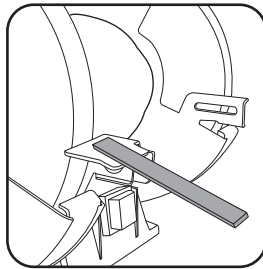
### 3. USAGE

**WARNING!** ALWAYS USE THE GUARD, TOOL REST AND EYE SHIELD DURING OPERATION.

**WARNING!** DO NOT GRIND WITH THE EYE SHIELD RAISED: ALWAYS WEAR SAFETY GLASSES WHEN OPERATING THE BENCH GRINDER.

#### Grinding

1. Turn the bench grinder on and stand to one side while the bench grinder reaches maximum speed.
2. Place the workpiece onto the tool rest.
3. Slowly guide the workpiece towards the grinding wheel, ensuring that the workpiece is at the desired angle when it makes contact.
4. Apply gradual pressure to allow the wheel to warm up evenly. Use only the pressure required to complete the job.
5. By moving the work piece back and forth across the wheel you will prevent grooves.

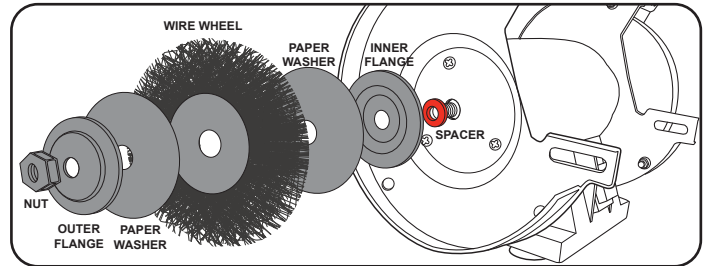


#### De-burring & Cleaning

The bench grinder can also be fitted with wire wheels (not included) for de-burring metals, cleaning welds, and removing paint or rust.

**WARNING!** WIRE WHEELS AND GRINDING DISCS USED ON THE TOOL SHOULD NOT EXCEED THE ACCESSORY DIMENSION LIMITS LISTED.

**A spacer must be used with wire wheels.** Place the spacer on the spindle before fitting the flange-wire wheel assembly.



Refer to the section on CHANGING THE WHEELS for full instructions on replacing an accessory.

## 4. WHEEL REPLACEMENT

**WARNING!** ENSURE THE BENCH GRINDER IS TURNED OFF & DISCONNECTED FROM THE POWER SUPPLY BEFORE PERFORMING ANY OF THE FOLLOWING OPERATIONS.

**WARNING!** ONLY USE ACCESSORIES THAT HAVE DIMENSIONS WITHIN THE SPECIFICATIONS FOR THIS MACHINE AND HAVE AN EQUAL OR HIGHER RATED SPEED TO THE MAXIMUM SPEED OF THE BENCH GRINDER. THE ACCESSORIES MUST HAVE THE CORRECT BORE SIZE.

### When to Change The Wheels

Abrasive wheels should be discarded when:

- The diameter approaches that of the driving flanges.
- The tool rest can no longer be correctly adjusted to the wheel diameter.
- The wheel no longer grinds efficiently because of reduced peripheral speed.
- The wheels are damaged or deeply grooved.

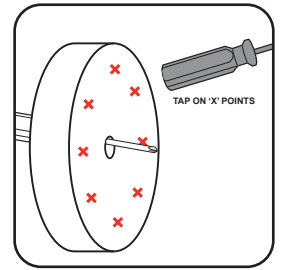
**WARNING!** ALWAYS VISUALLY INSPECT FOR DAMAGE/ DEFECTS AND APPLY THE 'RING' TEST TO WHEELS PRIOR TO FITTING. DAMAGED WHEELS SHOULD NOT BE USED.

### Performing The 'Ring' Test

To ensure the wheel is free of defects, the ring test should be done before the wheel is mounted. Two screwdrivers (not supplied) will be needed to conduct the test.

**Note:** Make sure the wheel is dry and free of sawdust or other material that could deaden the sound of the ring.

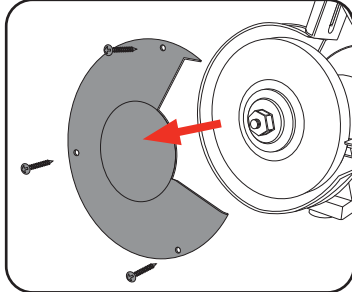
1. Slide the wheel onto one of the screwdrivers, making sure it can turn freely.
2. Use the handle of the other screwdriver to tap the wheel at 4 points. Each tap should emit a clear, metallic ring.
3. Turn the wheel 45° and tap again at 4 diagonally opposite points. The wheel passes the test if it gives a clear metallic tone when tapped at all 8 points.



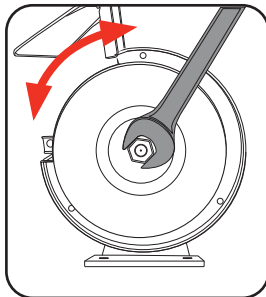
**WARNING!** IF THE WHEEL DOES NOT EMIT A CLEAR, METALLIC RING WHEN TAPPED AT ANY OF THE POINTS, IT IS CRACKED. DO NOT USE IT.

## Changing The Wheels

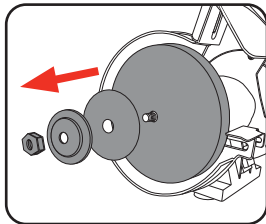
1. Loosen the three bolts using a Phillip head screwdriver (not included). Remove the cover.



2. Use a spanner or shifter (not supplied) to loosen the wheel lock nut. To remove the left wheel nut rotate clockwise. To remove the right wheel nut rotate anti-clockwise. Whilst wearing gloves, use one hand to lock the wheel in place and the other to loosen the nut.

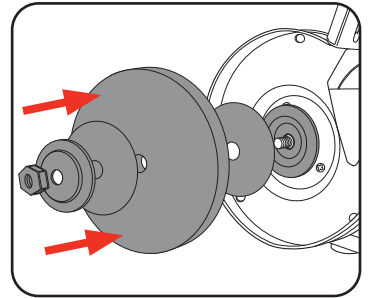


3. Remove the nut, outer flange, paper washer and old wheel.



**Note:** If you did not get paper washers with your new wheel, re-use the old ones.

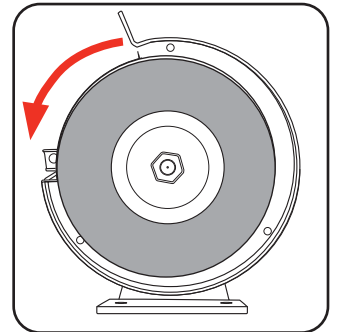
4. Fit the first paper washer over the spindle up against the inner flange. Fit the new wheel. Fit the second paper washer over spindle up against the wheel, then fit the outer flange and nut back to the spindle.



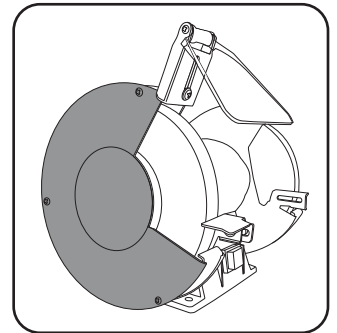
5. Use one hand to lock the wheel in place and the other to tighten the nut.

**Note:** If you are tightening the left wheel nut; tighten anti clockwise until the right wheel begins to turn. If you are tightening the right wheel nut, tighten clockwise until the left wheel begins to turn.

6. Ensure the new wheel is secured and rotates freely before proceeding.



7. Re-assemble the wheel cover; align the screws before tightening with a Phillip head screwdriver



8. Switch on the bench grinder and ensure that the wheels are running in alignment before commencing use.



**WARNING!** ALWAYS USE THE BENCH GRINDER WITH ACCESSORIES AND THE GUARD MOUNTED ON BOTH SPINDLES IN ORDER TO REDUCE THE RISK OF INJURY FROM THE ROTATING SPINDLE.

## 5. GENERAL MAINTENANCE

### Wheel dressing

Dressing a wheel is done to renew sharpness or to true up the face of a wheel.

A build up of metals and dirt will become embedded in a wheel as it is used. Use a wheel dressing tool (not supplied) to clean wheels. This will also improve the bench grinder's performance.


**Note:** New wheels sometimes require dressing to true up their face.

### Cleaning and lubrication

Use only mild soap and a moist cloth to clean the tool. Never let any liquid get inside the tool; never immerse any part of the tool into a liquid. Self lubricating bearings are used in the tool and periodic lubrication is not required.






### Transport

To lift the bench grinder, hold and support the body of the grinder.

 **WARNING!** ALLOW THE BENCH GRINDER TO COOL BEFORE ATTEMPTING TO MOVE THE BENCH GRINDER.

**Note:** Ozito Industries will not be responsible for any damage or injuries caused by repairing of the bench grinder by an unauthorised person or by mishandling of the tool.

## DESCRIPTION OF SYMBOLS

<b>V</b>	Volts	<b>Hz</b>	Hertz
<b>~</b>	Alternating Current	<b>W</b>	Watts
<b>/min</b>	Revolutions or reciprocations per minute	<b>n<sub>0</sub></b>	No load speed
	Wear eye, ear & breathing protection		Regulatory Compliance Mark (RCM)
	Protective Earth		Warning
	Read Instruction Manual		

## CARING FOR THE ENVIRONMENT



Power tools that are no longer usable should not be disposed of with household waste but in an environmentally friendly way. Please recycle where facilities exist. Check with your local council authority for recycling advice.



Recycling packaging reduces the need for landfill and raw materials. Reuse of recycled material decreases pollution in the environment. Please recycle packaging where facilities exist. Check with your local council authority for recycling advice.

## SPARE PARTS

Spare parts can be ordered from the Special Orders Desk at your local Bunnings Warehouse.

For further information, or any parts not listed here, visit [www.ozito.com.au](http://www.ozito.com.au) or contact Ozito Customer Service:


Australia 1800 069 486

New Zealand 0508 069 486

E-mail: [enquiries@ozito.com.au](mailto:enquiries@ozito.com.au)



# ELECTRICAL SAFETY

 **WARNING!** When using mains-powered tools, basic safety precautions, including the following, should always be followed to reduce risk of fire, electric shock, personal injury and material damage.

Read and understand the manual prior to operating this tool. Save these instructions and other documents supplied with this tool for future reference.

The electric motor has been designed for 230V and 240V only. Always check that the power supply corresponds to the voltage on the rating plate.

Note: The supply of 230V and 240V on Ozito tools are interchangeable for Australia and New Zealand.


If the supply cord is damaged, it must be replaced by a qualified electrician or a power tool repairer in order to avoid a hazard.

## Using an Extension Lead

Always use an approved extension lead suitable for the power input of this tool. Before use, inspect the extension lead for signs of damage, wear and ageing. Replace the extension lead if damaged or defective.

When using an extension lead on a reel, always unwind the lead completely. Use of an extension lead not suitable for the power input of the tool or which is damaged or defective may result in a risk of fire and electric shock.

# GENERAL POWER TOOL SAFETY WARNINGS

 **WARNING!** Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference. The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

## 1. Work area safety

- 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.

## 2. 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.

## 3. 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 inattention while operating power tools may result in serious personal injury.
- 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.
- 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, clothing and gloves 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 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.
    - 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. 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.

# BENCH GRINDER SAFETY WARNINGS

- Always remove the plug from the mains socket before making any adjustments or maintenance, including changing the wheel.
- Always wear eye protection and check that the safety window on the grinder are properly adjusted.
- Always turn the grinder off when it is not in use and never leave it unattended without first switching off and removing the power plug. Never leave the grinder until the grinding wheels have come to a complete stop.
- Do not let anyone under 18 years operate this tool.
- Rags, cloths, cord, string and the like should never be left around the work area.
- If you are interrupted when operating the tool, complete the process and switch off before looking up.
- Periodically check that all nuts, bolts and other fixings are properly tightened.
- Never operate the bench grinder with cracked or damaged wheels. Always replace cracked or damaged grinding wheels immediately.
- Always allow a new wheel to run for a few minutes at full speed before using it. Stand to one side at start up.
- Check that the wheel rotates freely each time before start up.
- Do not use the grinder unless all the guards are properly fitted and secure.
- Check that the tool rests are properly adjusted before commencing use.
- Do not overload the grinder. Allow the grinder to run at full speed, or close to full speed during use.
- If possible, always use clamps or a vice to hold your work.
- Ensure that the lighting is adequate.
- Do not put pressure on the tool, such that it slows the motor down. Allow the attachments to work without pressure. You will get better results and you will be taking better care of your tool.
- Make sure that the wheel is not in contact with the work when you start the grinder.
- When using the grinder, use safety equipment including safety goggles or shield, ear protection, dust mask and protective clothing including safety gloves.
- Keep the area free of tripping hazards.
- Keep your hands well clear of the grinding wheel.
- To prevent damage to the power cable, always lead it away from the rear of the machine.
- Use on materials containing asbestos is prohibited.
- The machine may exceed 85 db (A) at the workplace. The operator will require noise protection measures and ear muffs if this is the case.
- Protect the mains cable from becoming damaged by oil, solvents and sharp edges.
- Make sure that the switch is turned off when connecting the tool to the power supply.
- Check that the rotating speed shown on the wheel is equal to or higher than the rated speed of rotation for the grinder.
- Make sure that the grinding wheel is of the correct size for the grinder.
- Take precautions to ensure that flying sparks do not cause any danger, e.g. that they do not hit anyone or cause inflammable substances to ignite.
- Ensure the eye shields and tool rests are properly adjusted. (max. 2 mm clearance).
- Never use an object to slow or stop the grinding wheel whilst in motion.
- Ensure the bench grinder speed doesn't exceed the operating speed marked on replacement wheels.
- Always use the eye shields and tool rests. Ensure the eye shields and tool rests are properly adjusted. Don't use grinding wheels for cutting purposes.
- Before starting work, firmly screw the grinder to the workbench etc. using the mounting holes in the base plate.
- Adjust the spark deflector periodically in order to compensate the wear of the wheel. Distance between the spark deflector and the wheel should in no case exceed 2mm.
- The grinding wheel must be replaced at the latest when the spark deflector and the workpiece support can no longer be set a maximum distance of 2mm from the grinding wheel.
- Keep this safety information in a safe place.** If in doubt, do not plug in the tool. Using a power source with a voltage less than the nameplate rating is harmful to the motor.
- The tool must be used only for its prescribed purpose. Any use other than those mentioned in this Manual will be considered a case of misuse. The user and not the manufacturer shall be liable for any damage or injury resulting from such cases of misuse.
- To use this tool properly, you must observe the safety regulations, the assembly instructions and the operating instructions to be found in this manual. All persons who use and service the machine have to be acquainted with this manual and must be informed about its potential hazards.
- This appliance is not intended for use by young or infirm persons unless supervised by a responsible person to ensure that they can use the appliance safely. Young children should be supervised to ensure that they do not play with the appliance.
- The manufacturer shall not be liable for any changes made to the tool nor for any damage resulting from such changes.
- Even when the tool is used as prescribed it is not possible to eliminate all residual risk factors. The following hazards may arise in connection with the tool's construction and design:
  - Damage to the lungs if an effective dust mask is not worn.
  - Damage to hearing if effective ear defenders are not worn
  - Contact with the grinding wheel where it is not covered.
  - Catapulting of parts from damaged grinding wheels.
  - Catapulting of workpieces and parts of workpieces from the machine.
- Wear goggles, Wear ear protection, Wear a breathing mask
- Do not use a damaged accessory. Before each use, inspect the accessory such as abrasive wheels for chips and cracks and wire brushes for loose or cracked wires. 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.
- 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.
- Be aware that wire bristles are thrown by the wire brush even during ordinary operation. Do not overstress the wires by applying excessive load to the wire brush. The wire bristles can easily penetrate light clothing and/or skin.
- Never grind on the sides of a grinding wheel. Grinding on the side can cause the wheel to break and fly apart.